



**CONTRACT NO: HY/2019/18**

**WANCHAI DEVELOPMENT PHASE II AND CENTRAL  
WANCHAI BYPASS  
SAMPLING, FIELD MEASUREMENT AND TESTING WORK  
(STAGE 4)**

**ENVIRONMENTAL PERMIT NO. EP-364/2009/H,  
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-07/364/2009/H**

**MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

**- FEBRUARY 2022 -**

**CLIENTS:**

**Civil Engineering and Development  
Department**

**and**

**Highways Department**

**PREPARED BY:**

**Lam Geotechnics Limited**

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**CERTIFIED BY:**

**Raymond Dai**  
Environmental Team Leader

**DATE:**

10 March 2022

10 March 2022

AECOM Asia Company Limited  
11/F, Tower 2  
Grand Central Plaza  
138 Shatin Rural Committee Road  
Shatin, New Territories  
Hong Kong

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

**Re: Wan Chai Development Phase II - Central-Wan Chai Bypass  
Monthly Environmental Monitoring and Audit Report (February 2022)  
for EP-364/2009/H and FEP-07/364/2009/H**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for February 2022 received by email on 10 March 2022 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

Thank you very much for your attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,



David Yeung  
Independent Environmental Checker

c.c.	HyD	Attn: Mr. Enoch Wong	by fax: 2714 5289
	CEDD	Attn: Mr. Jimmy Ling	by fax: 2301 1277
	AECOM	Attn: Mr. Francis Leong/ Stephen Lai	by fax: 2691 2649
	AECOM	Attn: Mr. S. K. Lo	by fax: 2587 1877
	AECOM	Attn: Ms. Lydia Lee	by fax: 2142 5577
	Lam	Attn: Mr. Raymond Dai	by fax: 2882 3331

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**EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – [February 2022](#) specific for Environmental Permit no. EP-364/2009/H, Further Environmental Permit nos. FEP-07/364/2009/H. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HY/2019/18 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 4). This report presents the environmental monitoring findings and information recorded during the period of [27 January 2022 to 26 February 2022](#).
- ii. The implementation of the Environmental Monitoring and Audit Programme for the Wan Chai Development phase II and Central-Wan Chai Bypass Project has been taken over by the Lam Geotechnics Limited (LGL) under Contract HY/2019/18 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 4) from 11 December 2019 in continuation of the previous Environmental Team employed under Contract HK/2011/07 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 2) and Contract HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3).
- iii. In the reporting period, the principal work activities of individual contracts are included as follows:

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- [Modification work of noise enclosure](#)
- [Open area hard paving.](#)
- [D12 & Open Area fire main laying works.](#)
- [D9 to D12 and P22 to P25 drainage works.](#)
- [Road studs installation at IEC](#)
- [Remedial work at bridge F Soffit between pier 36-43](#)

Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M4b - Victoria Centre; M5b - City Garden and M6 - HK Baptist Church Henrietta Secondary School on weekly basis in the reporting period.
- v. With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Road Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- vi. With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a – Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge for Harbour Road Sports for noise monitoring.
- vii. With respect to the demolition of the temporary Footbridge for Harbour Road Sports Centre, the monitoring station M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre was relocated as M1b – Rooftop of Wan Chai Ferry Pier on 2 November 2020.
- viii. With respect to the non-CWB Project building construction at Oil Street, the real-time noise monitoring station RTN2a- Hong Kong Electric Centre was finely adjusted from Northeast Side to Northwestern side at Roof Top location on 03 March 2017.
- ix. Noise monitoring at M7e - International Finance Centre (Eastern End of Podium), M7w - International Finance Centre (Western End of Podium) and M8 - City Hall were temporarily suspended on 16 June 2020 with respect to work completion confirmed by CWB RSS since 16 June 2020.
- x. Noise monitoring at M1b - Rooftop of Wan Chai Ferry Pier was temporarily suspended on 23 December 2020 with respect to work completion confirmed by WDII RSS.
- xi. As confirmed with CWB RSS, major construction activities of HY/2011/08 under FEP-11/364/2009/E have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the noise monitoring station M4b, real-time noise monitoring stations RTN1, RTN2a and RTN4 were no longer associated with Contract HY/2011/08 from 9 February 2021 onward.
- xii. As confirmed with CWB RSS, major construction activities of HY/2009/15 under FEP-06/364/2009/A and HY/2010/08 under FEP-10/364/2009/B have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the noise monitoring stations M2b – Noon-day gun area and M3a – Tung Lo Wan Fire Station have been temporarily suspended from 22 March 2021 onward.
- xiii. As confirmed with CWB RSS, the major construction works of HY/2009/19 at Rumsey Street Flyover and Planter under FEP-07/364/2009/H have been completed and no PME will be used for the remaining minor defects rectification works. As such, the noise monitoring station M7a – Harbour Building has been temporarily suspended from 24 May 2021 onward.
- xiv. [With respect to work completion and no PME would be operated at the open area near Victoria Centre and Causeway Bay Community Centre near Victoria Centre and Causeway Bay Community Centre confirmed by CWB RSS, the noise monitoring station M4b – Victoria Centre has been temporarily suspended from 11 February 2022 onward.](#)
- xv. [No action or limit level exceedance was recorded in the reporting period.](#)
- xvi. [24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot. No action or limit level exceedance was recorded at in the reporting period.](#)

- xvii. 24-hour real time noise monitoring was conducted at RTN2a - Hong Kong Electric Centre. No action or limit level exceedance was recorded at in the reporting period.
- xviii. 24-hour real time noise monitoring was conducted at RTN3 - Yu Lee Mo Fan Memorial School. No action or limit level exceedance was recorded at in the reporting period.
- xix. 24-hour real time noise monitoring was conducted at RTN4 – Causeway Bay Community Centre. No action or limit level exceedance was recorded at in the reporting period.

#### Air Quality Monitoring

- xx. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA2a - Causeway Bay Community Center on every six days basis.
- xxi. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016.
- xxii. With respect to the proposed demolition of the Oil Street Site Office, the respective air quality monitoring station CMA1b – Harbour Grand Hotel Boundary Wall was finely adjusted from the Oil Street Site Office to Harbor Grand Hotel Boundary Wall from 05 June 2017 onwards.
- xxiii. With respect to work completion confirmed by CWB RSS, air quality monitoring at MA1e - International Finance Centre (Eastern End of Podium) and MA1w - International Finance Centre (Western End of Podium) were temporarily suspended from 16 June 2020 onwards and CMA5b - Pedestrian Plaza was temporarily suspended from 20 July 2020 onwards.
- xxiv. With respect to work completion confirmed by WDII RSS, air quality monitoring at CMA4a – Society for the Prevention of Cruelty to Animals was temporarily suspended and CMA3a-CWB PRE Site Office Area would no longer associated with Contract HK/2009/02 from 23 December 2020 onwards.
- xxv. As confirmed with CWB RSS, major construction activities of HY/2011/08 under FEP-11/364/2009/E have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the air quality monitoring stations CMA1b - Harbour Grand Hotel Boundary Wall and CMA2a - Causeway Bay Community Centre were no longer associated with Contract HY/2011/08 from 9 February 2021 onward.
- xxvi. As demolition of concrete slab work will be conducted at CMA1b - Harbour Grand Hotel Boundary Wall and there is no other appropriate locations for installation of sampler, air quality monitoring station CMA1b - Harbour Grand Hotel Boundary Wall will be represented by CMA2a-Causeway Bay Community Centre from 12 March 2021 onward due to short separation distance between two stations.
- xxvii. As confirmed with CWB RSS, major construction activities of HY/2009/15 under FEP-06/364/2009/A and HY/2010/08 under FEP-10/364/2009/B have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the air quality monitoring station CMA3a – CWB PRE site office has been temporarily suspended from 22 March 2021 onward.

xxviii. As confirmed with CWB RSS, the major construction works of HY/2009/19 at Rumsey Street Flyover and Planter under FEP-07/364/2009/H have been completed and no PME will be used for the remaining minor defects rectification works. As such, the air quality monitoring station MA1b – Harbour Building has been temporarily suspended from 24 May 2021 onward.

xxix. With respect to work completion and no PME would be operated at the open area near Victoria Centre and Causeway Bay Community Centre near Victoria Centre and Causeway Bay Community Centre confirmed by CWB RSS, the air quality monitoring station CMA2a – Causeway Bay Community Centre has been temporarily suspended from 11 February 2022 onward.

xxx. No action or limit level exceedance was recorded in the reporting period.

#### Complaints, Notifications of Summons and Successful Prosecutions

xxxi. No environmental complaints, summons and prosecutions were received during the reporting period.

#### Site Inspections and Audit

xxxii. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/19 in this reporting period.

xxxiii. Construction of bored pile E3B under HY/2009/17 was confirmed completed and the respective work area under FEP-03/364/2009 was handover and inspected under HY/2009/19 from 19 Dec 2012 onwards.

xxxiv. Construction works under HK/2010/06 was confirmed completed and the respective work area under FEP-08/364/2009/A was handover and inspected under HK/2012/08 from 22 Sep 2014 onwards.

xxxv. As confirmed with CWB RSS, the construction works under Contract HY/2009/15 was completed from 27 October 2017 onwards. The respective weekly site audit inspection for HY/2009/15 was therefore suspended from 27 October 2017 onwards.

xxxvi. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

xxxvii. As confirmed with CWB RSS, the construction works under Contract HY/2009/18 was completed from 25 April 2018 onward. The respective weekly site audit inspection for HY/2009/18 was therefore temporary suspended from 27 April 2018 onwards.

xxxviii. As confirmed with WDII RSS and with respect to the joint inspection conducted with IEC on 25 May 2018, RSS, ET and IEC share the view that there is no adverse environmental impact of remaining works under Contract HK/2009/01 and the respective environmental site inspection was temporary suspended from 26 May 2018 onwards.

xxxix. As confirmed by CWB RSS, the seabed reinstatement works was resumed under Contract HY/2009/15 at EX-PCWA area on 26 June 2019 and the respective weekly site audit inspection for HY/2009/15 was resume from 26 June 2019 onwards and report under FEP-04/356/2009 in EP-356/2009 Monthly EM&A Report.

xl. As confirmed by CWB RSS, the seabed reinstatement works was resumed under Contract HY/2010/08 at CBTS area on 7 August 2019 and the respective environmental monitoring for

- HY/2010/08 was resume from 7 August 2019 onwards and report under FEP-07/356/2009 in EP-356/2009 Monthly EM&A Report.
- xli. As WDII RSS confirmation of construction works completion on 21 October 2019 and agreed with IEC on 1 November 2019, the weekly environmental site inspection for Contract no. HK/2012/08 under EP-364/2009/G was suspended from 1 November 2019 onward.
- xlii. As confirmed with CWB RSS, major construction works and landscape works associated with WVB and nearby roads under HY/2011/08 are completed and only minor defects rectification works within WVB and tunnel area remain, in view of the defects rectification works are minor and are carried out in indoor area, the weekly environmental site inspection for Contract no. HY/2011/08 under EP-364/2009/H was temporarily suspended from 20 July 2020 until the resumption of remaining construction works.
- xliii. As confirmed with WDII RSS, there is no more remaining works for HK/2009/02 under EP-364/2009 on 22 December 2020 and agreed with IEC on 23 December 2020, the weekly environmental site inspection for Contract no. for HK/2009/02 under EP-364/2009/H was suspended from 23 December 2020 onward. FEP-01/364/2009 was surrendered by the Contractor on 27 Jul 2021.
- xliv. As confirmed with CWB RSS, major construction activities of HY/2011/08 under FEP-11/364/2009/E have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the weekly environmental site inspection for Contract no. HY/2011/08 has been temporarily suspended from 20 July 2020 onward.
- xlvi. As confirmed with CWB RSS, major construction activities of HY/2009/15 under FEP-06/364/2009/A and HY/2010/08 under FEP-10/364/2009/B have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the weekly environmental site inspection for Contract no. HY/2009/15 and HY/2010/08 have been temporarily suspended from 22 March 2021 onward.

#### Future Key Issues

- xlvi. In the coming reporting period, the principal work activities of individual contracts are anticipated as follows:

#### Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- Modification work of noise enclosure
- Open area hard paving
- D12 & Open Area fire main laying works
- D9 to D12 and P22 to P25 drainage works
- Road studs installation at IEC
- Remedial work at bridge F Soffit between pier 36-43

## 1 INTRODUCTION

### 1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-364/2009/H and Further Environmental permit nos. FEP-07/364/2009/H to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and “*Environmental Monitoring and Audit Requirements*” under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/H, Further Environmental Permit (FEP) nos. FEP-07/364/2009/H during the period [27 January 2022 to 26 February 2022](#).

### 1.2 Structure of the Report

- Section 1**     **Introduction** – details the scope and structure of the report.
- Section 2**     **Project Background** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3**     **Status of Regulatory Compliance** – summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4**     **Monitoring Requirements** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5**     **Monitoring Results** – summarizes the monitoring results obtained in the reporting period.
- Section 6**     **Compliance Audit** – summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7**     **Cumulative Construction Impact due to the Concurrent Projects** – summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.
- Section 8**     **Environmental Site Audit** – summarizes the findings of weekly site



inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

**Section 9**     ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution

**Section 10**    ***Conclusion***



## 2 PROJECT BACKGROUND

### 2.1 Background

2.1.1. “Wan Chai Development phase II and Central-Wan Chai Bypass” and “Central-Wan Chai Bypass and Island Eastern Corridor Link” (hereafter called “the Project”) are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.

2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.

2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

### 2.2 Scope of the Project and Site Description

2.2.1. Design and Construction of Central – Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at Figure 2.1.

2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:

- A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately 3.7 km in length defined from the connection with the existing Rumsey Street Flyover in Central, through to a connection with the existing Island Eastern Corridor to the east of the Causeway Bay Typhoon Shelter (CBTS);
- The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
- Tunnel control buildings and ventilation buildings;
- Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
- Associated road lighting, road signing, traffic control and surveillance system; and
- Other associated works.



2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. **Table 2.1** summarises the five individual DPs under this Project. **Figure 2.1** shows the locations of these Schedule 2 DPs.

**Table 2.1 Schedule 2 Designated Projects under this Project**

Item	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross-harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

### 2.3 Division of the Project Responsibility

2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.

2.3.2. The details of individual contracts are summarized in **Table 2.2**.

**Table 2.2 Details of Individual Contracts under the Project**

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011 (Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)
HK/2009/01	Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre – Tunnel Works	DP1, DP2	25 August 2011 (Completed)

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East(CWB Tunnel)	DP1	26 April 2011 (Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP1,DP3	13 July 2011 (Completed)
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)
HK/2012/08	Wan Chai Development Phase II-Central-Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	10 March 2014 (Completed)
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013 (Completed)
HY/2011/08	Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014 (Completed)

## 2.4 Project Organization and Contact Personnel

2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in [Figure 2.2](#). Key personnel and contact particulars are summarized in **Table 2.3**:

**Table 2.3 Contact Details of Key Personnel**

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Senior Resident Engineer	Mr. S.K. Lo	3519 9033	2587 1877
	Engineer's Representative for CWB	Chief Resident Engineer	Ms. Lydia Lee	3762 2760	2142 5577
Chun Wo - CRGL - MBEC_Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. William Leung	3758 8879	3757 8901
		Site Agent	Mr. William Luk	3758 6868	
		Deputy Site Agent	Mr. Andrew Cheng	9161 9446	
		Environmental Officer	Mr. Kenneth Chan	6387 3939	



Party	Role	Post	Name	Contact No.	Contact Fax
		Construction Manager (Marine)	Mr. Wingo Wong	9300 2625	
		Construction Manager (Noise Barrier)	Mr. Jerry Siu	9493 3664	
		Construction Manager (Land)	Mr. Yung Kwok Wah	9834 1010	
Ramboll Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. In this reporting period, the principal work activities of individual contracts are included as follows:

Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- Modification work of noise enclosure
- Open area hard paving.
- D12 & Open Area fire main laying works.
- D9 to D12 and P22 to P25 drainage works.
- Road studs installation at IEC
- Remedial work at bridge F Soffit between pier 36-43

2.4.4. In coming reporting period, the principal work activities of individual contracts are anticipated as follows:

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- Modification work of noise enclosure
- Open area hard paving.
- D12 & Open Area fire main laying works.
- D9 to D12 and P22 to P25 drainage works.
- Road studs installation at IEC
- Remedial work at bridge F Soffit between pier 36-43

### 3 STATUS OF REGULATORY COMPLIANCE

#### 3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in **Table 3.1**.

**Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project**

Permits and/or Licenses	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Surrendered
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Surrendered
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Surrendered
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Surrendered
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Surrendered
Further Environmental Permit	FEP-08/356/2009	1 Aug 2016	Surrendered
Environmental Permit	EP-364/2009/H	22 Apr 2020	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Surrendered
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Surrendered
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Surrendered
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Surrendered
Further Environmental Permit	FEP-07/364/2009/H	22 Apr 2020	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Surrendered
Further Environmental Permit	FEP-09/364/2009/B	5 Mar 2013	Surrendered
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Surrendered
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	Surrendered
Further Environmental Permit	FEP-12/364/2009/D	01 Aug 2016	Surrendered
Environmental Permit	EP-376/2009	13 Nov 2009	Valid

Permits and/or Licenses	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-01/376/2009	31 Mar 2015	Surrendered
Further Environmental Permit	FEP-02/376/2009	1 Aug 2016	Surrendered

3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

Contract no. HY/2009/17 – Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works under FEP-03/364/2009

3.1.3. The construction works was completed and the FEP-03/364/2009 was surrendered by the Contractor on 28 March 2013.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

3.1.4. The construction works was completed, and the FEP-04/HY/2006 was surrendered by the Contractor on 11 February 2011.

Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line under FEP-08/364/2009/A

3.1.5. The construction works was completed, and the FEP-08/364/2009/A was surrendered by the Contractor on 3 October 2014.

Contract no. HK/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre – Tunnel Works under FEP-02/364/2009

3.1.6. As confirmed with WDII RSS and with respect to the joint inspection conducted with IEC on 25 May 2018, RSS, ET and IEC share the view that there is no adverse environmental impact of remaining works under Contract HK/2009/01 and the respective environmental site inspection and associated monitoring station were temporary suspended from 26 May 2018 onwards. FEP-02/364/2009 was surrendered by the Contractor on 3 September 2018.

Contract no. HY/2011/08 – Central - Wan Chai Bypass - Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E

3.1.7. As confirmed with CWB RSS, major construction activities of HY/2011/08 under FEP-11/364/2009/E have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the weekly environmental site inspection and associated monitoring station for Contract no. HY/2011/08 has been temporarily suspended from 20 July 2020 onward. FEP-11/364/2009/E was surrendered by the Contractor on 27 January 2021.

Contract no. HY/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

3.1.8. The Construction works under HY/2009/15 was confirm completed by the RSS from 27 October 2017 onwards. The weekly site audit inspection and environmental monitoring station were temporary suspended and no longer associated with HY/2009/15 from 27 October 2017 onwards. FEP-06/364/2009/A was surrendered by the Contractor on 07 June 2021.

Contract no. HY/2010/08 –Central – Wanchai Bypass Tunnel – Tunnel (Slip Road 8) under FEP-10/364/2009/B

3.1.9. The construction works was completed and the FEP-10/364/2009/B was surrendered by the Contractor on 07 June 2021.

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

3.1.10. As confirmed with WDII RSS, there is no more remaining works for HK/2009/02 under EP-364/2009 on 22 December 2020 and agreed with IEC on 23 December 2020. FEP-01/364/2009 was surrendered by the Contractor on 27 Jul 2021.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

3.1.11. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-07/364/2009/H for contract no. HY/2009/19 are shown in **Table 3.10** and **Table 3.11**.

**Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19**

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/364/2009/H	22 Apr 2020	N/A	Valid
Notification of Works Under APCO	326160	24 Jan 2011	N/A	Valid
Notification of Works (further proposed change to the particulars) Under APCO	415587	11 Apr 2017	N/A	Valid
Registration as a Waste Producer	7012306	10 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	N/A	Valid
Application for Vessel	7013285	21 Jul 2011	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Disposal				
	GW-RS0006-22	10 Jan 2022	12 Jan 2022 to 9 Jul 2022	Valid
	GW-RS0007-22	7 Jan 2022	10 Jan 2022 to 30 Jun 2022	Valid
	GW-RS0628-21	24 Aug 2021	25 Aug 2021 to 18 Feb 2022	Valid
	GW-RS0637-21	20 Aug 2021	24 Aug 2021 to 23 Feb 2022	Expired on 23 Feb 2022
Water Discharge License	WT00035697-2020	19 Jun 2020	30 Jun 2025	Valid
	WT00039182-2021	15 Nov 2021	30 Sep 2026	Valid

**Table 3.11 Summary of submission status under FEP-07/364/2009/H**

EP Condition	Submission	Date of Submission
Condition 2.13	Landscape Plan (Rev.11)	31 December 2021
Condition 2.9	Noise Management Plan (Rev.5)	29 May 2019



## 4 MONITORING REQUIREMENTS

### 4.1 Noise Monitoring

#### NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in **Table 4.1** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

**Table 4.1 Noise Monitoring Stations**

Station	Description
M1b***	Rooftop of Wan Chai Ferry Pier
M2b	Noon-day Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School
M7a	Harbour Building
M7e*	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)
M8**	City Hall

Remark \*: Location ID has been updated from M7 to M8 for City Hall

Remark \*\*: M7e has become a reference station starting from 7 Aug 2012

Remarks\*\*\*: The monitoring station M1a was relocated as M1b – Rooftop of Wan Chai Ferry Pier on 2 November 2020.

#### REAL TIME NOISE MONITORING STATIONS

4.1.2. The noise monitoring stations for the Project are listed and shown in **Table 4.2** and **Figure 4.1**. **Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

**Table 4.2 Real Time Noise Monitoring Stations**

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitfield Depot
North Point	RTN2a	Hong Kong Electric Centre
North Point	RTN3	Po Leung Kuk Yu Lee Mo Fan Memorial School
Tin Hau	RTN4	Causeway Bay Community Centre

### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq}$  (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods,  $L_{eq}$  (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as  $L_{10}$  and  $L_{90}$  shall also be obtained for reference.
- 4.1.4. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
- One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 - hours basis when noise generating activities are underway:
- One set of measurements between 0700 and 1900 hours on normal weekdays.
  - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
  - One set of measurements between 2300 and 0700 hours on next day on everyday.
- 4.1.6. If construction works are extended to include works during the hours of 1900 – 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

### MONITORING EQUIPMENT

- 4.1.7. As referred to in the Technical Memorandum <sup>TM</sup> issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.8. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 4.1.9. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

**4.2 Air Quality Monitoring**

AIR QUALITY MONITORING STATIONS

4.2.1. The air quality monitoring stations for the Project are listed and shown in **Table 4.3 and Figure 4.1. Appendix 4.1** shows the established Action/Limit Levels for the monitoring works.

**Table 4.3 Air Quality Monitoring Stations**

Station ID	Monitoring Location	Description
CMA1b	Harbour Grand Hotel Boundary Wall**	North Point (Re-commenced on 14 November 2011)
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5b	Pedestrian Plaza***	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (Western End of Podium)	Central
MA1b	Harbour Building	Central

Remarks\*: As per the ENPC meeting in March 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade was renamed as remark.

Remarks\*\*: The location ID of monitoring station CMA1b was updated as “Oil Street Site Office” in April 2013. The location ID of monitoring station CMA1b was updated as “Harbour Grand Hotel Boundary Wall” with respect to the fine adjustment of monitoring station from the Oil Street Site Office to Harbour Grand Hotel Boundary Wall from 05 June 2017 onwards due to demolition of Oil Street Site Office.

Remarks\*\*\*: The station ID and monitoring location was updated in December 2014 with respect to monitoring station relocation.

AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.

4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP

monitoring, the sampling frequency of at least three times in every six days should be undertaken when the highest dust impact occurs.

#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:

- 0.6 – 1.7 m<sup>3</sup> per minute adjustable flow range;
- Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- Capable of providing a minimum exposed area of 406 cm<sup>2</sup>;
- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.

4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

#### LABORATORY MEASUREMENT / ANALYSIS

4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24 hours and be pre-weighed before use for the sampling.

4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.

4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.

4.2.11. Current calibration certificates of equipments are presented in **Appendix 4.2.**

## 5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in **Figure 2.1** and **Figure 4.1**. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting period, the concurrent contracts are as follows:
- Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- 5.0.3. The environment monitoring schedules for reporting period and coming month are presented in **Appendix 5.1**.

**5.1 Noise Monitoring Results**

5.1.1 Monitoring for report of review baseline noise level was performed from 11 April 2011 to 8 June 2011. Then the report was submitted on the 20 June 2011, verified by IEC on 18 July 2011 and was approved by ER by January 2012. The new baseline is used for the noise calculation starting from January 2012.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

5.1.2 Noise monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 24 April 2011. The proposed division of noise monitoring stations are summarized in **Table 5.4** below.

**Table 5.4 Noise Monitoring Stations for Contract no. HY/2009/19**

Station	Description
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

5.1.3 As confirmed with CWB RSS, the major construction works of HY/2009/19 at Rumsey Street Flyover and Planter under FEP-07/364/2009/H have been completed and no PME will be used for the remaining minor defects rectification works. As such, the noise monitoring station M7a – Harbour Building has been temporarily suspended from 24 May 2021 onward.

5.1.4 With respect to work completion and no PME would be operated at the open area near Victoria Centre and Causeway Bay Community Centre near Victoria Centre and Causeway Bay Community Centre confirmed by CWB RSS, the noise monitoring station M4b – Victoria Centre has been temporarily suspended from 11 February 2022 onward.

5.1.5 No action or limit level exceedance was recorded in the reporting period.

5.1.6 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**.

## 5.2 Real Time Noise Monitoring Results

- 5.2.1. Real time noise monitoring at RTN4-Causeway Bay Community Centre was commenced on 13 Jan 2013. The baseline noise level of RTN4- Causeway Bay Community Centre has adopted the results from the baseline noise monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- 5.2.2. Po Leung Kuk Yu Lee Mo Fan Memorial School granted permission for set up on 4 Sep 2012 and real time noise monitoring station RTN3 set up was performed on 14 Sep 2012. Real time noise baseline capturing was conducted during time period without construction work from 21 Sep 2012 to 04 Oct 2012. Real time noise monitoring at RTN3 – Po Leung Kuk Yu Lee Mo Fan Memorial School was commenced since 06 Oct 2012.
- 5.2.3. Real-time noise monitoring station RTN2 previously located at oil Street Community Liaison Centre was relocated to Hong Kong Electric Centre on 5 Oct 2012, which is a representative of the noise sensitive receiver City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted at Hong Kong Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.4. Real-time noise monitoring station RTN1-FEHD Whitfield Depot was finely adjusted from 2/F to roof-top at FEHD Whitfield Depot on 24 June 2013 with respect to the commencement of advance works for IEC parapet demolition.
- 5.2.5. With respect to the non-CWB Project building construction at Oil Street, the real-time noise monitoring station RTN2a- Hong Kong Electric Centre was finely adjusted from Northeast Side to Northwestern side at Roof Top location on 03 March 2017.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

- 5.2.6. The proposed division of noise monitoring stations are summarized in **Table 5.7** below. Real time noise monitoring for major construction works under contract no. HY/2009/19 was commenced on 24 April 2011.

**Table 5.7 Real Time Noise Monitoring Stations for Contract no. HY/2009/19**

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot
RTN2a	North Point	Hong Kong Electric Centre
RTN3	North Point	Po Leung Kuk Yu Lee Mo Fan Memorial School
RTN4	Tin Hau	Causeway Bay Community Centre

*\* Real time noise monitoring results and graphical presentation during restrict hours and night time period are for information only and noise during CNP period shall be controlled under NCO.*

- 5.2.7. No action or limit level exceedance was recorded at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 5.2.8. No action or limit level exceedance was recorded at RTN2a - Hong Kong Electric Centre in the reporting period.
- 5.2.9. No action or limit level exceedance was recorded at RTN3 - Yu Lee Mo Fan Memorial School in the reporting period.
- 5.2.10. No action or limit level exceedance was recorded at RTN4 – Causeway Bay Community Centre in the reporting period.
- 5.2.11. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.4.**



**5.3 Air Quality Monitoring Results**

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

5.3.1 The proposed division of air quality monitoring stations are summarized in **Table 5.13** below. Air quality monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 26 April 2011.

**Table 5.13 Air Quality Monitoring Stations for Contract no. HY/2009/19**

Station	Description
CMA2a	Causeway Bay Community Centre

5.3.2 As demolition of concrete slab work will be conducted at CMA1b - Harbour Grand Hotel Boundary Wall and there is no other appropriate locations for installation of sampler, air quality monitoring station CMA1b - Harbour Grand Hotel Boundary Wall was suspended and represented by CMA2a-Causeway Bay Community Centre from 12 March 2021 onward due to short separation distance between two stations.

5.3.3 As confirmed with CWB RSS, the major construction works of HY/2009/19 at Rumsey Street Flyover and Planter under FEP-07/364/2009/H have been completed and no PME will be used for the remaining minor defects rectification works. As such, the air quality monitoring station MA1b – Harbour Building has been temporarily suspended from 24 May 2021 onward.

5.3.4 With respect to work completion and no PME would be operated at the open area near Victoria Centre and Causeway Bay Community Centre near Victoria Centre and Causeway Bay Community Centre confirmed by CWB RSS, the air quality monitoring station CMA2a – Causeway Bay Community Centre has been temporarily suspended from 11 February 2022 onward.

5.3.5 No action or limit level exceedance was recorded in the reporting period.

5.3.6 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in **Appendix 5.3**.

**5.4 Waste Monitoring Results**

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

5.4.1. Inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in **Table 5.21**.

**Table 5.21 Details of Waste Disposal for Contract no. HY/2009/19**

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>ton</b>	297.15	844803.38	TKO137
Inert C&D materials recycled, <b>ton</b>	Nil	82349.7	N/A
Non-inert C&D materials disposed, <b>ton</b>	45.76	10336.78	SENT Landfill
Non-inert C&D materials recycled, <b>ton</b>	Nil	565.63	N/A
Chemical waste disposed, <b>ton</b>	Nil	16.53	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), <b>m<sup>3</sup></b>	Nil	20737.96	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), <b>m<sup>3</sup></b>	Nil	30751	East of Sha Chau
Marine Sediment (Approach Ramp) (Type 2 – Confined Marine Disposal), <b>m<sup>3</sup></b>	Nil	6491	East of Sha Chau

## 6 COMPLIANCE AUDIT

6.0.1. The Event Action Plan for construction noise, air qualities are presented in Appendix 6.1.

### 6.1 Noise Monitoring

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

6.0.2. No action or limit level exceedance was recorded in the reporting period.

### 6.2 Real Time Noise Monitoring

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

6.2.1. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitfield Depot. No action or limit level exceedance was recorded in the reporting period.

6.2.2. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No action or limit level exceedance was recorded in the reporting period.

6.2.3. 24-hour real time noise monitoring was conducted at RTN3 - Yu Lee Mo Fan Memorial School. No action or limit level exceedance was recorded in the reporting period.

6.2.4. 24-hour real time noise monitoring was conducted at RTN4 – Causeway Bay Community Centre. No action or limit level exceedance was recorded in the reporting period.

### 6.3 Air Quality Monitoring

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/H

6.3.1. No action or limit level exceedance was recorded in the reporting period.

### 6.4 Review of the Reasons for and the Implications of Non-compliance

6.4.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendation made in each individual site audit session were presented in Section 8.

### 6.5 Summary of action taken in the event of and follow-up on non-compliance

6.5.1 No particular action was taken for site audits since no non-compliance was recorded in the reporting period.

## **7 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS**

- 7.0.1. According to Condition 3.4 of the EP-364/2009/H, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting period.
- 7.0.3. According to the Final EM&A Report of EP-122/2002/E, the construction works at the area of EP-122/2002/E were completed. In view of the above, the cumulative construction impact due to the Central Reclamation Phase III (CRIII) was not anticipated.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, no construction works under Wan Chai Development Phase II was conducted at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were modification work of noise enclosure, open area hard paving, drainage and remedial works at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.
- 7.0.5. As relevant site mitigation measures for air quality and construction noise were implemented, no significant air quality impact and noise impact from construction activities was concluded in the reporting period. Besides, no project related exceedance was recorded in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

**8 ENVIRONMENTAL SITE AUDIT**

8.0.1. During this reporting period, weekly environmental site audits were conducted for Contracts HY/2009/19. No non-conformance was identified during the site audits. The Contractors rectified major observations and recommendations made during the audit sessions.

8.0.2. Site inspections for Contract no. HY/2009/19 were carried out during this reporting period. No observation was found in the reporting period.

Mitigation measures implemented to prevent muddy discharge and surface runoff

8.0.3. With a view to ensure the adequacy and effectiveness of measures to prevent the discharge of muddy water, including surface run-off, from construction works, the following mitigation measures were implemented by Contractor(s) in the reporting period:

Contract No.	Mitigation Measures implemented
HY/2009/19	<ul style="list-style-type: none"> <li>• Deployment of embankment along seawall</li> <li>• Hard paved the area along seafront</li> <li>• Cover the stockpile material to avoid excessive surface runoff</li> <li>• Avoid storage of stockpile material along seafront</li> <li>• Regular review and maintenance of the site drainage system</li> <li>• Regular review dosage of wastewater treatment unit to ensure the discharge compliance</li> </ul>

**9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

- 9.0.1. No environmental complaints, summons and prosecutions were received in the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 9.1** and **Table 9.2** respectively.

**Table 9.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
February 2022	0
September 2010 – January 2022	119
<b>Total</b>	<b>119</b>

**Table 9.2 Cumulative Statistics on Successful Prosecutions**

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	1	0	1
Noise	10	0	10
Water	2	0	2
Waste	0	0	0
<b>Total</b>	<b>13</b>	<b>0</b>	<b>13</b>

**10 CONCLUSION**

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in **Table 10.1**. The construction programmes of individual contracts are provided in [Appendix 10.1](#).

**Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting period**

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/19	<ul style="list-style-type: none"> <li>• Modification work of noise enclosure</li> <li>• Open area hard paving.</li> <li>• D12 &amp; Open Area fire main laying works.</li> <li>• D9 to D12 and P22 to P25 drainage works.</li> <li>• Resurfacing activities at IEC Eastbound</li> <li>• Remedial work at bridge F Soffit between pier 36-43</li> </ul>	<ul style="list-style-type: none"> <li>• Noise level shall be controlled by reducing the breaking operation rate.</li> <li>• Noise barrier shall be implemented</li> <li>• Dust control during dust generating works</li> <li>• Ensure proper deployment of silt curtain around marine construction works area</li> <li>• Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.</li> </ul>

- 10.0.3. The construction works of Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A was completed, and the FEP was surrendered by the Contractor on 11 February 2011.
- 10.0.4. The construction works of Contract no. HY/2009/17 - Advance piling works at Whitfield Depot under FEP-03/264/2009 was completed, and the FEP was surrendered by the Contractor and found in order by EPD on 25 April 2013.
- 10.0.5. The construction works of Contract HK/2010/06 was completed, and the FEP-08/364/2009/A was surrendered by the Contractor on 3 October 2014.
- 10.0.6. The Construction works under HY/2009/18 was confirm completed by the RSS from 25 April 2018 onwards, and the FEP-05/364/2009/A under HY/2009/18 was surrendered on 06 January 2020.
- 10.0.7. As confirmed with WDII RSS and with respect to the joint inspection conducted with IEC on 25 May 2018, RSS, ET and IEC share the view that there is no adverse environmental impact of remaining works under Contract HK/2009/01 and the respective environmental site

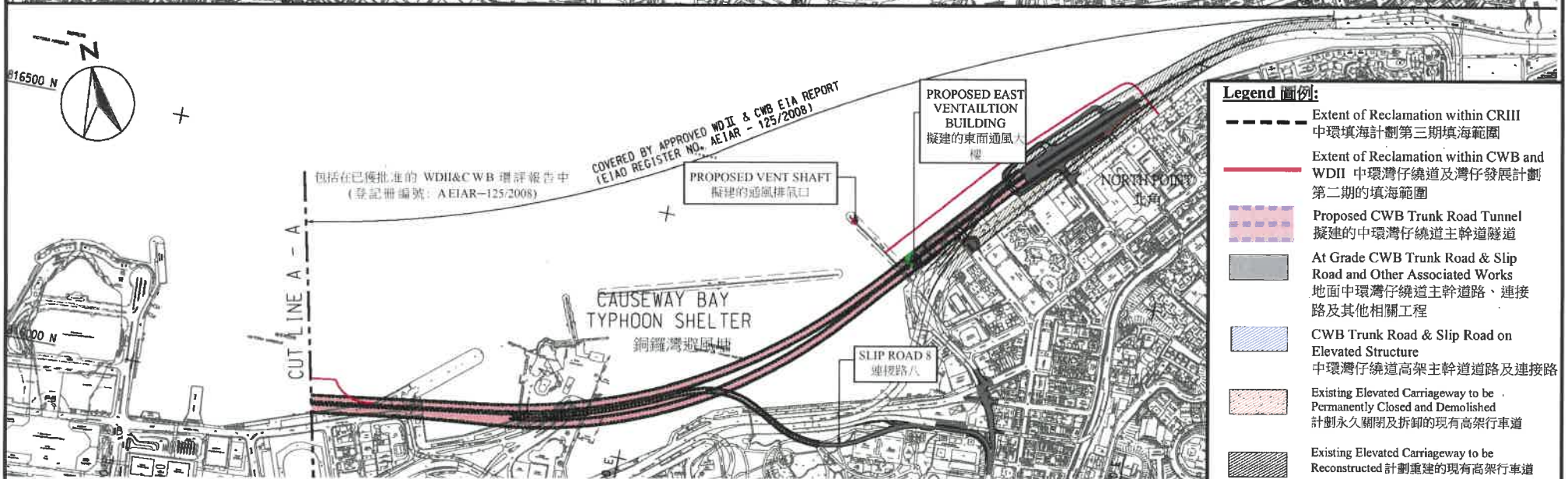
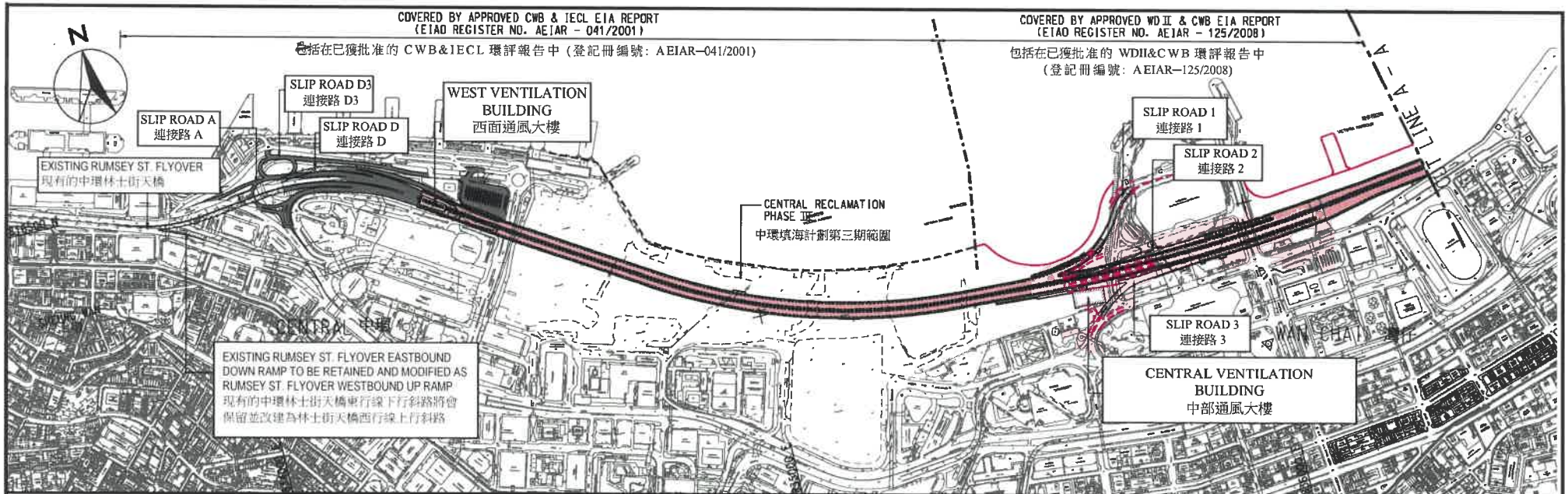
- inspection was temporary suspended from 26 May 2018 onwards. FEP-02/364/2009 was surrendered by the Contractor on 3 September 2018.
- 10.0.8. As confirmed with WDII RSS, there is no more remaining works for HK/2009/02 under EP-364/2009 on 22 December 2020 and agreed with IEC on 23 December 2020, the weekly environmental site inspection for Contract no. for HK/2009/02 under EP-364/2009/H was suspended from 23 December 2020 onward. FEP-01/364/2009 was surrendered by the Contractor on 27 July 2021.
- 10.0.9. As confirmed with CWB RSS, major construction activities of HY/2011/08 under FEP-11/364/2009/E have been completed, only minor defects rectification works remains while no PME will be used for the remaining minor defects rectification works. As such, the weekly environmental site inspection for Contract no. HY/2011/08 has been temporarily suspended from 20 July 2020 onward. FEP-11/364/2009/E was surrendered by the Contractor on 27 January 2021.
- 10.0.10. As confirmed with CWB RSS, major construction activities of HY/2009/15 under FEP-06/364/2009/A and HY/2010/08 under FEP-10/364/2009/B have been completed, the weekly environmental site inspection for Contract no. HY/2009/15 and HY/2010/08 have been temporarily suspended from 22 March 2021 onward. FEP-06/364/2009/A and FEP-10/364/2009/B were surrendered by the Contractor on 07 June 2021.





***Figure 2.1***

***Project Layout***



Project Title: Central-Wanchai Bypass (CWB) Including Its Road Tunnel and Slip Roads  
 工程項目名稱: 中環灣仔繞道包括其行車隧道及連接路

Environmental Permit No.: EP-364/2009/H  
 環境許可證編號: EP-364/2009/H

Figure 1: Location of the Project  
 圖 1: 工程項目位置

(This figure was prepared based on Figure 1 in Application for Variation of an Environmental Permit no. VEP-565/2019)  
 (本圖是根據申請更改環境許可證申請書編號 VEP-565/2019 內的圖 1 編製)



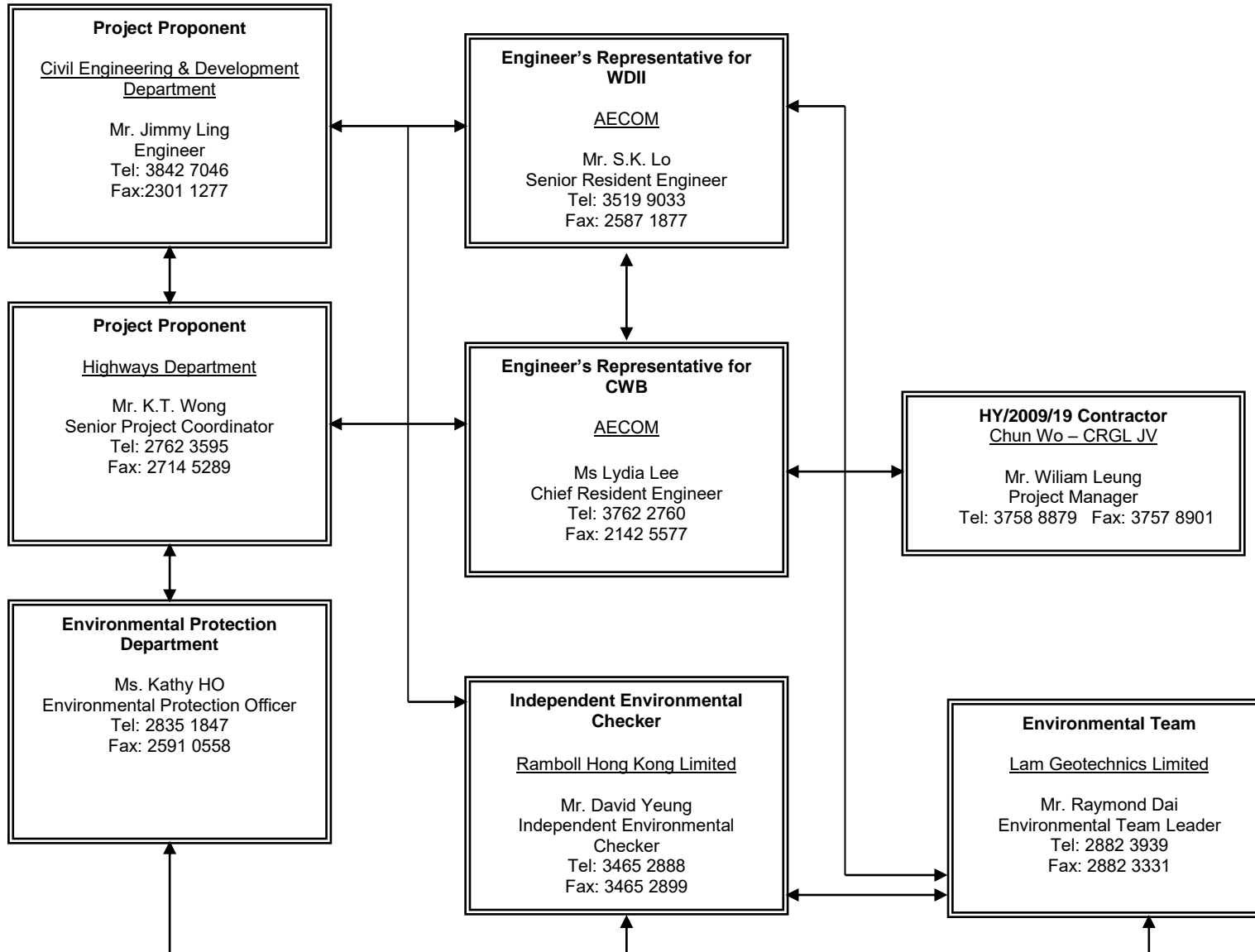


***Figure 2.2***

***Project Organization Chart***



**Project Organization Chart**

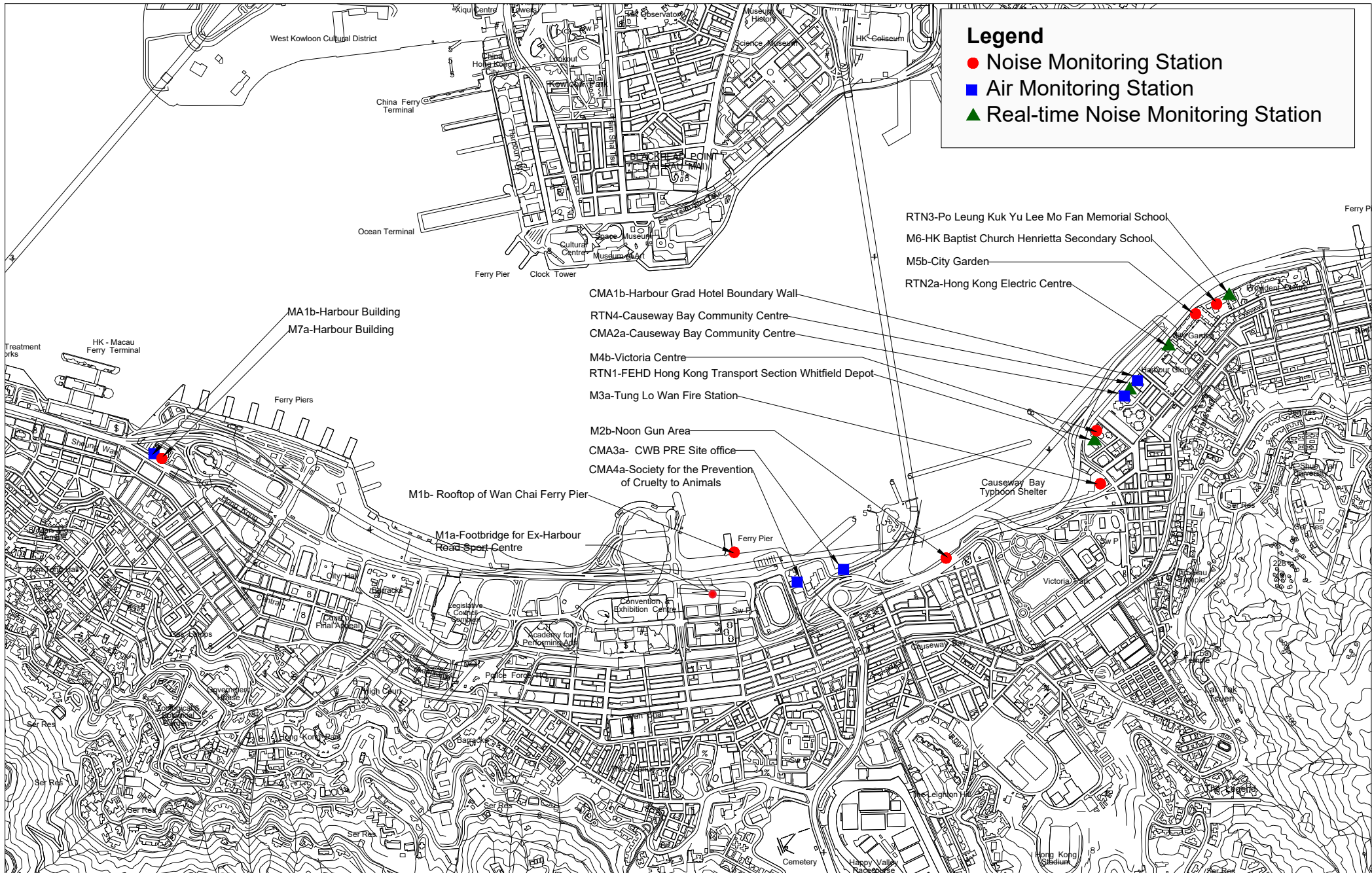




***Figure 4.1***

***Locations of Monitoring Stations***





**Legend**

- Noise Monitoring Station
- Air Monitoring Station
- ▲ Real-time Noise Monitoring Station

- RTN3-Po Leung Kuk Yu Lee Mo Fan Memorial School
- M6-HK Baptist Church Henrietta Secondary School
- M5b-City Garden
- RTN2a-Hong Kong Electric Centre
- CMA1b-Harbour Grad Hotel Boundary Wall
- RTN4-Causeway Bay Community Centre
- CMA2a-Causeway Bay Community Centre
- M4b-Victoria Centre
- RTN1-FEHD Hong Kong Transport Section Whitfield Depot
- M3a-Tung Lo Wan Fire Station
- M2b-Noon Gun Area
- CMA3a- CWB PRE Site office
- CMA4a-Society for the Prevention of Cruelty to Animals
- M1b- Rooftop of Wan Chai Ferry Pier
- M1a-Footbridge for Ex-Harbour Road Sport Centre
- Causeway Bay Typhoon Shelter

West Kowloon Cultural District

China Ferry Terminal

Ocean Terminal

Ferry Pier

Clock Tower

MA1b-Harbour Building

M7a-Harbour Building

Treatment Works

HK - Macau Ferry Terminal

Ferry Piers

City Hall

Government Offices

High Court

Legislative Council

Convention Exhibition Centre

Happy Valley Racecourse

Cemetery

Victoria

Sw P

Happy Valley Racecourse

Hong Kong Stadium



***Appendix 3.1***

***Environmental Mitigation Implementation Schedule***

**IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES**

**Table A.1 Implementation Schedule for Air Quality Control**

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. <ul style="list-style-type: none"> <li>Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition;</li> <li>Watering during excavation and material handling;</li> <li>Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> </ul>	Work site / during construction	Contractor		√			
<b>Operational Phase</b>								
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11 of Volume 1 of the WDII & CWB EIA Report.	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			√		
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			√		EIAO-TM

\* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning



**Table A.2 Implementation Schedule for Noise Control**

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
S4.9.3	<p>Good Site Practice:</p> <ul style="list-style-type: none"> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum.</li> <li>Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
S4.8.1 – S4.8.11	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> <li>Slip road 8 tunnel</li> <li>Construction of diaphragm wall and substructures of the tunnel approach ramp</li> <li>Excavation</li> <li>Construction of slabs</li> <li>Backfill</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> <li>Demolition and construction of substructures for the IEC</li> <li>Demolition works of existing piers and crossheads of the marine section of the existing IEC</li> </ul> <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul>							
<b>Operation Phase</b>								
S4.8.12 – S4.8.23	<p>For Existing NSRs</p> <ul style="list-style-type: none"> <li>about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC</li> <li>about 135m length of 5.5m high cantilevered noise barrier with 4.5m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC (amended under EP-364/2009/A)</li> <li>about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC</li> <li>about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC</li> <li>low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area)) with speed limit of 70 km/hour</li> </ul>	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>For Future/Planned NSRs</p> <ul style="list-style-type: none"> <li>about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>The openable windows of the temple, if any, should be orientated so as to avoid direct line of sight to the existing Victoria Park Road as far as practicable.</li> </ul>	<p>In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.</p> <p>Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple</p>	<p>HyD</p> <p>Project Proponent for the re-provisioned Tin Hau Temple</p>	√	√ #			

\* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

# Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

**Table A.4 Implementation Schedule for Waste Management**

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
S6.5.14	<b>Floating Refuse</b> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table D9.3.	Work site / During the construction period	Contractor		√			
S6.6.1	<b>Good Site Practices</b> Recommendations for good site practices during the construction activities include: <ul style="list-style-type: none"> <li>• nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</li> <li>• training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>• provision of sufficient waste disposal points and regular collection for disposal;</li> <li>• appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>• regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and</li> <li>• a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	Work site / During the construction period	Contractor		√			Waste Disposal Ordinance (Cap.354)

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.2	<p><i>Waste Reduction Measures</i></p> <p>Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> <li>• segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>• to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force;</li> <li>• any unused chemicals or those with remaining functional capacity shall be recycled;</li> <li>• use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&amp;D material.</li> <li>• prior to disposal of C&amp;D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;</li> <li>• proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> <li>• plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	Work site / During planning and design stage, and construction stage	Contractor	√	√			

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.4	<p><i>General Refuse</i></p> <p>General refuse shall be stored in enclosed bins or compaction units separate from C&amp;D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&amp;D material.</p> <p>A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	<p><i>Chemical Wastes</i></p> <p>After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</p>	Work site / During the construction period	Contractor		√			<p>Waste Disposal (Chemical Waste) (General) Regulation</p> <p>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</p>
S6.6.6	<p><i>Construction and Demolition Material</i></p> <p>C&amp;D material shall be sorted on-site into inert C&amp;D material (that is, public fill) and C&amp;D waste. All the suitable inert C&amp;D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&amp;D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.7	In order to monitor the disposal of public fill and C&D waste at public fill reception facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		√			ETWB TCW No. 31/2004
S6.6.8	<p><i>Bentonite Slurry</i></p> <p>The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 “Construction Site Drainage” and listed as follows:</p> <ul style="list-style-type: none"> <li>• If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.</li> <li>• If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.</li> <li>• If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.</li> </ul>	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

\* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

**Table A.5 Implementation Schedule for Land Contamination**

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction and Operation Phase</b>								
S.7.1.1	As no potential contaminative land uses were identified within the Study Area, adverse land contamination impacts associated with the construction and operation of the Project is not expected. As such, environmental protection and mitigation measures are considered not necessary and will not be covered in this EM&A Manual.	-	-					-

\* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning



**Table A.7 Implementation Schedule for Landscape and Visual**

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>Operation Phase</b>								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004

\*Des - Design, C - Construction, O – Operation, and Dec - Decommissioning



***Appendix 4.1***

***Action and Limit Level***



**Action and Limit Level**

*Action and Limit Level for Noise Monitoring*

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 70 dB(A)/ 65 dB(A) <sup>Note 1</sup>

Note 1:

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

*Action and Limit Level for Air Monitoring*

Monitoring Location	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3 a	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5 a	332.0	500	181.0	260
MA1e	325.1	500	173.4	260
MA1w	325.1	500	173.4	260
MA1b	325.1	500	173.4	260



***Appendix 4.2***

***Copies of Calibration Certificates***



# Certificate of Calibration

Calibration Certification Information			
Cal. Date: February 3, 2021	Rootsmeter S/N: 438320	Ta: 293	°K
Operator: Jim Tisch		Pa: 750.6	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: <b>3880</b>		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4550	3.2	2.00
2	3	4	1	1.0280	6.4	4.00
3	5	6	1	0.9180	8.0	5.00
4	7	8	1	0.8750	8.8	5.50
5	9	10	1	0.7220	12.8	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis)
1.0002	0.6874	1.4174	0.9957	0.6844	0.8836
0.9959	0.9688	2.0044	0.9915	0.9645	1.2496
0.9937	1.0825	2.2410	0.9893	1.0777	1.3971
0.9927	1.1345	2.3504	0.9883	1.1295	1.4653
0.9873	1.3675	2.8347	0.9829	1.3614	1.7672
<b>QSTD</b>	m=	<b>2.08437</b>	<b>QA</b>	m=	<b>1.30520</b>
	b=	<b>-0.01508</b>		b=	<b>-0.00940</b>
	r=	<b>1.00000</b>		r=	<b>1.00000</b>

Calculations	
Vstd= $\Delta Vol \left( \frac{Pa - \Delta P}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)$	Va= $\Delta Vol \left( \frac{Pa - \Delta P}{Pa} \right)$
Qstd= $Vstd / \Delta Time$	Qa= $Va / \Delta Time$
For subsequent flow rate calculations:	
Qstd= $1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa= $1/m \left( \left( \sqrt{\Delta H \left( \frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
<b>Key</b>	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

RECALIBRATION
US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



Lam Environmental Services Limited

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA2a Calibration Date : 28-Dec-21  
 Equipment no. : HVS002 Calibration Due Date : 27-Feb-22

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	288.3	Kelvin	Pressure, P <sub>a</sub>
			1024 mmHg

Orifice Transfer Standard Information			
Equipment No.	3880	Slope, m <sub>c</sub>	2.08437
		Intercept, b <sub>c</sub>	-0.01508
Last Calibration Date	3-Feb-21	$\left( H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	3-Feb-22		

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	1.3	1.3	2.6	0.7980	28	28.6226
2	2.1	2.1	4.2	1.0123	36	36.8005
3	3.3	3.3	6.6	1.2672	43	43.9562
4	3.8	3.8	7.6	1.3593	49	50.0896
5	4.4	4.4	8.8	1.4621	53	54.1786

By Linear Regression of Y on X

Slope, m = 37.6326 Intercept, b = -1.6683  
 Correlation Coefficient\* = 0.9934  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

\*\* Delete as appropriate.

Remarks : \_\_\_\_\_

Calibrated by : Harry Po Checked by : Alan Ng  
 Date : 28-Dec-21 Date : 28-Dec-21



## CERTIFICATE OF CALIBRATION

Certificate No.: 21CA0526 02-02 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	Larson Davis	PCB	PCB
Type/Model No.:	LxT1	377B02	PRMLxT1L
Serial/Equipment No.:	0004796	155507	042621
Adaptors used:	-	-	-

### Item submitted by

Customer Name: Lam Environmental Services Limited.  
Address of Customer: -  
Request No.: -  
Date of receipt: 26-May-2021

Date of test: 27-May-2021

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2021	CIGISMEC
Signal generator	DS 360	61227	31-Dec-2021	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $55 \pm 10$  %  
Air pressure:  $1005 \pm 5$  hPa

### Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of  $\pm 20\%$ .
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsiveness of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

  
Feng Junqi

Date: 28-May-2021

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 21CA0526 02-02 Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	2.1
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	2.2
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	A	Pass	0.3	
	C	Pass	0.3	
Frequency weightings	Lin	Pass	0.3	
	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Date:

Fung Chi Yip

27-May-2021

- End -

Checked by:

Date:

Chan Yuk Yiu

28-May-2021

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.





Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:	LxT1	Serial No.	0004796	Date	27-May-2021
Microphone type:	377B02	Serial No.	155507		
Preamp type:	PRMLxT1L	Serial No.	042621	Report:	21CA0526 02-02

### SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	9.4	dB
Noise level in C weighting	13.3	dB
Noise level in Lin	21.5	dB

### LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals.(SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
115.0	115.0	115.0	0.7	0.0	0.0
116.0	116.0	116.0	0.7	0.0	0.0
117.0	117.0	117.0	0.7	0.0	0.0
118.0	118.0	118.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
120.0	120.0	120.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	73.9	73.9	0.7	-0.1	-0.1
69.0	68.9	68.9	0.7	-0.1	-0.1
64.0	63.9	63.9	0.7	-0.1	-0.1
59.0	58.9	58.9	0.7	-0.1	-0.1
54.0	53.9	53.9	0.7	-0.1	-0.1
49.0	48.9	48.9	0.7	-0.1	-0.1
44.0	43.9	43.9	0.7	-0.1	-0.1
39.0	38.9	38.9	0.7	-0.1	-0.1
34.0	33.9	33.9	0.7	-0.1	-0.1
33.0	32.9	32.9	0.7	-0.1	-0.1



Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type:	LxT1	Serial No.	0004796	Date	27-May-2021
Microphone type:	377B02	Serial No.	155507		
Preamp type:	PRMLxT1L	Serial No.	042621	Report:	21CA0526 02-02

32.0	31.9	31.9	0.7	-0.1	-0.1
31.0	30.9	30.9	0.7	-0.1	-0.1
30.0	29.9	29.9	0.7	-0.1	-0.1

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-120	30.0	29.9	0.7	-0.1
	118.0	118.0	0.7	0.0

## FREQUENCY WEIGHTING TEST

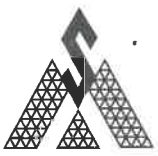
The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
				+	-	
Hz	dB	dB	dB			dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	54.5	1.5	1.5	-0.1
63.1	94.0	67.8	67.8	1.5	1.5	0.0
125.9	94.0	77.9	77.9	1.0	1.0	0.0
251.2	94.0	85.4	85.4	1.0	1.0	0.0
501.2	94.0	90.8	90.8	1.0	1.0	0.0
1995.0	94.0	95.2	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	95.0	1.0	1.0	0.0
7943.0	94.0	92.9	92.9	1.5	3.0	0.0
12590.0	94.0	89.7	89.7	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
				+	-	
Hz	dB	dB	dB			dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	91.0	1.5	1.5	0.0
63.1	94.0	93.2	93.2	1.5	1.5	0.0
125.9	94.0	93.8	93.8	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0



Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: LxT1 Serial No. 0004796 Date 27-May-2021  
Microphone type: 377B02 Serial No. 155507  
Preamp type: PRMLxT1L Serial No. 042621 Report: 21CA0526 02-02

1995.0	94.0	93.8	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	93.2	1.0	1.0	0.0
7943.0	94.0	91.0	91.0	1.5	3.0	0.0
12590.0	94.0	87.8	87.8	3.0	6.0	0.0

Frequency weighting Lin:

Frequency Hz	Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
				+	-	
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	94.0	1.5	1.5	0.0
63.1	94.0	94.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	94.0	1.0	1.0	0.0
7943.0	94.0	94.0	94.0	1.5	3.0	0.0
12590.0	94.0	94.0	94.0	3.0	6.0	0.0

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
116.0	115.0	114.9	1.0	1.0	-0.1

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

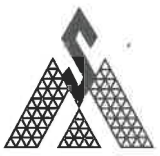
Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
116.0	111.9	111.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting Z, set the generator signal to single, Lzpeak)

Ref. level dB	Response to 10 ms dB	Response to 100 us dB	Tolerance +/- dB	Deviation dB
119.0	119.0	118.6	2.0	-0.4



Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type: LxT1 Serial No. 0004796 Date 27-May-2021  
Microphone type: 377B02 Serial No. 155507  
Preamp type: PRMLxT1L Serial No. 042621 Report: 21CA0526 02-02

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	118.6	2.0	-0.4

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

Time weighting	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
	dB	dB	indication(dB)	+/- dB	dB
Slow	114.0+6.6	114.0	113.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
	Expected (dB)	Actual (dB)		
dB			+/- dB	dB
120.0	111.2	111.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
	Expected (dB)	Actual (dB)		
dB			+/- dB	dB
120.0	117.3	117.1	1.0	-0.2

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	90.0	90.0	89.9	1.0	-0.1	60s integ.
10000	80.0	80.0	79.9	1.0	-0.1	6min. integ.

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec



Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type: LxT1 Serial No. 0004796 Date 27-May-2021  
Microphone type: 377B02 Serial No. 155507  
Preamp type: PRMLxT1L Serial No. 042621 Report: 21CA0526 02-02

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	88.0	58.0	58.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	88.0	68.0	68.0	1.7	0.0

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
113.1	112.1	109.1	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:  
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range  
Test frequency: 4000 Hz  
Integration time: 10 sec  
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
119.8	118.8	78.8	78.8	2.2	0.0

ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level	Tolerance (dB)		Deviation
			+	-	
Hz	dB	Measured (dB)			dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	77.9	1.0	1.0	0.0
8000	92.9	93.4	1.5	3.0	0.5

-----END-----





## CERTIFICATE OF CALIBRATION

Certificate No.: 21CA1222 02-02

Page: 1 of 2

### Item tested

Description: Acoustical Calibrator (Class 1)  
 Manufacturer: Larson Davis  
 Type/Model No.: CAL200  
 Serial/Equipment No.: 13437  
 Adaptors used: -

### Item submitted by

Customer: Lam Environmental Services Ltd.  
 Address of Customer: -  
 Request No.: -  
 Date of receipt: 22-Dec-2021

Date of test: 29-Dec-2021

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	04-May-2022	SCL
Preamplifier	B&K 2673	2239857	31-May-2022	CEPREI
Measuring amplifier	B&K 2610	2346941	01-Jun-2022	CEPREI
Signal generator	DS 360	33873	27-May-2022	CEPREI
Digital multi-meter	34401A	US36087050	27-May-2022	CEPREI
Audio analyzer	8903B	GB41300350	28-May-2022	CEPREI
Universal counter	53132A	MY40003662	02-Jun-2022	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
 Relative humidity:  $55 \pm 10$  %  
 Air pressure:  $1005 \pm 5$  hPa

### Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

### Test results

Details of the performed measurements are presented on page 2 of this certificate.

Approved Signatory:

Feng Junqi

Date: 03-Jan-2022

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

**CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.: 21CA1222 02-02

Page: 2 of 2

**1, Measured Sound Pressure Level**

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	(Output level in dB re 20 µPa)
			Estimated Expanded Uncertainty dB
1000	94.00	93.63	0.10

**2, Sound Pressure Level Stability - Short Term Fluctuations**

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

**At 1000 Hz** **STF = 0.016 dB**  
Estimated expanded uncertainty 0.005 dB

**3, Actual Output Frequency**

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

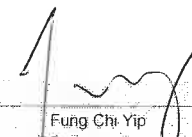
**At 1000 Hz** **Actual Frequency = 1000.0 Hz**  
Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

**4, Total Noise and Distortion**


For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

**At 1000 Hz** **TND = 0.6%**  
Estimated expanded uncertainty 0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:   
Date: 29-Dec-2021  
Fung Chi Yip

- End -

Checked by:   
Date: 03-Jan-2022  
Chan Yuk Yiu

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

# Calibration Certificate

Certificate Number 2021001441

Customer:

Lam Environmental Services Ltd

<b>Model Number</b>	LxT SE	<b>Procedure Number</b>	D0001.8384
<b>Serial Number</b>	0006345	<b>Technician</b>	Ron Harris
<b>Test Results</b>	<b>Pass</b>	<b>Calibration Date</b>	8 Feb 2021
<b>Initial Condition</b>	As Manufactured	<b>Calibration Due</b>	8 Feb 2022
<b>Description</b>	Sound Expert LxT Class 1 Sound Level Meter Firmware Revision: 2.404	<b>Temperature</b>	23.56 °C ± 0.25 °C
		<b>Humidity</b>	54.3 %RH ± 2.0 %RH
		<b>Static Pressure</b>	85.6 kPa ± 0.13 kPa

**Evaluation Method**      **Tested with:**      **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L. S/N 069994  
PCB 377B02. S/N 326416  
Larson Davis CAL200. S/N 9079  
Larson Davis CAL291. S/N 0108

**Compliance Standards**      Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

**Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the organization issuing this report.

Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

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1681 West 820 North  
Provo, UT 84601, United States  
716-684-0001





**Certificate Number 2021001441**

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used			
Description	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2020-09-18	2021-09-18	001250
Hart Scientific 2626-S Humidity/Temperature Sensor	2020-05-12	2021-05-12	006943
Larson Davis CAL200 Acoustic Calibrator	2020-07-21	2021-07-21	007027
Larson Davis Model 831	2020-03-02	2021-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2020-03-05	2021-03-05	007185
SRS DS360 Ultra Low Distortion Generator	2020-04-14	2021-04-14	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2020-10-06	2021-10-06	PCB0004783

**Acoustic Calibration**

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.01	113.80	114.20	0.14	Pass

**Loaded Circuit Sensitivity**

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-28.43	-29.61	-26.24	0.14	Pass

-- End of measurement results--



### Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.20	-0.20	-1.20	0.80	0.23	Pass
1000	0.18	0.00	-0.70	0.70	0.23	Pass
8000	-2.64	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

### Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.36

-- End of measurement results--

-- End of Report--

Signatory: Ron Harris



# Calibration Certificate

Certificate Number 2021010517

Customer:

Lam Geotechnics Ltd

**Model Number** LxT SE

**Serial Number** 0005062

**Test Results** Pass

**Initial Condition** Inoperable

**Description** Sound Expert LxT  
Class 1 Sound Level Meter  
Firmware Revision: 2.404

**Procedure Number** D0001.8384

**Technician** Ron Harris

**Calibration Date** 26 Aug 2021

**Calibration Due**

**Temperature** 23.29 °C ± 0.25 °C

**Humidity** 51.9 %RH ± 2.0 %RH

**Static Pressure** 86.13 kPa ± 0.13 kPa

**Evaluation Method**

**Tested with:**

PCB 377B02, S/N 173734

Larson Davis CAL291, S/N 0108

Larson Davis CAL200, S/N 9079

Larson Davis PRMLxT1L, S/N 042836

**Data reported in dB re 20 µPa.**

**Compliance Standards**

Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

IEC 60651:2001 Type 1

IEC 60804:2000 Type 1

IEC 61252:2002

IEC 61260:2001 Class 1

IEC 61672:2013 Class 1

ANSI S1.4-2014 Class 1

ANSI S1.4 (R2006) Type 1

ANSI S1.11 (R2009) Class 1

ANSI S1.25 (R2007)

ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert Lxt, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

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1681 West 820 North

Provo, UT 84601, United States

716-684-0001

2021-8-26T07:51:18



Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

No Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 available.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3 cover only a limited subset of the specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Description	Standards Used		
	Cal Date	Cal Due	Cal Standard
Larson Davis CAL291 Residual Intensity Calibrator	2020-09-18	2021-09-18	001250
Hart Scientific 2626-H Temperature Probe	2021-02-04	2022-08-04	006767
Larson Davis CAL200 Acoustic Calibrator	2021-07-21	2022-07-21	007027
Larson Davis Model 831	2021-03-02	2022-03-02	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2021-03-03	2022-03-03	007185
SRS DS360 Ultra Low Distortion Generator	2021-04-13	2022-04-13	007635
Larson Davis 1/2" Preamplifier for Model 831 Type 1	2020-10-06	2021-10-06	PCB0004783

### Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.00	113.80	114.20	0.14	Pass

As Received Level: 116.07

Adjusted Level: 114.00

-- End of measurement results--

### Loaded Circuit Sensitivity

Measurement	Test Result [dB re 1 V / Pa]	Lower Limit [dB re 1 V / Pa]	Upper Limit [dB re 1 V / Pa]	Expanded Uncertainty [dB]	Result
1000 Hz	-27.69	-29.61	-26.24	0.14	Pass

-- End of measurement results--

### Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.20	-0.20	-1.20	0.80	0.23	Pass
1000	0.13	0.00	-0.70	0.70	0.23	Pass
8000	-2.49	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

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716-684-0001



### Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.32

-- End of measurement results--

-- End of Report--

Signatory: Ron Harris





## CERTIFICATE OF CALIBRATION

Certificate No.: 21CA0222 03 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Class 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250	4189	ZC0032
Serial/Equipment No.:	2701778	2755097	19223
Adaptors used:	-	-	-

### Item submitted by

Customer Name: Lam Geotechnics Limited.  
Address of Customer: -  
Request No.: -  
Date of receipt: 22-Feb-2021

Date of test: 23-Feb-2021

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2021	CIGISMEC
Signal generator	DS 360	33873	19-May-2021	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $55 \pm 10$  %  
Air pressure:  $1000 \pm 5$  hPa

### Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of  $\pm 20\%$ .
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsiveness of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

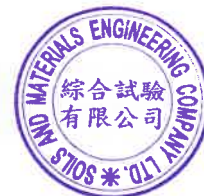
Actual Measurement data are documented on worksheets.

Approved Signatory:

Feng Junqi

Date: 24-Feb-2021

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.





## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 21CA0222 03 Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Frequency weightings			
Time weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Peak response	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
R.M.S. accuracy	Single 100µs rectangular pulse	Pass	0.3	
Time weighting I	Crest factor of 3	Pass	0.3	
	Single burst 5 ms at 2000 Hz	Pass	0.3	
Time averaging	Repeated at frequency of 100 Hz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
Pulse range	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Date:

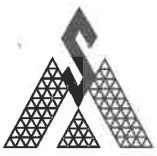
Fung Chi Yip  
23-Feb-2021

Checked by:

Date:

Feng Junqi  
24-Feb-2021

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:	2250	Serial No.	2701778	Date	23-Feb-2021
Microphone type:	4189	Serial No.	2755097		
Preamp type:	ZC0032	Serial No.	19223	Report:	21CA0222 03

**SELF GENERATED NOISE TEST**

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	12.6	dB
Noise level in C weighting	13.8	dB
Noise level in Lin	20.0	dB

**LINEARITY TEST**

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124.0	0.7	0.0	0.0
129.0	129.0	129.0	0.7	0.0	0.0
134.0	134.0	134.0	0.7	0.0	0.0
135.0	135.0	135.0	0.7	0.0	0.0
136.0	136.0	136.0	0.7	0.0	0.0
137.0	137.0	137.0	0.7	0.0	0.0
138.0	138.0	138.0	0.7	0.0	0.0
139.0	139.0	139.0	0.7	0.0	0.0
140.0	140.0	140.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	44.0	44.0	0.7	0.0	0.0
39.0	39.0	39.0	0.7	0.0	0.0





Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type: 2250 Serial No. 2701778 Date 23-Feb-2021  
Microphone type: 4189 Serial No. 2755097  
Preamp type: ZC0032 Serial No. 19223 Report: 21CA0222 03

34.0	34.0	34.0	0.7	0.0	0.0
33.0	33.0	33.0	0.7	0.0	0.0
32.0	32.0	32.0	0.7	0.0	0.0
31.0	31.0	31.0	0.7	0.0	0.0
30.0	30.0	30.0	0.7	0.0	0.0

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	30.0	30.0	0.7	0.0
	138.0	138.0	0.7	0.0

## FREQUENCY WEIGHTING TEST

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	N/A	54.6	1.5	1.5	0.0
63.1	94.0	67.8	0.0	67.8	1.5	1.5	0.0
125.9	94.0	77.9	0.0	77.9	1.0	1.0	0.0
251.2	94.0	85.4	0.0	85.4	1.0	1.0	0.0
501.2	94.0	90.8	0.0	90.7	1.0	1.0	-0.1
1995.0	94.0	95.2	0.0	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	-0.1	94.9	1.0	1.0	0.0
7943.0	94.0	92.9	-0.3	92.6	1.5	3.0	0.0
12590.0	94.0	89.7	-0.3	89.4	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	N/A	91.1	1.5	1.5	0.1
63.1	94.0	93.2	0.0	93.2	1.5	1.5	0.0
125.9	94.0	93.8	0.0	93.8	1.0	1.0	0.0



Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: 2250 Serial No. 2701778 Date 23-Feb-2021  
Microphone type: 4189 Serial No. 2755097  
Preamp type: ZC0032 Serial No. 19223 Report: 21CA0222 03

251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	0.0	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	-0.1	93.1	1.0	1.0	0.0
7943.0	94.0	91.0	-0.3	90.7	1.5	3.0	0.0
12590.0	94.0	87.8	-0.3	87.5	3.0	6.0	0.0

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	N/A	94.1	1.5	1.5	0.1
63.1	94.0	94.0	0.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	0.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	0.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	-0.1	94.0	1.0	1.0	0.1
7943.0	94.0	94.0	-0.3	93.7	1.5	3.0	0.0
12590.0	94.0	94.0	-0.3	93.7	3.0	6.0	0.0

\*Deviation = Actual level - ( Expected level + Correction of electrical response)

The correction of electrical response is specified in the Table A.2 of technical documentation of BE 1712-21. The maximum expanded uncertainty of correction of electrical response is 0.29 dB.

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
116.0	115.0	115.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
116.0	111.9	111.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us



Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type: 2250 Serial No. 2701778 Date 23-Feb-2021  
Microphone type: 4189 Serial No. 2755097  
Preamp type: ZC0032 Serial No. 19223 Report: 21CA0222 03

rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting C, set the generator signal to single, Lcpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.6	2.0	0.6

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
119.0	119.0	119.6	2.0	0.6

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

Time weighting	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
	dB	dB	indication(dB)	+/- dB	dB
Slow	118.0+6.6	118.0	117.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	111.2	111.2	2.0	0.0

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
120.0	117.3	117.2	1.0	-0.1

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	110.0	110.0	109.9	1.0	-0.1	60s integ.
10000	100.0	100.0	99.9	1.0	-0.1	6min. integ.



Test Data for Sound Level Meter

Sound level meter type:	2250	Serial No.	2701778	Date	23-Feb-2021
Microphone type:	4189	Serial No.	2755097		
Preamp type:	ZC0032	Serial No.	19223	Report:	21CA0222 03

**PULSE RANGE AND SOUND EXPOSURE LEVEL TEST**

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	110.0	80.0	80.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	110.0	90.0	90.0	1.7	0.0

**OVERLOAD INDICATION TEST**

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz

Amplitude: 2 dB below the upper limit of the primary indicator range.

Burst repetition frequency: 40 Hz

Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
134.9	133.9	130.9	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
141.6	140.6	100.6	100.6	2.2	0.0

**ACOUSTIC TEST**

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level		Tolerance (dB)	Deviation
		Measured (dB)			
Hz	dB			+	-
1000	94.0	94.0		0.0	0.0
125	77.9	78.0		1.0	1.0
8000	92.9	91.9		1.5	3.0

-----END-----



## CERTIFICATE OF CALIBRATION

Certificate No.: 22CA0121 02-02 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250	4950	ZC0032
Serial/Equipment No.:	2722310	3698702	13318
Adaptors used:	-	-	-

### Item submitted by

Customer Name: Lam Environmental Services Limited.  
Address of Customer: -  
Request No.: -  
Date of receipt: 21-Jan-2022

Date of test: 27-Jan-2022

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2022	CIGISMEC
Signal generator	DS 360	33873	27-May-2022	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $55 \pm 10$  %  
Air pressure:  $1005 \pm 5$  hPa

### Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of  $\pm 20$ %.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsiveness of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Feng Junqi

Date: 28-Jan-2022

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.





## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 22CA0121 02-02

Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	A	Pass	0.3	
	C	Pass	0.3	
Frequency weightings	Lin	Pass	0.3	
	Time weightings	Single Burst Fast	Pass	0.3
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
	R.M.S. accuracy	Crest factor of 3	Pass	0.3
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
	Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Fung Chi Yi

Date: 27-Jan-2022

- End -

Checked by:

Chan Yuk Yiu

Date: 28-Jan-2022

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:	2250	Serial No.	2722310	Date	27-Jan-2022
Microphone type:	4950	Serial No.	3698702		
Preamp type:	ZC0032	Serial No.	13318	Report:	22CA0121 02-02

## SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	12.5	dB
Noise level in C weighting	13.6	dB
Noise level in Lin	19.9	dB

## LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124.0	0.7	0.0	0.0
129.0	129.0	129.0	0.7	0.0	0.0
134.0	134.0	134.0	0.7	0.0	0.0
135.0	135.0	135.0	0.7	0.0	0.0
136.0	136.0	136.0	0.7	0.0	0.0
137.0	137.0	137.0	0.7	0.0	0.0
138.0	138.0	138.0	0.7	0.0	0.0
139.0	139.0	139.0	0.7	0.0	0.0
140.0	140.0	140.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	44.0	44.0	0.7	0.0	0.0
39.0	39.0	39.0	0.7	0.0	0.0



Test Data for Sound Level Meter

Sound level meter type: 2250 Serial No. 2722310 Date 27-Jan-2022  
Microphone type: 4950 Serial No. 3698702  
Preamp type: ZC0032 Serial No. 13318 Report: 22CA0121 02-02

34.0	34.0	34.0	0.7	0.0	0.0
33.0	33.0	33.0	0.7	0.0	0.0
32.0	32.0	32.0	0.7	0.0	0.0
31.0	31.0	31.0	0.7	0.0	0.0
30.0	30.0	30.0	0.7	0.0	0.0

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	30.0	30.0	0.7	0.0
	138.0	138.0	0.7	0.0

**FREQUENCY WEIGHTING TEST**

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	0.0	54.6	1.5	1.5	0.0
63.1	94.0	67.8	0.0	67.8	1.5	1.5	0.0
125.9	94.0	77.9	0.0	77.9	1.0	1.0	0.0
251.2	94.0	85.4	0.0	85.4	1.0	1.0	0.0
501.2	94.0	90.8	0.0	90.8	1.0	1.0	0.0
1995.0	94.0	95.2	0.0	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	-0.1	94.9	1.0	1.0	0.0
7943.0	94.0	92.9	-0.3	92.6	1.5	3.0	0.0
12590.0	94.0	89.7	-0.3	89.4	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	0.0	91.1	1.5	1.5	0.1
63.1	94.0	93.2	0.0	93.2	1.5	1.5	0.0
125.9	94.0	93.8	0.0	93.9	1.0	1.0	0.1





Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: 2250 Serial No. 2722310 Date 27-Jan-2022  
Microphone type: 4950 Serial No. 3698702  
Preamp type: ZC0032 Serial No. 13318 Report: 22CA0121 02-02

251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	0.0	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	-0.1	93.1	1.0	1.0	0.0
7943.0	94.0	91.0	-0.3	90.7	1.5	3.0	0.0
12590.0	94.0	87.8	-0.3	87.5	3.0	6.0	0.0

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	0.0	94.1	1.5	1.5	0.1
63.1	94.0	94.0	0.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	0.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	0.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	-0.1	94.0	1.0	1.0	0.1
7943.0	94.0	94.0	-0.3	93.7	1.5	3.0	0.0
12590.0	94.0	94.0	-0.3	93.7	3.0	6.0	0.0

\*Deviation = Actual level - ( Expected level + Correction of electrical response)

The correction of electrical response is specified in the Table A.2 of technical documentation of BE 1712-21. The maximum expanded uncertainty of correction of electrical response is 0.29 dB.

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
136.0	135.0	135.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
136.0	131.9	131.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the



Test Data for Sound Level Meter

Sound level meter type:	2250	Serial No.	2722310	Date	27-Jan-2022
Microphone type:	4950	Serial No.	3698702		
Preamp type:	ZC0032	Serial No.	13318	Report:	22CA0121 02-02

10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting Z, set the generator signal to single, Lzpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	139.6	2.0	0.6

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	139.6	2.0	0.6

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
 Amplitude: 2 dB below the upper limit of the primary indicator range.  
 Burst repetition frequency: 40 Hz  
 Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time weighting	dB	dB	indication(dB)	+/- dB	dB
Slow	136.0+6.6	136.0	135.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
 Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	131.2	131.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	137.3	137.2	1.0	-0.1

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	110.0	110.0	109.9	1.0	-0.1	60s integ.
10000	100.0	100.0	99.9	1.0	-0.1	6min. integ.



Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type:	2250	Serial No.	2722310	Date	27-Jan-2022
Microphone type:	4950	Serial No.	3698702		
Preamp type:	ZC0032	Serial No.	13318	Report:	22CA0121 02-02

**PULSE RANGE AND SOUND EXPOSURE LEVEL TEST**

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz  
Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	110.0	80.0	80.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	110.0	90.0	90.0	1.7	0.0

**OVERLOAD INDICATION TEST**

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
135.3	134.3	131.3	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:  
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range  
Test frequency: 4000 Hz  
Integration time: 10 sec  
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
142.2	141.2	101.2	101.2	2.2	0.0

**ACOUSTIC TEST**

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level		Tolerance (dB)		Deviation
		Measured (dB)		+	-	
Hz	dB					dB
1000	94.0	94.0		0.0	0.0	0.0
125	77.9	77.9		1.0	1.0	0.0
8000	92.9	93.5		1.5	3.0	0.6

-----END-----



## CERTIFICATE OF CALIBRATION

Certificate No.: 21CA0429 02 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	2722311	2698703	13321
Adaptors used:	-	-	-

### Item submitted by

Customer Name: Lam Geotechnics Ltd.  
Address of Customer: -  
Request No.: -  
Date of receipt: 29-Apr-2021

Date of test: 30-Apr-2021

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2021	CIGISMEC
Signal generator	DS 360	61227	19-May-2021	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $55 \pm 10$  %  
Air pressure:  $1005 \pm 5$  hPa

### Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of  $\pm 20\%$ .
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsiveness of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

  
Feng Junqi

Date: 03-May-2021

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 21CA0429 02 Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Frequency weightings			
Time weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Peak response	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
R.M.S. accuracy	Single 100µs rectangular pulse	Pass	0.3	
	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
	Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Date: 30-Apr-2021

Fung Chi Yip

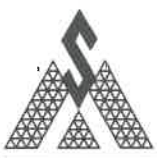
Checked by:

Date: 03-May-2021

Chan Yuk Yiu

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.





Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:	2250-L	Serial No.	2722311	Date	30-Apr-2021
Microphone type:	4950	Serial No.	2698703		
Preamp type:	ZC0032	Serial No.	13321	Report:	21CA0429 02

**SELF GENERATED NOISE TEST**

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	13.4	dB
Noise level in C weighting	16.5	dB
Noise level in Lin	23.2	dB

**LINEARITY TEST**

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124.0	0.7	0.0	0.0
129.0	129.0	129.0	0.7	0.0	0.0
134.0	134.0	134.0	0.7	0.0	0.0
135.0	135.0	135.0	0.7	0.0	0.0
136.0	136.0	136.0	0.7	0.0	0.0
137.0	137.0	137.0	0.7	0.0	0.0
138.0	138.0	138.0	0.7	0.0	0.0
139.0	139.0	139.0	0.7	0.0	0.0
140.0	140.0	140.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	43.9	43.9	0.7	-0.1	-0.1
39.0	39.0	39.0	0.7	0.0	0.0



Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type: 2250-L Serial No. 2722311 Date 30-Apr-2021  
Microphone type: 4950 Serial No. 2698703  
Preamp type: ZC0032 Serial No. 13321 Report: 21CA0429 02

34.0	34.0	34.0	0.7	0.0	0.0
33.0	33.0	33.0	0.7	0.0	0.0
32.0	32.0	32.0	0.7	0.0	0.0
31.0	31.0	31.0	0.7	0.0	0.0
30.0	30.0	30.0	0.7	0.0	0.0

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	30.0	30.0	0.7	0.0
	138.0	138.0	0.7	0.0

### FREQUENCY WEIGHTING TEST

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB			dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	N/A	54.5	1.5	1.5	-0.1
63.1	94.0	67.8	0.0	67.8	1.5	1.5	0.0
125.9	94.0	77.9	0.0	77.9	1.0	1.0	0.0
251.2	94.0	85.4	0.0	85.4	1.0	1.0	0.0
501.2	94.0	90.8	0.0	90.8	1.0	1.0	0.0
1995.0	94.0	95.2	0.0	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	-0.1	94.9	1.0	1.0	0.0
7943.0	94.0	92.9	-0.3	92.6	1.5	3.0	0.0
12590.0	94.0	89.7	-0.3	89.4	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB			dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	N/A	91.1	1.5	1.5	0.1
63.1	94.0	93.2	0.0	93.2	1.5	1.5	0.0
125.9	94.0	93.8	0.0	93.8	1.0	1.0	0.0



Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: 2250-L Serial No. 2722311 Date 30-Apr-2021  
Microphone type: 4950 Serial No. 2698703  
Preamp type: ZC0032 Serial No. 13321 Report: 21CA0429 02

251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	0.0	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	-0.1	93.1	1.0	1.0	0.0
7943.0	94.0	91.0	-0.3	90.7	1.5	3.0	0.0
12590.0	94.0	87.8	-0.3	87.5	3.0	6.0	0.0

Frequency weighting Lin:

Frequency Hz	Ref. level dB	Expected level dB	Correction of electrical response dB	Actual level dB	Tolerance(dB)		Deviation * dB
					+	-	
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	N/A	94.1	1.5	1.5	0.1
63.1	94.0	94.0	0.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	0.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	0.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	-0.1	93.9	1.0	1.0	0.0
7943.0	94.0	94.0	-0.3	93.7	1.5	3.0	0.0
12590.0	94.0	94.0	-0.3	93.7	3.0	6.0	0.0

\*Deviation = Actual level - ( Expected level + Correction of electrical response)

The correction of electrical response is specified in the Table A.2 of technical documentation of BE 1853-11. The maximum expanded uncertainty of correction of electrical response is 0.3 dB.

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
136.0	135.0	135.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

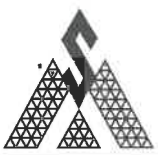
Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level dB	Expected level dB	Actual level dB	Tolerance(dB)		Deviation dB
			+	-	
136.0	131.9	131.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the





Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type: 2250-L Serial No. 2722311 Date 30-Apr-2021  
Microphone type: 4950 Serial No. 2698703  
Preamp type: ZC0032 Serial No. 13321 Report: 21CA0429 02

10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting C, set the generator signal to single, Lcpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	137.5	2.0	-1.5

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	137.5	2.0	-1.5

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

Time weighting	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
	dB	dB	indication(dB)	+/- dB	dB
Slow	118.0+6.6	118.0	117.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	131.2	131.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	137.3	137.2	1.0	-0.1

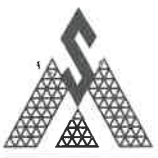
TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	110.0	110.0	109.9	1.0	-0.1	60s integ.
10000	100.0	100.0	99.9	1.0	-0.1	6min. integ.



Test Data for Sound Level Meter

Page 5 of 5

Sound level meter type: 2250-L Serial No. 2722311 Date 30-Apr-2021  
Microphone type: 4950 Serial No. 2698703  
Preamp type: ZC0032 Serial No. 13321 Report: 21CA0429 02

**PULSE RANGE AND SOUND EXPOSURE LEVEL TEST**

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	110.0	80.0	80.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	110.0	90.0	90.0	1.7	0.0

**OVERLOAD INDICATION TEST**

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
135.5	134.5	131.5	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:  
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz  
Integration time: 10 sec  
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
142.3	141.3	101.3	101.3	2.2	0.0

**ACOUSTIC TEST**

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level		Tolerance (dB)		Deviation
		Measured (dB)		+	-	
Hz	dB					
1000	94.0	94.0		0.0	0.0	0.0
125	77.9	78.0		1.0	1.0	0.1
8000	92.9	93.6		1.5	3.0	0.7

-----END-----



## CERTIFICATE OF CALIBRATION

Certificate No.: 21CA0927 01 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250-L	4950	ZC0032
Serial/Equipment No.:	3006790	2827240	18582
Adaptors used:	-	-	-

### Item submitted by

Customer Name: Lam Geotechnics Limited  
Address of Customer: -  
Request No.: -  
Date of receipt: 27-Sep-2021

Date of test: 27-Sep-2021

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2022	CIGISMEC
Signal generator	DS 360	61227	31-Dec-2021	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $55 \pm 10$  %  
Air pressure:  $1005 \pm 5$  hPa

### Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of  $\pm 20\%$ .
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

  
Feng Junqi

Date: 28-Sep-2021

Company Chop:



**Comments:** The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 21CA0927 01 Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	A	Pass	0.3	
	C	Pass	0.3	
Frequency weightings	Lin	Pass	0.3	
	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Time weightings	Single 100µs rectangular pulse	Pass	0.3	
	Crest factor of 3	Pass	0.3	
Peak response	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
R.M.S. accuracy	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Time weighting I	Single burst 10 ms at 4 kHz	Pass	0.4	
	Single burst 10 ms at 4 kHz	Pass	0.4	
Time averaging	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

<p>Calibrated by: </p> <p>Date: 27-Sep-2021</p>	<p>Checked by: </p> <p>Date: 28-Sep-2021</p>
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The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:	2250-L	Serial No.	3006790	Date	27-Sep-2021
Microphone type:	4950	Serial No.	2827240		
Preamp type:	ZC0032	Serial No.	18582	Report:	21CA0927 01

### SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	13.9	dB
Noise level in C weighting	14.5	dB
Noise level in Lin	20.3	dB

### LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124.0	0.7	0.0	0.0
129.0	129.0	129.0	0.7	0.0	0.0
134.0	134.0	134.0	0.7	0.0	0.0
135.0	135.0	135.0	0.7	0.0	0.0
136.0	136.0	136.0	0.7	0.0	0.0
137.0	137.0	137.0	0.7	0.0	0.0
138.0	138.0	138.0	0.7	0.0	0.0
139.0	139.0	139.0	0.7	0.0	0.0
140.0	140.0	140.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	49.0	49.0	0.7	0.0	0.0
44.0	43.9	43.9	0.7	-0.1	-0.1
39.0	38.9	38.9	0.7	-0.1	-0.1



Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type: 2250-L Serial No. 3006790 Date 27-Sep-2021  
Microphone type: 4950 Serial No. 2827240  
Preamp type: ZC0032 Serial No. 18582 Report: 21CA0927 01

34.0	34.0	34.0	0.7	0.0	0.0
33.0	33.0	33.0	0.7	0.0	0.0
32.0	32.0	32.0	0.7	0.0	0.0
31.0	31.0	31.0	0.7	0.0	0.0
30.0	30.0	30.0	0.7	0.0	0.0

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	30.0	30.0	0.7	0.0
	138.0	138.0	0.7	0.0

## FREQUENCY WEIGHTING TEST

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	0.0	54.6	1.5	1.5	0.0
63.1	94.0	67.8	0.0	67.8	1.5	1.5	0.0
125.9	94.0	77.9	0.0	77.9	1.0	1.0	0.0
251.2	94.0	85.4	0.0	85.3	1.0	1.0	-0.1
501.2	94.0	90.8	0.0	90.7	1.0	1.0	-0.1
1995.0	94.0	95.2	0.0	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	-0.1	94.9	1.0	1.0	0.0
7943.0	94.0	92.9	-0.3	92.6	1.5	3.0	0.0
12590.0	94.0	89.7	-0.3	89.3	3.0	6.0	-0.1

Frequency weighting C:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	0.0	91.1	1.5	1.5	0.1
63.1	94.0	93.2	0.0	93.2	1.5	1.5	0.0
125.9	94.0	93.8	0.0	93.8	1.0	1.0	0.0



Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: 2250-L Serial No. 3006790 Date 27-Sep-2021  
Microphone type: 4950 Serial No. 2827240  
Preamp type: ZC0032 Serial No. 18582 Report: 21CA0927 01

251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	0.0	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	-0.1	93.1	1.0	1.0	0.0
7943.0	94.0	91.0	-0.3	90.7	1.5	3.0	0.0
12590.0	94.0	87.8	-0.3	87.4	3.0	6.0	-0.1

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	0.0	94.1	1.5	1.5	0.1
63.1	94.0	94.0	0.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	0.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	0.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	-0.1	93.9	1.0	1.0	0.0
7943.0	94.0	94.0	-0.3	93.7	1.5	3.0	0.0
12590.0	94.0	94.0	-0.3	93.7	3.0	6.0	0.0

\*Deviation = Actual level - ( Expected level + Correction of electrical response)

The correction of electrical response is specified in the Table A.2 of technical documentation of BE 1853-11. The maximum expanded uncertainty of correction of electrical response is 0.3 dB.

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
136.0	135.0	135.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
136.0	131.9	131.9	1.0	1.0	0.0

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the





Test Data for Sound Level Meter

Sound level meter type: 2250-L Serial No. 3006790 Date 27-Sep-2021  
 Microphone type: 4950 Serial No. 2827240  
 Preamp type: ZC0032 Serial No. 18582 Report: 21CA0927 01

10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting L, set the generator signal to single, LLPeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	139.7	2.0	0.7

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	139.7	2.0	0.7

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
 Amplitude: 2 dB below the upper limit of the primary indicator range.  
 Burst repetition frequency: 40 Hz  
 Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time weighting	dB	dB	indication(dB)	+/- dB	dB
Slow	118.0+6.6	118.0	117.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
 Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	131.2	131.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	137.3	137.2	1.0	-0.1

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	110.0	110.0	109.9	1.0	-0.1	60s integ.
10000	100.0	100.0	99.9	1.0	-0.1	6min. integ.





Sound level meter type: 2250-L Serial No. 3006790 Date 27-Sep-2021  
 Microphone type: 4950 Serial No. 2827240  
 Preamp type: ZC0032 Serial No. 18582 Report: 21CA0927 01

**PULSE RANGE AND SOUND EXPOSURE LEVEL TEST**

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	110.0	80.0	80.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	110.0	90.0	90.0	1.7	0.0

**OVERLOAD INDICATION TEST**

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz

Amplitude: 2 dB below the upper limit of the primary indicator range.

Burst repetition frequency: 40 Hz

Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
136.8	135.8	132.8	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz

Integration time: 10 sec

Single burst duration: 1 msec

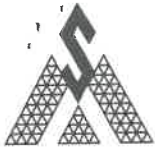
Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
143.6	142.6	102.6	102.6	2.2	0.0

**ACOUSTIC TEST**

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level	Tolerance (dB)		Deviation
			+	-	
Hz	dB	Measured (dB)			dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	78.2	1.0	1.0	0.3
8000	92.9	93.6	1.5	3.0	0.7

-----END-----



## CERTIFICATE OF CALIBRATION

Certificate No.: 22CA0121 02-01 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Type 1)	Microphone	Preamp
Manufacturer:	B & K	B & K	B & K
Type/Model No.:	2250	4950	ZC0032
Serial/Equipment No.:	3002695	2940839	21213
Adaptors used:	-	-	-

### Item submitted by

Customer Name: Lam Environmental Services Limited.  
Address of Customer: -  
Request No.: -  
Date of receipt: 21-Jan-2022

Date of test: 26-Jan-2022

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2022	CIGISMEC
Signal generator	DS 360	33873	27-May-2022	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $55 \pm 10$  %  
Air pressure:  $1005 \pm 5$  hPa

### Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of  $\pm 20$ %.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsiveness of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

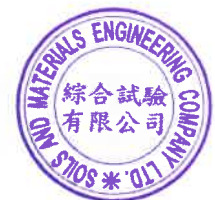
Actual Measurement data are documented on worksheets.

Approved Signatory:

Feng Junqi

Date: 28-Jan-2022

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 22CA0121 02-01

Page 2 of 2

### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	A	Pass	0.3	
Frequency weightings	C	Pass	0.3	
	Lin	Pass	0.3	
	Time weightings	Single Burst Fast	Pass	0.3
Peak response	Single Burst Slow	Pass	0.3	
	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
	Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3
Time averaging	Repeated at frequency of 100 Hz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
Pulse range	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
	Overload indication	SPL	Pass	0.3
	Leq	Pass	0.4	

### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by:

Fung Chi Yip

Date: 26-Jan-2022

Checked by:

Chan Yuk Yiu

Date: 28-Jan-2022

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



Test Data for Sound Level Meter

Page 1 of 5

Sound level meter type:	2250	Serial No.	3002695	Date	26-Jan-2022
Microphone type:	4950	Serial No.	2940839		
Preamp type:	ZC0032	Serial No.	21213	Report:	22CA0121 02-01

### SELF GENERATED NOISE TEST

The noise test is performed in the most sensitive range of the SLM with the microphone replaced by an equivalent impedance.

Noise level in A weighting	14.4	dB
Noise level in C weighting	14.7	dB
Noise level in Lin	20.5	dB

### LINEARITY TEST

The linearity is tested relative to the reference sound pressure level using a continuous sinusoidal signal of frequency 4 kHz. The measurement is made on the reference range for indications at 5 dB intervals starting from the 94 dB reference sound pressure level. And until within 5 dB of the upper and lower limits of the reference range, the measurements shall be made at 1 dB intervals. (SLM set to LEQ/SPL)

Reference/Expected level	Actual level		Tolerance	Deviation	
	non-integrated	integrated		non-integrated	integrated
dB	dB	dB	+/- dB	dB	dB
94.0	94.0	94.0	0.7	0.0	0.0
99.0	99.0	99.0	0.7	0.0	0.0
104.0	104.0	104.0	0.7	0.0	0.0
109.0	109.0	109.0	0.7	0.0	0.0
114.0	114.0	114.0	0.7	0.0	0.0
119.0	119.0	119.0	0.7	0.0	0.0
124.0	124.0	124.0	0.7	0.0	0.0
129.0	129.0	129.0	0.7	0.0	0.0
134.0	134.0	134.0	0.7	0.0	0.0
135.0	135.0	135.0	0.7	0.0	0.0
136.0	136.0	136.0	0.7	0.0	0.0
137.0	137.0	137.0	0.7	0.0	0.0
138.0	138.0	138.0	0.7	0.0	0.0
139.0	139.0	139.0	0.7	0.0	0.0
140.0	140.0	140.0	0.7	0.0	0.0
89.0	89.0	89.0	0.7	0.0	0.0
84.0	84.0	84.0	0.7	0.0	0.0
79.0	79.0	79.0	0.7	0.0	0.0
74.0	74.0	74.0	0.7	0.0	0.0
69.0	69.0	69.0	0.7	0.0	0.0
64.0	64.0	64.0	0.7	0.0	0.0
59.0	59.0	59.0	0.7	0.0	0.0
54.0	54.0	54.0	0.7	0.0	0.0
49.0	48.9	48.9	0.7	-0.1	-0.1
44.0	44.0	44.0	0.7	0.0	0.0
39.0	38.9	38.9	0.7	-0.1	-0.1



Test Data for Sound Level Meter

Page 2 of 5

Sound level meter type: 2250 Serial No. 3002695 Date 26-Jan-2022  
Microphone type: 4950 Serial No. 2940839  
Preamp type: ZC0032 Serial No. 21213 Report: 22CA0121 02-01

34.0	34.0	34.0	0.7	0.0	0.0
33.0	33.0	33.0	0.7	0.0	0.0
32.0	32.1	32.1	0.7	0.1	0.1
31.0	31.0	31.0	0.7	0.0	0.0
30.0	30.0	30.0	0.7	0.0	0.0

Measurements for an indication of the reference SPL on all other ranges which include it

Other ranges	Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	94.0	94.0	0.7	0.0

Measurements on all level ranges for indications 2 dB below the upper limit and 2 dB above the lower limit

Ranges	Reference/Expected level	Actual level	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
20-140	30.0	30.0	0.7	0.0
	138.0	138.0	0.7	0.0

## FREQUENCY WEIGHTING TEST

The frequency response of the weighting networks are tested at octave intervals over the frequency ranges 31.5 Hz to 12500 Hz. The signal level at 1000 Hz is set to give an indication of the reference SPL.

Frequency weighting A:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	54.6	0.0	54.5	1.5	1.5	-0.1
63.1	94.0	67.8	0.0	67.8	1.5	1.5	0.0
125.9	94.0	77.9	0.0	77.9	1.0	1.0	0.0
251.2	94.0	85.4	0.0	85.3	1.0	1.0	-0.1
501.2	94.0	90.8	0.0	90.8	1.0	1.0	0.0
1995.0	94.0	95.2	0.0	95.2	1.0	1.0	0.0
3981.0	94.0	95.0	-0.1	94.9	1.0	1.0	0.0
7943.0	94.0	92.9	-0.3	92.6	1.5	3.0	0.0
12590.0	94.0	89.7	-0.3	89.4	3.0	6.0	0.0

Frequency weighting C:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	91.0	0.0	91.1	1.5	1.5	0.1
63.1	94.0	93.2	0.0	93.2	1.5	1.5	0.0
125.9	94.0	93.8	0.0	93.8	1.0	1.0	0.0





Test Data for Sound Level Meter

Page 3 of 5

Sound level meter type: 2250 Serial No. 3002695 Date 26-Jan-2022  
Microphone type: 4950 Serial No. 2940839  
Preamp type: ZC0032 Serial No. 21213 Report: 22CA0121 02-01

251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	93.8	0.0	93.8	1.0	1.0	0.0
3981.0	94.0	93.2	-0.1	93.1	1.0	1.0	0.0
7943.0	94.0	91.0	-0.3	90.7	1.5	3.0	0.0
12590.0	94.0	87.8	-0.3	87.4	3.0	6.0	-0.1

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Correction of electrical response	Actual level	Tolerance(dB)		Deviation *
					+	-	
Hz	dB	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	0.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	0.0	94.1	1.5	1.5	0.1
63.1	94.0	94.0	0.0	94.0	1.5	1.5	0.0
125.9	94.0	94.0	0.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	0.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	0.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	-0.1	93.9	1.0	1.0	0.0
7943.0	94.0	94.0	-0.3	93.7	1.5	3.0	0.0
12590.0	94.0	94.0	-0.3	93.7	3.0	6.0	0.0

\*Deviation = Actual level - ( Expected level + Correction of electrical response)

The correction of electrical response is specified in the Table A.2 of technical documentation of BE 1712-21. The maximum expanded uncertainty of correction of electrical response is 0.29 dB.

#### TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
136.0	135.0	135.0	1.0	1.0	0.0

#### TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
			+	-	
dB	dB	dB	+	-	dB
136.0	131.9	131.9	1.0	1.0	0.0

#### PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the



Test Data for Sound Level Meter

Page 4 of 5

Sound level meter type: 2250 Serial No. 3002695 Date 26-Jan-2022  
Microphone type: 4950 Serial No. 2940839  
Preamp type: ZC0032 Serial No. 21213 Report: 22CA0121 02-01

10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.  
Positive polarities: (Weighting Z, set the generator signal to single, Lzpeak)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	139.9	2.0	0.9

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
139.0	139.0	139.9	2.0	0.9

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time weighting	dB	dB	indication(dB)	+/- dB	dB
Slow	138.0+6.6	138.0	137.9	0.5	-0.1

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)

Test frequency: 2000 Hz  
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	131.2	131.1	2.0	-0.1

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
140.0	137.3	137.2	1.0	-0.1

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz

Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	110.0	110.0	109.9	1.0	-0.1	60s integ.
10000	100.0	100.0	99.9	1.0	-0.1	6min. integ.



Test Data for Sound Level Meter

Sound level meter type:	2250	Serial No.	3002695	Date	26-Jan-2022
Microphone type:	4950	Serial No.	2940839		
Preamp type:	ZC0032	Serial No.	21213	Report:	22CA0121 02-01

**PULSE RANGE AND SOUND EXPOSURE LEVEL TEST**

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz  
Integration time: 10 sec

The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	110.0	80.0	80.0	1.7	0.0

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	110.0	90.0	90.0	1.7	0.0

**OVERLOAD INDICATION TEST**

For SLM capable of operating in a non-integrating mode.

Test frequency: 2000 Hz  
Amplitude: 2 dB below the upper limit of the primary indicator range.  
Burst repetition frequency: 40 Hz  
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
137.1	136.1	133.1	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.

For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:  
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz  
Integration time: 10 sec  
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
144.0	143.0	103.0	103.0	2.2	0.0

**ACOUSTIC TEST**

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level		Tolerance (dB)	Deviation
		Measured (dB)			
Hz	dB			+	-
1000	94.0	94.0		0.0	0.0
125	77.9	77.9		1.0	1.0
8000	92.9	93.1		1.5	3.0

-----END-----





***Appendix 5.1***

***Monitoring Schedules for Reporting Month and Coming Reporting Month***

**Contract No. HY/2019/18**  
**Wan Chai Development Phase II and Central-Wan Chai Bypass**  
**Sampling, Field Measurement and Testing Works (Stage 4)**  
**Environmental Monitoring Schedule**  
**February 2022**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Feb	02-Feb	03-Feb	04-Feb	05-Feb
				24hr TSP	1hr TSP	
06-Feb	07-Feb	08-Feb	09-Feb	10-Feb	11-Feb	12-Feb
			Noise (daytime)	24hr TSP	1hr TSP	
13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb
				Noise (daytime)		
20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb
			Noise (daytime)			
27-Feb	28-Feb					

**Contract No. HY/2019/18**  
**Wan Chai Development Phase II and Central-Wan Chai Bypass**  
**Sampling, Field Measurement and Testing Works (Stage 4)**  
**Tentative Environmental Monitoring Schedule**  
**March 2022**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Mar	02-Mar	03-Mar	04-Mar	05-Mar
					Noise (daytime)	
06-Mar	07-Mar	08-Mar	09-Mar	10-Mar	11-Mar	12-Mar
		Noise (daytime)				
13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
			Noise (daytime)			
20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar
			Noise (daytime)			
27-Mar	28-Mar	29-Mar	30-Mar	31-Mar		
			Noise (daytime)			



***Appendix 5.2***

***Noise Monitoring Results and Graphical Presentations***



**Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
27-01-22	9:30	Sunny	66.4	69.5	62.1	67	66	75
31-01-22	9:30	Cloudy	66.2	68.6	61.4	67	66	75
09-02-22	9:30	Cloudy	67.2	39.8	63.2	67	66	75

Remarks: The noise monitoring at M4b has been temporarily suspended from 11 Feb 2022 onwards as agreed with IEC.

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
27-01-22	11:30	Sunny	64.1	65.7	61.3	68	64	75
31-01-22	11:30	Cloudy	65.1	67.4	62.1	68	65	75
09-02-22	11:30	Cloudy	64.5	65.6	62.3	68	65	75
18-02-22	10:30	Cloudy	65.3	66.1	61.1	68	65	75
23-02-22	10:30	Fine	64.9	66.5	60.6	68	65	75

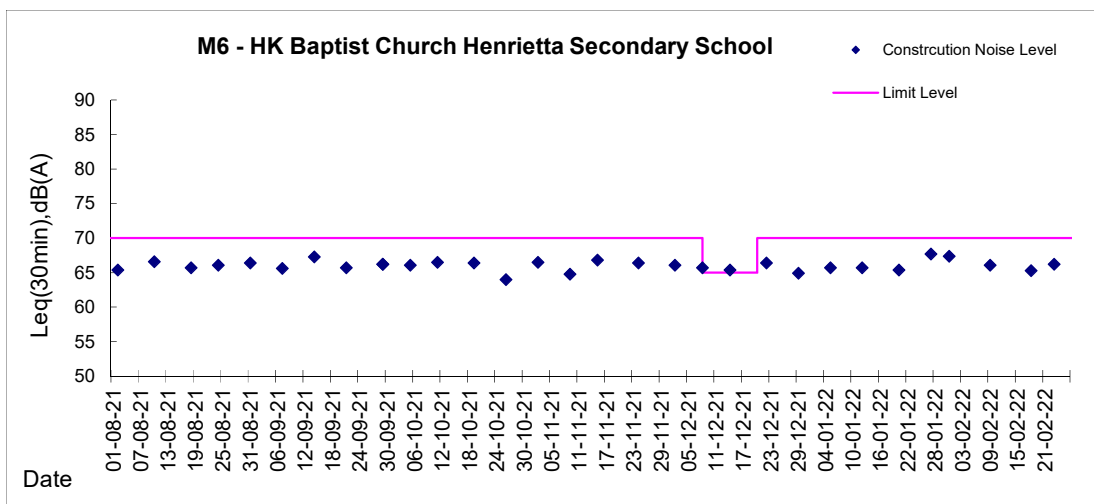
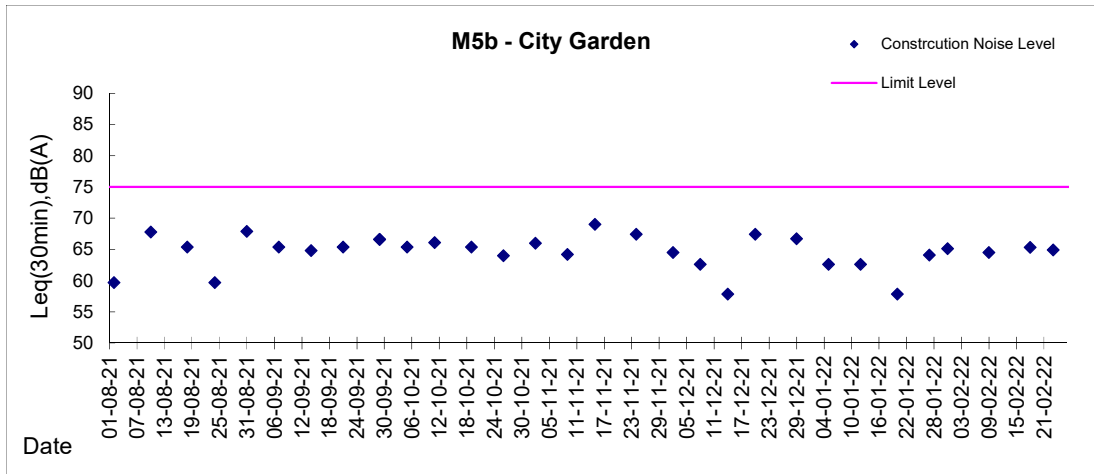
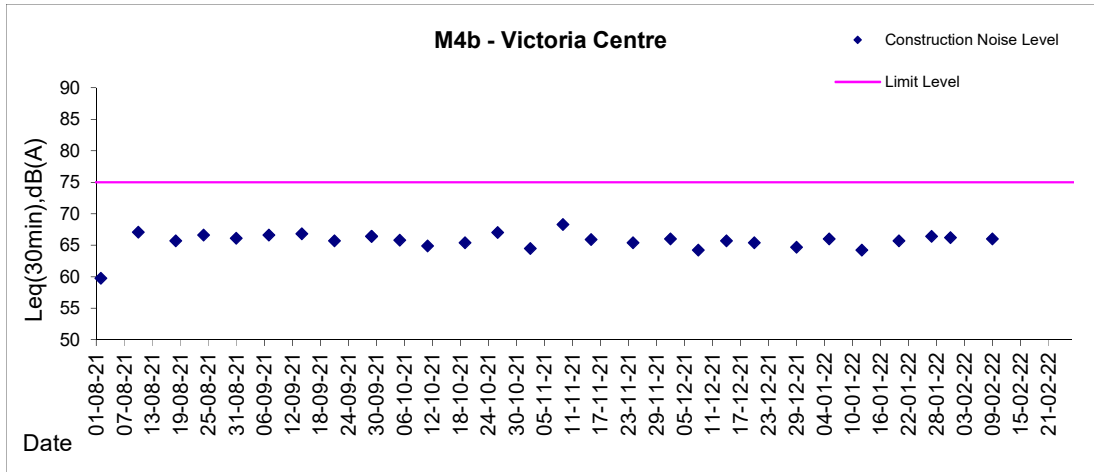
Location: M6 - HK Baptist Church Henrietta Secondary School

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
27-01-22	10:30	Sunny	67.7	69.9	64.6	71	68	70
31-01-22	10:30	Cloudy	67.4	68.6	62.8	71	67	70
09-02-22	10:30	Cloudy	67.5	68.7	64.7	71	66	70
18-02-22	11:30	Cloudy	65.3	67.6	62.6	71	65	70
23-02-22	11:30	Fine	66.2	68.4	63.6	71	66	70



**Graphic Presentation of Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**



Remarks: (i) The noise monitoring at M4b has been temporarily suspended from 11 Feb 2022 onwards as agreed with IEC.  
(ii) As baseline noise level of M6 is higher than measured noise level measured on 08 December 2021, the noise monitoring result will not be considered as noise exceedance.



***Appendix 5.3***  
***Air Quality Monitoring Results and Graphical Presentations***





Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 169.5

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Jan-22	8:00	Cloudy	CMA2a 24hr_008686	2.7297	2.7482	5119.23	5143.23	24.00	1.03	1.03	1.03	1480	12.5
04-Feb-22	8:00	Cloudy	CMA2a 24hr_008694	2.7217	2.7530	5146.23	5170.23	24.00	1.09	1.09	1.09	1564	20.0
10-Feb-22	8:00	Fine	CMA2a 24hr_008673	2.7563	2.8165	5173.23	5197.23	24.00	1.08	1.08	1.08	1554	38.7

Remark(s): The air quality monitoring at CMA2a has been temporarily suspended from 11 Feb 2022 onwards as agreed with IEC.

Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 323.4

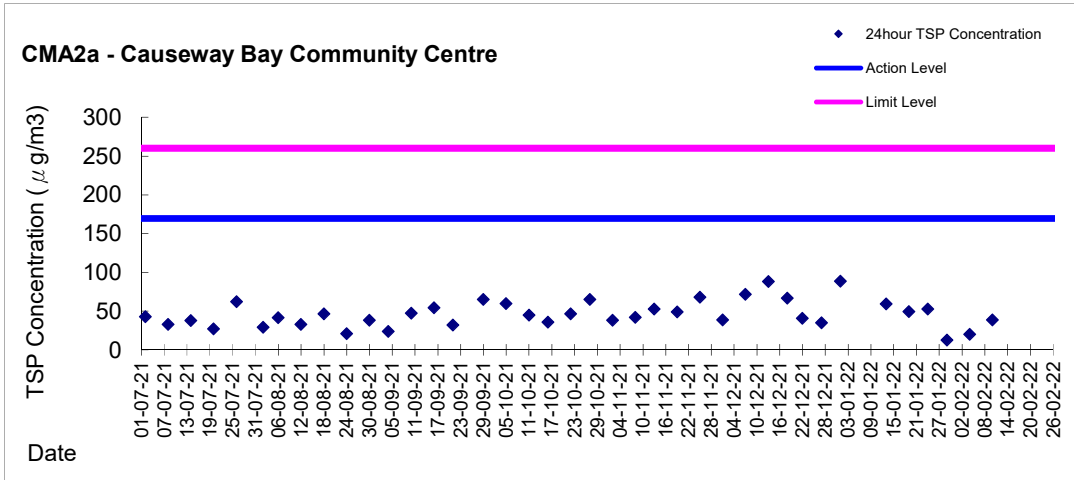
Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
31-Jan-22	8:45	Cloudy	CMA2a 1hr_1_008687	2.7334	2.7380	5143.23	5144.23	1.00	1.09	1.09	1.09	65	70.7
31-Jan-22	9:50	Cloudy	CMA2a 1hr_2_008688	2.7366	2.7545	5144.23	5145.23	1.00	1.09	1.09	1.09	65	274.9
31-Jan-22	10:55	Cloudy	CMA2a 1hr_3_008689	2.7316	2.7381	5145.23	5146.23	1.00	1.09	1.09	1.09	65	99.8
05-Feb-22	8:45	Cloudy	CMA2a 1hr_1_008678	2.7327	2.7380	5170.23	5171.23	1.00	1.09	1.09	1.09	65	81.3
05-Feb-22	9:50	Cloudy	CMA2a 1hr_2_008675	2.7063	2.7122	5171.23	5172.23	1.00	1.09	1.09	1.09	65	90.5
05-Feb-22	10:55	Cloudy	CMA2a 1hr_3_008676	2.7018	2.7074	5172.23	5173.23	1.00	1.09	1.09	1.09	65	85.9
11-Feb-22	9:45	Fine	CMA2a 1hr_1_008671	2.7103	2.7162	5197.23	5198.23	1.00	1.08	1.08	1.08	65	91.3
11-Feb-22	10:50	Fine	CMA2a 1hr_2_008672	2.7126	2.7177	5198.23	5199.23	1.00	1.08	1.08	1.08	65	78.9
11-Feb-22	13:00	Fine	CMA2a 1hr_3_008673	2.6998	2.7062	5199.23	5200.23	1.00	1.08	1.08	1.08	65	99.0

Remark(s): The air quality monitoring at CMA2a has been temporarily suspended from 11 Feb 2022 onwards as agreed with IEC.



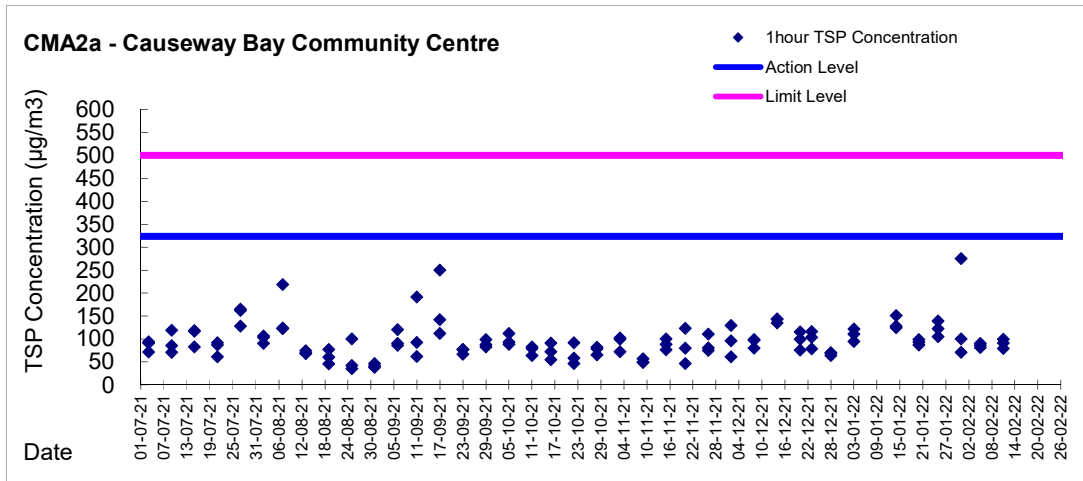
Graphic Presentation of 24 hour TSP Result



Remark(s): The air quality monitoring at CMA2a has been temporarily suspended from 11 Feb 2022 onwards as agreed with IEC.



Graphic Presentation of 1 hour TSP Result



Remark(s): The air quality monitoring at CMA2a has been temporarily suspended from 11 Feb 2022 onwards as agreed with IEC.



***Appendix 5.4***  
***Real Time Noise Monitoring Results and Graphical Presentations***

Real-time Noise Data		RTN1 (Food and Environmental Hygiene Department Depot)									
Normal Day 07:00-19:00		04-02-22 13:01	-	10-02-22 7:31	-	15-02-22 14:01	-	21-02-22 8:31	67	25-02-22 15:01	65
27-01-22 7:01	-	04-02-22 13:31	-	10-02-22 8:01	-	15-02-22 14:31	-	21-02-22 9:01	67	25-02-22 15:31	65
27-01-22 7:31	-	04-02-22 14:01	-	10-02-22 8:31	-	15-02-22 15:01	-	21-02-22 9:31	67	25-02-22 16:01	64
27-01-22 8:01	-	04-02-22 14:31	-	10-02-22 9:01	-	15-02-22 15:31	-	21-02-22 10:01	68	25-02-22 16:31	64
27-01-22 8:31	-	04-02-22 15:01	-	10-02-22 9:31	-	15-02-22 16:01	67	21-02-22 10:31	68	25-02-22 17:01	64
27-01-22 9:01	-	04-02-22 15:31	-	10-02-22 10:01	-	15-02-22 16:31	67	21-02-22 11:01	66	25-02-22 17:31	64
27-01-22 9:31	-	04-02-22 16:01	-	10-02-22 10:31	-	15-02-22 17:01	67	21-02-22 11:31	67	25-02-22 18:01	64
27-01-22 10:01	-	04-02-22 16:31	-	10-02-22 11:01	-	15-02-22 17:31	67	21-02-22 12:01	67	25-02-22 18:31	64
27-01-22 10:31	-	04-02-22 17:01	-	10-02-22 11:31	-	15-02-22 18:01	-	21-02-22 12:31	66	26-02-22 7:01	59
27-01-22 11:01	-	04-02-22 17:31	-	10-02-22 12:01	-	15-02-22 18:31	-	21-02-22 13:01	66	26-02-22 7:31	63
27-01-22 11:31	-	04-02-22 18:01	-	10-02-22 12:31	-	16-02-22 7:01	-	21-02-22 13:31	66	26-02-22 8:01	64
27-01-22 12:01	-	04-02-22 18:31	-	10-02-22 13:01	-	16-02-22 7:31	-	21-02-22 14:01	67	26-02-22 8:31	64
27-01-22 12:31	-	05-02-22 7:01	-	10-02-22 13:31	-	16-02-22 8:01	-	21-02-22 14:31	67	26-02-22 9:01	65
27-01-22 13:01	62	05-02-22 7:31	-	10-02-22 14:01	-	16-02-22 8:31	-	21-02-22 15:01	67	26-02-22 9:31	65
27-01-22 13:31	63	05-02-22 8:01	-	10-02-22 14:31	-	16-02-22 9:01	-	21-02-22 15:31	67	26-02-22 10:01	65
27-01-22 14:01	63	05-02-22 8:31	-	10-02-22 15:01	-	16-02-22 9:31	-	21-02-22 16:01	66	26-02-22 10:31	65
27-01-22 14:31	63	05-02-22 9:01	-	10-02-22 15:31	-	16-02-22 10:01	-	21-02-22 16:31	66	26-02-22 11:01	65
27-01-22 15:01	63	05-02-22 9:31	-	10-02-22 16:01	-	16-02-22 10:31	-	21-02-22 17:01	66	26-02-22 11:31	65
27-01-22 15:31	63	05-02-22 10:01	-	10-02-22 16:31	-	16-02-22 11:01	-	21-02-22 17:31	66	26-02-22 12:01	65
27-01-22 16:01	63	05-02-22 10:31	-	10-02-22 17:01	-	16-02-22 11:31	-	21-02-22 18:01	66	26-02-22 12:31	64
27-01-22 16:31	64	05-02-22 11:01	-	10-02-22 17:31	-	16-02-22 12:01	-	21-02-22 18:31	66	26-02-22 13:01	64
27-01-22 17:01	64	05-02-22 11:31	-	10-02-22 18:01	-	16-02-22 12:31	-	22-02-22 7:01	63	26-02-22 13:31	65
27-01-22 17:31	65	05-02-22 12:01	-	10-02-22 18:31	-	16-02-22 13:01	-	22-02-22 7:31	64	26-02-22 14:01	65
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28-01-22 7:31	64	05-02-22 14:01	-	11-02-22 8:31	-	16-02-22 15:01	55	22-02-22 9:31	66	26-02-22 16:01	64
28-01-22 8:01	66	05-02-22 14:31	-	11-02-22 9:01	-	16-02-22 15:31	55	22-02-22 10:01	66	26-02-22 16:31	64
28-01-22 8:31	66	05-02-22 15:01	-	11-02-22 9:31	-	16-02-22 16:01	55	22-02-22 10:31	66	26-02-22 17:01	65
28-01-22 9:01	65	05-02-22 15:31	-	11-02-22 10:01	-	16-02-22 16:31	55	22-02-22 11:01	67	26-02-22 17:31	64
28-01-22 9:31	66	05-02-22 16:01	-	11-02-22 10:31	-	16-02-22 17:01	55	22-02-22 11:31	67	26-02-22 18:01	64
28-01-22 10:01	66	05-02-22 16:31	-	11-02-22 11:01	-	16-02-22 17:31	54	22-02-22 12:01	67	26-02-22 18:31	63
28-01-22 10:31	66	05-02-22 17:01	-	11-02-22 11:31	-	16-02-22 18:01	56	22-02-22 12:31	66		
28-01-22 11:01	65	05-02-22 17:31	-	11-02-22 12:01	-	16-02-22 18:31	54	22-02-22 13:01	68	Normal Day 19:00-23:00	
28-01-22 11:31	65	05-02-22 18:01	-	11-02-22 12:31	-	17-02-22 7:01	52	22-02-22 13:31	-	Sunday & Holiday	
28-01-22 12:01	65	05-02-22 18:31	-	11-02-22 13:01	-	17-02-22 7:31	54	22-02-22 14:01	-	07:00-23:00	
28-01-22 12:31	-	07-02-22 7:01	-	11-02-22 13:31	-	17-02-22 8:01	56	22-02-22 14:31	-	27-01-22 19:01	65
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28-01-22 14:01	-	07-02-22 8:31	-	11-02-22 15:01	-	17-02-22 9:31	57	22-02-22 16:01	-	27-01-22 20:31	66
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28-01-22 15:01	-	07-02-22 9:31	-	11-02-22 16:01	-	17-02-22 10:31	57	22-02-22 17:01	-	27-01-22 21:31	67
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Real-time Noise Data RTN1 (Food and Environmental Hygiene Department Depot)

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Real-time Noise Data RTN1 (Food and Environmental Hygiene Department Depot)

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19-02-22 1:41	60	20-02-22 2:46	62	21-02-22 3:51	59	22-02-22 4:56	57	23-02-22 6:01	-	24-02-22 7:06	58
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19-02-22 1:56	58	20-02-22 3:01	54	21-02-22 4:06	59	22-02-22 5:11					

Real-time Noise Data RTN1 (Food and Environmental Hygiene Department Depot)

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26-02-22 2:41	57		
26-02-22 2:46	56		

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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27-01-22 8:01	61	04-02-22 14:31	61	10-02-22 9:01	61	15-02-22 15:31	60	21-02-22 10:01	-	25-02-22 16:31	-
27-01-22 8:31	62	04-02-22 15:01	60	10-02-22 9:31	61	15-02-22 16:01	61	21-02-22 10:31	-	25-02-22 17:01	-
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27-01-22 10:01	63	04-02-22 16:31	60	10-02-22 11:01	61	15-02-22 17:31	61	21-02-22 12:01	-	25-02-22 18:31	-
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Real-time Noise Data	RTN2a (Hong Kong Electric Centre)										
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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data		RTN2a (Hong Kong Electric Centre)									
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## Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data		RTN2a (Hong Kong Electric Centre)									
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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

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Real-time Noise Data

RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

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Real-time Noise Data		RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)									
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11-02-22											

## Real-time Noise Data RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

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Real-time Noise Data RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

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Real-time Noise Data RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

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12-02-											



Real-time Noise Data RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)

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Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
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27-01-22 7:31	-	04-02-22 13:01	-	10-02-22 7:31	58	15-02-22 14:01	59	21-02-22 8:31	-	25-02-22 15:01	60
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27-01-22 9:31	-	04-02-22 15:01	-	10-02-22 9:31	60	15-02-22 16:01	58	21-02-22 10:31	-	25-02-22 17:01	60
27-01-22 10:01	-	04-02-22 15:31	-	10-02-22 10:01	60	15-02-22 16:31	59	21-02-22 11:01	-	25-02-22 17:31	59
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Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
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## Real-time Noise Data

## RTN4 (Causeway Bay Community Centre)

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Real-time Noise Data

RTN4 (Causeway Bay Community Centre)

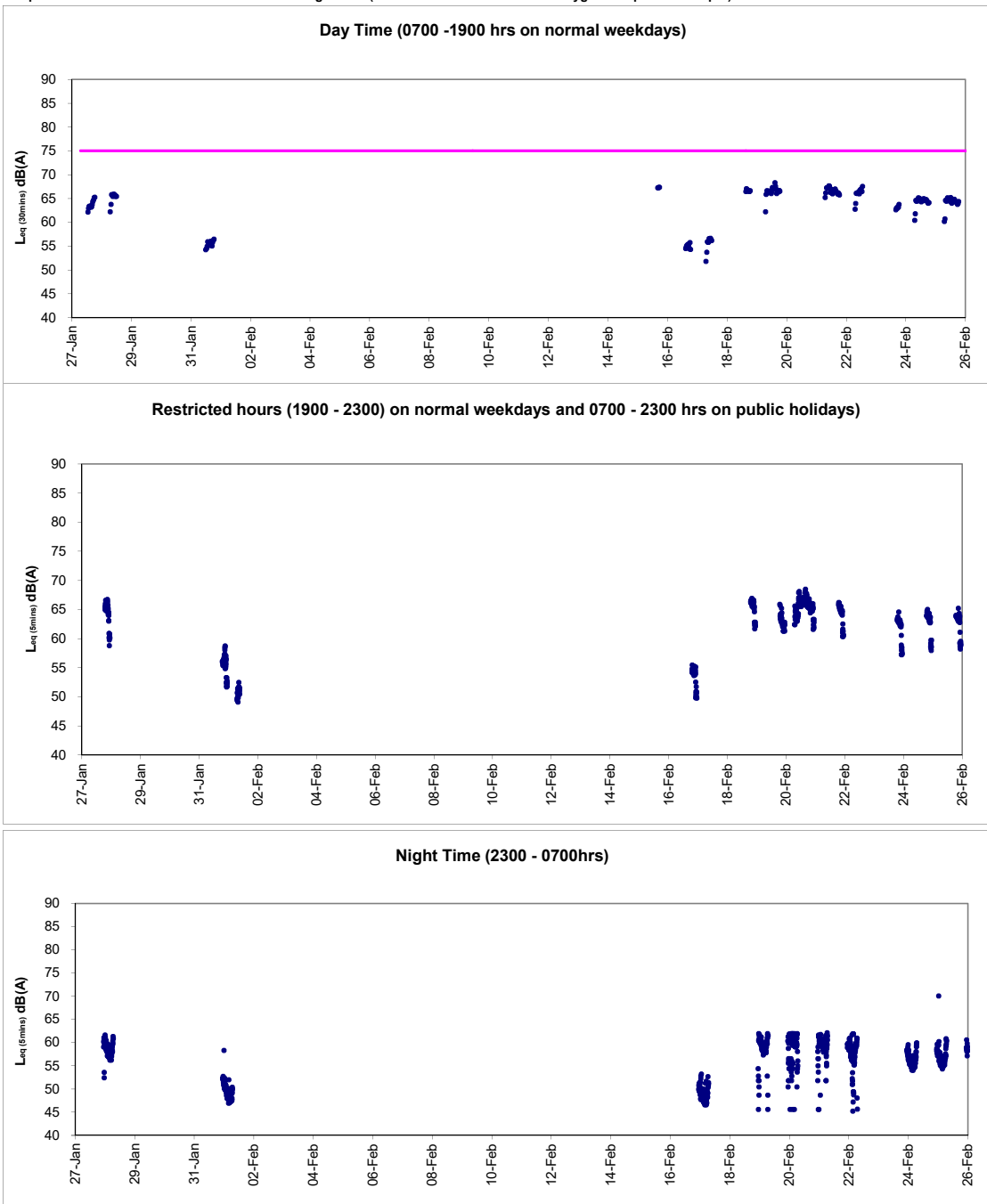
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Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
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19-02-22 1:21	-	20-02-22 2:26	-	21-02-22 3:31	-	22-02-22 4:36	-	23-02-22 5:41	-	24-02-22 6:46	56
19-02-22 1:26	-	20-02-22 2:31	-	21-02-22 3:36	-	22-02-22 4:41	-	23-02-22 5:46	-	24-02-22 6:51	56
19-02-22 1:31	-	20-02-22 2:36	-	21-02-22 3:41	-	22-02-22 4:46	-	23-02-22 5:51	-	24-02-22 6:56	56
19-02-22 1:36	-	20-02-22 2:41	-	21-02-22 3:46	-	22-02-22 4:51	-	23-02-22 5:56	-	24-02-22 23:01	53
19-02-22 1:41	-	20-02-22 2:46	-	21-02-22 3:51	-	22-02-22 4:56	-	23-02-22 6:01	-	24-02-22 23:06	53
19-02-22 1:46	-	20-02-22 2:51	-	21-02-22 3:56	-	22-02-22 5:01	-	23-02-22 6:06	-	24-02-22 23:11	52
19-02-22 1:51	-	20-02-22 2:56	-	21-02-22 4:01	-	22-02-22 5:06	-	23-02-22 6:11	-	24-02-22 23:16	53
19-02-22 1:56	-	20-02-22 3:01	-	21-02-22 4:06	-	22-02-22 5:11	-	23-02-22 6:16	-	24-02-22 23:21	52
19-02-22 2:01	-	20-02-22 3:06	-	21-02-22 4:11	-	22-02-22 5:16	-	23-02-22 6:21	-	24-02-22 23:26	52
19-02-22 2:06	-	20-02-22 3:11	-	21-02-22 4:16	-	22-02-22 5:21	-	23-02-22 6:26	-		

Real-time Noise Data RTN4 (Causeway Bay Community Centre)

25-02-22 1:41	51	26-02-22 2:46	50
25-02-22 1:46	48	26-02-22 2:51	49
25-02-22 1:51	50	26-02-22 2:56	48
25-02-22 1:56	50	26-02-22 3:01	50
25-02-22 2:01	49	26-02-22 3:06	48
25-02-22 2:06	49	26-02-22 3:11	50
25-02-22 2:11	50	26-02-22 3:16	49
25-02-22 2:16	50	26-02-22 3:21	51
25-02-22 2:21	49	26-02-22 3:26	49
25-02-22 2:26	48	26-02-22 3:31	49
25-02-22 2:31	49	26-02-22 3:36	50
25-02-22 2:36	51	26-02-22 3:41	51
25-02-22 2:41	53	26-02-22 3:46	50
25-02-22 2:46	49	26-02-22 3:51	50
25-02-22 2:51	49	26-02-22 3:56	50
25-02-22 2:56	49	26-02-22 4:01	49
25-02-22 3:01	48	26-02-22 4:06	49
25-02-22 3:06	51	26-02-22 4:11	49
25-02-22 3:11	47	26-02-22 4:16	50
25-02-22 3:16	48	26-02-22 4:21	49
25-02-22 3:21	50	26-02-22 4:26	49
25-02-22 3:26	48	26-02-22 4:31	49
25-02-22 3:31	50	26-02-22 4:36	50
25-02-22 3:36	50	26-02-22 4:41	50
25-02-22 3:41	49	26-02-22 4:46	49
25-02-22 3:46	50	26-02-22 4:51	50
25-02-22 3:51	49	26-02-22 4:56	49
25-02-22 3:56	50	26-02-22 5:01	50
25-02-22 4:01	53	26-02-22 5:06	52
25-02-22 4:06	49	26-02-22 5:11	55
25-02-22 4:11	49	26-02-22 5:16	50
25-02-22 4:16	50	26-02-22 5:21	51
25-02-22 4:21	50	26-02-22 5:26	51
25-02-22 4:26	50	26-02-22 5:31	50
25-02-22 4:31	51	26-02-22 5:36	51
25-02-22 4:36	51	26-02-22 5:41	52
25-02-22 4:41	51	26-02-22 5:46	52
25-02-22 4:46	49	26-02-22 5:51	52
25-02-22 4:51	52	26-02-22 5:56	52
25-02-22 4:56	50	26-02-22 6:01	52
25-02-22 5:01	50	26-02-22 6:06	53
25-02-22 5:06	51	26-02-22 6:11	56
25-02-22 5:11	50	26-02-22 6:16	53
25-02-22 5:16	51	26-02-22 6:21	54
25-02-22 5:21	50	26-02-22 6:26	55
25-02-22 5:26	53	26-02-22 6:31	55
25-02-22 5:31	51	26-02-22 6:36	55
25-02-22 5:36	52	26-02-22 6:41	55
25-02-22 5:41	53	26-02-22 6:46	56
25-02-22 5:46	51	26-02-22 6:51	56
25-02-22 5:51	53	26-02-22 6:56	55
25-02-22 5:56	53	26-02-22 23:01	55
25-02-22 6:01	53	26-02-22 23:06	54
25-02-22 6:06	52	26-02-22 23:11	54
25-02-22 6:11	52	26-02-22 23:16	53
25-02-22 6:16	55	26-02-22 23:21	53
25-02-22 6:21	54	26-02-22 23:26	53
25-02-22 6:26	56	26-02-22 23:31	53
25-02-22 6:31	55	26-02-22 23:36	54
25-02-22 6:36	56	26-02-22 23:41	53
25-02-22 6:41	56	26-02-22 23:46	54
25-02-22 6:46	57	26-02-22 23:51	53
25-02-22 6:51	56	26-02-22 23:56	52
25-02-22 6:56	56		
25-02-22 23:01	58		
25-02-22 23:06	56		
25-02-22 23:11	53		
25-02-22 23:16	54		
25-02-22 23:21	52		
25-02-22 23:26	55		
25-02-22 23:31	52		
25-02-22 23:36	53		
25-02-22 23:41	53		
25-02-22 23:46	54		
25-02-22 23:51	52		
25-02-22 23:56	52		
26-02-22 0:01	52		
26-02-22 0:06	52		
26-02-22 0:11	53		
26-02-22 0:16	53		
26-02-22 0:21	53		
26-02-22 0:26	53		
26-02-22 0:31	52		
26-02-22 0:36	52		
26-02-22 0:41	53		
26-02-22 0:46	52		
26-02-22 0:51	52		
26-02-22 0:56	51		
26-02-22 1:01	50		
26-02-22 1:06	51		
26-02-22 1:11	50		
26-02-22 1:16	51		
26-02-22 1:21	51		
26-02-22 1:26	50		
26-02-22 1:31	51		
26-02-22 1:36	50		
26-02-22 1:41	51		
26-02-22 1:46	50		
26-02-22 1:51	49		
26-02-22 1:56	51		
26-02-22 2:01	48		
26-02-22 2:06	49		
26-02-22 2:11	50		
26-02-22 2:16	49		
26-02-22 2:21	52		
26-02-22 2:26	49		
26-02-22 2:31	51		
26-02-22 2:36	50		
26-02-22 2:41	51		

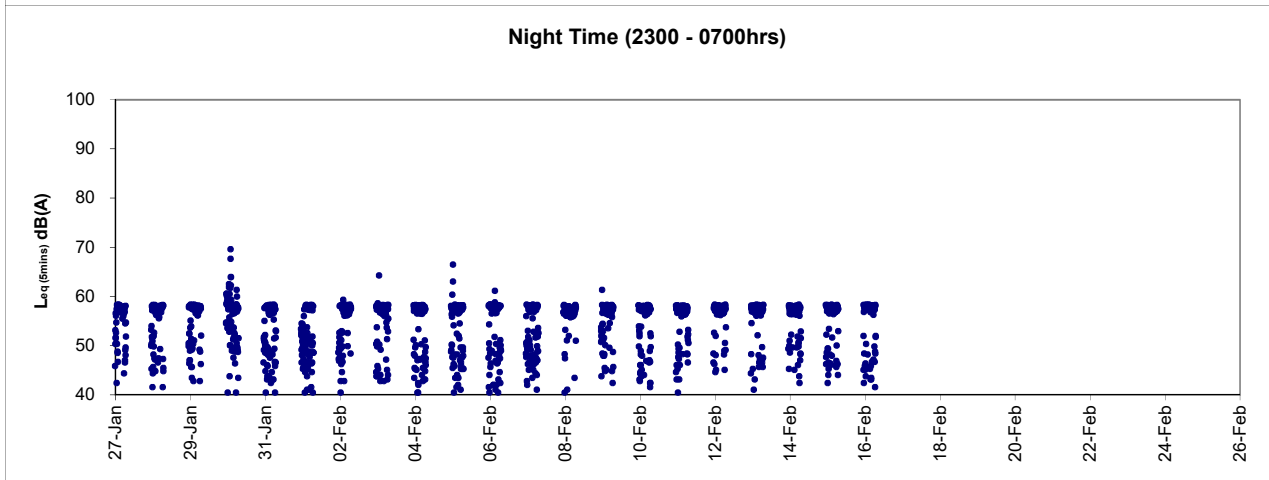
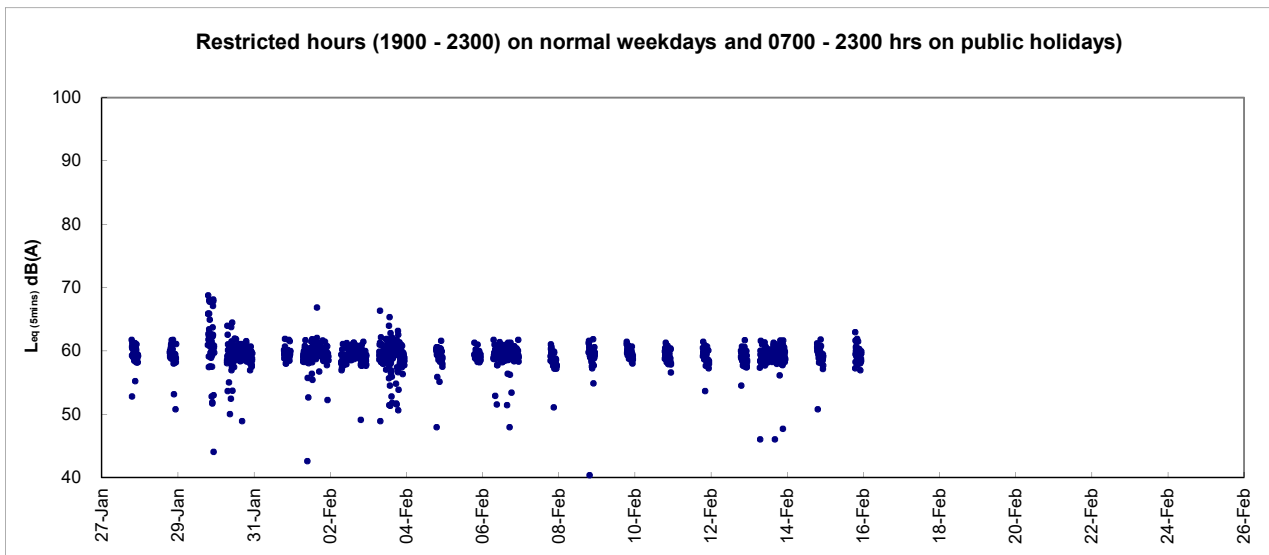
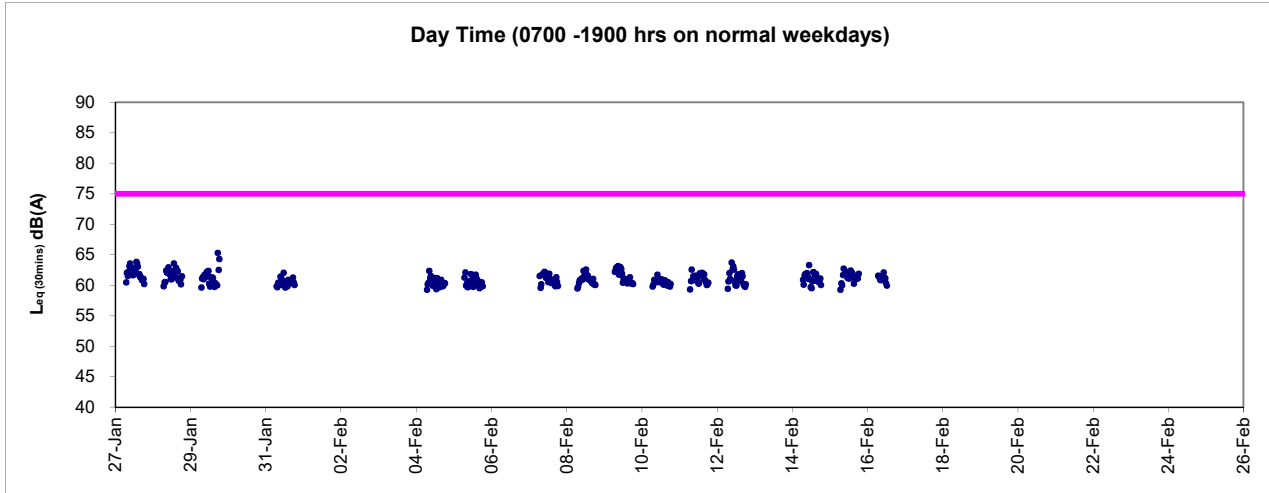
Graphic Presentation of Real Time Noise Monitoring Result (RTN1-Food and Environmental Hygiene Department Depot)



Remarks: Power interruption was experienced from i)0001hrs to 1300hrs on 27 Jan 2022; ii)1231hrs on 28 Jan 2022 to 1200hrs on 31 Jan 2022; iii)0911hrs on 01 Feb 2022 to 1600hrs on 15 Feb 2022; iv)1801hrs on 15 Feb 2022 to 1430hrs on 16 Feb 2022; v)1201hrs on 17 Feb 2022 to 1500hrs on 18 Feb 2022; and vi)1331hrs on 22 Feb 2022 to 1600hrs on 24 Feb 2022.



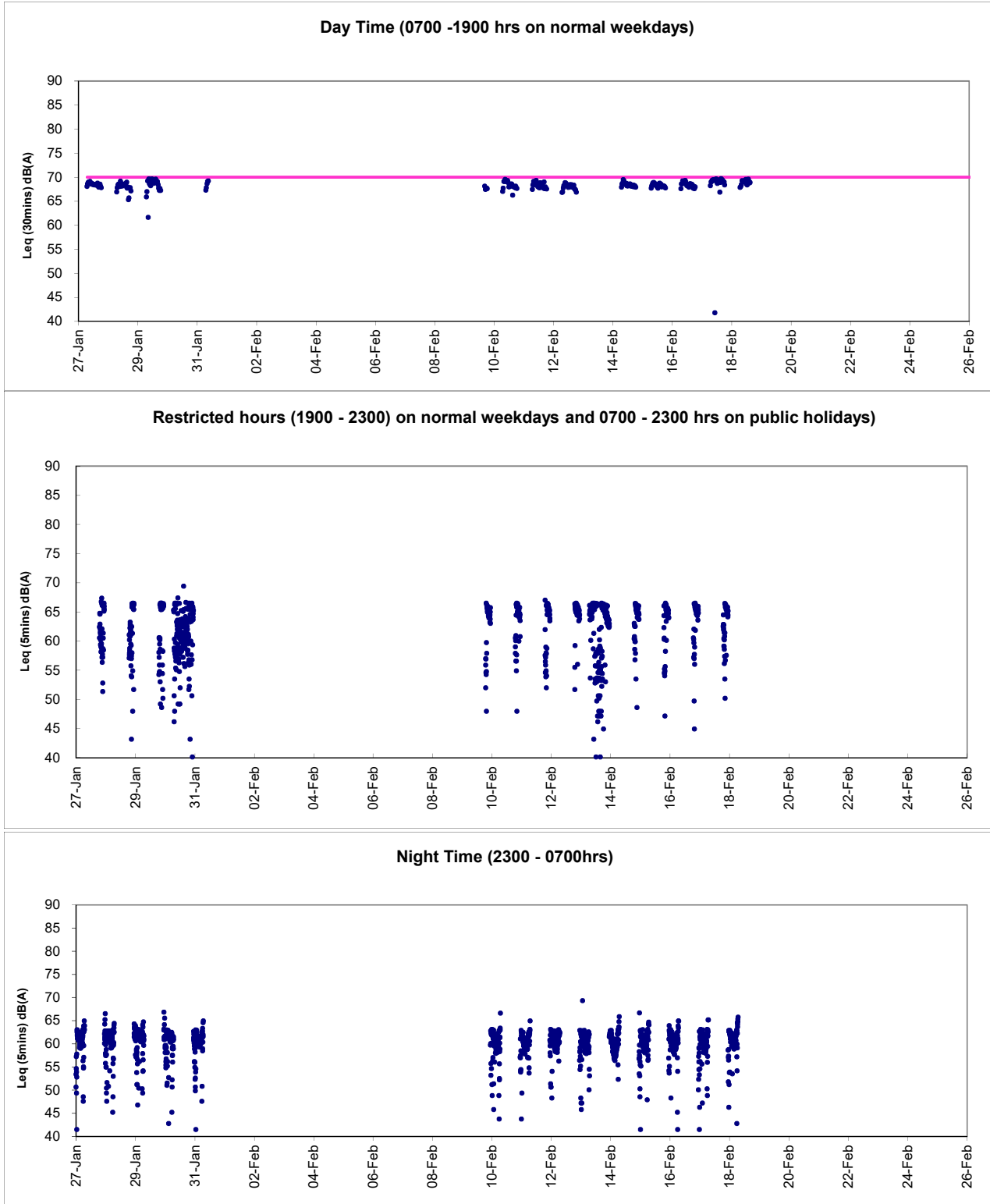
Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)



Remarks: Power interruption was experienced from 1321hrs on 16 Feb 2022 to 2400hrs on 26 Feb 2022.



Graphic Presentation of Real Time Noise Monitoring Result (RTN3-Yu Lee Mo Fan Memorial School)

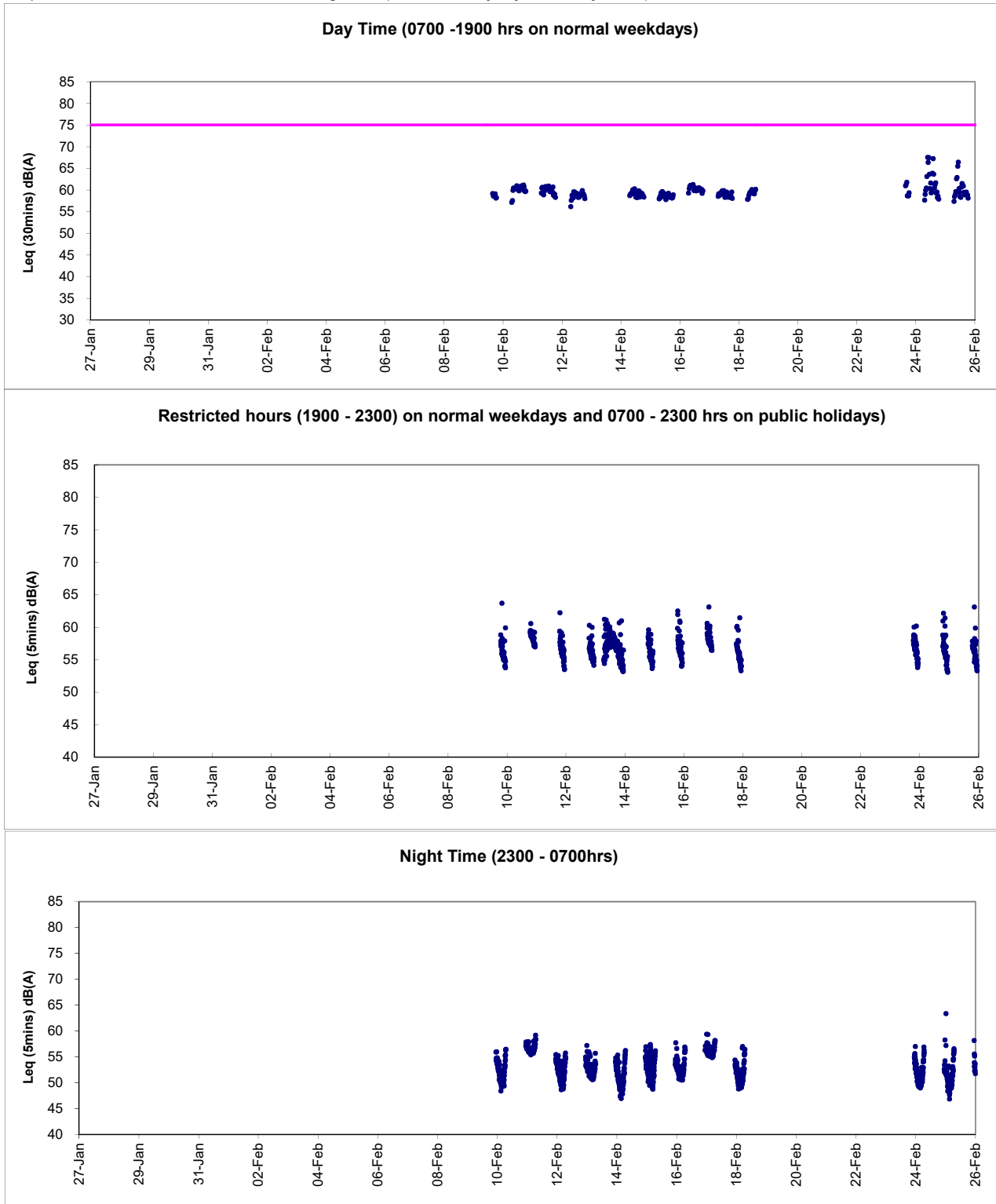


Remarks: a) Power interruption was experienced from 0951hrs on 31 Jan 2022 to 1620hrs on 09 Feb 2022;  
b) Data acquisition from 1556hrs on 18 Feb 2022 to 2400hrs on 26 Feb 2022 was not available as confirmed cases of COVID-19 were occurred at the monitoring location.





Graphic Presentation of Real Time Noise Monitoring Result (RTN4-Causeway Bay Community Centre)



Remark: Power interruption was experienced from i)0001hrs on 27 Jan 2022 to 1515hrs on 09 Feb 2022; and ii)1416hrs on 18 Feb 2022 to 1510hrs on 23 Feb 2022.



***Appendix 6.1***

*Event Action Plans*



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none"><li>1. Notify ER, IEC and Contractor;</li><li>2. Carry out investigation;</li><li>3. Report the results of investigation to the IEC, ER and Contractor;</li><li>4. Discuss with the IEC and Contractor on remedial measures required;</li><li>5. Increase monitoring frequency to check mitigation effectiveness.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Review the investigation results submitted by the ET;</li><li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li><li>3. Advise the ER on the effectiveness of the proposed remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Confirm receipt of notification of failure in writing;</li><li>2. Notify Contractor;</li><li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li><li>4. Supervise the implementation of remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Submit noise mitigation proposals to IEC and ER;</li><li>2. Implement noise mitigation proposals.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	<ol style="list-style-type: none"> <li>1. Inform IEC, ER, Contractor and EPD;</li> <li>2. Repeat measurements to confirm findings;</li> <li>3. Increase monitoring frequency;</li> <li>4. Identify source and investigate the cause of exceedance;</li> <li>5. Carry out analysis of Contractor's working procedures;</li> <li>6. Discuss with the IEC, Contractor and ER on remedial measures required;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures;</li> <li>5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Submit further proposal if problem still not under control;</li> <li>5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>



**Event / Action Plan for Construction Air Quality**

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
<b>ACTION LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Notify Contractor.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
<b>LIMIT LEVEL</b>				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol> (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>



***Appendix 6.2***

*Summary for Notification of Exceedance*



Ref no.	Date	Location	Parameter (Unit)	Construction Noise Level, dB(A)	Action Level	Limit Level	Follow-up action
-	-	-	-	-	-	-	-



***Appendix 9.1***

*Complaint Log*





*Environmental Complaints Log*

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	<p>1) It was referred by AECOM to ET on 28 July 2011</p> <p>2) RSS confirmed that the notice was prepared by Victoria Centre 'a Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm Monday to Saturday except Public Holidays and Sundays.</p> <p>3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011.</p> <p>4) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring.</p> <p>5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.</p>	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	<p>1) It was referred by AECOM to ET on 8 August 2011</p> <p>2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents.</p> <p>3) With reference to the construction noise monitoring at Victoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring</p> <p>4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.</p>	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of Central-Wanchai Bypass at	<p>1) It was referred by AECOM to ET on 28 July 2011</p> <p>2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents.</p> <p>3) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime and evening time period</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				noon rather than in morning at 7am.	while breaking and excavation works were observed during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	07/08/2011				4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011. 5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.  <i>Remarks: There will be counted as two complaints in this complaint log.</i>	
110730	30/07/2011	Mr. Tsui by ICC no. 1-305074350	Central	Construction noise generated by operations of Central-Interchange which is near the spa room at Four-Season Hotel. Also, the complaint enquired the commencement time of the construction on Saturday.	1) It was referred by AECOM to ET on 1 August 2011. 2) RSS confirmed that noisy plants from 2 vibratory hammers have been conducted in alternating manner for piling and drilling works for diaphragm wall construction. 3) With reference to the construction noise monitoring at IFC Western End of Podium, no exceedance was recorded on 4 August 2011 during monitoring while sheet piling works were undertaken during monitoring. 4) In order to reduce the noise impact to nearby noise sensitive receivers, Contractor has been implemented the following noise mitigation measures: - Erection of acoustic lining at the hoarding next to Four Seasons Hotel; - Temporary noise barrier with extended acoustic lining; - Reduced in plant such that only have one vibration hammer operating at the west side near Four Seasons Hotel instead of 2	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					5) In conclusion, it was related to the construction works under Contract HY/2009/18 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) It was referred by AECOM to ET on 17 August 2011. 2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint. 3) Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. 4) Contractors were advised to relocate the loose materials away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	Closed
110817	17/08/2011	ICC no. 1-307657681	North Point	Visual impact generated by light from a large amount of spot-lights on the barge during mid-night nearby City Garden.	1) It was referred by AECOM to ET on 23 August 2011 2) RSS confirmed that some non-essential lights were turned on during night-time period which caused the nuisance to the nearby residents. In addition, absence of lighting shields at flood lights results in visual glare to the complaint at night-time. 3) Follow-up action had been taken by contractor that switches off all non-essential lights to minimized nuisance to the nearby residents. The complainant satisfied to the practice and no further complaint was received after that.	Closed
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. 2) The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the	Closed



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					dominant construction noise source during this period. 3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint. 4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening. 5) Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed. 6) Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1) It was referred by AECOM to ET on 29 August 2011 2) Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. 3) The pump is located on the site area of HY/2009/19 4) A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to exclude the outfall. 5) An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractor of HY/2009/11 and HY/2009/19 and ICon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011. 5) Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 6) In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse come from sea bed from entering the intake. 6) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying with their expectation. 7) During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion	Closed



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					could be made for the source of these floating refuses. On the other hand, some of the floating refuses were observed immigrating in the protective zone during investigation 8) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. It was noted that the intake (land side) is open access to public, so that many activities such as fishing, feeding fish were conducted there even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point. 9) Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities. 10) Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) RSS notified ET to carry out investigation on 17 October 2011. 2) ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	Closed
111104	04/11/2011	Mr. Liu from LCSD	Wan Chai	Complain about a tree near the site of pipe installation works	1) ET confirmed with the Resident Site Staff that · A tree near the site of pipe installation works outside Wan	Closed



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		complained via Contractor Complaint Hotline		outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. · Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700. 3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good	Closed



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					position. 4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Furthermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
111212	12/12/2011	The complainant, Mr Tsui from IFCL's management office complained via hotline 1823	Central	A visual impact complaint from hotline 1823 was received by ET on 9 January 2011 (ICC Ref. No.: ICC#1-333037096 dated on 12 December 2011). The complaint, Mr Tsui was reported that visual nuisance caused by lighting in the construction site during night time.	1) RSS notified ET on 9 Jan 2012. 2) ET confirmed with the Resident Site Staff that A joint inspection was conducted by Mr Tsui and contractor on that night to see whether there is any improvement. 3) Due to safety reason, igniting enough lights should not be avoided in construction site. However, the light sources were not directed away from pointing to the sensitive receiver and results in visual glare to the complaint. 4) Confirmed with the Resident Site Staff the complainant was satisfied the new arrangement of the lights with contractor after the joint inspection. No further complaint received after that.	Closed
111220	20/12/2011	The complainant, Ms. Poon complained via hotline 1823 (ICC Ref. No.: ICC#1-334683841)	North Point	Construction air and noise nuisance generated that many trucks carrying construction materials driving along Watson Road and Oil Street and possibly entering/leaving the construction site near the IEC during 0800 to 1900 hours.	1) RSS notified ET on 22 Dec 2011. 2) ET confirmed with the Resident Site Staff that the complainant cannot identify whether the trucks were working under the CWB project or not. 3) The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and Waston Road, however, this is the public road for all vehicles. Reviewing the air quality monitoring and noise monitoring results. No exceedance was recorded during this period. 4) Confirmed with the Resident Site Staff that they provided a contact no. for any future enquiries regarding CWB project to the complainant and she was satisfied on the arrangement and no further complaint was received	Closed



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					after that.	
111230	30/12/2011	Residents of Harbour Heights	North Point	Construction air and noise nuisance generated by construction vehicles were found parked illegally at King Wah Road and lining up at Oil Street without the engine turning off.	1) RSS notified ET on 6 January 2011. 2) ET confirmed with the Resident Site Staff that a number of construction activities are concurrently proceeding in the vicinity of Oil Street, King Wah Street and a private development project in King Wah Street 3) The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and King Wah Road, however, this is the public road for all vehicles. Reviewing the results of air quality monitoring station (CMA1b) and noise monitoring (M4b). No exceedance was recorded during this period. Site inspections for HY/2009/19 were conducted on 4 January 2012. The condition of the site access at Oil Street and the public road nearby were found satisfactory. It is noted that HyD also allow and encourage their contractors to maximize the use of marine access, where available, to work sites, so as to minimize burdening nearby public roads. When land trips are unavoidable, they require contractors to tidy up their construction vehicles before leaving works sites. No contractor under CWB project parked their vehicles illegally at King Wah Street, and HyD still reminded them not to commit such offence. 4) According to HyD's staff replied the complaint letter on 10 January 2012, there is a private development project under construction at King Wah Road. To access these works sites, construction vehicles have to use public roads nearby. No further complaint received after HyD's reply.	Closed
120118	18/01/2012	N/A	North Point	A complaint regarding a tree located in front of Victoria Centre under IECL was covered by one meter mud without any protection. The complainant concerns the health of the tree in such condition.	1) RSS notified ET on 20 January 2012. 2) ET confirmed with the Resident Site Staff that The tree is inside the site area of HY/2009/19 and The Botanical name of the tree is Ficus superba var. japonica and the I.D. of the tree is UT48 3) According to the information provided by RSS on 20 Jan 2012, the tree shall be felled that has been approved by DLO on 29 August 2011. Moreover, the tree was felled by contractor on 19 January 2012.	Closed





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					4) No further complaint received after HyD's reply.	
120305	03/03/2012	Resident of Harbour Heights complained via hotline 1823 (ICC Ref. No.: ICC#1-344632511)	North Point	A complaint regarding excessive noise from construction sites of CWB was observed outside Harbour Heights from Monday to Saturday before 8am. The plants were frequently turned on before 7:30am creating nuisance. The complainant requested a speedy follow-up and reply from relevant department.	<ol style="list-style-type: none"> <li>1) RSS notified ET on 5 March 2012.</li> <li>2) ET confirmed with the Resident Site Staff that PME for diaphragm wall construction started to operate at about 7:30am whilst the other PME, including those for land bored piling work, started to operate after 8am.</li> <li>3) After reviewing the results of noise monitoring (M4b), no exceedance was recorded during daytime period and the noise level were below 75dB(A). Site inspection for HY/2009/19 was conducted on 7 March 2012. The condition of noise mitigation measures near Harbour Heights was found satisfactory. RSS confirmed that no operation was active before 7:00am everyday. The suspected nuisance was to be considered caused by the PME for diaphragm wall construction. A surprise check was performed on 13 March 2012 by RSS. It was found that no noisy PME was in operation by Contractor of HY/2009/19 before 8am, and the construction noise level was minimal and not disturbing. The noise level and operation time both complied with statutory requirements set up in NCO.</li> <li>4) Complainant called ICC on 8 March 2012 to confirm HyD has provided a response. No further complaint was received after the response.</li> </ol>	Closed
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	<ol style="list-style-type: none"> <li>1) RSS notified ET on 5 April 2012.</li> <li>2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period.</li> <li>3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations.</li> <li>4) HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at</li> </ol>	Closed



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					CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
120415	15/04/2012	The complainant Ms. Law, resident of Fu Lee Loy Mansion, complained via hotline 1823 (ICC Ref. No.: 1-351021108)	North Point	A complaint regarding excessive noise generated from a HyD project that is located at the connection point of CWB and IEC affecting nearby residents. Lately during the middle of the night (around 00:00 to 05:00), low frequency noise, which possibly came from the operating power generator and the barges which were parked along the Oil Street work site, were making a nuisance to the complainant and residents nearby. The complainant requested that relevant department should follow-up.	<ol style="list-style-type: none"> <li>1) RSS notified ET on 17 April 2012.</li> <li>2) ET confirmed with the Resident Site Staff that there was no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.</li> <li>3) After reviewing the results of noise monitoring (M4b and M5b), no exceedance was recorded during day time period and the noise level was below 75dB(A). Site inspection for HY/2009/19 was conducted on 18 April 2012. The condition of noise mitigation measures near Harbour Heights were found satisfactory. RSS confirmed that no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.</li> <li>4) HyD made a reply to the complainant on 30 April 2012 via email. HyD replied that the current works near Oil Street, North Point, included CWB tunnel works, IEC connections and associated foundation works. According to RSS records, no operations were performed during the early hours of March and April at Oil Street and the waterbody nearby, and so it was believed that the noise nuisance was not generated from the CWB project. Despite that, RSS would continue to monitor the Contractor on the operations and effectiveness of the environmental mitigation measures implemented on site, as not to affect daily life of local residents nearby. No further complaint was received after the response.</li> </ol>	Closed
130308	06/03/2013	ICC Case#1-407181502	Tin Hau	A complaint regarding the dropping of fine rock material	<ol style="list-style-type: none"> <li>1) RSS notified ET on 8 Marc 2013</li> <li>2) ET confirmed with RSS that excavation works,</li> </ol>	Closed



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				into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	<p>installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013.</p> <p>3) Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality.</p> <p>Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found.</p> <p>The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use.</p>	
130606	30/5/2013	ICC Ref. No.: #1-430164728	Central – Man Kat	1. A number of trees (approximately more than ten)	1 ) RSS notify ET on 6 June 2013	Closed



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			Street	along Man Kat Street were found to be in poor health condition with withered and yellow leaves. The complainant has requested a follow-up by relevant department.	<p>2) ET confirmed with the Resident Site Staff that</p> <p>According to the information provided by RSS, 13 no. of the trees - <i>Roystonea regia</i> (T1674, T1675, T1676, T1677, T1678, T1679, T1680, T1681, T1683, T1644, T1643, T1641, T1639) at the concerned location raised by the complainant was found to be with withered and yellow leaves and 1 no. of tree- <i>Khaya senegalensis</i> (T1712) raised by the complainant was found to be in poor health condition.</p> <p>No construction works was undertaken by Contract HY/2009/18 at the concerned planter area where the affected trees are located.</p> <p>It was also observed that an active CEDD construction works area under a separate contractor not related to Central Wan Chai Bypass Project was found to be located within the concerned planter area.</p> <p>3) A follow-up joint inspection with RSS and Landscape specialist was conducted on 10 June 2013, it was considered that the withered and yellow leaves of the affected trees (T1674, T1675, T1676, T1677, T1678, T1679, T1680, T1681, T1683, T1644, T1643, T1641, T1639) at the concerned planter area were contributed by natural life cycle of the affected trees and the health condition of the affected trees were considered to be fair. It was also noted that an active CEDD works area was located within the concerned planter area in close proximity to few of the concerned trees (T1644, T1643, T1641, T1639)</p> <p>According to tree inspection records from Jan 2013 to May 2013 confirmed by RSS (Document Ref: CI-F1-043b, CI-F1-044b, CI-F1-045b, CI-F1-046b, CI-F1-047b), the affected tree (T1712) at the concerned planter area was considered to show sign of withering and considered to be in poor health condition in latest tree survey report confirmed by RSS.</p> <p>During the follow-up inspection on 10 June 2013, It was observed that construction material and oil drum were</p>	



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					<p>placed near the the roots area of other trees within the CEDD works. Despite the above observation, no direct evidence was found on site which indicates the work front have contributed to the poor health condition of the affected tree (T1712) at the time of investigation.</p> <p>4) The relevant contractor have removed the construction material near the root area of the trees retained on site and conduct pruning to remove the withered and yellow leaves retained on tree trunk to minimize impact on the trees appearance.In addition, safety supporting wire was provided for concerned tree (T1712)</p> <p>5) ET recommended the contractor to keep in view the health condition of the concerned tree (T1712) and apply permission for tree felling together with tree compensation plan if considered necessary. Furthermore, the contractor was reminded to implement regular checking of tree health condition and regular removal of withered leaves to maintain the overall tree appearance.</p>	
130611	30 May 2013	EPD Ref.:H04/RS/0001	Area near Central Pier	1. Noise was emanated from the construction site near	1) RSS notify ET on 11 June 2013 2) ET confirmed with the Resident Site Staff that	Interim report submitted to



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	and 1 June 2013	1587-13		the Central Piers at around 0900 hrs on 30 May 2013 and other days and requested follow up action by relevant department.	<p>According the information confirmed by RSS, major noise generating construction activities undertaken at works area near Central Pier during the concerned time include</p> <ul style="list-style-type: none"> <li>- Breaking up existing D-wall concrete and excavation at portion 4B and 4C</li> <li>- Sheet pilling works at Portion VI (Man Kat Street)</li> </ul> <p>3) Total 1 no. of Backhoe with breaker, 1 no. of Backhoe with vibratory hammer and 4 no.s of pneumatic breakers were deployed for the above construction activities.</p> <p>Reviewing the noise monitoring data at monitoring stations (M7e- International Finance Centre Eastern End of Podium and M7w- International Finance Centre Western End of Podium), no limit level exceedances were recorded during routine noise monitoring event on 28 May 2013 and 03 June 2013. As similar construction works activities conducted on 30 May 2013 was continued across the above monitoring period, the noise emanated from the construction activities under Contract HY/2009/18 was considered to complied with the statutory requirement.</p> <p>In addition, weekly environmental site inspection was conducted on 30 May 2013 at around 10:00. According to the inspection record, no particular observation regarding noise impact was recorded and the mitigation measures including erection of temporary noise barrier was observed in place.</p> <p>As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified.</p> <p>4) ET recommend the contractor to review the need of additional noise mitigation measures to further reduce the noise enmated during construction works for pier side public area.</p>	<p>EPD on 19 June 2013,</p> <p>EPD advised no further comment on 5 Aug 2013 and final report for case closing submitted on 6 Aug 2013.</p>
131010	03 Oct 2013	ICC Ref: No.1-467000768	Area between Central Pier and International	Noise and air quality impact was experienced at the area	ET confirmed with the Resident Site Staff that	Closed



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			Finance Centre	located between IFC and Central Pier during peak hours.	<p>1) The major construction activities at the concerned location conducted over the past three months include;</p> <ul style="list-style-type: none"> <li>- Formwork, rebar and concreting</li> <li>- Backfilling</li> <li>- Water-proofing</li> <li>- Scaffolding erection</li> </ul> <p>2) Mitgitation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none"> <li>- Select quiet plant and work methods;</li> <li>- Check plant and equipment for condition;</li> <li>- For use of powered mechanical equipment during restricted hours: Obtain necessary Construction Noise Permit and strictly comply with their conditions;</li> <li>- Frequently spray water to major haul road and stockpiles to suppress dust generation; and</li> <li>- Cover stockpiles with impervious sheets</li> </ul> <p>The construction activities including backfilling, concreting and other assoicated tunnel works were undertaken in the past three months. Having reviewing the monitoring data of the monitoring stations in the vicinity of the concerned location raised by the complainant, namely monitoring station M7e and M7w (Noise Monitoring Station) and MA1e and MA1w (Air Monitoring Station), no action or limit level exceedance was recorded.</p> <p>In addition, mitigations measures including water sparying and erection of noise barrier were observed during weekly site inspection in August and September 2013 and reminders on dust mitigations measures given during weekly site inspection to the contractor were rectified. As such, the construction activities under Contract HY/2009/18 were considered in compliance with the statutory requirement and no cumulative air/ noise quality quality impact was observed in the past three months.</p> <p>Elevated noise level at monitoring station M7e (International Finance Centre East Podium) was noted</p>	



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					on 24 September 2013. The Contractor is recommended to review the current measures and to implement additional noise mitigation measures to further avoid potential impact to nearby public area during construction works.	
131217	16 Dec 2013	ICC Case Ref.: 1-484998552	Victoria Park near Hing Fat Street Exit	Sweeping of muddy water into public drains.	<p>ET confirmed with the Resident Site Staff that</p> <p>1)The major construction activities around the concerned location conducted on 16 Dec 2013 a.m.includes: -Preparation work of rootball for tree transplanting</p> <p>According to the information provided by RSS, the construction activities around the concerned location on 16 Dec 2013 include preparation work of rootball for tree transplanting at Zone 17/18.</p> <p>A further investigation on the complaint was conducted on 19 Dec 2013 during weekly environmental inspection. It was observed that a tree worksarea comprised of mainly loosen soil was located near the concerned location. It was considered that the inclined surface and loosen soil nature of the concerned worksarea could have led to the muddy surface runoff in rain. Deposition of muddy runoff onto nearby public pavement outside worksarea was hence resulted and was subsequently cleaned into nearby public stormwater drain by the Contractor's workers on the complaint date. As such, the case was considered as works related.</p> <p>Sandbags, geotextile and gravels were immediately placed by the Contractor around the gullies at the concerned location to prevent leftover muddy runoff to the public stormwater drain as observed during the weekly inspection on 19 Dec 2013.</p> <p>With respect to the follow-up raised by the complainant on 19 Dec 2013, sandbags, geotextile and gravels placed at gullies located at public area were removed by the Contractor on the same day for maintaining passible public pavement. Follow up measures including sandbag bundle and covering of worksarea with impervious sheeting was immediately placed at the source of impact at the concerned worksarea boundary by the Contractor.</p>	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.
131224	24 Dec 2013	(ICC Case Ref.:	Victoria Park Children	Odour and large amount of	ET confirmed with the Resident Site Staff that	Case closed





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		1-486434321	Playground	dust particles affecting the public user of the Victoria Park near Children playground	<p>1) The major construction activities around the concerned location conducted on 24 Dec 2013 include:</p> <ul style="list-style-type: none"> <li>- Breaking up existing pillar box for new children playground Portion II</li> <li>- Pressing of sheet pile at bowling green for ELS works Portion XII</li> <li>- Welding work for preparation of sheetpiling work at bowling green Portion VI</li> <li>- Demolition of existing pavilion for bowling green Portion VI</li> <li>-Felling of tree TA50 at Victoria Park Zone</li> </ul> <p>2) Mitigation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none"> <li>-Water spraying for demolition and other dust generating works.</li> </ul> <p>According to the relevant site records, breaking up of existing pillar box, pressing of sheet pile, welding work for preparation of sheetpiling demolition of existing pavilion and felling of tree TA50 at Victoria Park Zone 13 were conducted at the concerned location during the time of complaint.</p> <p>Based on information and photo record provided by the RSS, dust mitigation measures including water spraying during dust generating works were implemented by the Contractor at the concerned location on 24 Dec 2013.</p> <p>Follow-up investigation was conducted on 27 Dec 2013 during weekly environmental inspection, dust mitigation measures including water spraying to dusty area and major dust generation works were confirmed in place despite a general reminder was given to the contractor to enhance the water spraying to dusty haul road during dry season. Based on on-going site inspection and the follow-up investigation, the site condition was considered generally satisfactory and no non-conformance was identified.</p> <p>Upon further review on the supplementary information provided by the complainant on 31 Dec 2013 and investigation conducted on 2 Jan 2014, the tree felling work of tree TA50 was located nearest to the location of the complainant. According to the location plan provided by the RSS and on site investigation, the tree felling work for TA50 was immediately in front of the location of the</p>	and full investigation report issued on 3 Jan 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>complainant. Based on site observation, scrap material of bark and leaves inevitably generated from cutting of branches during tree felling work was considered to be the most probable cause for the observation raised by the complainant at the concerned location on 24 Dec 2013.</p> <p>Furthermore, welding work was observed near the concerned location and was considered to be the potential source for the smell and exhaust fumes as described by the complainant. Notwithstanding the above, welding work was not identified as a work activity with air quality impact under Project EIA report but it would be desirable to implement preventive measures to minimize potential nuisance to nearby public.</p>	
140123	22 Jan 2014	ICC Case Ref.:1-494077682	Causeway Bay Typhoon Shelter	<p>Construction works have been undertaken during restricted hours until 2300 hrs and occasionally the working hours were extended to around 0100 hrs at nighttime period over the last two to three months at a construction site located within Causeway Bay Typhoon Shelter. For instance, concreting and excavation works were conducted at the concerned location on 22 Jan 2014 during nighttime hours and generated noise impact to the complainant.</p>	<p>ET confirmed with the Resident Site Staff that No construction activity was undertaken at workzone TS1 under HY/2009/15 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. No construction activity was undertaken at workzone TS3 under HY/2010/08 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 1900 to 0000 hrs on 21 Jan 2014; Total 8 no.s of concrete lorry mixers, 1 no. of water pump, 2 no.s of concrete pumps (lorry mounted), 1 no. of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating from 1900 to 0000hrs on 21 Jan 2014.</p> <p>Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 0000 to 0700 hrs on 22 Jan 2014;</p> <p>Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were operating from 1900 to 0000hrs on 22 Jan 2014</p> <p>According to the relevant site records, from 1900-</p>	Case closed and full investigation report issued on 4 Feb 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>0000hrs on 21 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 8 no.s of concrete lorry mixers, 1 no. of water pump, 2 no.s of concrete pumps (lorry mounted), 1 no. of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating at the above period.</p> <p>From 0000 to 0700 hrs on 22 Jan 2014, concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were found operating at the above period.</p> <p>After reviewing relevant photo records and information verified by RSS and the Construction Noise Permit (CNP) no.GW-RS1384-13, it was considered that several conditions of CNP GW-RS1384-13 were not fulfilled by the Contractor in particular for the item(s) below,</p> <p>No acoustic installation was provided for the relevant PME(s) used as stated in CNP condition 3.d.during the concerned concreting works.</p> <p>From 1900 to 2300 hours on 21 Jan 2014, the PME(s) used on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13.</p> <p>From 0000 to 0700 hours on 22 Jan 2014, the PME(s) used by the Contractor on-site did not comply with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in CNP no.GW-RS1384-13.</p> <p>From 1900 to 2300 hours on 21 Jan 2014 and from 0000 to 0700 hours on 22 Jan 2014, PME (Concrete Lorry Mixer) was deployed by the Contractor without barge enclosure and was unable to comply with condition 3.a. in CNP no.GW-RS1384-13.</p>	
140127	24 Jan 2014	ICC Case Ref.: 1-494612639	Works area adjacent to	Noise generated from piling works conducted at the works	ET confirmed with the Resident Site Staff that The major construction activities around the concerned	Case closed and full



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
			the Victoria Park Bowling Green	area adjacent to the Victoria Park Bowling Green have created nuisance to the Bowling Green users.	<p>location conducted on 23 Jan 2014 include:</p> <p>Pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works on 23 Jan 2014.</p> <p>Splicing of sheetpile Ch.275-285 (LHS) for ELS works on 23 Jan 2014.</p> <p>Mitigation measures implemented by the Contractor for the above construction works include:</p> <p>Installation of acoustic panels along hoarding line at East Bowling Green;</p> <p>Installation of addition noise barriers on top of hoarding at East Bowling Green;</p> <p>Display of publicity notices along hoarding line; and</p> <p>No noisy work shall be carried out at the areas adjoining East Bowling Green as if there is any Bowling Green competition event to be held (i.e. Saturday afternoon).</p> <p>According to relevant site records, pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works and splicing of sheetpile Ch.275-285 (LHS) for ELS works were conducted at the concerned location during the time of complaint.</p> <p>Based on the photo records and information verified by RSS, noise mitigation measures including installation of acoustic panels along hoarding line at East Bowling Green and installation of addition noise barriers on top of hoarding at East Bowling Green were implemented by the Contractor at the concerned location. Furthermore, no noisy work was conducted by contractor at the areas adjoining East Bowling Green when there is any Bowling Green competition event to be held.</p> <p>Follow-up investigation was conducted on 29 Jan 2014 during weekly environmental inspection, noise mitigation measures including noise barriers and acoustic panels were confirmed in place and maintained in good condition. According to previous environmental inspections recorded in Jan 2014, no particular observation regarding the noise impact was recorded. As such, no non-conformity was identified.</p>	investigation report issued on 6 Feb 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140311	27 Feb 2014	EPD Complaint Case (Ref:H04/RS/000 4232-14) received by ET on 11 March 2014	Central IFC Area	Excessive noise (from the operation of compressors, other heavy machinery and concrete breaking) was emanated from the construction site near IFC in daytime on 27 Feb 2014.	<p>ET confirmed with the Resident Site Staff that</p> <p>The major construction activities at the concerned location conducted on 27 Feb 2014 (Daytime) include:</p> <p>Backfilling works between north wall and sheetpiles and for roof slab;            Site hoarding removal;            Formwork erection and removal works, falsework erection;            Concrete breaking works at roof slab and base slab and breaking up of existing tunnel corner;            Concreting works for profile barrier inside cut and cover tunnel; and            Rebar fixing works and WVB basement remediation works.</p> <p>Mitigation measures implemented by the Contractor for the above construction works include:</p> <p>Use of quiet plants (air compressor with a Noise Emission Label of 99 dB(A)).</p> <p>According to relevant site records, major noise emanating construction activities conducted around the concerned location on 27 Feb 2014 include concrete breaking works at roof slab and base slab and breaking up of existing tunnel corner and concreting works.</p> <p>Based on information verified by the RSS, noise mitigation measure including utilization of quiet air compressor with noise emission label of 99 dB(A) was implemented by the Contractor on the 27 February 2014 to minimize the potential noise impact.</p> <p>Having reviewed the monitoring data of the monitoring stations in the vicinity of the construction site near IFC, namely noise monitoring stations M7e and M7w, no limit level exceedances were recorded on 24 Feb 2014 and 4 March 2014 and the major concrete breaking works at the concerned location conducted on 27 February 2014 was continued across the above monitoring period. In addition, no particular observations regarding noise</p>	<p>Interim report submitted to EPD on 18 March 2014,</p> <p>EPD advised no further comment on 26 March 2014 and final report for case closing issued on 26 March 2014</p>



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					<p>impact were recorded during weekly site inspection conducted on 27 Feb 2014. No non-conformity was identified. As such, the construction activities under Contract HY/2009/18 were considered generally in compliance with the statutory requirement.</p> <p>Nevertheless, in view of the concern regarding noise nuisance raised by public, it is considered desirable for the Contractor to review and strengthen the noise mitigation measures around the concerned location.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 13 March 2014, additional noise mitigation measure including erection of noise blanket for concrete breaking works were implemented by the Contractor to further minimize the noise nuisance to nearby public</p>	
140623	11 June 2014	EPD Complaint Case (Ref:H04/RS/000 13590-14) received by ET on 23 June 2014	Foot Bridge to Central Pier 7	Excessive Paint Spray Odour	<p>A public complaint regarding odour concern referred by EPD was received by ET on 23 June 2014.</p> <p>The complainant reported that excessive paint spray odour was detected at the foot-bridge to the Central Pier 7.</p> <p>ET confirmed with the Resident Site Staff that spraying of waterproofing membrane (integritank) from Ch1700 to Ch1705 was conducted at roof slab Bay12 on 11 June 2014 and</p> <p>Screeding concrete placing from Ch1700 to Ch1683 was conducted at roof slab Bay12 on 11 June 2014 and</p> <p>Backfilling and removal of concrete blocks was conducted at roof slab Bay 11 and Bay 10-north on 11 June 2014</p> <p>According to relevant site records, major construction activities conducted around the concerned location on 11 June 2014 include spraying of waterproofing membrane (integritank) from Ch1700 to Ch1705; screeding concrete placing from Ch1700 to Ch1683 and backfilling and removal of concrete blocks. Having reviewed the relevant information verified by RSS, the chemicals applied at the concerned area on 11 June 2014 are waterproof paint</p>	<p>Preliminary report issued on 25 June 2014.</p> <p>Interim report submitted to EPD on 30 June 2014.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>and paint adhesives.</p> <p>In view of the concern regarding odour nuisance raised by the public, it is considered desirable for the Contractor to review the application method for waterproof layer nearby public area to minimize the nuisance caused to the surroundings.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 26 June 2014, no further spraying works was conducted by the Contractor at the concerned area and no particular odour was observed at the concerned location.</p>	
20140723	21 July 2014	ICC complaint (ICC Case Ref.: 2-341537112) received by ET on 23 July 2014	Area opposite to Ngan Tao Building	Noise nuisance due to works and machine at opposite project site during nighttime	<p>A public complaint regarding construction noise impact referred by RSS was received by ET on 25 July 2014 (ICC Case Ref.: 2-341537112 dated 21 July 2014). The complainant reported that :</p> <p>At 00:57hrs on 21 July 2014, he could not sleep due to work and machine at the project site opposite to the building (Ngan Tao Building), where he was living, were still going on and in operation. Noise traveled to his flat despite it was some distance away.</p> <p>ET confirmed with the Resident Site Staff that dewatering works was conducted under HY/2009/19 at the works area at Watson Road from around 23:00hrs on 20 July 2014 to 01:00hrs on 21 July 2014. Total 1 no. of generator and 23 nos. of dewatering pumps were in operation. Mobilization of telescopic arm excavator to trailer truck was performed under HY/2009/19 at the works area at Watson Road from around 00:15hrs to 01:00hrs on 21 July 2014. Total 1 no. of telescopic arm excavator and 1 no. of trailer truck were in operation.</p> <p>According to the relevant site records under Contract HY/2009/19, from around 23:00hrs on 20 July 2014 to 01:00hrs on 21 July 2014, dewatering works was conducted under HY/2009/19 at the works area at Watson Road. Total 1 no. of generator and 23 nos. of</p>	<p>Final Investigation report (Issue1) issued on 31 July 2014.</p> <p>Final investigation report (Issue 2) based on further follow-up issued on 12 Aug 2014.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>dewatering pump were in operation at the above period.</p> <p>In addition, mobilization of telescopic arm excavator to trailer truck was performed under HY/2009/19 at the works area at Watson Road from around 00:15hrs to 01:00hrs on 21 July 2014. Total 1 no. of telescopic arm excavator and 1 no. of trailer truck were in operation.</p> <p>After reviewing relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0152-14, it was considered that the below condition of CNP no.GW-RS0152-14 was not fulfilled by the Contractor of HY/2009/19.</p> <p>From 00:15hrs to 01:00hrs on 21 July 2014, the PME(s) (1 no. of telescopic arm excavator and 1 no. of trailer truck) operated under the Contractor of HY/2009/19 on-site could not follow any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no.GW-RS0152-14.</p> <p>Notwithstanding the above, according to the information provided by the RSS, the telescopic arm excavator was mobilized at night time hours with consideration that passage of vehicle with large plant &amp; machinery through cross harbour tunnel shall be conducted after mid-night.</p> <p>the Contractor of HY/2009/19 was advised to review the need to renew relevant CNP for PME grouping with respect to specific site operation requirements such that the Construction Noise Permit would be followed.</p> <p>Furthermore, the Contractor of HY/2009/19 was suggested to review the arrangement for PME mobilization with maintenance need to be conducted within specific period allowed under the relevant CNP(s).</p>	
20140801	30 July 2014	ICC complaint (ICC Case Ref.: 2-360638977) received by ET on 01 August 2014	Area opposite to Harbour Heights	Noise of sand and gravel movements at area opposite to the Harbour Heights	A public complaint regarding construction noise impact referred by RSS was received by ET on 01 Aug 2014 (ICC Case Ref.: 2-360638977 dated 31 July 2014). The complainant reported that at 01:20hrs on 30 July 2014, the complainant was woken up by the noise of sand and gravel movements at area opposite to the Harbour Heights.	Final investigation report issued on 12 Aug 2014.





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					<p>ET confirmed with the Resident Site Staff that EVB excavation was undertaken at the works area around Watson Road under HY/2009/19 before 23:00hrs on 29 July 2014. (Total 1 no. of excavator, 1 no. of dump truck, 23 nos. of underground dewatering pump and 3 nos. of generator were in operation).</p> <p>Dewatering works was undertaken at works area around Watson Road under HY/2009/19 from 23:00hrs on 29 July 2104 to 01:00 hrs on 30 July 2014. (Total 23 nos. of underground dewatering pumps and 1 no. of generator were in operation).</p> <p>Mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. (1 no. of excavation machine and 1 no. of dump truck were in operation). No other construction activity or operation was performed at the area opposite to Harbour Heights from 23:00hrs on 29 July 2014 to 01:00hrs on 30 July 2014 under HY/2009/19.</p> <p>According to the relevant site records, before 2300hrs on 29 July 2014, EVB excavation at the works area around Watson Road was conducted under HY/2009/19. (Total 1 no. of dump truck , 1 no. of excavator, 3 nos. of generators and 23 nos. of dewatering pumps were in operation at the above period).</p> <p>From around 23:00hrs on 29 July 2014 to 01:00hrs on 30 July 2014, dewatering works at works area around Watson Road was conducted under HY/2009/19. Total 23 nos. of dewatering pumps were operating at the above period.</p> <p>In addition, mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. Total 1 no. of excavation machine and 1 no. of dump truck were in operation. After reviewing relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0152-14, it was considered the below condition of CNP GW-RS0152-14 was not fulfilled by the Contractor of HY/2009/19. From around 00:45hrs</p>	



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					<p>to 01:30hrs on 30 July 2014, the operation of PME(s) (1 no. of excavator and 1 no. of dump truck) under the Contractor of HY/2009/19 on-site could not follow any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no.GW-RS0152-14.</p> <p>Notwithstanding the above, according to the information provided by the RSS, the excavator and dump truck were mobilized away from the edge of the temporary ELS structure towards the area opposite to the Harbour Heights after 23:00hrs under safety consideration.</p> <p>The Contractor of HY/2009/19 was advised to review the arrangement and location for retaining and securing PME(s)/ plants to minimize the movements of PME or plants after completion of works such that the Construction Noise Permit would be followed.</p>	
20140929	26 Sep 2014	ICC complaint (ICC Case Ref.: 2-466911619) received by ET on 29 September 2014	IEC flyover opposite to City Garden	Light originating from the flyover under Central-WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance	<p>A public complaint regarding visual impact referred by RSS was received by ET on 29 September 2014 (ICC Case Ref.: 2-466911619 dated 26 September 2014)</p> <p>The complainant reported that on 26 September 2014 at around 00:50hrs, light originating from the flyover under Central-WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance.</p> <p>ET confirmed with the Resident Site Staff that the light emission on 25 and 26 September 2014 at the concerned area was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014.</p> <p>According to the relevant information provided by RSS, the light emission on 25 and 26 September 2014 at the concerned location was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor Eastbound.</p>	Final Investigation report submitted on 9 October 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>The lighting was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings. Further to the interim measure implemented by the Contractor of HY/2009/19, the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p> <p>The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable.</p> <p>Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings and the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p>	



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20141006	25,26 Sep 2014	ICC complaint (ICC Case Ref.: 2-469099657) received by ET on 06 October 2014	IEC flyover opposite to City Garden	Light originating from the flyover under Central-WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance	<p>A public complaint regarding visual impact referred by RSS was received by ET on 6 October 2014 (ICC Case Ref.: 2-469099657 dated 26 September 2014). The complainant reported that on 25 September 2014 night and on 26 September 2014 at around 23:23 hrs, light originating from the flyover under Central-Wan Chai Bypass Project was emitted towards City Garden direction and caused light nuisance.</p> <p>ET confirmed with the Resident Site Staff that the light emission on 25 and 26 September 2014 at the concerned area was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014.</p> <p>According to the relevant information provided by RSS, the light emission on 25 and 26 September 2014 at the concerned location was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor Eastbound.</p> <p>The lighting was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at</p>	Final Investigation report submitted on 9 October 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>the concerned area as interim measure to minimize the nuisance caused to the surroundings. Further to the interim measure implemented by the Contractor of HY/2009/19, the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p> <p>The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable.</p> <p>Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings and the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p>	
20141010	07 Oct 2014	ICC complaint (ICC Case Ref.: 2-487376144) received by ET on 10 October 2014	IEC flyover opposite to City Garden	Light originating from the flyover under Central-WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance	<p>ET confirmed with the Resident Site Staff that temporary lighting was provided at the concerned area at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014.</p> <p>Temporary lighting was provided at the concerned area at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014. In view of the public concern regarding light nuisance raised by the public, it</p>	Final investigation report submitted on 14 Oct 2014.



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					<p>is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.</p> <p>During weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings. Further to the interim measure implemented, on 13 October 2014 the Contractor of HY/2009/19 have replaced the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p> <p>The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable.</p> <p>Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure and on 13 October 2014 the Contractor of HY/2009/19 have replaced the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p>	
141016	14 Oct 2014	EPD complaint EPD Ref.:H05/RS/0002 5795-14) received by ET on 16 October 2014	work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	<p>A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014).</p> <p>The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai</p>	Updated interim investigation with supplementary information submitted to EPD on 17 November



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Ferry Pier and opposite to Wan Chai Sports Ground.</p> <p>ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.</p> <p>Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.</p> <p>From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.</p> <p>Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.</p> <p>From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.</p> <p>Total one scissor platform and two hand held drills (battery) were in operation.</p> <p>From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.</p> <p>According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.</p> <p>From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was</p>	<p>2014.</p> <p>EPD advised no further comment on the updated interim report and case closed on 27 Nov 2014.</p>



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					<p>implemented by the Contractor of HK/2009/02.</p> <p>From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.</p> <p>From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.</p> <p>In view of the above findings, no direct information associated with the noise concern was considered available.</p>	
20141108	07 Nov 2014	EPD complaint (EPD Ref.: H05/RS/0002781 5-14) received by ET on 10 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	<p>A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014).</p> <p>The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.</p> <p>ET confirmed with the Resident Site Staff that ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool).</p> <p>Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated.</p> <p>Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier.</p> <p>Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.</p> <p>Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)</p> <p>Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated.</p> <p>According to the relevant site records under Contract</p>	<p>Interim investigation report submitted to EPD on 17 November 2014.</p> <p>EPD advised no comment on the interim report and case closed on 1 Dec 2014.</p>





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					<p>HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on-site. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.</p> <p>Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site</p> <p>The interim report would be submitted to EPD on 17 November 2014.</p>	
20141113	12 Nov 2014	EPD complaint (EPD Ref.: H05/RS/0002825 3-14) received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	<p>A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported that Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02)</p> <p>ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated.</p> <p>According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12</p>	<p>Interim investigation report submitted to EPD on 19 November 2014.</p> <p>EPD advised no comment on the interim report and case closed on 8 Dec 2014.</p>



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					<p>November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated.</p> <p>In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on-site and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.</p>	
20150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	<p>A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.</p> <p>ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW; reclamation/backfilling works at TPCWAW</p> <p>Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works</p> <p>According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and</p>	Interim report submitted to EPD on 9 February 2015, EPD advised no comment on 27 February 2015 on the interim report submitted and case closed.



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					<p>drilling works and reclamation/ backfilling works were conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.</p> <p>Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.</p> <p>In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a , no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.</p> <p>As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.</p> <p>ET confirmed with the Resident Site Staff that the major construction activities under Contract HK/2009/02 around the concerned location conducted on 21 January 2015 include trenching grabbing for D-wall construction at temporary road eastward, shear pin installation at temporary road westward and ground investigation drilling at temporary road westward</p>	



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					<p>Mitigation measures implemented by the Contractor of HK/2009/02 for the above construction works include regular water spraying at haul road, vehicle wheel-washing at the ingress/egress (Gate No. 4) to the temporary road, hard paving at the works area at temporary road northward and frequent water spraying at the ingress/egress (Gate No. 4) to the temporary road.</p> <p>According to the relevant site records, trenching grabbing for D-wall construction, shear pin installation and ground investigation drilling works were conducted at the concerned location. Dust mitigation measures including water spraying for haul road, vehicle wheel washing and hard paving for a section of works area nearby public road were implemented by the Contractor of HK/2009/02 near the concerned location on 21 January 2015.</p> <p>Follow-up investigation was conducted on 5 February 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works and provision of wheel washing combine with cleaning of public road were confirmed in place and no dust related impact from the construction works was observed. The Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on 21 January 2015 was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants. Based on reviewing relevant impact monitoring data, elevated TSP were recorded at monitoring stations across Wan Chai West area to North Point area and a non-Project related exceedance was recorded at nearby monitoring station CMA4a (at SPCA) on 21 January 2015 due to ambient air pollutant.</p> <p>In addition, it was noted that a section of the works area at the concerned location was not provided with site hoarding. Based on further review on relevant records it was noted that the works area at concerned section was either hard paved or have to maintain adequate line of sight due to traffic safety consideration. The Contractor of HK/2009/02 was advised to inform EPD with respect to the site constraint and provide relevant updated meeting records on the arrangement for review.</p>	



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					In view of the public concern, the contractor has committed to conduct additional cleaning of the concerned public road section once a week to minimize potential nuisance caused to nearby road users. The contractor was also reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	
20150409	07 April 2015 09 April 2015	EPD complaint (Ref.:H05/RS/0008074-15 dated 9 April 2015) received by ET on 09 April 2015	Construction site exit near Expo Drive Central; Construction site gate V2 & gate V8	Construction dust was generated from lorries transporting out of the construction via site exit without wheel washing	<p>A public complaint regarding construction dust impact referred by EPD was received by ET on 09 April 2015 (EPD Ref.:H05/RS/0008074-15 dated 9 April 2015). The complainant reported that: Construction dust was generated from lorries transporting out of the construction via site exit near Expo Drive Central without wheel washing at the morning of 7 April 2015. Lorries were also found transporting out of the construction site via gates V2 and V8 without wheel washing and causing dust nuisance at about 10:30 hours on 9 April 2015.</p> <p>ET confirmed with the Resident Site Staff that on 7 April 2015, major vehicle movements included oil tanker passing at Gate V2 at Expo Drive East and dump truck passing at Gate V8 at Expo Drive Central under Contract HK/2009/01.</p> <p>2. On 9 April 2015, major vehicle movements include oil tanker, crane lorry and dump truck passing at at Gate V2 at Expo Drive East and dump truck at Gate V8 at Expo Drive Central under Contract HK/2009/01.</p> <p>Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include water hose was provided for wheel washing at Gate V2 and Gate V8, concrete paving at site exit, dump truck fitted with mechanic cover and cleaned before leaving construction site, regular street washing at Expo Drive Central.</p> <p>According to the relevant site records under Contract HK/2009/01, on 7 April 2015, major vehicle movements included oil tanker passing at Gate V2 at Expo Drive East and dump truck passing at Gate V8 at Expo Drive Central</p>	Interim report submitted to EPD on 17 April 2015, EPD advised no comment on 30 April 2015 on the interim report submitted and case closed.



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					<p>under Contract HK/2009/01 while on 9 April 2015 major vehicle movements include oil tanker, crane lorry and dump truck passing at at Gate V2 at Expo Drive East and dump truck at Gate V8 at Expo Drive Central under Contract HK/2009/01.</p> <p>At the above locations, mitigation measures including water hose for wheel washing at Gate V2 and Gate V8; concrete paving at site exit; dump truck fitted with mechanic cover and cleaned before leaving construction site and regular street washing at Expo Drive Central were generally adopted by the Contractor of HK/2009/01.</p> <p>In view of the public concern on the complaint date, the Contractor of HK/2009/01 was advised to conduct cleaning at the concerned site exit point and the section of public road adjoining the site exit to clear any residue grit and silt deposit to avoid further dust impact. Follow up inspection was conducted on 16 April 2015 during weekly environmental inspection and mitigation measures including water spraying for dusty haul road and provision of wheel washing were in place. The construction site exit was observed clear from residue silt / grit at the concerned location.</p> <p>In view of the public concern, the contractor was advised to conduct training to the construction site workers to enhance the effectiveness of wheel washing and to ensure proper wheel washing is provided for dump truck and other vehicle prior to leaving the construction site to avoid generating any dust nuisance.</p>	
20150409A	03 April 2015 to 07 April 2015	EPD complaint (Ref.:H05/RS/0007861-15 dated 9 April 2015) received by ET on 09 April 2015	Construction site at Convention Avenue near Renaissance Harbour View Hotel	Construction noise was emanated from the construction site at Convention Avenue near Renaissance Harbour View Hotel during the period of Easter Holiday	A public complaint regarding construction noise impact referred by EPD was received by ET on 09 April 2015 (EPD Ref.:H05/RS/0007861-15 dated 9 April 2015). The complainant reported that construction noise was emanated from the construction site at Convention Avenue near Renaissance Harbour View Hotel during the period of Easter Holiday, including April 3 at about 13:00 hours. ET confirmed with the Resident Site Staff that from 3 April 2015 to 7 April 2015, from 08:00 hours to 18:00 hours, and	Interim report submitted to EPD on 17 April 2015, EPD advised no comment on 30 April 2015 on the interim report



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					<p>at about 13:00 hours on 3 April 2015 at area CWB Tunnel Stage 3, backfilling works was conducted under HK/2009/01. Either 1 no. of dump truck and 1. no. of excavator was operated on site at each given time during the concerned period.</p> <p>According to the relevant site records under Contract HK/2009/01, from across 08:00hrs to 18:00hrs during the period from 3 April 2015 to 7 April 2015, backfilling works was conducted under Contract HK/2009/01 at CWB Tunnel Stage 3. Either 1 no. of dump truck and 1 no. of excavator was operated on site at each given time during the concerned period and the relevant Construction Noise Permit GW-RS0104-15 for the works was in place and the same construction activity was undertaken at around 13:00hrs on 3 April 2015.</p> <p>No other concurrent construction activity was undertaken at the concerned location during the concerned period under Contract HK/2009/01. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement.</p> <p>Nevertheless, in view of the concern regarding the noise nuisance raised by the public at the concerned location, it is considered desirable for the Contractor of HK/2009/01 to review the truck unloading procedures of the specific construction task to minimize potential noise emanated during the course for work.</p>	submitted and case closed.
20150415	13 April 2015	ICC complaint case (ICC Case Ref.: 2-885677297 dated 13 April 2015) received by ET on 15 April 2015	Construction Site at Causeway Bay Typhoon Bay Shelter	Unnecessary light nuisance from the construction site	<p>A public complaint regarding visual impact received by the RSS was referred to the ET on 15 April 2015 (ICC Case Ref.: 2-885677297 dated 13 April 2015). The complainant reported that " I live in a building next to Gloucester Road in Causeway Bay. Recently, I am suffering from unnecessary light source from the construction site. The banners of the construction companies are always illuminated with very bright lights."</p> <p>ET confirmed with the Resident Site Staff that the concerned lighting for the banners was maintained under Contract HY/2010/08.</p> <p>The concerned lighting for the banners was maintained</p>	Final Investigation report issued on 20 April 2015 and case closed



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					under Contract HY/2010/08 and the concerned lighting was subsequently switched off at all times since 13 April 2015 to alleviate the lighting nuisance caused to the surroundings.	
20150423	21 April 2015	EPD complaint case ( EPD Case Ref: :H05/RS/0009456-15 dated 23 April 2015) received by ET on 23 April 2015	Road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel	Construction noise emanated from the road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel causing nuisance	<p>A public complaint regarding construction noise impact referred by EPD was received by ET on 23 April 2015 (EPD Ref.:H05/RS/00009456-15 dated 23 April 2015). The complainant reported that construction noise emanated from the road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel almost every night recently causing nuisance.</p> <p>ET confirmed with the Resident Site Staff that from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation.</p> <p>According to the relevant site records under Contract HK/2009/01, from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation during the concerned period and the relevant Construction Noise Permit GW-RS0269-15 was confirmed in place. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement. In view of the potential noise nuisance, a notice to affected parties was issued by the Contractor of Contract HK/2009/01 to the nearby residents including Renaissance Harbour View Hotel on 17 April 2015. Besides, construction works undertaken by other parties at the concerned location was observed at the concerned period.</p>	Final Investigation report issued on 18 May 2015 and case closed
20150601	29 May 2015	EPD complaint case (EPD Case	Construction site gates V2 and V3 near Expo Drive Central	Vehicle with plate no. TG2426 was found leaving the construction site at gate V2	A public complaint regarding construction dust impact referred by EPD was received by ET on 01 June 2015 (EPD Ref.:H05/RS/00013254-15 dated 1 June 2015).	Interim report submitted to EPD on 08





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		Ref: :H05/RS/0013254-15 dated 1 June 2015) received by ET on 23 April 2015		near Expo Drive Central without wheel-washed	<p>The complainant reported that vehicle with plate no. TG2426 was found leaving the construction site at gate V2 near Expo Drive Central without wheel-washed at about 10:33hrs on 29 May 2015. The complainant also alleged that water spraying at the gates V2 and V3 near Expo Drive Central was insufficient causing dust nuisance to the public.</p> <p>ET confirmed with the Resident Site Staff that on 29 May 2015, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3.</p> <p>Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include, water hose was provided for wheel washing at Gate V2 and Gate V3.</p> <p>According to the relevant site records under Contract HK/2009/01, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3 on 29 May 2015 under Contract HK/2009/01. As confirmed by WDII RSS, the concerned construction site Gate V2 and Gate V3 have been closed from 31 May 2015 and formed part of the construction site area.</p> <p>Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were implemented at construction exit gates around the concerned location despite a vehicle was observed leaving the construction site via Gate V8 without wheel washing. The Contractor was immediately advised to review and strengthen the control measures for vehicle exits to ensure wheel washing are provided for exiting vehicles.</p> <p>In view of the public concern and the site observation, the Contractor of HK/2009/01 has implemented enhanced site exit control measures using red string to alert drivers to stop their vehicles for cleaning before leaving the construction site and wheel washing facilities including water hose were implemented at Gate V1 and Gate V10 around the concerned location and the vehicle gate V8 was subsequently closed. In addition, removal of spoil arising from wheel washing around site exit location would be conducted by the Contractor of HK/2009/01 as appropriate to alleviate for potential dust impact at</p>	June 2015, EPD advised no comment on 22 June 2015 on the interim report submitted and case closed.



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					construction site exits.	
20150608	04 June 2015	EPD Ref.:H05/RS/00 013843-15 dated 8 June 2015	A portion of construction site of Contract HK/2012/08 outside Fleet Arcade	Construction noise was generated from the construction site of Contract HK/2012/08 at location outside Fleet Arcade during restricted hours including Sundays and General Holidays.	<p>A public complaint regarding construction noise impact referred by EPD was received by ET on 8 June 2015 (EPD Ref.:H05/RS/00013843-15 dated 8 June 2015). The complainant reported that construction noise was generated from the construction site of Contract HK/2012/08 at location outside Fleet Arcade during restricted hours including Sundays and General Holidays.</p> <p>ET confirmed with the Resident Site Staff that from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 at site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation.</p> <p>According to the relevant site records under Contract HK/2012/08, from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation and the relevant Construction Noise Permit GW-RS0296-15 was confirmed in place. The construction activity conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement. Ad-hoc inspection was conducted during weekly environmental inspection on 9 June 2015 and it was noted that Construction Noise Permits under Contract HK/2012/08 were posted at site entrance locations for public inspection.</p> <p>In view of the potential noise nuisance, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance. Besides, other construction sites at the concerned location were observed.</p> <p>Furthermore, a meeting was held on 15 June 2015 between the EPD, Contractor of HK/2012/08, WDII RSS team and the Environmental Team on the public concern and the Contractor of HK/2012/08 has committed to review the re-application for the Construction Noise Permits GW-</p>	Interim report submitted to EPD on 16 June 2015 and EPD advised no comment on 20 July 2015 on the interim report submitted and case closed.



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150622	18 June 2015	EPD Ref.:H05/RS/00 015054-15 dated 22 June 2015	A mooring location near shore and at location outside Wan Chai Sports Ground	Dark smoke and malodour emission was observed from a hopper barge moored near shore and other construction plants under operation from the reclamation construction site	<p>RS0223-15 and GW-RS0296-15 on usage of PMEs at a portion of site area outside the Fleet Arcade during public holiday including Sundays to minimize for the potential noise nuisance to nearby public.</p> <p>A public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.</p> <p>ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 &amp; 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 &amp; 4 for transportation of the excavated material away from site.</p> <p>According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 &amp; 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge</p>	Interim report submitted to EPD on 29 June 2015 and EPD advised no comment on 20 July 2015 on the interim report submitted and case closed.



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					<p>was moored under Contract HK/2009/02 near Portions 3 &amp; 4 for transportation of the excavated material from Portions 3 &amp; 4 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 &amp; 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and malodour emission affecting nearby public.</p>	
150714	11 July 2015	ICC Complaint (Ref:#2-1149562777) referred by RSS was received by ET on 14 July 2015	A portion of site area adjacent to Hing Fat Street Site entrance	Direct discharge of muddy effluent into marine waters	<p>A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 July 2015 (ICC Ref.: #2-1149562777). The complainant reported that:</p> <p>Muddy effluent was directly discharged into nearby marine waters by Chun Wo worker. Further information was received by ET from RSS on 23 July 2015 and the complaint date was clarified to be 11 July 2015 and the concerned vehicle registration number shall be JV 7319.</p> <p>ET confirmed with the Resident Site Staff that no construction works was undertaken by the Contractors HY/2009/19 and adjacent Central WanChai Bypass Project construction site at the concerned location on 11 July 2015.</p> <p>No construction works was undertaken by the Contractor of HY/2009/19 and adjacent Central WanChai Bypass Project construction site at the concerned location on 11 July 2015 and the concerned vehicle (License Plate JV 7319 labelled as Chun Wo) was confirmed not belonging to the Contractor of HY/2009/19.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 14 July 2015, no direct</p>	Updated Final investigation report submitted on 27 July 2015.



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					<p>discharge connection was further observed on site. No construction works was undertaken by Central WanChai Bypass Project at the concerned location and no sump pit or works area under Central WanChai Bypass Project associated with potential muddy effluent discharge was identified. In addition, a construction area with excavated pit under WSD Contract 12/WSD/10 was noted at the concerned location behind the alleged vehicle responsible for direct discharge of muddy effluent.</p> <p>Based on the further review on the information received on 23 July 2015, the alleged direct discharge was observed originating from the works area under WSD Contract 12/WSD/10 and not related to the Central Wan Chai Bypass Project construction works.</p>	
150723	20 July 2015	EPD Ref.:H05/RS/00 018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & 722 Bus stop	Malodour from marine sediment	<p>A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015).</p> <p>The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 &amp; 722 bus stop. (Contract HK/2009/02).</p> <p>ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015.</p> <p>According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.</p> <p>Nevertheless, the Contractor was reminded to review the</p>	Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.



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					handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.	
150904	01 Sept 2015	EPD Ref.: H05/RS/000222 41-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during loading of material	<p>A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)</p> <p>ET confirmed with the Resident Site Staff that transferring of C&amp;D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015.</p> <p>Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.</p> <p>According to the relevant site records under Contract HK/2009/02, transferring of C&amp;D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&amp;D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&amp;D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.</p>	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/000223 85-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site.	<p>A public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&amp;D material at the site. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation.</p> <p>From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.</p>	<p>Interim report submitted to EPD on 14 September 2015.</p> <p>2<sup>nd</sup> interim report submitted to EPD on 17 Dec 2015</p> <p>3<sup>rd</sup> interim report submitted to EPD on 31 Dec 2015</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Total one derrick barge was in operation. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.</p> <p>Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.</p> <p>From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.</p> <p>From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken</p>	





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					<p>by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.</p> <p>In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.</p> <p>The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.</p> <p>The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
151117	Not specified	EPD complaint received by ET on 17 Novmeber 2015	Causeway Bay Typhoon Shelter	Improper handling or bentonite and marine sediment generated from construction works and contaminated discharge from water treatment plant into Victoria Harbour	<p>A public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Harbour. The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats. Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill. White or greyish effluent was discharged directly into Victoria Harbour marine waters from wastewater treatment plant on construction site.</p> <p>In response to the complaint concern, additional water quality monitoring from end November 2015 to mid January 2016 until the post-diaphragm wall construction activities and all bentonite silos and residue bentonite slurry at TS3 were completely removed had been undertaken by the Environmental Team and additional site inspections have been conducted by the ET and the investigation findings were included in the interim investigation reports separately submitted to the EPD. In addition, the ET and IEC have conducted checking on the waste disposal records and site construction records with the CWB RSS team to confirm the key construction</p>	<p>Interim investigation report submitted to EPD on 24 November 2015.</p> <p>2<sup>nd</sup> interim investigation report submitted to EPD on 17 December 2015.</p> <p>3<sup>rd</sup> interim investigation report submitted to EPD on 31 December 2015.</p> <p>Final investigation report submitted on 5 February 2016.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>activities during the concerned period and the quantities of inert C&amp;D material disposed.</p> <p>Specific enhancement on site supervision was undertaken by the CWB RSS team to ensure the proper handling of the remaining bentonite slurry in terms of the following: Depth of the bentonite slurry at the primary mixing pit (at south of TS3) was recorded by RSS team daily at regular intervals starting from 22nd December 2015 to record the changes in the level of slurry, particularly before end of works and at the start of works on the next day to confirm no significant change in bentonite slurry level during non-working hours until the complete removal of the mud pit. During the silo dismantling stage, the amount of residue bentonite cleared from the remaining silo was monitored on a daily basis to record the residue bentonite transferred for mixing and final disposal.</p> <p>The Environmental Team will continue to keep in view on the contractor's environmental mitigation measures during routine inspections, with specific attention at the TS3 area on the effectiveness of the contractor's remediation measures and check the implementation of site measures in accordance with the EIA and EM&amp;A Manual recommendations.</p>	
ICC complaint case (ICC Ref: 2-1593165694) dated 26 November	26 Nov 2015	ICC complaint received by ET on 27 November 2015	Construction area outside City Garden Block 11	Noise nuisance due to windblown slapping of a metal sheet onto adjacent barrier at night time	A public complaint regarding noise impact referred by RSS was received by ET on 27 November 2015 (ICC Case Ref.: 2-1593165694 dated 26 November 2015). The complainant reported that noise was emanated from the IECL construction site outside City Garden Block 11 due to the windblown slapping of a metal sheet onto adjacent	Final investigation report to be issued on 01 December 2015.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
2015					<p>barrier causing nuisance to nearby residents at night time.</p> <p>ET confirmed with the Resident Site Staff that the noise nuisance was caused by the windblown action of the corrugated metal sheet loosely affixed onto the temporary noise barrier panel above a concrete block footing fronting City Garden.</p> <p>The noise nuisance was caused by the windblown action of the corrugated metal sheet loosely affixed onto the temporary noise barrier panel above a concrete blocking footing fronting City Garden. The concerned corrugated metal sheet was removed by the Contractor of HY/2009/19 on 27 November 2015 to avoid further generation of noise nuisance.</p> <p>The Contractor was reminded to check and ensure metal sheetings and other material stored within the construction site are properly affixed to avoid potential noise nuisance due to windblown action.</p>	
EPD complaint case (EPD Ref: H04/RS/0028924-15 dated 04 December 2015)	12 November 2015	EPD complaint received by ET on 04 December 2015	Two International Finance Centre at Finance Street, Central	Construction dust generated from construction site near Two International Finance Centre	<p>A public complaint regarding construction dust impact referred by EPD was received by ET on 04 December 2015 (EPD Ref: H04/RS/00028924-15). The complainant reported that excessive construction dust was generated from the construction site near Two International Finance Centre at Finance Street, Central</p> <p>ET confirmed with the Resident Site Staff that bridge works and drains/ sewers construction at the concerned location was undertaken by Contract HY/2009/18 on 12 November 2015. A stockpile which would be reused for</p>	<p>1<sup>st</sup> interim report submitted to EPD on 14 December 2015</p> <p>2<sup>nd</sup> interim report submitted to EPD on 4 January 2016</p> <p>EPD advised no comment on 07</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>backfilling was stored at the concerned location by Contract HY/2009/18 on 12 November 2015.</p> <p>Mitigation measures implemented by the Contractor for the above construction works including covering of idled portion of stockpile and dampening of the exposed stockpile was implemented for the stockpile at the concerned location.</p> <p>According to relevant site records confirmed by RSS, bridge works and drains/ sewers construction at the concerned location was undertaken by Contractor of HY/2009/18 on 12 November 2015 and a stockpile which would be reused for backfilling was stored at the concerned location. Mitigation measures including covering of idled portion of stockpile and dampening of the exposed stockpile was implemented for the stockpile at the concerned location.</p> <p>In view of the public concern on potential dust impact at the concerned location, the Contractor of HY/2009/18 rearranged the works sequence and placed concrete blocks at the bridge retaining wall to allow for early commencement of backfilling on 19 November 2015 to minimize the size of the stockpile at an earlier stage. Additional water sprinklers were installed on 27 November 2015 to further enhance the dampening of the stockpile surface during excavation.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 10 December 2015 and mitigation measures including covering of stockpile stored at the concerned location was implemented while it was observed that stockpiles stored near Man Chiu Street was</p>	January 2015 on the report submitted and case closed.



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					not properly covered. The Contractor of HY/2009/18 was advised to promptly provide covering to all idled stockpile stored on site and the Contractor was reminded to enhance the watering during excavated material handling near the concerned location. Further follow up inspection was conducted on 17 December 2015 and mitigation measures including covering and watering for idle stockpile and material handling were implemented.	
ICC complaint case (ICC Case Ref: 2-1656689815 dated 14 December 2015	14 December 2015	EPD complaint received by ET on 04 December 2015	Construction area outside City Garden Block 10 and Block 11	Incessant noise emanating from the construction site of the Island East Corridor link that forms part of the Central Wanchai Bypass Project	<p>A public complaint regarding noise impact referred by RSS was received by ET on 16 December 2015 (ICC Case Ref.: 2-1656689815 dated 14 December 2015). The complainant reported that:</p> <p>Incessant noise emanating from the construction site of the Island Eastern Corridor Link that forms part of the Central-Wanchai Bypass Project.</p> <p>Over the past couple of weeks, there have been loud mechanical pounding at the construction site over the reclaimed area between Blocks 10 and 11 of City Garden. As can be seen, machines have been breaking open the concrete paved on top of the reclaimed area. Work often starts well before 9am on weekdays and, barring a brief period of lull during lunch hours, would often continue unabated until after 5pm. Although I note that certain noise reduction measures have been put into place (e.g. the erection of flimsy noise barriers around the work area), the noise created is still enormous, and this has become a significant nuisance for residents living in nearby blocks of our estate, especially children and the elderly who have to stay at home for longer hours.</p>	Final report was issued on 23 December 2015 and case closed.



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					<p>ET confirmed with the Resident Site Staff that concreting breaking works was carried out with one breaker on 7, 9, 11, 12 and 14 December 2015 and the breaking works at the concerned location were completed on 14 December 2015 morning. Noise mitigation measures including temporary noise barriers near the point of breaking and covering the breaker with acoustic mat were provided during the concerned concrete breaking works.</p> <p>According to information confirmed by RSS, concreting breaking works was carried out by one excavator mounted breaker on 7, 9, 11, 12 and 14 December 2015 and the concerned breaking works outside City Garden Block 10 and Block 11 was completed on 14 December 2015 morning. Noise mitigation measures including temporary noise barriers near the point of breaking and covering the breaker with acoustic mat were provided during the concerned concrete breaking works. Based on the further review on the record of the environmental inspection conducted on 09 December 2015, the Contractor of HY/2009/19 was reminded to temporary noise barrier provided for the pile cap demolition shall follow the the Environmental Permit EP-364/2009/D requirement. Follow up inspection was conducted during weekly environmental inspection on 17 December 2015, the concerned breaking works opposite to City Garden Block 10 and Block 11 was observed completed while the Contractor was reminded that the remaining section of temporary noise barrier in accordance with the latest Environmental Permit EP-364/2009/D shall be completed on site as soon as possible. According to the information provided by RSS, the temporary noise barrier in</p>	



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					accordance with the Environmental Permit requirement opposite to City Garden was substantially completed on 21 December 2015. In view of the public concern, the Contractor was suggested to consider to review the works duration at daytime and conduct other future breaking works around the concerned location intermittently to minimize the potential noise nuisance caused to the surroundings.	
EPD Ref.: H05/RS/0000570-16 dated 14 January 2016	07 January 2016	EPD complaint received by ET on 14 January 2016	Lung King Street	Operation of powered mechanical equipment at the construction site near Lung King Street after 1900hrs.	<p>A public complaint regarding construction noise referred by EPD was received by ET on 14 January 2016 (EPD Ref.: H05/RS/0000570-16 dated 14 January 2016). The complainant reported that there was operation of powered mechanical equipment at the construction site near Lung King Street after 1900hrs. (Contract HK/2012/08)</p> <p>ET confirmed with the Resident Site Staff that from 1900hrs to 2115hrs on 06 January 2016, shifting of equipment and socket H-pile casing was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one crawler crane was in operation.</p> <p>According to the relevant site records provided by RSS, shifting of equipment and socket H-pile casing was undertaken by the Contractor of HK/2012/08 at the concerned location from 1900hrs to 2115hrs on 06 January 2016. Total one crawler crane was in operation and the relevant Construction Noise Permit GW-RS0976-15 for the concerned operation was confirmed in place.</p> <p>Based on the above, the construction activities conducted under Contract HK/2012/08 on 06 January 2016 after 1900hrs was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction</p>	Interim investigation report submitted to EPD on 22 January 2016. EPD advised on 17 February no comment on the interim report submitted and case closed.





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Noise Permit compliance in view of the nearby public concern.	
ICC complaint case (ICC Ref.: #2-1754682833 and ICC Ref: #2-1759629742	19 January 2016	EPD complaint received by ET on 19 January 2016	Hung Hing Road	Drainage at Hung Hing Road, Causeway Bay near the entrance of Cross Harbour Tunnel was blocked and sewage was overflowing from the sewer.	<p>Two public complaints regarding the subject matter on blocked drainage were referred by RSS was received by ET on 19 January 2016 (ICC Ref.: #2-1754682833 and ICC Ref: #2-1759629742).</p> <p>The first complainant (ICC Ref.: #2-1754682833) on 11 January 2016 reported that the drainage at Hung Hing Road, Causeway Bay near the entrance of Cross Harbour Tunnel was blocked and sewage was overflowing from the sewer.</p> <p>The first complainant on 13 January 2016 enquired the status of follow-up, the complainant reported that the sewage overflow was severe and pose environmental hygiene concern to the surroundings.</p> <p>The first complainant on 14 January 2016 reported that the situation was not improved and would escalate the case if not addressed.</p> <p>The second complainant on 12 January 2016 (ICC Ref: #2-1759629742) reported that a foul sewer was found choking and foul water flows onto the carriageways.</p> <p>ET confirmed with the Resident Site Staff that no discharge point from the Contractor of HY/2009/15 is located within the concern portion of public drain (roadside gully) along Hung Hing Road.</p> <p>The observed yellow pipe extending from the roadside gully at Hung Hing Road into the site area under Contract HY/2009/15 was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016.</p> <p>According to relevant site records and information provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby.</p> <p>Based on relevant site information, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road while the observed yellow pipe extending from the</p>	Final investigation report issued on 27 January 2016



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>roadside gully at Hung Hing Road into Contract HY/2009/15 site area was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016. In view of no discharge point established under Contractor HY/2009/15 was observed at the concerned portion of Hung Hing Road, no direct information indicating the association with the Contractor of HY/2009/15 is considered available.</p> <p>Follow up inspection was conducted during the weekly environmental inspection on 26 January 2016, no further accumulation of wastewater and no particular blockage of the concerned roadside gully at Hung Hing Road was observed. In addition, no overflow from the roadside sewer was observed. Nevertheless, the Contractor of HY/2009/15 was reminded to upkeep the site exit condition to avoid any potential impact to the surroundings.</p>	
EPD complaint case (EPD Case Ref.:H05/RS/00001524-16)	22 January 2016	EPD complaint received by ET on 22 January 2016	Hung Hing Road	Construction wastewater from the China Stat's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water	<p>A public complaint regarding the blockage of public drainage referred by EPD was received by ET on 22 January 2016 (EPD Case Ref.: H05/RS/00001524-16).</p> <p>The complainant reported that construction wastewater from the China State's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water starting from 11 January 2016.</p> <p>ET confirmed with the Resident Site Staff that no construction activities with potential runoff at the main entrance of PRE Office was conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016.</p> <p>Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016.</p> <p>Concreting for construction works at covered Tunnel by using concrete pump at TPCWAE was conducted under Contractor of HY/2009/15 on 13 January 2016 and 16 January 2016.</p> <p>According to relevant site records and information provided by RSS, a steady flow of wastewater,</p>	Interim investigation report submitted to EPD on 01 February 2016. EPD advised on 17 February no comment on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby.</p> <p>Based on relevant site information provided by RSS, no construction activity with potential runoff at the main entrance of PRE Office were conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016 while concreting for seawall reinstatement at TPCWAE were conducted on 12 January 2016 and 18 January 2016 and concreting for construction works at covered Tunnel by using concrete pump at TPCWAE were conducted on 13 January 2016 and 16 January 2016. All construction runoff was pumped to the wastewater treatment facility. In addition, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road.</p> <p>Follow up inspection was conducted during the weekly environmental inspection on 26 January 2016. No further accumulation of wastewater and particular blockage of the concerned roadside gully at Hung Hing Road was observed and no overflow from the roadside sewer was observed. The condition of the construction site exit under HY/2009/15 was generally in order and no particular construction surface runoff was observed. Nevertheless, the Contractor of HY/2009/15 was reminded to upkeep the site exit condition to avoid any potential impact to the surroundings.</p>	
EPD Ref.: H05/RS/00 003169-16 dated 16 February 2016	16 February 2016	EPD complaint received by ET on 16 February 2016	West of HKCEC	Construction work at construction site of CEDD Wan Chai Development Phase II reclamation project around 2200hrs	<p>A public complaint regarding construction works at restricted hours referred by EPD was received by ET on 16 February 2016 (EPD Ref.:H05/RS/00003169-16 dated 16 February 2016). The complainant reported that:</p> <p>There was construction work at construction site of CEDD Wan Chai Development Phase II reclamation project around 2200hrs on 06 February 2016 at the west of HKCEC within the work area of Contract HK/2012/08.</p> <p>ET confirmed with the Resident Site Staff that from</p>	Interim investigation report submitted to EPD on 23 February 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>1900hrs to 2300hrs on 06 February 2016, no site activity was undertaken by the Contractor of HK/2012/08 at the concerned location and site activities under the Contractor of HK/2012/08 at the concerned area were stopped around 1700hrs on 06 February 2016.</p> <p>According to the relevant site records provided by RSS, from 1900hrs to 2300hrs on 06 February 2016, no site activity was undertaken by the Contractor of HK/2012/08 at the concerned location and site activities under the Contractor of HK/2012/08 at the concerned area were stopped around 1700hrs on 06 February 2016.</p> <p>Nevertheless, the Contractor was reminded to upkeep the site control system for any construction works carried out during restricted hours and night time for Construction Noise Permit compliance.</p>	
ICC Ref.: CASE#2-193863740 3 dated 01 March 2016	01 March 2016	ICC complaint received by ET on 03 March 2016	Lung King Street near the parking spaces for motorcycles	Construction noise was emanated from road works	<p>A public complaint regarding construction noise referred by ICC was received by ET on 03 March 2016 (ICC Ref.: CASE#2-1938637403 dated 01 March 2016). The complainant reported that construction noise was emanated from road works located between Lung Wo Road and Lung Wui Road Interface.</p> <p>Further information was referred by RSS on 15 March 2016, the complainant clarified on 15 March 2016 that construction noise was emanated from road works located between Lung Wo Road and Lung Wui Road Interface during midnight and has lasted for one and half month resulting in nuisance to nearby residence.</p> <p>Further information was referred by RSS on 18 March 2016, the complainant further clarified on 18 March 2016 that the concerned location shall be Lung King Street near the parking spaces for motorcycles and the Contract no. as stated on the publicity board is HK/2012/08. Furthermore, the complainant identified the noise was from power generators.</p>	<p>1<sup>st</sup> investigation report issued on 11 March 2016.</p> <p>2<sup>nd</sup> investigation report issued on 23 March 2016 and case closed.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>ET confirmed with the Resident Site Staff that there was neither construction works nor operation of power generators under Contract HK/2012/08 at the concerned location from 1900hrs to 0700hrs during the period from 23 February 2016 to 14 March 2016.</p> <p>Based on the complaint information referred by ICC on 3 March 2016, according to the relevant site records provided by RSS, from 0800hrs to 1800hrs on both 29 February 2016 and 01 March 2016, drainage works was undertaken by Contract HK/2012/08 at Lung Wo Road and one excavator was in operation for soil excavation. Follow up inspection was conducted during the weekly environmental site inspection on 08 March 2016 and no particular noise emanating works was observed.</p> <p>Based on the further information provided by the complainant on 15 March 2016, the complainant clarified on 15 March 2016 that Construction noise was emanated from road works located between Lung Wo Road and Lung Wui Road Interface during midnight and has lasted for one and half month resulting in nuisance to nearby residence. On 18 March 2016, the complainant further clarified on 18 March 2016 that the concerned location shall be Lung King Street near the parking spaces for motorcycles and the Contract no. as stated on the publicity board is HK/2012/08. Furthermore, the complainant identified the noise was from power generators. According to the relevant site records provided by RSS, there was neither construction works nor operation of power generators under Contract HK/2012/08 at the concerned location from 1900hrs to 0700hrs during the period from 23 February 2016 to 14 March 2016.</p> <p>Nevertheless, in view of the public concern, the Contractor is recommended to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/00 005206-16 dated 10 March 2016	07 March 2016	EPD complaint received by ET on 10 March 2016	Waterfront at Lung King Street	Construction dust, plant exhaust and construction noise generated from the construction work of Contract HK/2012/08 at waterfront of Lung King Street caused nuisance, and the water quality at the waterfront of Lung King Street was becoming worse that accumulation of the floating refuse and foam was found	<p>A public complaint regarding construction dust, plant exhaust, construction noise and water quality referred by EPD was received by ET on 10 March 2016 (EPD Ref.: H05/RS/00005206-16 dated 10 March 2016). The complainant reported that construction dust, plant exhaust and construction noise generated from the construction work of Contract HK/2012/08 at waterfront of Lung King Street caused nuisance, and the water quality at the waterfront of Lung King Street was becoming worse that accumulation of the floating refuse and foam was found.</p> <p>ET confirmed with the Resident Site Staff that soil excavation at ELS area, Zone A2(2), was carried out, where at approx. 100m from the waterfront of Lung King Street from 08:00 hrs to 18:00 hrs on 07 March 2016 under Contract HK/2012/08. Two excavators were involved at that location. Erection of falsework for culvert L was carried out near the waterfront of Lung King Street from 08:00 hrs to 18:00 hrs on 07 March 2016 under Contract HK/2012/08. One lorry crane was involved for lifting falsework elements. Dust suppression measures including the water sprinklers were installed along site haul road.</p> <p>Regularly removed the floating refuse at the waterfront of Lung King Street was conducted by the Contractor of HK/2012/08. The concerned observed floating foam at the waterfront of Lung King Street was found originating from the diverted cooling mains discharge.</p> <p>According to the relevant site records provided by RSS, soil excavation at ELS area, Zone A2(2) was carried out, where at approx. 100m from the waterfront of Lung King Street under Contract HK/2012/08 from 08:00hrs to 18:00hrs on 07 March 2016 and two excavators were in operation at that location while erection of falsework for culvert L was carried out near the waterfront of Lung King</p>	<p>Interim investigation report submitted to EPD on 18 March 2016.</p> <p>EPD advised no comment on 29 April 2016 on the interim report submitted and case closed.</p>



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					<p>Street from 08:00hrs and 18:00hrs on 07 March 2016 under Contract HK/2012/08 and one lorry crane was involved for lifting falsework elements. Dust suppression measures including the use of water sprinklers along the site haul road was implemented by the Contractor of HK/2012/08 and removal of floating refuse was regularly conducted at the waterfront of Lung King Street by the Contractor of HK/2012/08. Upon investigation, the concerned observed floating foam at the waterfront of Lung King Street was found originating from the diverted cooling mains discharge.</p> <p>Follow up inspection was conducted during the weekly environmental site inspection on 15 March 2016 and dust suppression measures including watering for haul road, tarpaulin sheet covering for cement bags stored on site and three side and top covering for grouting station were implemented while and no dark smoke emission from the plant and machinery deployed on site was observed. Noise mitigation measures including acoustic covering was implementing for excavator mounted breaker. In addition, removal of floating refuse on site was observed implemented by the Contractor of HK/2012/08 and no accumulation of floating refuse was found. The concerned foam originating from diverted cooling mains discharge was observed during inspection and the dispersion of the concerned foam of unknown chemical nature was observed isolated from the nearby public area.</p> <p>Nevertheless, in view of the public concern, the Contractor was recommended to maintain regular checking of the plants and equipment deployed on site to avoid potential air quality impact to the nearby public and to maintain adequate dust suppression measures on site to avoid potential dust impact to the surroundings. The Contractor was reminded to maintain regular cleaning of floating refuse within the construction site area to avoid potential nuisance to the surroundings. The Contractor was also reminded to maintain the noise mitigation measure if breaking works would be required. The Contractor was also suggested to reflect the observed foam to relevant Cooling Mains owners.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/00 006732-16 dated 10 March 2016	23 March 2016	EPD complaint received by ET on 31 March 2016	Seafront opposite to City Garden	Muddy water discharge from construction site outside City Garden	<p>A public complaint regarding direct discharge of muddy effluent referred by EPD was received by ET on 31 March 2016 (Case Ref.: H08/RS/00006732-16). The complainant reported that:</p> <p>Muddy water was observed discharged from the construction site of Central – Wan Chai Bypass – Tunnel (North Point Section) and Island Eastern Corridor Link (Contract No. HY/2009/19) into Victoria Harbour via a drain hole.</p> <p>ET confirmed with the Resident Site Staff that pipe Laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016.</p> <p>The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole.</p> <p>Based on the site records confirmed by RSS, pipe laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016. The observed drain hole was identified to be the outlet point of a manhole and a section of an abandoned U-channel (extending from the concerned manhole to the Hong Kong Electric Substation in length along the site boundary) was adjoining the concerned manhole and sandbag was previously placed at the U-channel at the location near the inlet point to the concerned manhole. In addition, no site discharge point was connected to the aforesaid U-channel and the concerned manhole. In view of the environmental concern, the following remedial and precautionary actions were taken by the Contractor of HY/2009/19 on 29 March 2016.</p> <p>i) Plugging the inlet point of the concerned manhole (connecting to the abandoned U-channel) with concrete;</p> <p>ii) Plugging the outlet of the concerned manhole (connecting to the observed drain hole) with concrete;</p>	<p>The interim investigation report was submitted to EPD on 11 April 2016.</p> <p>EPD advised no comment on 02 September 2016 on the interim report submitted and case closed.</p>





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>iii)Filling the concerned manhole with rubbles; iv)Shifting the unused wastewater treatment plant around the concerned location to other site location for use.</p> <p>Follow-up inspection was conducted by the Environmental Team on 06 April 2016. No further contaminated runoff discharge was observed from the concerned drain hole and precautionary measures including provision of concrete bunding was implemented along the site boundary at the concerned location to avoid potential surface overflow. The pipe laying works and the excavation works was found at distant location away from the concerned drain hole with no surface drain connection and no particular effluent was generated from the work. As such, no information indicate the discharge was related to the above construction activities.</p> <p>However, it was noted that another section of surface drainage channel within the construction site (perpendicular in direction to the initial identified abandoned U-channel) was also in connection to concerned manhole and minor residue mud deposition was observed within the surface drainage channel. Despite the above additional surface drainage channel identified, the outlet point of concerned final manhole (in connection with the observed drain hole) was observed plugged with concrete and filled with rubbles as rectification measure to avoid any further contaminated runoff discharge via the observed drain hole.</p> <p>Nevertheless, the Contractor of HY/2009/19 was reminded to conduct regular cleaning works for site surface drainage channel to avoid accumulation of silt and soil and avoid potential overflow by directing the surface runoff within the surface drainage channel to proper collection point for necessary treatment prior to discharge. The Contractor of HY/2009/19 was also reminded to check and review other surface drainage channel within the construction site to avoid potential runoff related impact via surface drainage channel to the nearby waters.</p> <p>In addition, it was noticed that water was discharged from a piping extending from City Garden and the discharged</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					water would result in seepage across the site hoarding into the abandoned U-channel. The Contractor of HY/2009/19 was suggested to liaise with the City Garden Management Office for proper connection of the observed pipping with discharge to prevent further seepage water into the construction site.	
H08/RS/00007662-16	05 April 2016	EPD complaint received by ET on 05 April 2016	Construction area opposite to Harbour Heights	Construction dust emission arising from drilling activity	<p>A public complaint regarding construction dust emission was referred by EPD was received by ET on 05 April 2016 (Case Ref.: H08/RS/00007662-16). The complainant reported that construction dust emission arising from drilling activity from the construction site of Central – Wan Chai Bypass – Tunnel (North Point Section) and Island Eastern Corridor Link (Contract No. HY/2009/19).</p> <p>ET confirmed with the Resident Site Staff that drilling holes for installation of starter bars was carried out under Contract HY/2009/19 at the vertical cut face of the existing IEC road slab on 05 April 2016</p> <p>Based on the site records confirmed by RSS, drilling holes for installation of starter bars was carried out under Contract HY/2009/19 at the vertical cut face of the existing IEC road slab on 05 April 2016 and according to the photo information provided by the EPD, no dust suppression measures was implemented during the observed drilling works on 05 April 2016.</p> <p>According to Air Pollution Control Ordinance, for pneumatic or power-driven drilling, cutting and polishing, water or a dust suppression chemical shall be continuously sprayed on the surface where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation that causes dust emission is carried out, unless the process is accompanied by the operation of an effective dust extraction and filtering device.</p> <p>Follow-up inspection was conducted on 06 April 2016, rectification actions including the use of vacuum suction to extract dust generated during the concerned drilling works was observed implemented by the Contractor of</p>	<p>The interim report was submitted to the EPD on 14 April 2016.</p> <p>EPD conducted follow up site visit on rectification measures on 21 April 2016. A inspection record form (Pink Form) was issued to the Contractor regarding the observed incident.</p> <p>EPD advised no comment on 02 September 2016 on the interim report submitted and case closed.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					HY/2009/19 for starter bars drilling works.	
ICC Case Ref.:2-203652505 5 dated 27 March 2016	27 March 2016	ICC complaint case received by ET on 11 April 2016	Victoria Park Road Pedestrian Pathway	Toppling of tree	<p>An ICC public complaint regarding landscape aspect was referred by RSS was received by ET on 11 April 2016 (Case Ref.:2-2036525055). The complainant reported that a tree (6 meters in height and 1.5 meters in diameter) was found toppled at 111 Victoria Park Road, near Lamp post 38632 and blocking the Pedestrian pathway on 27 March 2016.</p> <p>ET confirmed with the Resident Site Staff that the concerned tree was identified as T710 and no construction activity in the vicinity of tree T710 on 27 March 2016 and no construction works are required in or near its vicinity.</p> <p>Based on the site records confirmed by RSS, the concerned tree was identified as the retained tree T710 maintained under the Contract of HY/2010/08 and the concerned tree T710 was located outside the assessment area in the relevant Project EIA Report. No construction works are required in the vicinity of concerned tree T710 and no construction activity was conducted in the vicinity of tree T710 on 27 March 2016. Nevertheless, based on RSS information, recent tree monitoring report indicates an existing cavity at trunk and the concerned tree T710 has been recommended to be felled in the tree risk assessment Form 2.</p> <p>With respect to the observed incident of the toppling of the concerned tree T710, the Contractor of HY/2010/08 was instructed by RSS to remove the broken trunk/ remains to avoid impact to the surroundings. The concerned tree T710 shall be compensated by the Contractor of HY/2010/08 in accordance with the Development Bureau Technical Circular (Works) No. 7/2015 and the detail on compensation would be further agreed with Victoria Park Management Office. Follow-up inspection was conducted on 13 April 2016, and the remaining parts of the concerned tree T710 was observed felled to avoid further impact to nearby public road.</p>	Investigation Report issued on 15 April 2016 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Not available	12 April 2016	A CEDD public complaint referred by RSS was received by ET on 13 April 2016	East of Star Ferry Piers	Muddy water was observed to disperse from Contract HK/2009/02 site area to Victoria Harbour occasionally as there was no silt curtain installed under the buoyancy floats. The location concerned was the East of Star Ferry Piers (Contract No. HK/2009/02).	<p>A CEDD public complaint regarding muddy dispersion referred by RSS was received by ET on 13 April 2016. The complainant reported that muddy water was observed to disperse from Contract HK/2009/02 site area to Victoria Harbour occasionally as there was no silt curtain installed under the buoyancy floats. The location concerned was the East of Star Ferry Piers (Contract No. HK/2009/02).</p> <p>ET confirmed with the Resident Site Staff that no marine construction activities or land construction activities under Contract HK/2009/02 at the concerned location on 12 April 2016.</p> <p>Surface runoff control measures including provision of concrete bund at the concerned location was implemented by Contract HK/2009/02.</p> <p>No soil &amp; silt deposition along the seawall at the concerned location on 12 April 2016.</p> <p>No discharge point located in the vicinity of the concerned location under Contract HK/2009/02.</p> <p>Silt curtain with buoyancy floats acting as anchor points was installed at Monitoring Station RW21-P789 for Water intakes.</p> <p>Based on the site records confirmed by RSS, no marine construction activities or land construction activities was carried out under Contract HK/2009/02 at the concerned location on 12 April 2016 and no soil and silt deposition was found along the seawall at the concerned location and precautionary measures for site runoff control including provision of concrete bund along boundary of site area near the waterfront around the concerned location was implemented by the Contractor HK/2009/02. In addition, no discharge point under Contract HK/2009/02 was located in the vicinity of the concerned location. Based on information confirmed by RSS, the buoyancy floats deployed at the concerned location are acting as the anchor points for the silt curtain deployed around the WQM Station RW21-P789 for the WSD and Cooling Water Intakes group.</p> <p>Follow-up inspection was conducted on 14 April 2016, no surface runoff from the construction site nor discharge of</p>	Investigation report issued on 19 April 2016 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					contaminated effluent was observed around the concerned location and precautionary measures including the provision of concrete bund at the concerned location was observed maintained by the Contractor of HK/2009/02 and the silt curtain deployed around the WQM station RW21-P789 was generally in order. In view of the public concern on the water quality, the Contractor of HK/2009/02 was reminded to maintain effective surface runoff protection and provide proper collection point of construction effluent around the concerned location to avoid potential surface runoff related impact.	
EPD Ref.: H05/RS/00 008367-16 dated 13 April 2016	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016	Outside the Hong Kong Academy for Performing Arts	Muddy water discharge from construction site	<p>A public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning.</p> <p>ET confirmed with the Resident Site Staff that internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation.</p> <p>Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.</p> <p>According to the relevant site records provided by RSS, internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In</p>	<p>Interim investigation report was submitted to the EPD on 21 April 2016.</p> <p>EPD advised no further comment on 06 June 2016 on the interim report submitted and case closed.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.</p> <p>Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from piling work via sedimentation tank to wastewater treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact.</p> <p>Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.</p>	
EPD Ref: H05/RS/00 012646-16 dated 27 May 2016	26 May 2016	A public complaint referred by EPD was received by ET on 27 May 2016	Construction Site near Wanchai Ferry Pier	Operation of generator around the clock	<p>A EPD complaint regarding noise nuisance referred by RSS was received by ET on 27 May 2016 (EPD Ref: H05/RS/00012646-16 dated 27 May 2016). The complainant reported that a generator was operated round-the-clock in the Chun Wo- CRGL JV construction site near Wanchai Ferry Pier that cause noise nuisance. (Contract No. HK/2009/02).</p> <p>ET confirmed with the Resident Site Staff that a generator deployed under Contract HK/2009/02 near the covered walkway for Wanchai Ferry Pier at Portion 2 area and was operated from 1900hrs on 24 May 2016 to 0700hrs on 25 May 2016 and from 1900hrs on 25 May 2016 to 0700hrs on 26 May 2016. The generator was used for the power supply of lighting inside Tunnel Portions 1 and 2.</p> <p>According to the relevant site records provided by RSS, a generator deployed under Contract HK/2009/02 near</p>	<p>Interim investigation report submitted to EPD on 7 June 2016.</p> <p>EPD advised no further comment on 05 August 2016 on the report submitted and case closed.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>the covered walkway for Wanchai Ferry Pier at Portion 2 area and was operated from 1900hrs on 24 May 2016 to 0700hrs on 25 May 2016 and from 1900hrs on 25 May 2016 to 0700hrs on 26 May 2016. The generator was used for the power supply of lighting inside Tunnel Portions 1 and 2. Based on review on site information, relevant Construction Noise Permits GW-RS0516-16 and GW-RS0390-16 for the operation of the concerned generator were confirmed in place while no sufficient site information was considered available to demonstrate the use of acoustic enclosure for the operation of the generator following the special condition 3d item 4. Despite the above, the Contractor of HK/2009/02 has suspended the use of the generator at the concerned location after 2300hours to minimize potential noise concern to the surroundings from 28 May 2016.</p> <p>Nevertheless, the Contractor of HK/2009/02 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
EPD Ref: H08/RS/00 014627-16 dated 16 June 2016	15 June 2016	A public complaint referred by EPD was received by ET on 16 June 2016	Construction area of Island Eastern Corridor near Sea View Estate.	Splashing from the working area of Island Eastern Corridor near Sea View Estate.	<p>A public complaint was referred by EPD was received by ET on 16 June 2016 (Case Ref.: H08/RS/00014627-16). The complainant reported that his or her properties were covered by many water stains which were splashing from the working area of Island Eastern Corridor near Sea View Estate.</p> <p>ET confirmed with the Resident Site Staff that rebar fixing was carried out on 13 and 14 June 2016 under the Contractor of HY/2009/19 while formwork cleaning and</p>	The interim report submitted to the EPD on 29 June 2016. EPD advised no comment on the interim report submitted and



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>laying concrete for stitching and curing work for concrete were carried out under the Contractor of HY/2009/19 on 15 June 2016 and 16 June 2016 respectively.</p> <p>Mitigation measures including provision of metal cover underneath the bridge deck in slanting position at Watson Road to prevent spilling of water onto public road and provision of tarpaulin sheet along the guard rails of the bridge deck at Pier 19-20 (opposite to Sea View Estate) to prevent splashing of water to outside area were implemented by the Contractor of HY/2009/19.</p> <p>Based on the site records confirmed by RSS, rebar fixing was carried out on 13 and 14 June 2016 under the Contractor of HY/2009/19 while formwork cleaning and laying concrete for stitching and curing work for concrete were carried out under the Contractor of HY/2009/19 on 15 June 2016 and 16 June 2016 respectively.</p> <p>Mitigation measures including provision of metal cover underneath the bridge deck in slanting position at Watson Road to prevent spilling of water onto public road and provision of tarpaulin sheet along the guard rails of the bridge deck at Pier 19-20 (opposite to Sea View Estate) to prevent splashing of water to outside area were implemented by the Contractor of HY/2009/19.</p> <p>Follow up inspection was conducted on 22 June 2016, mitigation measures including the use of metal cover underneath the bridge deck at Watson Road and provision of tarpaulin sheet along the guard rails of the section of bridge deck opposite to Sea View Estate were implemented by the Contractor of HY/2009/19. No particular spilling or splashing of construction water was observed during inspection around the concerned location.</p> <p>Nevertheless, in view of the public concern, the Contractor of HY/2009/19 was suggested that the direction of the water hose shall be pointed away from the public area as far as practicable during water use or watering for dust suppression to avoid potential splashing nuisance caused to the surroundings. The Contractor of HY/2009/19 was also reminded to maintain proper site drainage to direct surface runoff generated from construction works or cleaning to the proper collection point within site area to avoid potential nuisance to the</p>	case closed on 02 September 2016.





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					surroundings.	
EPD Ref: H08/RS/00 016213-16 dated 14 July 2016	30 June 2016	A public complaint referred by EPD was received by ET on 14 July 2016	Construction Site of TS3 near Slip Road 8	Night time construction noise from construction works between 0200hrs to 0300hrs and construction dust emission from construction site of TS3 near Slip Road 8 section.	<p>A public complaint referred by EPD was received by ET on 14 July 2016 (Case Ref.: H08/RS/00016213-16). The complainant reported the concern about night time construction noise from construction works between 0200hrs to 0300hrs and construction dust emission from construction site of TS3 near Slip Road 8 section.</p> <p>ET confirmed with the Resident Site Staff that excavation at TS3 and loading of material onto derrick barge (Shun Tat 28) by crawler crane was undertaken by the Contractor of HY/2010/08 from 19:00hrs to around 02:00hrs on 30 June 2016. Total one crawler crane was in operation.</p> <p>Noise mitigation measures including equipping the crawler crane with noise barrier was implemented by the Contractor of HY/2010/08.</p> <p>Dust mitigation measures including manual spraying of water and mist nozzles are deployed on the ground level and at the cofferdam.</p> <p>Based on the site records confirmed by RSS, excavation at TS3 and loading of material onto derrick barge (Shun Tat 28) by crawler crane was undertaken by the Contractor of HY/2010/08 from 19:00hrs on 29 June 2016 to around 02:00hrs on 30 June 2016. No construction works was conducted at the concerned location after around 02:00hrs on 30 June 2016. Total one crawler crane was in operation and noise mitigation measures including equipping the crawler crane with noise barrier was implemented by the Contractor of HY/2010/08.</p> <p>Based on review on relevant record, Construction Noise Permit GW-RS0434-16 for the operation of crawler crane at the concerned location was in place. However, based on relevant site record, it was noted that the crawler crane deployed during the concerned period could not match with the specific PME requirement under condition 3a (Crane, crawler, mounted with noise barrier (Kobelco 7250S)) of the Construction Noise Permit GW-RS0434-16 between 23:00hrs to 07:00hrs on the following day. Dust mitigation measures including manual spraying of</p>	The interim report submitted to the EPD on 22 July 2016



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					<p>water and mist nozzles were deployed on the ground level and at the cofferdam.</p> <p>Follow up inspection was conducted on 20 July 2016, the potential concerned excavation works at the concerned location was not observed and no particular dust impact was observed around the concerned location.</p> <p>In view of the above, the Contractor of HY/2010/08 was advised to review the site control system for construction works carried out during restricted hours to check and ensure the model/ specific PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public. Also, the Contractor of HY/2010/08 was reminded to maintain sufficient watering for excavated material handling to avoid potential dust nuisance to the surroundings.</p>	
EPD Ref: H08/RS/00 022448-16 dated 06 September 2016	04 Sept 2016	A public complaint referred by EPD was received by ET on 06 September 2016	Road construction works area near Causeway Bay Typhoon Shelter	Construction noise from road construction work near Causeway Bay Typhoon Shelter	<p>A public complaint referred by EPD was received by ET on 06 September 2016 (Case Ref.: H08/RS/00022448-16). The complainant reported that construction noise from the road construction work near Causeway Bay Typhoon Shelter during 0800hrs to 2100 hrs on 04 September 2016 (Sunday) caused nuisance. The complainant also indicated that the construction noise was generated up to 0100 hrs on normal weekdays.</p> <p>ET confirmed with the Resident Site Staff that underwater welding of lagging plate at Zone C was conducted from 0800hrs to 2100hrs on 04 September 2016. Total 1 no. of generator and 1 no. of welding machine were in operation.</p> <p>Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 01 September 2016 to 0100hrs on 02 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation.</p> <p>Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 02 September 2016 to 0100hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation.</p>	<p>The interim report submitted to EPD on 20 September 2016.</p> <p>EPD advised no comment on 31 October 2016 on the interim report submitted and case closed.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs to 2359hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation.</p> <p>Based on the site records confirmed by RSS, underwater welding of lagging plate at Zone C was conducted from 0800hrs to 2100hrs on 04 September 2016, total 1 no. of generator and 1 no. of welding machine were in operation and relevant Construction Noise Permit GW-RS0442-16 was in place. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 01 September 2016 to 0100hrs on 02 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs on 02 September 2016 to 0100hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs to 2359hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Relevant Construction Noise Permit GW-RS0531-16 was in place for the above construction activities.</p> <p>Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
EPD Ref: H08/RS/00 024768-16 dated 07 October 2016	28 Sept 2016 04 Oct 2016	A public complaint referred by EPD was received by ET on 07 October 2016	Causeway Bay Typhoon Shelter	Construction work at the construction site in Causeway Bay Typhoon Shelter area was found after 1900hrs on 28 September 2016 and 04 October 2016 that caused noise nuisance.	A public complaint referred by EPD was received by ET on 07 October 2016 (Case Ref.: H08/RS/00024768-16). The complainant reported that construction work at the construction site in Causeway Bay Typhoon Shelter area was found after 1900hrs on 28 September 2016 and 04 October 2016 that caused noise nuisance. The complainant also reported that there were 5 concrete lorry mixers operating at the above site after 1900hrs on 04 October 2016.	The interim investigation report was submitted to EPD on 18 October 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>ET confirmed with the Resident Site Staff that concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 28 September 2016. One concrete pump and two concrete lorry mixers were in operation. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3 (W). Concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 04 October 2016. One concrete pump and two concrete lorry mixers were in operation. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3 (W).</p> <p>Based on the site records confirmed by RSS, concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 28 September 2016 and from 1900hrs to 2300hrs on 04 October 2016 and total one concrete pump and two concrete lorry mixers were in operation during the above concerned periods. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3(W) during the above concerned periods and relevant Construction Noise Permit GW-RS0434-16 and GW-RS0407-16 were in place for the construction works conducted during the above concerned periods.</p> <p>Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
EPD Ref: H05/RS/00 029722-16 dated 22 November 2016	15 Nov 2016	A public complaint referred by EPD received by ET on 22 November 2016	Construction Site near Wanchai Ferry Pier	Noise was emanated in the Chun Wo – CRGLJV construction site near Wanchai Ferry Pier till late night and caused nuisance to nearby sensitive receivers.	<p>An EPD complaint regarding noise nuisance referred by EPD was received by ET on 22 November 2016 (EPD Ref: H05/RS/00029722-16 dated 22 November 2016). The complainant reported that noise was emanated in the Chun Wo – CRGLJV construction site near Wanchai Ferry Pier till late night and caused nuisance to nearby sensitive receivers.</p> <p>ET confirmed with the Resident Site Staff that Excavation</p>	Interim investigation report submitted to EPD on 29 November 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>works at Portion 5 was conducted under Contract HK/2009/02 at Portion 5 area (West of Wan Chai Ferry Pier) from 1900hrs to 2300hrs on 14 November 2016. Total two crawler cranes, two excavators and two generators were operated at ground level and four excavators were operated below ground level. No construction activity was conducted under Contract HK/2009/02 from 2300hrs on 14 November 2016 to 0700hrs on 15 November 2016. Total two generators were operated at ground level for lighting illumination of Portion 5.</p> <p>According to information provided by RSS, excavation works at Portion 5 was conducted under Contract HK/2009/02 at Portion 5 area (West of Wan Chai Ferry Pier) from 1900hrs to 2300hrs on 14 November 2016. Total two crawler cranes and two excavators were operated at ground level and four excavators were operated below ground level. Two generators were operated at ground level. Based on review on site information, relevant Construction Noise Permits GW-RS0593-15 for the above construction activities and above operation of the generators were confirmed in place. No construction activity was conducted under Contract HK/2009/02 from 2300hrs on 14 November 2016 to 0700hrs on 15 November 2016 and two generators were operated at ground level for lighting illumination of Portion 5.</p> <p>In view of the public concern, the Contractor of HK/2009/02 confirmed that the two generators for lighting power supply at ground level after 2300hrs had been suspended and replaced by other two generators located below ground level at Portion 5 area since 23 November 2016 to minimize the noise impact to the surroundings. In addition, the Contractor of HK/2009/02 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public. Also, the</p>	



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					Contractor of HK/2009/02 was recommended to review the enhancement noise mitigation measure to be adopted for the generators deployed at ground level before 2300hrs to alleviate potential noise concern to the surroundings.	
EPD ref: H08/RS/00 030890-16 dated 07 December 2016	24 Nov 2016	A public complaint referred by EPD received by ET on 07 December 2016	Construction Site at Victoria Park	Noise emanated from the construction site at Victoria Park after 1900hrs.	A public complaint referred by EPD was received by ET on 07 December 2016 (Case Ref.: H08/RS/00030890-16). The complainant reported that Noise was emanated in the construction site near Victoria Park after 19:00 and caused nuisance to nearby sensitive receivers on 24 November 2016. ET confirmed with the Resident Site Staff that welding works for the tie-rod for the vertical blinding concrete was undertaken by the Contractor of HY/2010/08 at the construction site in the Victoria Park from 1900hrs to 2300hrs on 24 November 2016. Total 3 nos. of welding machines (electric), 3 nos. of water pumps (electric) and 1 no. of AquaSED were in operation. Based on the site records confirmed by RSS, welding works for the tie-rod for the vertical blinding concrete was undertaken by the Contractor of HY/2010/08 at the construction site in the Victoria Park from 1900hrs to 2300hrs on 24 November 2016. Total 3 nos. of welding machines (electric), 3 nos. of water pumps (electric) and 1 no. of AquaSED were in operation and relevant Construction Noise Permit GW-RS0930-16 was in place for the construction works conducted during the above concerned period. In addition, according to relevant site information confirmed by RSS, the welding machines, water pumps and AquaSED were connected to and powered by Hong Kong Electric power grid. Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	Investigation report submitted to EPD on 16 December 2016.  Under EPD review
EPD complaint H08/RS/00	10 January 2017	A public complaint referred by EPD	Causeway Bay Typhoon Shelter	Construction work at the reclamation site in Causeway Bay Typhoon Shelter area	A public complaint referred by EPD was received by ET on 16 January 2017 (Case Ref.: H08/RS/00001175-17). The complainant reported that construction work at the	Interim investigation report submitted to



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001175-17 dated 16 January 2016		received by ET on 16 January 2017		(Under the Island Eastern Corridor) was found after 1900hrs on 10 January 2017 and the concrete lorry mixer and concrete pump may not comply with the Construction Noise Permit	<p>reclamation site in Causeway Bay Typhoon Shelter area (Under the Island Eastern Corridor) was found after 1900hrs on 10 January 2017. The complainant reported that there were 3 concrete pumps and around 10 concrete lorry mixers operating at the above site during the said period which may not comply with the Construction Noise Permit.</p> <p>ET confirmed with the Resident Site Staff that concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 1900hrs and 2000hrs on 10 January 2017.</p> <p>Total 3 nos. of Lorry Mounted Concrete Pumps and 6 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 2 nos. of the operating Lorry Mounted Concrete Pumps and 4 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area.</p> <p>Concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 2000hrs and 2030hrs 10 January 2017. Total 2 nos. of Lorry Mounted Concrete Pump and 4 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 1 no. of the operating Lorry Mounted Concrete Pumps and 2 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area.</p> <p>Concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 2030hrs and 2300hrs 10 January 2017. Total 1 no. of Lorry Mounted Concrete Pump and 2 nos. of Concrete Lorry Mixers were operated at TS3.</p> <p>Based on the site records confirmed by RSS, concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 1900hrs and 2300hrs on 10 January 2017. From 1900hrs to 2000hrs, total 3 nos. of Lorry Mounted Concrete Pumps and 6 nos. of Concrete Lorry Mixers</p>	EPD on 03 February 2017.



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					<p>while temporary noise barrier was provided for 2 nos. of the operating Lorry Mounted Concrete Pumps and 4 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area.</p> <p>From 2000hrs to 2030hrs, total 2 nos. of Lorry Mounted Concrete Pump and 4 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 1 no. of the operating Lorry Mounted Concrete Pumps and 2 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area.</p> <p>From 2030hrs to 2300hrs, total 1 no. of Lorry Mounted Concrete Pump and 2 nos. of Concrete Lorry Mixers were operated at TS3.</p> <p>Relevant Construction Noise Permit GW-RS1232-16 (Corresponding PME Groups operated include Group M, Group K and Group H) was in place for the construction works conducted during the above concerned periods and based on RSS information, a designated personnel on-site was responsible for controlling and supervising the switching between PME Groups. Meanwhile, there is no sufficient information to conclude if the concerned PME(s) (Concrete Lorry Mixer and Lorry Mounted Concrete Pump) deployed behind the temporary noise barrier provided were not visible to nearby sensitive receivers.</p> <p>As multiple PME grouping under the Construction Noise Permit are involved, the Contractor of HY/2010/08 was reminded to strictly follow the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in strict compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
ICC complaint case (Ref: #2-	22 Dec 2016	ICC complaint case referred by RSS received by ET on 18	Construction Site Gate Exit near Expo Drive East	No wheel washing from CEDD work site, no supervision from the Resident Site Staff, mud was dispersed on the road and	A public complaint regarding the subject matter on wheel washing referred by RSS was received by ET on 18 January 2017 (ICC Ref: #2-3218844776). The complainant reported that no wheel washing from CEDD	Final investigation report issued on 23 January 2017.





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3218844776) dated 23 December 2017		January 2017		flush to the communal drain by Chun Wo-China Railway JV HK/2009/02.	<p>work site, no supervision from the Resident Site Staff, mud was dispersed on the road and flush to the communal drain by Chun Wo-China Railway JV HK/2009/02.</p> <p>ET confirmed with the Resident Site Staff that the concerned location was Site Exit Gate No. 6 at Expo Drive East operated and maintained under HK/2009/02 on 22 December 2016. Site measures including provision of wheel washing facility was implemented by the Contractor of HK/2009/02 on the concerned date.</p> <p>According to information provided by RSS, the concerned location was Site Exit Gate No. 6 at Expo Drive East operated and maintained under HK/2009/02 on 22 December 2016. In view of the environmental concern, remedial measures including i) instructing all workers to conduct wheel washing within the designated location with collection pit to prevent overflow of washing effluent and ii) manual removal of dirt/silt by worker instead of water flushing in case of dirt/muddy trail found on road were implemented by the Contractor on 28 December 2016. Also, the Contractor of HK/2009/02 was further reminded by the WDII RSS to maintain proper wheel washing facilities at Gate No.6 and inspect regularly to ensure that all vehicles leaving the site to public roads are free of mud.</p> <p>Nevertheless, the Environmental Team further reminded the Contractor on 04 January 2017 that site measures including i) wheel washing operation shall be conducted at the designated location behind the backfall to avoid overflow of washing effluent onto public road ii) any silt/ soil deposited of the public road shall be cleared manually shall be strictly followed and relevant remedial actions were taken by the Contractor of HK/2009/02 on 04 January 2017.</p> <p>According to site inspection conducted on 17 January 2017, the concerned site exit Gate No.6 was maintained in proper condition, no silt/ mud deposition was observed on the public road and wheel washing was conducted by the Contractor of HK/2009/02 at the designated location within the construction site to avoid overflow of washing effluent onto nearby public road.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC complaint case (Ref: #2-3512033936) dated 20 February 2017	20 February 2017	ICC complaint case referred by RSS received by ET on 24 February 2017	Victoria Park Swimming Pool	Noise was emanated from the construction site near Victoria Park Swimming Pool between 2300hrs to 2400hrs in the past months and caused nuisance.	<p>An ICC complaint referred by RSS was received by ET on 24 February 2017 (CASE#2-3512033936). The complainant reported that noise was emanated from the construction site near Victoria Park Swimming Pool between 2300hrs to 2400hrs in the past months and caused nuisance. ET confirmed with the Resident Site Staff that no works was conducted under Contract HY/2010/08 near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) from 21 December 2016 to 20 February 2017.</p> <p>No works was conducted under Contract HY/2010/08 near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) from 21 December 2016 to 20 February 2017.</p> <p>Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	Final Investigation Report issued on 02 March 2017 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC complaint case (Ref: #2-3515474831) dated 21 February 2017	21 February 2017	ICC complaint case referred by RSS received by ET on 24 February 2017	Construction Site near Victoria Park Swimming Park and Causeway Bay Typhoon Shelter	Noise was emanated from the construction site near Victoria Park Swimming Pool between 2300hrs to 2400hrs in the past months and caused nuisance.	<p>An ICC complaint referred by RSS was received by ET on 24 February 2017 (CASE#2-3515474831). The complainant reported that noise was emanated from the construction site near Victoria Park Swimming Pool and Causeway Bay Typhoon Shelter between 1900hrs to 2400hrs in the past months and caused nuisance.</p> <p>ET confirmed with the Resident Site Staff that concreting of tunnel structure at Temporary Reclamation Area TS3 were conducted under Contract HY/2010/08 between 1900hrs and 2300hrs on 13, 14, 15, 16 and 18 February 2017. Total 3 nos. of concrete pump and 6 nos. of concrete lorry mixers were operated.</p> <p>Concreting of tunnel structure at Temporary Reclamation Area TS3 were conducted under Contract HY/2010/08 between 1900hrs and 2100hrs on 21 February 2017. Total 3 nos. of concrete pump and 6 nos. of concrete lorry mixers were operated. Concreting of tunnel structure at Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 17 and 20 February 2017. Total 1 no. of concrete pump and 2 nos. of concrete mixers were operated. Bar bending at Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 13, 14, 15, 16, 18 and 19 February 2017. Total 1 no. bar bender and cutter was operated. No works was conducted under Contract HY/2010/08 near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) across the period from 13 February 2017 to 21 February 2017.</p> <p>Based on the site records confirmed by RSS, no works was conducted under Contract HY/2010/08 near Victoria Park Swimming Pool (Hing Fat Street) during the restricted hours (from 1900hrs to 0700hrs on the following day) from 13 February 2017 to 20 February 2017. Concreting of tunnel structure at Temporary Reclamation Area TS3 was conducted under Contract HY/2010/08 between 1900hrs and 2300hrs on 13, 14, 15, 16 and 18 February 2017 and total 3 nos. of concrete pumps and 6 nos. of concrete lorry mixers were operated. Concreting of tunnel structure at Temporary Reclamation Area TS3</p>	Final Investigation Report issued on 07 March 2017 and case closed.



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					<p>were conducted under Contract HY/2010/08 between 1900hrs and 2100hrs on 21 February 2017 and total 3 nos. of concrete pump and 6 nos. of concrete lorry mixers were operated. Relevant Construction Noise Permit GW-RS0029-17 was in place while it is considered that there is no sufficient information to indicate whether the Powered Mechanical Equipment were deployed at the designed location stipulated under the relevant Construction Noise Permit with noise mitigation measures required.</p> <p>Concreting of tunnel structure at Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 17 and 20 February 2017. Total 1 no. of concrete pump and 2 nos. concrete mixers were operated. Bar bending at Zone C was conducted under Contract HY/2010/08 between 1900hrs to 2300hrs on 13, 14, 15, 16, 18 and 19 February 2017 and total 1 no. bar bender and cutter was operated. Relevant Construction Noise Permit GW-RS1366-13 was in place while it is considered that there is no sufficient information to indicate whether the Powered Mechanical Equipment were deployed at the designed location stipulated under the relevant Construction Noise Permit with noise mitigation measures required.</p> <p>Nevertheless, further to the joint ad-hoc inspection conducted by the ET/IEC on 13 February 2017 during restricted hours (between 1900hrs to 2200hrs), concurrent operations of 4 nos. of concrete lorry trucks at the Southern Side of TS3 near Construction Site Entrance and concurrent operations of 2 nos. of concrete lorry pumps and 2 nos. of concrete lorry truck at Western and Northern Side of TS3 were observed while the temporary noise barrier provided for the concrete lorry pump and concrete lorry truck at the Northern Side of TS3 could not screen entirely the concrete lorry truck and concrete lorry pump (Located at Northern Side of TS3) from nearby sensitive receivers. Therefore, it is considered that the above operations observed could not follow the PME grouping requirement and the specific condition 3.d.4 under the relevant Construction Noise Permit.</p>	



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					In view of the above, the Contractor of HY/2010/08 was advised to enhance the site supervision and strictly implement the site control system for construction works carried out during restricted hours to ensure the PMEs deployed strictly comply with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
ICC complaint case (Ref: #2-3521097579) dated 22 February 2017	22 February 2017	ICC complaint case referred by RSS received by ET on 27 February 2017	Construction Site at Victoria Harbour near Victoria Park	Noise was emanated from the construction Site at Victoria Harbour near Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was observed on scene.	<p>An ICC complaint referred by RSS was received by ET on 27 February 2017 (CASE#2-3521097579). The complainant reported that noise was emanated from the construction Site at Victoria Harbour near Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was observed on scene.</p> <p>ET confirmed with the Resident Site Staff that no construction work was conducted under HY/2010/08 at Zone C (Victoria Park Road) and Temporary Reclamation Area Zone between 0000hrs to 0200hrs on 21 February 2017 and between 0000hrs to 0200hrs on 22 February 2017.</p> <p>No construction work was conducted under HY/2010/08 at Zone C (Victoria Park Road) and Temporary Reclamation Area Zone between 0000hrs to 0200hrs on 21 February 2017 and between 0000hrs to 0200hrs on 22 February 2017.</p> <p>Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit.</p>	Final Investigation Report issued on 02 March 2017 and case closed.



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					The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
ICC Complaint Case (CASE #2-3576157538 dated 05 March 2017)	05 March 2017	ICC complaint referred by RSS was received by ET on 06 March 2017	Construction works area under Contract HK/2009/02 for Wanchai Development Phase II	Noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.	<p>An ICC complaint referred by RSS was received by ET on 06 March 2017 (CASE#2-3576157538). The complainant reported that noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.</p> <p>ET confirmed with the Resident Site Staff that no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level.</p> <p>Tunnel backfilling and construction of temporary walls at Portions 3&amp;4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 no. of loader were in operation below ground level.</p> <p>According to the information confirmed by RSS, no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level. Tunnel backfilling and construction of temporary walls at Portions 3&amp;4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of</p>	Investigation report issued on 10 March 2017 and case closed.



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					<p>excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 loader were in operation below ground level. Relevant Construction Noise Permit GW-RS1305-16 was in place.</p> <p>Nevertheless, in view of the public concern, the Contractor of HK/2009/02 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HK/2009/02 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
EPD complaint (Case Ref: H05/RS/0006240-17)	05 March 2017	EPD complaint referred by RSS was received by ET on 14 March 2017. EPD clarified the complaint case shall be referred by ICC Complaint Hotline (CASE #2-3576157538)	Construction works area under Contract HK/2009/02 for Wanchai Development Phase II	Noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.	<p>A EPD complaint was referred to the ET on 14 March 2017 (CASE Ref: H05/RS/0006240-17). The complainant reported that noise was emanated from the construction works under Contract HK/2009/02 for Wanchai Development Phase II on 05 March 2017 and potential violation of ordinance was suspected.</p> <p>ET confirmed with the Resident Site Staff that no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in operation at ground level.</p> <p>Tunnel backfilling and construction of temporary walls at Portions 3&amp;4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 no. of loader were in operation below ground level.</p> <p>According to the information confirmed by RSS, no works was conducted under Contract HK/2009/02 from 0000hrs to 0830hrs on 05 March 2017. Removal ELS waling at Portion 5 (West of WanChai Ferry Pier) was conducted under Contract HK/2009/02 from 0830hrs to 1700hrs on 05 March 2017. Total 2 nos. of crawler cranes were in</p>	<p>Interim Investigation report issued on 10 March 2017 and case closed.</p> <p>EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed</p>



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					<p>operation at ground level. Tunnel backfilling and construction of temporary walls at Portions 3&amp;4 (Near Wan Shing Street) were conducted under Contract HK/2009/02 from 0830hrs to 1700hrs. Total 1 no. of excavator and 1 no. of dump truck were in operation at ground level and 2 nos. of excavator and 1 loader were in operation below ground level. Relevant Construction Noise Permit GW-RS1305-16 was in place.</p> <p>Nevertheless, in view of the public concern, the Contractor of HK/2009/02 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HK/2009/02 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
ICC complaint Case (CASE#2-3603182890) dated 10 March 2017	10 March 2017	An ICC complaint referred by RSS was received by ET on 13 March 2017	Construction Site at Victoria Park	Noise was emanated from the construction Site at Victoria Park from 2300hrs to 2400hrs on 10 March 2017 and caused nuisance to nearby residents.	<p>An ICC complaint referred by RSS was received by ET on 13 March 2017 (CASE#2-3603182890). The complainant reported that noise was emanated from the construction Site at Victoria Park from 2300hrs to 2400hrs on 10 March 2017 and caused nuisance to nearby residents.</p> <p>ET confirmed with the Resident Site Staff that no construction work was conducted under Contract HY/2010/08 at Victoria Park at from 2300hrs to 2400hrs on 10 March 2017.</p> <p>Based on the information provided by the RSS, no construction work was conducted under Contract HY/2010/08 at Victoria Park at from 2300hrs to 2400hrs on 10 March 2017.</p> <p>Nevertheless, in view of the public concern, the Contractor of HY/2010/08 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2010/08 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	Investigation Report issued on 15 March 2017 and case closed





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint Case (CASE Ref: H05/RS/0014415-17(14448-17) dated 18 May 2017	11 May 2017	An EPD complaint referred to ET on 18 May 2017	Construction Site under Contract HK/2009/02	<p>Construction work was found on 10 May 2017 (~03:52) that caused noise nuisance.</p> <p>According to the information provided by the IEC on 11 May 2017 and 15 May 2017, it was alleged that the concreting work under Contract No. HK/2009/02 was carried out for the Central-Wan Chai Bypass Top Slab Bay 6 during night time on 09 May 2017 and early morning on 10 May 2017 (between 11:00pm on 09 May 2017 and about 04:00 a.m. on 10 May 2017) with 3 pump trucks, 10 vibrating pokers, 9 concrete trucks and 2 generators in operation. The concreting works under Contract No. CEDD HK/2009/02 was also carried out for the Central – Wan Chai Bypass Bay 10A OHVS Slab after 23:00 on 12 May 2017 (after 23:00) with 1 Pump truck, 2 vibrating pokers, 1 concrete trucks and 3 generators in operation.</p>	<p>An EPD complaint was referred to the ET on 18 May 2017 (CASE Ref: H05/RS/00014415-17(14448-17). The complainant reported that:</p> <p>Construction work was found on 10 May 2017 (~03:52) that caused noise nuisance. According to the photos provided by the complainant lorry mounted concrete pump were used. According to the information provided by the IEC on 11 May 2017 and 15 May 2017, it was alleged that the concreting work under Contract No. HK/2009/02 was carried out for the Central-Wan Chai Bypass Top Slab Bay 6 during night time on 09 May 2017 and early morning on 10 May 2017 (between 11:00pm on 09 May 2017 and about 04:00 a.m. on 10 May 2017) with 3 pump trucks, 10 vibrating pokers, 9 concrete trucks and 2 generators in operation. The concreting works under Contract No. CEDD HK/2009/02 was also carried out for the Central – Wan Chai Bypass Bay 10A OHVS Slab after 23:00 on 12 May 2017 (after 23:00) with 1 Pump truck, 2 vibrating pokers, 1 concrete trucks and 3 generators in operation.</p> <p>ET confirmed with the Resident Site Staff that 10 nos. of vibratory pokers, 3 nos. of concrete pump trucks and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 09 May 2017 to 0408hrs on 10 May 2017 while 9 nos. of concrete trucks were in operation at around 0320hrs on 10 May 2017.</p> <p>2 nos. of vibratory pokers, 1 no. of concrete truck, 1 no. of concrete pump truck, and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 12 May 2017 to 2340hrs on 12 May 2017.</p> <p>According to the RSS site information, 10 nos. of vibratory pokers, 3 nos. of concrete pump trucks and 3 nos. of generator were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 09 May 2017 to 0408hrs on 10 May 2017 while 9 nos. of concrete trucks were in operation at around 0320hrs on 10 May 2017 and the above construction operations could not comply with the item 3a - PME requirement under the Construction Noise Permit GW-RS1297-16. In response to the information provided by the RSS/ IEC on 11 May 2017, ad-hoc inspection was conducted by the Environmental Team on</p>	<p>Interim Investigation report submitted to EPD on 26 May 2017.</p> <p>EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>13 May 2017 around 00:40 hrs. No construction operation and no PME deployment was observed at the time of inspection.</p> <p>According to the RSS site information, 2 nos. of vibratory pokers, 1 no. of concrete pump truck, and 3 nos. of generators were in operation at Tunnel Portion 5, Top Slab 6 from 2300hrs on 12 May 2017 to 2340hrs on 12 May 2017 and could not comply with the item 3a - PME requirement under Construction Noise Permit GW-RS1297-16. In response to the information provided by the RSS/ IEC on 15 May 2017, ad-hoc inspection was conducted by the Environmental Team on 19 May 2017 around 22:20hrs. 2 nos. of concrete truck, 1 no. of concrete pump truck were observed in operation at the time of inspection and relevant CNP GW-RS0334-17 was in place.</p> <p>Notwithstanding the above, in view of the identified non-conformance, the Contractor of HK/2009/02 was requested to implement the following rectification measures to ensure the strict construction noise permit compliance including i) fully review Construction Noise Permit in force and the tentative construction operations to ensure the strict Construction Noise Permit compliance under Noise Control Ordinance, ii) fully review the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit and iii) review the construction sequence and schedule to ensure the construction operations and PME are operated in accordance to relevant Construction Noise Period within the specified allowable period. The Contractor of HK/2009/02 is also recommended to provide briefing and training session to site staffs to enhance the site awareness and understanding on relevant construction noise permit(s) requirement during restricted hours.</p> <p>The ET/IEC/RSS will maintain ad hoc checking on the construction operations under Contract HK/2009/02 during restricted hours and report relevant findings, if any, accordingly.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint Case (CASE Ref: N/A) dated 23 May 2017	23 May 2017	An EPD complaint referred to ET on 25 May 2017	Construction Site under Contract HK/2009/02	Concreting works under Contract No. CEDD HK/2009/02 was carried out with crawler cranes, 10-12 vibratory pokers, and 7 concrete lorry mixers in the morning on 21 May 2017 without a valid CNP. Also, at 15:30 on 21 May 2017, 9 vibratory pokers and 7 concrete lorry mixers were observed in operation. These works were suspected to contravene the Noise Control Ordinance (NCO).	<p>An EPD complaint was referred to the ET on 25 May 2017 (CASE Ref: N/A). The complainant reported that concreting works under Contract No. CEDD HK/2009/02 was carried out with crawler cranes, 10-12 vibratory pokers, and 7 concrete lorry mixers in the morning on 21 May 2017 without a valid CNP. Also, at 15:30 on 21 May 2017, 9 vibratory pokers and 7 concrete lorry mixers were observed in operation. These works were suspected to contravene the Noise Control Ordinance (NCO).</p> <p>ET confirmed with the Resident Site Staff that 12 nos. of vibratory pokers were operated at Tunnel Portion 5 from 0730hrs to 1740hrs on 21 May 2017. 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0800hrs to 0915hrs on 21 May 2017. 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0915hrs to 1030hrs on 21 May 2017. 4 nos. of concrete pump trucks were operated at Tunnel Portion 5 from 0750hrs to 1650hrs on 21 May 2017. 4 nos. of generators were operated at Tunnel Portion 5 from 0730hrs to 1740hrs on 21 May 2017. 7 nos. of concreting trucks were operated at intervals between the time period of 0730hrs to 1740hrs on 21 May 2017.</p> <p>According to the RSS site information, the following PMEs were operated on 21 May 2017, i) 12 nos. of vibratory pokers were operated at Tunnel Portion 5 from 0730hrs to 1740hrs; ii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0800hrs to 0915hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0915hrs to 1030hrs on 21 May 2017; iv) 4 nos. of concrete pump trucks were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0730hrs to 1740hrs ;) 7 nos. of concreting trucks were operated at intervals between the time period of 0730hrs to 1740hrs on 21 May 2017 and the above construction operations could not comply with the item 3a - PME requirement under the Construction Noise Permit GW-RS334-17.</p> <p>EPD notification on the cancellation of the Construction Noise Permits GW-RS0334-17 and Construction Noise Permit GW-RS1297-16 was received by the Environmental Team on 26 May 2017. Ad hoc inspection</p>	<p>Investigation report submitted to EPD on 02 June 2017.</p> <p>EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					was conducted by the Environmental Team on 26 May 2017 around 2230hrs and on 28 May 2017 around 1520hrs and no construction works and no operation of PME was observed at the concerned site Portion 5 at the time of inspections. Notwithstanding the above, in view of the identified non-conformance, the Contractor of HK/2009/02 was requested to implement the following rectification measures to ensure the strict construction noise permit compliance including i) fully review Construction Noise Permit in force and the tentative construction operations to ensure the strict Construction Noise Permit compliance under Noise Control Ordinance, ii) fully review the site control system for construction works carried out during restricted hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit and iii) review the construction sequence and schedule to ensure the construction operations and PME are operated in accordance to relevant Construction Noise Period within the specified allowable period. The Contractor of HK/2009/02 is also recommended to provide briefing and training section to site staffs to enhance the site awareness and understanding on relevant construction noise permit(s) requirement during restricted hours.	
EPD	07 July	EPD complaint	Construction site near	Construction work from a	An EPD complaint was referred to the ET on 13 July 2017	Interim



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
complaint Case (CASE Ref: H05/RS/00 021311-17) dated 13 July 2017	2017	referred to ET on 13 July 2017	Renaissance Hong Kong Harbour View Hotel	construction site near Renaissance Hong Kong Harbour View Hotel was found around 2315 hrs on 26 June 2017, causing noise nuisance.	<p>(CASE Ref: H05/RS/00021311-17). The complainant reported that construction work from a construction site near Renaissance Hong Kong Harbour View Hotel was found around 2315 hrs on 26 June 2017, causing noise nuisance.</p> <p>ET confirmed with the Resident Site Staff that Manual re-bar fixing works was carried out under Contract HK/2009/02 from 2300hrs to 2330hrs on 26 June 2017 at Portion 5 Bay 15 (Non - Designated Area) top slab area adjacent to the covered walkway of the Wan Chai Ferry Pier. 1 no. of generator was operated at ground level and 2 nos. of generators were operated below ground level from 2300hrs to 2400hrs on 26 June 2017. In addition 16 electric water pump were operated below ground level from 2300hrs to 2400hrs on 26 June 2017.</p> <p>Notwithstanding the information stated in above item 1), according to relevant Resident Site Staff site record, it was recorded that 1 no. of mobile crane and 1 no. of bar bender were deployed and operated at Portion 5 area (West of Wan Chai Ferry Pier) under Contract HK/2009/02 after 2300hrs on 26 July 2017. Upon warning given by WDII Resident Site staff to the Contractor of HK/2009/02, the operation of crawler crane for lifting rebar and operation of bar bender machine were suspended at around 2315hrs on 26 June 2017.</p> <p>No construction activity and site operation was carried out under Contract HK/2009/01 from 2300hrs to 2400hrs on 26 June 2017.</p> <p>According to the RSS site information, manual re-bar fixing works was carried out under Contract HK/2009/02 from 2300hrs to 2330hrs on 26 June 2017 at Portion 5 Bay 15 (Non - Designated Area) top slab area adjacent to the covered walkway of the Wan Chai Ferry Pier. 1 no. of generator was operated at ground level and 2 nos. of generators were operated below ground level from 2300hrs to 2400hrs on 26 June 2017 while 16 electric water pump were operated below ground level at Portion 5 Bay from 2300hrs to 2400hrs on 26 June 2017 and the relevant Construction Noise Permit GW-RS0527-17 for the above operation was in place. However, site record on the model of generators deployed on the concerned night was not available.</p>	<p>investigation report submitted to EPD on 21 July 2017.</p> <p>EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed</p>



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					<p>Notwithstanding the above, according to relevant Resident Site Staff site record, it was recorded that 1 no. of mobile crane and 1 no. of bar bender machine were deployed and operated at Portion 5 area (West of Wan Chai Ferry Pier) under Contract HK/2009/02 after 2300hrs on 26 July 2017 without a valid Construction Noise Permit. Upon warning given by WDII Resident Site staff to the Contractor of HK/2009/02, the operation of crawler crane for lifting rebar and operation of bar bender machine were suspended at around 2315hrs on 26 June 2017. According to Contractor of HK/2009/02, the operation bar bender machine was suspended upon warning by RSS team and the operation of crawler crane was suspended upon moving to a proper location to avoid obstruction for next day work.</p> <p>Meanwhile, no construction activity and site operation was carried out under Contract HK/2009/01 from 2300hrs to 2400hrs on 26 June 2017. In view of the above operation of powered mechanical equipment under Contract HK/2009/02 beyond 2300hrs, the Contractor of HK/2009/02 was required and urged to implement the following remedial measures to ensure the strict construction noise permit compliance including:-</p> <p>Fully review the site control system for construction works carried out during restricted hours, in particular to ensure the frontline supervisors responsible for restricted hours construction operations are trained with comprehensive understanding on the requirement of the Construction Noise Permit in force to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit.</p> <p>To assign delegated and competent personnel on-site to conduct checking on the deployment of PMEs on-site prior and during restricted hours to ensure only PMEs allowed under relevant Construction Noise Permit would be operated.</p> <p>In addition, the following preventive measures are also recommended including the Contractor of HK/2009/02 is recommended to provide regular briefing and training section to site staffs and frontline workers to enhance the</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>workers awareness and understanding on relevant Construction Noise Permit(s) requirement during restricted hours.</p> <p>The Contractor of HK/2009/02 is recommended to review the construction operation planning procedures to ensure relevant PME(s) required for conducting the planned operation to ensure required PME are adequate considered and covered by relevant Construction Noise Permit.</p> <p>In view of the recent concern over restricted hours construction operations, a meeting was held amongst the CEDD, the RSS team, the Contractor of HK/2009/02 and the Environmental Team on 21 July 2017 to review the site control measures and enhancement measures to be adopted for restricted hours construction operations control for Construction Noise Permit Compliance. A detailed implementation plan would be prepared by the Contractor of HK/2009/02 and further supplemented.</p>	
<p>EPD complaint Case (CASE Ref: H05/RS/00 022136-17) dated 17 July 2017</p> <p>ICC complaint case (Ref: 2-4122021589) dated 14 July 2017</p>	14 July 2017	<p>EPD complaint referred to ET on 17 July 2017</p> <p>ICC complaint referred to ET on 25 July 2017</p>	Island Eastern Corridor near Provident Centre	Night time construction noise emanated from construction works conducted during early hours of 14 July 2017 at Island Eastern Corridor near Provident Centre.	<p>An EPD complaint was referred to the ET on 17 July 2017 (CASE Ref: H05/RS/00022136-17). The complainant reported that night time construction noise emanated from construction works conducted during early hours of 14 July 2017 at Island Eastern Corridor near Provident Centre.</p> <p>An ICC complaint case (Ref: 2-4122021589) was Referred to the ET on 25 July 2017. The complainant reported that the workers are now doing extremely noisy works at the Island Eastern Corridor near Provident Centre affecting the nearby residents.</p> <p>As the ICC complaint case refers to the noise concern at the same location at the same hours on the same date, hence the ICC case is considered as the same complaint case under the EPD complaint for investigation purpose.</p> <p>ET confirmed with the Resident Site Staff that emergency road repairing work including the repairing of movement joint at Pier 46 and three potholes along IEC Westbound was carried out under Contract HY/2009/19 around the concerned location from 0000hrs to 0600hrs on 14 July</p>	<p>Interim report submitted to the EPD on 25 July 2017.</p> <p>EPD advised on 20 Jun 2018 no comment on the interim report submitted and case closed.</p>





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>2017. Total 1 no. of hand held breaker and 1 no. of hand held drill for grout mixing were operated.</p> <p>According to the RSS site information, emergency road repairing work including the repairing of movement joint at Pier 46 and three potholes along IEC Westbound was carried out under Contract HY/2009/19 around the concerned location from 0000hrs to 0600hrs on 14 July 2017. Total 1 no. of hand held breaker and 1 no. of hand held drill for grout mixing were operated. A written advance notification was issued to the EPD on 13 July 2017 regarding the aforesaid emergency road repairing works.</p> <p>In view of the public concern, the Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measure for future emergency road repairing works, if any, at night time hours around the concerned location. In response to the public concern, the Contractor of HY/2009/19 would adopt the following additional measures for future emergency road repairing works including: i) For any emergency works requiring, for example, breaking or any other noisy activities, wherever possible, temporary noise barrier or acoustic mat will be use to fence of the line of sight between the noise emanating source and the NSR, ii) Covering breaking head with acoustic mat to minimize noise if breaking would be conducted and iii) complete noisy work as soon as possible to minimize disturbance to the nearby residents.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint Case (CASE Ref: H05/RS/00 022835-17) dated 21 July 2017	20 July 2017	EPD complaint referred to ET on 21 July 2017	Construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier	Mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.	<p>An EPD complaint was referred to the ET on 21 July 2017 (CASE Ref: H05/RS/00022835-17). The complainant reported that mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.</p> <p>ET confirmed with the Resident Site Staff that unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works.</p> <p>No construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.</p> <p>According to the RSS site information, unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works and relevant Construction Noise Permit GW-RS0348-17 was in place and noise barrier with surface mass density of not less than 5kg/m<sup>2</sup> was provided to the power generating part of the grab dredger operated from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. Meanwhile, no construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.</p> <p>In view of the public concern, the Contractor of HK/2009/02 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	<p>Interim report submitted to EPD on 26 July 2017.</p> <p>EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC complaint Case (CASE Ref: #2-416246715 1) dated 25 July 2017	25 July 2017	ICC complaint referred to ET on 26 July 2017	CEDD Construction Site near Wanchai Ferry Pier	No watering system was provided to the excavation works conducted at a CEDD Construction Site near Wanchai Ferry Pier resulting in dust impact to the public area beyond site hoarding.	<p>An ICC complaint was referred to the ET on 26 July 2017 (CASE Ref: #2-4162467151). The complainant reported that no watering system was provided to the excavation works conducted at a CEDD Construction Site near Wanchai Ferry Pier resulting in dust impact to the public area beyond site hoarding.</p> <p>ET confirmed with the Resident Site Staff that breaking works and backfilling works were conducted under Contract HK/2009/02 at the concerned location on 25 July 2017 afternoon.</p> <p>Dust mitigation measures including water spraying was implemented for the above construction activities on 25 July 2017 at the concerned location.</p> <p>According to the RSS site information, breaking works and backfilling works were conducted under Contract HK/2009/02 at the concerned location on 25 July 2017 afternoon while dust mitigation measures including water spraying was implemented for the above construction activities on 25 July 2017 at the concerned location. During Environmental Team ad hoc inspection conducted on 26 July 2017, water spraying was found insufficient to mitigate the extended area of breaking operation and construction dust impact to surroundings public area was observed. Subsequently, Contractor of HK/2009/02 was reminded to enhance the dust suppression measure for the dust generating works.</p> <p>In response to the observed environmental concern, the Contractor of HK/2009/02 has strengthened the water spraying coverage to all breaking operation area and haul road to minimize the potential dust impact. Follow up inspection was conducted by Environmental Team on 27 July 2017 and no further dust impact was observed.</p>	Investigation report issued on 04 August 2017 and case closed.
EPD complaint Case (CASE Ref: N/A) dated	24 August 2017	EPD complaint referred to ET on 06 September 2017	Portion 5 (West of Wanchai Ferry Pier) under Contract HK/2009/02	Site inspection record regarding improper dust suppression measure during excavation	EPD complaint regarding the inspection report issued by the EPD on 24 August 2017 on improper dust suppression measure during excavation was referred to the ET on 06 September 2017. As clarified with the EPD, the concerned location of the observation refers to Portion	Investigation report issued on 15 September 2017.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
06 September 2017					<p>5 (West of Wanchai Ferry Pier). ET confirmed with the Resident Site Staff that backfilling and compaction works were conducted under Contract HK/2009/02 for CWB Tunnel at the concerned location at Portion 5 (West of Wanchai Ferry Pier). According to RSS information, dust suppression measures including water spraying for stockpile stored on site was generally implemented by the Contractor of HK/2009/02 while it was observed and considered that the extent of water spraying was insufficient on 24 August 2017 at the aforesaid location.</p> <p>Follow up inspection was conducted by the Environmental Team on 08 September 2017. Concerned stockpile of dusty materials at the concerned location at Portion 5 was observed removed from site and mitigation measure including compaction and water spraying for exposed soil surface at Portion 5 were implemented and no particular dust impact was observed at the concerned location at Portion 5. Subsequent follow up inspection was conducted by the Environmental Team on 11 September 2017. Exposed surface at construction site area Portion 5 was observed compacted and partially maintained in dampened condition. Despite no particular dust impact was observed, the Contractor of HK/2009/02 was further advised to review the site condition and adequately implement the following construction dust mitigation measures, as appropriate, to avoid potential dust impact to the surroundings:-</p> <p>Exposed earth shall be properly treated by compaction, turfing, hydro seeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within 6 months after the last construction activity on the construction site or part of the construction site where the exposed earth lies to avoid potential dust impact;</p> <p>Stockpile of dusty materials, if any, shall be either covered entirely by impervious sheeting; or placed in an area sheltered on the top and the 3 sides; or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet and;</p> <p>Construction site surface with dusty materials should be sprayed with water to maintain entire surface wet to avoid</p>	EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					potential dust impact to the surroundings.	
ICC complaint Case (CASE Ref: #2-4242073505) dated 18 September 2017	18 September 2017	ICC complaint referred to ET on 19 September 2017	A section of Island East Corridor opposite to Victoria Park	On recent Sundays during midnight hours, noise were emanated from road construction works and excavators for consecutive hours without any noise mitigation measures.	<p>ICC complaint referred by RSS was received by ET on 19 September 2017 (CASE#2-4242073505). The complainant reported that on recent Sundays during midnight hours, noise were emanated from road construction works and excavators for consecutive hours without any noise mitigation measures.</p> <p>ET confirmed with the Resident Site Staff that Reinstatement of movement joint at Island East Corridor Westbound Carriageway was conducted under Contract HY/2010/08 between 0000hrs to 0700hrs on 10 September 2017(Sunday) and 17 September 2017(Sunday). Powered Mechanical Equipment (PME) including 2 nos. of electric breakers, 2 nos. of portable generator, 1 no. of saw cut machine, 2 nos. of grab lorry, 1 no. of mini concrete mixer, 1 no. of welding set and 1 no. of poker vibrator were deployed in separate groups between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017. Amongst the above, 2 nos. of electric breakers and 1 no. of saw cut machine were operated only between 0000hrs to 0200hrs and 1 no. of poker vibrator was only operated beyond 0600hrs.</p> <p>Noise Mitigation measure including acoustic enclosure were provided locally for the use of electric breaker, portable generator and saw cut machine between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017.</p> <p>xix. ET confirmed with the Resident Site Staff that reinstatement of movement joint at Island East Corridor Westbound Carriageway was conducted under Contract</p>	Final Investigation report issued on 30 September 2017 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>HY/2010/08 between 0000hrs to 0700hrs on 10 September 2017(Sunday) and 17 September 2017(Sunday). Powered mechanical equipment (PME) including 2 nos. of electric breakers, 2 nos. of portable generator, 1 no. of saw cut machine, 2 nos. of grab lorry, 1 no. of mini concrete mixer, 1 no. of welding set and 1 no. of poker vibrator were deployed in separate PME groups between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017. Amongst the above, 2 nos. of electric breakers and 1 no. of saw cut machine were operated only between 0000hrs to 0200hrs and 1 no. of poker vibrator was only operated beyond 0600hrs on 10 and 17 September 2017. Noise Mitigation measure including acoustic enclosure were provided locally for the use of electric breaker, portable generator and saw cut machine between 0000hrs to 0700hrs on 10 September 2017 and 17 September 2017.</p> <p>Based on the site information, the aforesaid PMEs were deployed under the Construction Noise Permit GW-RS0697-17 while it was found the PMEs were deployed beyond the specified area under the Construction Noise Permit GW-RS0697-17. It was further found that operation of grab lorry for the removal of concrete debris was conducted beyond the specified period allowed under condition 4.d.2 of Construction Noise Permit GW-RS0697-17. Additionally, based on the site layout and the operation location of 2 nos. of electric breakers, it is considered that the operation of the two electric hand held breakers could not fulfil the condition 3.d.7. under Construction Noise Permit GW-RS0697-17.</p> <p>In view of the above findings, the Contractor of HY/2010/08 was requested to immediately implement the following rectification measures to ensure the strict compliance with the Noise Control Ordinance including i) Critically review the Construction Noise Permit(s) in force and renew the Construction Noise Permit(s), if necessary, for the tentative construction operations to ensure the strict compliance with the Construction Noise Permit under Noise Control Ordinance, ii) Review the site control system for construction works carried out during restricted</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					hours to ensure the PMEs deployed are in compliance with relevant Construction Noise Permit and iii) Fully review the construction method, sequence and schedule to ensure the construction operations and associated PMEs are operated within the specified allowable period in accordance with the relevant Construction Noise Permit.	
ICC complaint (CASE Ref: #2-432099603 6) dated 08 November 2017	08 November 2017	An ICC complaint was referred by RSS to the ET on 13 November 2017	Construction works area opposite to City Garden Block 9	Noise was emanated from construction works during morning hours from 0300hrs to 0500hrs and metal hammering noise was still emanated at night time	<p>An ICC complaint was referred by RSS to the ET on 13 November 2017 (CASE Ref: #2-4320996036). The complainant reported that noise was emanated from construction works conducted opposite to City Garden Block 9 during morning hours from 0300hrs to 0500hrs and metal hammering noise was still emanated at night time causing nuisance to nearby residence.</p> <p>ET confirmed with the Resident Site Staff that night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 40 around the concerned location from 0300hrs to 0500 hrs on 07 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed with relevant Construction Noise Permit GW-RS0837-17. No construction works was conducted under Contract HY/2009/19 from 1900hrs to 2300hrs on 07 November 2017. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 38 around the concerned location from 0300hrs to 0500hrs on 08 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed with relevant Construction Noise Permit GW-RS0837-17.</p> <p>Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 40 around the concerned location from 0300hrs to 0500 hrs on 07 November 2017. Crane lorry for panel removal and hand tools for fixing of nuts were deployed. Night work including nut fixing works for post supporting bracket of noise enclosure was conducted under Contract HY/2009/19 at IECL westbound bridge Pier 38 around the concerned location from 0300hrs to 0500hrs on 08 November 2017</p>	Investigation Report issued on 23 November 2017 and case closed



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					and crane lorry for panel removal and hand tools for fixing of nuts were deployed. Relevant Construction Noise Permit GW-RS0837-17 was in placed for the above construction activities conducted under Contract HY/2009/19 outside the Designated Area zone under Noise Control Ordinance. No construction works was conducted under Contract HY/2009/19 from 1900hrs to 2300hrs on 07 November 2017. In view of the public concern, the Contractor of HY/2009/19 is recommended to adopt soft face hammer to minimize potential noise emanation during works and ii) minimize potential bumping sound with the ground by good practice of material handling to reduce the potential nuisance caused to the surrounding residents. The Contractor of HY/2009/19 was further reminded to observe and strictly follow condition 3.d.7 under relevant Construction Noise Permit GW-RS0837-17.	
EPD complaint (Case ref: H08/RS/00037826-17) dated 24 November 2017	21 November 2017	An EPD complaint (Case ref: H08/RS/00037826-17) referred to the ET on 24 November 2017	North Point New Reclamation Area, Oil Street, North Point.	Noise was emanated from construction works conducted at around 2200hrs	An EPD complaint (Case ref: H08/RS/00037826-17) was referred to the ET on 24 November 2017. The complainant reported that noise was emanated from construction works conducted at around 2200hrs at North Point New Reclamation Area, Oil Street, North Point.  ET confirmed with the Resident Site Staff that welding works to the steel strut at Approach Ramp Phase 2 Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. No construction works was conducted under	Interim investigation report submitted to EPD on 08 December 2017.  EPD advised on 08 Jan 2018 no comment on





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					<p>HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs.</p> <p>Welding works to the steel strut at Approach Ramp Phase 2 (Portion X) were conducted under Contract HY/2009/19 on 20 November 2017 and total 3 nos. of welding machines were operated until 2130hrs. No works was conducted between 2130hrs to 2230hrs on 20 November 2017. Meanwhile, no construction works was conducted under HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs.</p> <p>Nevertheless, the Contractor of HY/2011/08 and the Contractor of HY/2009/19 were reminded to maintain proper site control and all construction activities to be conducted during restricted hours shall follow relevant Construction Noise Permit.</p>	the interim report submitted and case closed.
EPD complaint (H05/RS/39721-17) dated 15 December 2017	08 December 2017	An EPD complaint (Case Ref: H05/RS/39721-17) referred to ET on 15 December 2017	Construction site near the HKCEC and Wanchai Pier	Construction dust was generated from rock breaking activities of a construction site	<p>An EPD complaint was referred to the ET on 14 December 2017 (CASE Ref: H05/RS/39721-17). The complainant reported that construction dust was generated from rock breaking activities of a construction site near the HKCEC and Wanchai Pier on 08 December 2017 (0815hrs), causing nuisance.</p> <p>ET confirmed with the Resident Site Staff that breaking works and backfilling works were conducted under Contract HK/2009/02 at Portion 5 (Site Area near Wanchai Ferry Pier) on 08 December 2017 around 0815hrs and mitigation measure including water spraying was provided for the breaking works. According to the RSS site information, breaking works and backfilling</p>	<p>Interim investigation report submitted to EPD on 21 December 2017.</p> <p>EPD advised on 08 Jan 2018 no comment on</p>



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					works were conducted under Contract HK/2009/02 at Portion 5 (Site Area near Wanchai Ferry Pier) on 08 December 2017 around 0815hrs and mitigation measure including water spraying was provided for the breaking works. Follow up inspection was conducted on 19 December 2017, ground compaction and intermittent breaking works was observed while dust suppression was observed implemented at intervals under Contractor of HK/2009/02 while no particular dust emission was observed from the above works. Nevertheless, in view of the public concern, the Contractor of HK/2009/02 was reminded that adequate dust suppression measure shall be provided for breaking works and dusty surface to avoid dust emission and minimize any potential dust impact to the surroundings. The Contractor of HK/2009/02 is also recommended to arrange the breaking works, if any, to be conducted collectively at specified location to enhance the overall site control and effectiveness of dust suppression measure. The Contractor is also recommended to review the use of water truck or automatic water spraying system to enhance the overall dust suppression effectiveness.	the interim report submitted and case closed.
EPD complaint (H08/RS/0000972-18) dated 11 January 2018	08 January 2018	An EPD complaint (Case Ref: H08/RS/00000972-18) referred to ET on 11 January 2018	North Point new Reclamation Area. Oil Street	Night time construction noise after 7pm	An EPD complaint (Case ref: H08/RS/00000972-18) was referred to the ET on 11 January 2018. The complainant reported that night time construction noise after 7 pm near North Point New Reclamation Area, Oil Street, North Point.  ET confirmed with the Resident Site Staff that no construction works was conducted under Contract HY/2011/08 on 08 January 2018 from 1900hrs to 2300hrs at the concerned location. Concreting operation was conducted under Contract HY/2009/19 at Approach Ramp Phase 2 site area at Oil Street on 08 January 2018 from 1900hrs to 2030hrs. Total 1 no. of concrete truck, 1 no. of concrete pump and 2 nos. of vibratory pokers were in	Interim investigation report submitted to EPD on 23 January 2018. EPD advised no comment on 4 June 2018 on interim report submitted and case closed.



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					<p>operation.</p> <p>According to RSS confirmed information, no construction works was conducted under Contract HY/2011/08 on 08 January 2018 from 1900hrs to 2300hrs at the concerned location. Meanwhile, concreting operation was conducted under Contract HY/2009/19 at Approach Ramp Phase 2 site area at Oil Street on 08 January 2018 from 1900hrs to 2300hrs. Total 1 no. of concrete truck, 1 no. of concrete pump and 2 nos. of vibratory poker were operated without a valid Construction Noise Permit.</p> <p>In view of the above, the Contractor of HY/2009/19 was advised to i) fully review the Construction Noise Permit(s) in force and the tentative construction operations to ensure all construction operations during restricted hours strictly complies with the Construction Noise Permit and Noise Control Ordinance, ii) review the site control system for construction works during restricted hours and tighten the site supervision to ensure site compliance; iii) review the planned construction sequence and schedule to ensure all planned construction operations would be conducted within allowable period, shall any planned construction activities might extend beyond the specified allowed period, relevant necessary Construction Noise Permit(s) shall be applied for. In addition, the Contractor of HY/2009/19 is also recommended to provide briefing and training section to site staffs to enhance the site awareness and understanding on relevant construction noise permit(s) requirement during restricted hours.</p> <p>Follow up inspection during restricted hours was conducted by the Environmental Team on 18 January 2018, no construction operations was observed around the concerned location</p>	
EPD complaint (H08/RS/0001430-18) dated 17 January 2018	15 January 2018	An EPD complaint (Case Ref: H08/RS/00001430-18) referred to ET on 17 January 2018	2-8 Watson Road	Construction Dust was emitted from vehicles entering/ leaving construction site at 2-8 Watson Road	<p>An EPD complaint (Case ref: H08/RS/00001430-18) was referred to the ET on 17 January 2018. The complainant reported that construction dust was emitted from vehicles entering/leaving construction site at 2-8 Watson Road.</p> <p>ET confirmed with the Resident Site Staff that cable laying was conducted under Contract HY/2011/08 within</p>	Interim investigation report submitted to EPD on 29 January 2018. EPD advised



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					<p>the site area near Watson Road on 15 January 2018.</p> <p>No construction works was conducted under Contract HY/2009/19 near Watson Road on 15 January 2018.</p> <p>According to site information confirmed by RSS, cable laying was conducted under Contract HY/2011/08 within the site area near Watson Road on 15 January 2018 and no construction works was conducted under Contract HY/2009/19 near Watson Road on 15 January 2018. Based on review on relevant information, the concerned location of 2 – 8 Watson Road refers to a section of public road fronting the construction site entrance/ exit maintained by Contract HY/2009/19 at Watson Road.</p> <p>Follow up inspection was conducted by the Environmental Team on 17 January 2018. It was observed that wheel washing facilities and wheel washing for vehicles leaving from the construction site exit adjoining Watson Road was implemented by the Contractor HY/2009/19. No silt / soil deposition and no particular dust emission from the construction area under Contract HY/2009/19 and HY/2011/08 was observed. Separately, it was observed that non-CWB project construction waste skip containing dusty demolition waste and rubbles was placed at the concerned section of public road at 2 – 8 Watson Road and it was further noticed that non-CWB project construction area demarcation material was stored at 2-8 Watson road suggesting other non-CWB Projects had been undertaken around the concerned location. Nevertheless, in view of the public concern, the Contractor of HY/2011/08 and the Contractor of HY/2009/19 were reminded to maintain the dust mitigation measures provided for the construction site and construction operation to avoid potential dust impact to the surroundings. The Contractor of HY/2009/19 was also reminded to upkeep the construction site exit control and wheel washing practice to maintain the proper condition of site entrance to avoid potential dust impact to the nearby public area.</p>	no comment on 4 June 2018 on interim report submitted and case closed.
ICC complaint	3 February 2018	ICC complaint (CASE Ref: #-	Planter Area at Victoria Park boundary	Concern on an observed severely tilted tree with potential	An ICC complaint referred by RSS was received by ET on 06 February 2018 (CASE#2-4459226093). The	Investigation Report issued



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(CASE Ref: #2-4459226093) dated 03 February 2018		4459226093) dated 03 February 2018	adjacent to footbridge to Victoria Park Road	felling hazard. No fencing, no tree pit, trench and no irrigation pipe is observed	<p>complainant reported that there is concern on an observed severely tilted tree with potential felling hazard. No fencing, no tree pit, trench and no irrigation pipe is observed.</p> <p>ET confirmed with Resident Site Staff that the concerned tree is within the works area of HY/2010/08 and one of the roots of the concerned tree (<i>Liquidambar formosana</i>) to have suffered minor damaged by the nearby excavation works.</p> <p>Remedial works including i) nylon reinforcement ropes has been added to the existing 3 nos. of tying cables and covering of the slope surface with wet hessian for protection were carried out for the damaged root of the tree. Follow up inspection was conducted by the Environmental Team on 09 February 2018. It was observed that the concerned tree has been fortified and protected for restoration and no tilting was observed.</p> <p>In view of the nearby construction works, the Contractor is suggested to demarcate the tree protection zone for the concerned tree and fence off the tree protection zone to avoid further damage and placing of construction material, if feasible. The Contractor is also suggested to provide refreshment training for frontline works for tree protection, in particular, for trees retained of site in close proximity to active works front to avoid potential damage to retained trees</p>	on 26 February 2018 and case closed
EPD complaint (Case ref: H08/RS/00006600-18) was referred to the ET on 15 March 2018.	12 March 2018	An EPD complaint (Case ref: H08/RS/00006600-18) was referred to the ET on 15 March 2018.	Island Eastern Corridor near Wharf Road	Construction noise was emanated on Island Eastern Corridor (IEC) near Wharf Road at around 0800hrs on 12 March 2018	<p>An EPD complaint (Case ref: H08/RS/00006600-18) was referred to the ET on 15 March 2018. The complainant reported that Construction noise was emanated on Island Eastern Corridor (IEC) near Wharf Road at around 0800hrs on 12 March 2018</p> <p>ET confirmed with the Resident Site Staff that</p> <p>1. No construction works was conducted under Contract HY/2009/19 on IEC near Wharf Road from 0730hrs to 0830hrs on 12 March 2018.</p> <p>According to RSS confirmed information, no construction works was conducted under Contract HY/2009/19 on IEC near Wharf Road from 0730hrs to 0830hrs on 12 March</p>	<p>The interim report would be submitted to EPD on 28 March 2018.</p> <p>EPD advised no comment on 4 June 2018 on interim report submitted and case closed.</p>



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					2018 Nevertheless, in view of the public concern, the Contractor of HY/2009/19 was reminded to provide noise mitigation measure including temporary noise barrier and noise screen, as appropriate for potential noise impact associated works such as concrete breaking or cutting works, if any around the concerned location to avoid potential nuisance to surroundings.	
EPD complaint was referred to the ET on 16 March 2018 and subsequent information clarified by EPD on 19 March 2018 (CASE Ref: H05/RS/0005890-18).	4 March 2018	An EPD complaint was referred to the ET on 16 March 2018 and subsequent information clarified by EPD on 19 March 2018 (CASE Ref: H05/RS/0005890-18).	Construction Site "China State" near Lung Wo Road and Fenwick Street	Noise and smoke was emanated from the idling motor of a loader/bulldozer at a construction site, "China State", near Lung Wo Road and Fenwick Pier at around 0700hrs at 04 March 2018.	<p>An EPD complaint was referred to the ET on 16 March 2018 and subsequent information clarified by EPD on 19 March 2018 (CASE Ref: H05/RS/0005890-18). The complainant reported that:</p> <p>Noise and smoke was emanated from the idling motor of a loader/bulldozer at a construction site, "China State", near Lung Wo Road and Fenwick Pier at around 0700hrs at 04 March 2018.</p> <p>ET confirmed with the Resident Site Staff that</p> <ol style="list-style-type: none"> <li>1. No bulldozer/ loader was deployed on site under Contract No. HK/2012/08 around the concerned location on 04 March 2018 around 0700hrs.</li> </ol> <p>According to the RSS site information, No bulldozer/ loader was deployed on site under Contract No. HK/2012/08 around the concerned location on 04 March 2018 around 0700hrs. Follow up inspection was conducted by the Environmental Team, and no particular concern on dark smoke emission or noise emanation was observed from malfunctioning of the Powered Mechanical Equipment deployed on-site. Despite no concerned equipment was deployed under Contract HK/2012/08 on site on the concerned date and location as confirmed with the RSS, in view of the public concern, the Contractor of HK/2012/08 is reminded to maintain regular checking and maintenance for powered mechanical equipment deployed on-site. Also the Contractor of HK/2012/08 is reminded to throttle down any idle equipment on-site to avoid potential nuisance to the surroundings.</p>	The interim investigation report will be submitted to the EPD on 28 March 2018. EPD advised no comment on 7 May 2018 on interim report submitted and case closed.
ICC complaint case	12 March 2018	ICC complaint case referred to ET on 27 March	Island Eastern Corridor Link	Construction noise emanation from Road Construction Works	An ICC complaint (Case Ref: 2-4495970766, lodged at 0955hrs on 12 March 2018) was referred to the ET on 27 March 2018. The ICC hotline operator reported that a	Investigation Report issued on 12 April



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referred to ET on 27 March 2018		2018			<p>public complaint was referred by the Police Force regarding noise emanation from road construction works at North Point section Island East Corridor (IEC) near 19 Wharf Road at around 0920hrs on 12 March 2018. Further information regarding the same event was received via ICC hotline (Case ref: 2-449606553, lodged at 1004hrs on 12 March 2018) was referred to the ET on 27 March 2018. The complainant further reported that noise was emanated from road construction works on Island Eastern Corridor (IEC) near Yu Lee Mo Fan Memorial School. Temporary noise barrier observed to be transparent in nature was speculated to be ineffective; and it was observed that only 3 out of the 6 units of temporary noise barrier are installed. The complainant suggested that additional 6 sections of noise barrier shall be installed. The noise emanation was started from 0800hrs and he is a resident at 18 Wharf Road and his rest was adversely affected by the concerned noise emanation. He has contacted the Environmental Protection Department and the Police Force regarding the noise emanation. The Environmental Protection Department has replied that construction works conducted after 0700hrs does not violate statutory requirement while the Police Force has created an ICC complaint case file (2-4495970766) for follow up.</p> <p>ET confirmed with the Resident Site Staff that Concrete breaking works on IEC Eastbound near Pier F8 and Pier F9 was conducted under Contract HY/2009/19 from 0900hrs to 1000hrs on 12 March 2018.</p> <p>Noise mitigation measure including wrapping of breaking head with acoustic material was implemented. Enhancement measures including provision of 2.5m high temporary noise barrier were subsequent implemented on 12 March 2018.</p> <p>According to RSS confirmed information, concrete breaking works on IEC Eastbound near Pier F8 and Pier F9 was conducted under Contract HY/2009/19 from 0900hrs to 1000hrs on 12 March 2018. Noise mitigation measure including wrapping of breaking head with acoustic material was implemented. Enhancement measures including provision of 2.5m high temporary noise barrier were subsequent implemented on 12 March 2018.</p>	2018 and case closed.



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					<p>Based on review on relevant site record, noise impact associated with the breaking works on IECL opposite to the concerned location was observed across March 2018 and project related exceedances were recorded at nearby noise monitoring station at YLMF Memorial School across March 2018. Upon identification of the project related exceedance at YLMF memorial school noise monitoring station, the Contractor is requested to adopt remedial and enhancement measures to minimize the noise emanation and avoid noise impact to the nearby sensitive receivers.</p> <p>According to ET follow up checking, the following enhancement measures were proposed and implemented by the Contractor by 16 March 2018 :-</p> <ol style="list-style-type: none"><li>1. Provide additional temporary noise barrier and repair damaged or incomplete temporary noise barrier installed for the breaking works</li><li>2. Provide additional acoustics screen to the breaking tip in addition to temporary noise barrier installed</li><li>3. Provide covering of breaker tip with acoustic material for noise reduction</li><li>4. Conduct breaking works intermittently (No more than 15 mins within a 30 minutes interval)</li></ol> <p>Nevertheless, subsequent to 16 March 2018 it was observed at times that the above mitigation measures were not fully implemented by the Contractor throughout the remaining breaking works period. Upon identification of deficiency in mitigation measures, the Contractor has been requested to rectify any deficiency observed and ensure relevant noise mitigation measures are implemented and the observed deficiencies are rectified prior to resumption of the concerned impact associated works. According to Contractor information, the concerned breaking works have been completed by 26 March 2018.</p> <p>In view of the public concern and the identified noise concern, the Contractor of HY/2009/19 was reminded that, shall future breaking works be required to be conducted on IECL (at works area located at the East of the noise</p>	





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					enclosure), noise mitigation measure including but not limit to provision of temporary noise barrier with adequate height and extend and additional noise screen shall be proposed for ET/IEC review and confirmation prior to conducting the corresponding works to minimize the potential impact to the surroundings. The Contractor is also advised to review the adopt construction method with consideration on alterative PME with reduced noise emanation to minimize the potential noise impact to the surroundings.	
An ICC complaint (Case Ref: 2-453018077) was referred to the ET on 20 April 2018  An EPD complaint case (Case Ref: H08/RS/0009538-18) was referred to the ET on 23 April 2018	11 April 2018	An ICC complaint (Case Ref: 2-453018077) was referred to the ET on 20 April 2018  An EPD complaint case (Case Ref: H08/RS/0009538-18) was referred to the ET on 23 April 2018.	Island Eastern Corridor (Near Provident Centre, North Point)	Night time construction noise on Island Eastern Corridor outside Provident Centre at around 0110hrs on 11th April, 2018.	An ICC complaint (Case Ref: 2-453018077) was referred to the ET on 20 April 2018. The complainant reported that Noise pollution was caused by the road works performed by some workers during midnight at Island Eastern Corridor (near Provident Centre, North Point) from time to time. They have used heavy noisy machinery and shouted quite often which disturbed the residents near Provident Centre in North Point seriously.  An EPD complaint case (Case Ref: H08/RS/0009538-18) was referred to the ET on 23 April 2018. According to EPD information, the complainant stated that Night time construction noise on Island Eastern Corridor outside Provident Centre at around 0110hrs on 11th April, 2018. As the location, time and concern of the above complaints cased received are identical, the two complaints will be reported and consolidated into one complaint case for reporting.  ET confirmed with the Resident Site Staff that 1. No work was conducted under Contract HY/2009/19 from 2300hrs on 10 April 2018 to 0100hrs on 11 April 2018. 2. Installation and welding of steel frames of Traffic Sign FASS06 at works area opposite to Henrietta Secondary School was conducted under Contract HY/2009/19 between 0100hrs to 0600hrs on 11 April 2018. 3. Total 1no. of cherry picker, 1 no. of welding machine, 1 no. of lorry, 1 no. of grinder; 3 nos. of with flashing directional sign and 3 nos. of lorry mounted attenuator were deployed. Either one PME set consisting 1 no. of welding machine and 1 no. of cherry picker OR one PME	HyD will consolidate the input and reply to ICC and the interim investigation report was submitted to the EPD on 09 May 2018. EPD advised no comment on 4 June 2018 on interim report submitted and case closed.



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					<p>set consisting of 1 no. of lorry and 1 no. of grinder were operated between 0100hrs to 0600hrs on 11 April 2018 at the concerned works area.</p> <p>4. The following noise mitigation measures were implemented by Contractor of HY/2009/19 for the above construction works including:-</p> <ul style="list-style-type: none"><li>a) Operation of cherry picker within permanent noise barrier</li><li>b) Operation of welding machine and grinder inside acoustic enclosure</li><li>c) Switching off of lorry when idled</li></ul> <p>According to RSS confirmed information, no construction works was conducted under Contract HY/2009/19 from 2300hrs on 10 April 2018 to 0100hrs on 11 April 2018. Installation and welding of steel frames of Traffic Sign FASS06 at works area opposite to Henrietta Secondary School was conducted under Contract HY/2009/19 between 0100hrs to 0600hrs on 11 April 2018. Total 1 no. of cherry picker, 1 no. of welding machine, 1 no. of lorry, 1 no. of grinder; 3 nos. of with flashing directional sign and 3 nos. of lorry mounted attenuator were deployed. Either one PME set consisting 1 no. of welding machine and 1 no. of cherry picker OR one PME set consisting of 1 no. of lorry and 1 no. of grinder were operated between 0100hrs to 0600hrs on 11 April 2018 at the concerned works area. Noise mitigation measures including i) Operation of cherry picker within permanent noise barrier and ii) Operation of welding machine and grinder inside acoustic enclosure and iii) Switching off of lorry when idled were implemented by Contractor of HY/2009/19 for the above construction works. Relevant Construction Noise Permit numbered GW-RS0249-18 for the above construction works was in place for the construction works.</p> <p>In view of the public concern on the shouting by the workers, the Contractor is also recommended to adopt "walkie-talkie" for communication to avoid potential nuisance caused to the nearby residents. The Contractor of HY/2009/19 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of</p>	



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					the plant and equipment deployed to avoid potential nuisance to the nearby public.	
180625	11 June 2018	An EPD complaint was referred to the ET on 25 June 2018 (CASE Ref: H05/RS/000159 54-18).	Construction Site near Wan Chai Pier	Construction dust and muddy water discharge was found at the site near Wan Chai Pier on 11 June 2018 afternoon.	ET confirmed with the Resident Site Staff that marine construction activity of removal of TWCR4 and stockpile of fill material at WCR3 Area were conducted under the Contractor of HK/2009/02 on 11 June 2018 afternoon. The Contractor of HK/2009/02 reported that double silt curtain was in place as mitigation measures during the marine activity and regular spraying water was provided as dust mitigation measures at WCR3 Area. Follow-up inspection was conducted on 28 June 2018, excavation works was observed at WCR3 Area and mitigation measures including watering during excavation was generally in place. Other dust mitigation measure includes covering the stockpile material and watering the dusty surface and haul road were generally in place. No particular dust impact was observed. No muddy water discharge or surface runoff related water quality monitoring impact was observed at Contract HK/2009/02 site area. Mitigation measures for marine activity includes providing double layers of silt curtain to enclose the marine activity area was generally in place and additional tarpaulin was provided to cover the temporary cut slope to avoid the potential surface runoff. In view of the public concern, the Contractor of HK/2009/02 was reminded to keep review the performance of dust mitigation measures including watering during excavation and material handling, covering the stockpile material and watering the dusty surface and haul road to avoid potential dust impact and minimize any potential dust impact to the surroundings. The Contractor of HK/2009/02 was also reminded to maintain regular checking on the embankment, silt curtain and tarpaulin condition to ensure no gap / void to avoid potential water quality related impact.	The interim report will be submitted to EPD on 4 July 2018. EPD advised no comment on 28 September 2018 on the interim investigation report and case closed.
180831	31 August 2018	An EPD complaint was referred to the ET on 3 September 2018 (CASE Ref: H08/RS/000240)	Island Eastern Corridor outside Provident Centre	Night time construction noise on Island Eastern Corridor outside Provident Centre at around 1:00 a.m. on 31st August, 2018.	ET confirmed with the Resident Site Staff that 1) There was no construction activity undertaken by Contract HY/2011/08 at Island Eastern Corridor during the restricted hours from 2300hrs on 30 August 2018 to 0700hrs on 31 August 2018. 2) The Contractor of HY/2009/19 reported that paving work was conducted during the period of 0100hrs to 0600hrs at 31 August 2018 at the works area from D12 to F8 where	The interim report will be submitted to EPD on 14 September 2018. EPD advised



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		48-18).			<p>was located inside the noise semi-enclosure of IEC. Total 4 nos. dump truck, 1 nos. paver, 1 no. vibratory roller and 1no. road roller with QPME label were used for the paving work.</p> <p>Relevant Construction Noise Permit GW-RS0679-18 was in place for the construction works conducted during the above concerned periods. The</p> <p>PMEs operated during the concerned period was included in Construction Noise Permit GW-RS0679-18 Condition 3.a. Group F. Based on RSS</p> <p>information, the noise control measure listed in Construction Noise Permit GW-RS0679-18 Condition 3.d.9 including installation of engine exhaust silencers for asphalt paver and installation of absorbing lining to the engine compartment for road roller and vibratory roller were generally in place.</p> <p>Meanwhile, there is no sufficient information to conclude if the concerned asphalt paver installed with absorbing lining to the engine compartment; and concerned road roller and vibratory roller installed with engine exhaust silencers according to Construction Noise Permit GW-RS0679-18 Condition 3.d.9.</p> <p>In view of the above, the Contractor of HY/2009/19 was advised to critically check and confirm the noise control measures listed in Construction Noise Permit GW-RS0679-18 Condition 3.d.9 for concerned PMEs to ensure the operation of PMEs shall strictly follow the construction noise permit condition.</p> <p>The Contractor of HY/2009/19 was also reminded to maintain regular checking and maintenance of the PMEs and its noise control measures deployed to avoid potential nuisance to the nearby public.</p>	no comment on 1 November 2018 on the interim investigation report and case closed.
181204	4 December 2018	An ICC complaint (Case Ref: 2-4915837866, lodged at 0944hrs on 4 December 2018) was referred to the ET on 4 December 2018.	Man Po Street	Construction noise was generated from Man Po Street starting from midnight for two consecutive night.	<p>ET confirmed with the Resident Site Staff that</p> <ol style="list-style-type: none"> <li>1. No construction works was conducted under HY/2010/08 at Man Po Street after midnight on 2 and 3 December 2018.</li> <li>2. Resurfacing and road marking was conducted under HY/2011/08 at Man Po Street after midnight on 2 and 3 December 2018. The PME operation was listed as follow: <u>3 December 2018</u> 1:00 am: Hand-held Breaker (electric) x 1, Road Miller x 1, Dump truck x1, Portable generator x 1 2:00 am: Road sweeper x 1, Tack coat sprayer x 1,</li> </ol>	Investigation Report issued on 17 December 2018 and case closed



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					<p>Asphalt Paver x 1, Dump truck x 1, Road Roller x 1 3:00 am: Cleaning up &amp; off work before 6:00am 04 December 2018</p> <p>1:00 am: Hand-held Breaker (electric) x 1, Road Miller x 1, Dump truck x1, Portable generator x 1 2:00 am: Road sweeper x 1, Tack coat sprayer x 1, Asphalt Paver x 1, Dump truck x 1, Road Roller x 1 3:00 am: Cleaning up &amp; off work before 6:00am</p> <p>Relevant Construction Noise Permit GW-RS0969-18 was in place for the construction works conducted during the above concerned period and the PME operated during the concerned period was included in Construction Noise Permit GW-RS0969-18 Condition 3.a. Group A. Based on RSS information, the noise control measures listed in Construction Noise Permit GW-RS0969-18 Condition 3.d.5., including the use of acoustic enclosure for operation of Hand-held Breaker (electric) with Noise Emission Label showing a sound power level of <math>\leq 104\text{dB(A)}</math> and portable generator was generally in place. Noise control measures listed in Construction Noise Permit GW-RS0969-18 Condition 3.d.6 including sound absorbing lining and sound baffles for engine compartment and engine exhaust silencers for road miller, asphalt paver and road roller (with QPME label) was generally in place. In view of the above, the Contractor of HY/2011/08 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to nearby public.</p>	
190911	11 September 2019	EPD referred a complaint to ET on 25 September 2019 (CASE Ref: H05/RS/0002653 7-19).	Wan Shing Street, Wan Chai	Construction works under Contract No. HK/2009/02 was carried out at around 21:00 hours on 11 September 2019 at Wan Shing Street, Wan Chai with 1 generator and 1 concrete saw in operation. The works was suspected to contravene the Noise Control Ordinance, Cap. 400.	<p>ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>1. CEDD and RSS conducted the weekly ad-hoc site inspection on 11 September 2019 night time period;</li> <li>2. CEDD and RSS observed that one portable generator and one electrical hand held grinder were operated at about 20:45 hours;</li> <li>3. Construction Noise Permit GW-RS0734-19 could not cover the above mentioned PME operation from 1900 to 2300 on 11 September 2019 at Wan Shing Street area;</li> <li>4. RSS has immediately discussed with the Contractor's representative of Contract No. HK/2009/02 about the incident and the works was stopped;</li> <li>5. CEDD advised RSS to investigate the cause of accident</li> </ol>	The interim report was submitted to the EPD on 3 October 2019. <a href="#">The Contractor was plead guilty in the court hearing on 23 November 2020.</a>



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					<p>and provide action to prevent recurrence by 18 September 2019.</p> <p>An interview meeting was held amongst CEDD, RSS, Contractor's senior management of Contract No. HK/2009/02 and Environmental Team on 18 September 2019. The purpose of the meeting was to review "Supervision and Control Plan for Works in Restricted Hours" in order to avoid the recurrence of the non-compliance.</p> <p>The Contractor reported in the meeting that:</p> <p>a) Contractor deployed workers to carry out site preparation work after 7:00 p.m. on 11 September 2019 for the road repaving work at Wan Shing Street near the Society for the Prevention of Cruelty to Animals (SPCA) to commence at 11:00 p.m. on 11 September 2019. The site preparation work involved only manual works such as fixing the steel manhole cover frame in position, and powered mechanical equipment (PME) was not anticipated to be used.</p> <p>b) A Contractor's engineer, who was assigned to full-time supervise the site preparation works, had conducted briefing session on noise control to all workers beforehand. He had reminded the workers that no PME was allowed in operation for the preparation work before 11:00 p.m.</p> <p>c) At about 8:35 p.m., Contractor's engineer left the scene for a period of approximate 10 minutes in order to check road marking at another area. In the meantime, a worker used PME including one number of power supply generator and one number of hand-held grinder for grinding of the steel manhole cover frame for a very short period. Contractor's engineer then stopped the worker to use PME.</p> <p>The RSS supplemented in the meeting that:</p> <p>a) At the time of the incident, the RSS had already reminded Contractor's engineer on site immediately that non-compliance was recorded and no PME was allowed to use. Contractor's engineer then instructed the worker to stop using of PME and the worker stopped the use of PME. However, the use of the hand-held grinder to grind the steel manhole cover frame was observed again a few minutes later. CEDD and RSS immediately requested Contractor's engineer to take appropriate action. Contractor's engineer then stopped the worker to use PME.</p>	



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					<p>In view of the information gathered, the possible causes are as follow:</p> <ol style="list-style-type: none"> <li>1. Contractor did not deploy enough supervision staff on-site to check the CNP compliance of construction works during restricted hours;</li> <li>2. The workers did not follow the instruction of Contractor's engineer.</li> </ol> <p>The Corrective Action including the Contractor's engineer immediately stopped the worker to use PME implemented immediately and Preventative Action recommended are as follow:</p> <ol style="list-style-type: none"> <li>1) The Contractor of HK/2009/02 was recommended to fully review the "Supervision and Control Plan for Works in Restricted Hours";</li> <li>2) The Contractor of HK/2009/02 was recommended to provide comprehensive training to frontline supervisors and workers on the requirement and condition of CNP for the works, including no unplanned PME operation should be allowed in restricted hours;</li> <li>3) The Contractor of HK/2009/02 was recommended that all PME (Hand tools) not allowed to be used in the CNP should be removed from site during restricted hours;</li> <li>4) The Contractor of HK/2009/02 was recommended that the ignition device for the PME on site should be kept by the assigned responsible person and any workers intended to use of PME should obtain the permission from the assigned responsible person beforehand;</li> <li>5) The Contractor of HK/2009/02 was also recommended to assign a delegated personnel to conduct checking on the deployment of PME onsite during restricted hours to ensure only PME allowed under relevant Construction Noise Permit are operated.</li> </ol> <p>"Supervision and Control Plan for Works in Restricted Hours" (also known as Noise Abatement and Management Plan) was reviewed and updated by Contractor of HK/2009/02 on 2 October 2019. Other corrective and preventative measures were generally implemented and under on-going review on effectiveness by CEDD, RSS, ET and IEC.</p>	
191026	26 October 2019	An ICC complaint (Case Ref: 2-5906833748,	Westbound carriageway of the Island Eastern Corridor	Road improvement works on the westbound carriageway of the Island Eastern Corridor are	An ICC complaint was referred to the ET on 31 October 2019 (CASE Ref: CASE#2-5906833748). The complainant reported that:	Investigation Report issued on 9 November



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		lodged at 0215hrs on 26 October 2019) was referred to the ET on 31 October 2019.		being carried out around 2 a.m. without any noise mitigation measures, causing serious disturbance to residents of Provident Centre.	<p>Road improvement works on the westbound carriageway of the Island Eastern Corridor are being carried out around 2 a.m. without any noise mitigation measures, causing serious disturbance to residents of Provident Centre.</p> <p>ET confirmed with the Resident Site Staff that:</p> <p>The ICC complaint was recorded on 26 October 2019 at around 02:15. Emergency Construction Work (HyD Emergency Serial Number: EO1194) was notified to EPD on 25 October 2019 18:15. The Emergency Construction Work including replacement of movement joint and installation of defective noise panel at noise enclosure was conducted at Island Eastern Corridor West Bound at Pier 46 from 26 October 2019 01:00 to 05:30. During the concerned period, the PME operated and noise mitigation measure implemented were as follow:</p> <p>For replacement of movement joint:</p> <ul style="list-style-type: none"><li>- Total 2 no. of electric hand-held breakers, 2 no. of hand-held drills and 1 no. of welding set were operated;</li><li>- Noise mitigation measure including acoustic enclosure comprised of acoustics mat and plywood was provided to electric hand-held breakers.</li></ul> <p>For Installation of defective noise panel at noise enclosure:</p> <ul style="list-style-type: none"><li>- Total 1 no. of truck mounted aerial platform and 1 no. of hand-held drill were operated.</li></ul> <p>In view of the information gathered, the complaint was considered as related to noise nuisance from emergency construction work.</p> <p>The Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measure for future emergency construction work as below:</p> <ol style="list-style-type: none"><li>1. The Contractor of HY/2009/19 is recommended to make sure the noise enclosure deployed for breaking works or any other noisy activities shall be fenced between the direct line of sight between the noise emanating source and the NSR in order to minimize the noise impact. Standby noise mitigation measures such as noise barrier or noise enclosure is</li></ol>	2019 and case closed





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					<p>recommended to stored on-site for emergency deployment;</p> <ol style="list-style-type: none"> <li>2. The Contractor of HY/2009/19 is recommended to make use QPME(s), wherever possible, for emergency works to reduce the noise emission from site;</li> <li>3. The Contractor of HY/2009/19 is recommended to avoid multiple PMEs operated concurrently or reduce the amount of PMEs operated concurrently, wherever possible, to avoid cumulative noise impact;</li> <li>4. The Contractor of HY/2009/19 is recommended to complete the noisy work as soon as possible to minimize disturbance to nearby residents;</li> <li>5. The Contractor of HY/2009/19 is recommended to notify nearby noise sensitive receivers in advance, wherever possible for future emergency construction works.</li> </ol>	
200103	3 January 2020	An ICC complaint (CASE#3-6243582571, lodged at 11:23 on 6 January 2020) was referred to the ET on 8 January 2020.	Ground Level underneath carriageway of the Island Eastern Corridor	Construction works were carried out for the Central-Wanchai bypass - Eastern Distributor link at the construction sites near Ko Fung Court, Harbour Heights, 1-5 Fook Yum Road, Fortress Hill causing noise nuisance to the complainant.	<p>An ICC complaint was referred to the ET on 8 January 2020 (CASE Ref: CASE#3-6243582571). The complainant reported that:</p> <p>Construction works were carried out for the Central-Wanchai bypass - Eastern Distributor link at the construction sites near Ko Fung Court, Harbour Heights, 1-5 Fook Yum Road, Fortress Hill causing noise nuisance to the complainant.</p> <p>ET confirmed with the Resident Site Staff that:</p> <p>The ICC complaint was received on 3 January 2020 at 17:22. The construction activities undertaken at the concerned complaint date at the carriageway of the Island Eastern Corridor were concrete breaking works at ground level for further paving work.</p> <p>During the concerned period, noise mitigation measures implemented were listed as follow:</p> <ul style="list-style-type: none"> <li>- Erection of temporary noise barriers had been implemented for the construction activities conducted at the opposite Harbour Heights for slab breaking works;</li> <li>- The breaker head was wrapped with acoustic material to minimize noise nuisance to residences in the vicinity;</li> </ul>	Investigation Report issued on 21 January 2020 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>- The breaking works at the area closest to Harbour Heights were generally completed while the remaining breaking works would be shifted away from the concerned location.</p> <p>In view of the information gathered, the complaint was considered as related to noise nuisance from the breaking work. Despite the breaking works closest to Harbour Heights were completed and remaining breaking works would be shifted away from the concerned location, the Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measures for the remaining breaking works in order to prevent potential noise nuisance:</p> <ol style="list-style-type: none"> <li>1. The Contractor of HY/2009/19 is recommended to deployed temporary noise barrier and fenced between the direct line of sight between the noise emanating source and the NSR in order to minimize the noise impact;</li> <li>2. The Contractor of HY/2009/19 is recommended to wrap the breaker head with acoustic material to further reduce the noise impact during remaining breaking works;</li> <li>3. The Contractor of HY/2009/19 is recommended to avoid multiple PMEs operated concurrently or reduce the amount of PMEs operated concurrently, wherever possible, to avoid cumulative noise impact;</li> <li>4. The Contractor of HY/2009/19 is recommended to provide regular maintenance to PMEs in order to prevent excessive noise impact during operation;</li> <li>5. The Contractor of HY/2009/19 is recommended to complete the noisy work as soon as possible in order to minimize disturbance to nearby residents.</li> </ol>	
200409	9 April 2020	An ICC complaint (CASE#3-6309114870, lodged at 9:54 on 10 April 2020) was referred to the ET on 15 April 2020.	Eastern Corridor near the slip road for Tin Hau	Construction works carried out for the Central-Wanchai Bypass - Eastern Distributor link on the Eastern Corridor near the slip road for Tin Hau cause night time noise nuisance to the residents of Victoria Centre at around 3:30 a.m. on 8-9 April 2020.	<p>An ICC complaint was referred to the ET on 15 April 2020 (CASE Ref: CASE#3-6309114870). The complainant reported that:</p> <p>Construction works carried out for the Central-Wanchai Bypass - Eastern Distributor link on the Eastern Corridor near the slip road for Tin Hau cause night time noise nuisance to the residents of Victoria Centre at around 3:30 a.m. on 8-9 April 2020.</p>	Investigation Report issued on 24 April 2020 and case closed



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					<p>For Contract HY/2011/08 The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>No construction works were conducted by the Contractor of HY/2011/08 at the concerned location and period.</li> </ol> <p>For Contract HY/2009/19 The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>Installation of Single Noise Semi-enclosure PMMA panel for movement joint location near Pier 18 of IEC Westbound was undertaken on the concerned complaint date and period by the Contractor of HY/2009/19.</li> <li>Construction Noise Permit (CNP) no. GW-RS0074-20 had been granted for such construction works. The noise control measures as mentioned in Condition 3d. of the CNP had been implemented during the implementation of construction work. Group D specified in the CNP has been used in the concern period.</li> <li>Notification was made to EPD on 3 April 2020 prior to the construction as per condition 16 in Section 3d of the CNP.</li> <li>The PME listed in condition 3a of the CNP has been operated when none of the PME covered by the CNP GW-RS1005-19, GW-RS1013-19 and GW-RS1176-19 is operating.</li> <li>In order to ensure traffic safety and reduce traffic impact, the concerned construction work would be implemented at night time but not day time.</li> </ol> <p>In view of the information gathered, the complaint was considered as related to noise nuisance from the installation work at night time on IEC Westbound. Such works had been granted with CNP no. GW-RS0074-20 until 3 August 2020 and the concerned construction work need to be implemented at night time but not day time to avoid causing serious interruption to road transport.</p> <p>Despite such night works were granted with Construction Noise Permit, the Contractor of HY/2009/19 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs and the noise mitigation measures deployed are in compliance</p>	



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					with relevant Construction Noise Permit. The Contractor of HY/2009/19 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
200414	Night time of 14 April 2020	An ICC complaint (CASE#3-6311013576, lodged at 19:32 on 15 April 2020) was referred to the ET on 16 April 2020.	IEC near Provident Centre (near Wharf Road No. 37-53)	Construction works carried out at Island Eastern Corridor near Provident Centre (near Wharf Road No. 37-53) cause night time noise nuisance to the complainant.	<p>An ICC complaint was referred to the ET on 16 April 2020 (CASE Ref: CASE#3-6311013576). The complainant reported that:</p> <p>Construction works carried out at Island Eastern Corridor near Provident Centre (near Wharf Road No. 37-53) cause night time noise nuisance to the complainant.</p> <p>For Contract HY/2011/08 The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>No construction works were conducted by the Contractor of HY/2011/08 at the concerned location and period.</li> </ol> <p>For Contract HY/2009/19 The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>Road Resurfacing at IEC Westbound near Pier 44-53 was undertaken on the concerned complaint date and period by the Contractor of HY/2009/19.</li> <li>Construction Noise Permit (CNP) no. GW-RS0182-20 had been granted for such construction works. The noise control measures as mentioned in Condition 3d. of the captioned CNP had been implemented during the implementation of construction work. Group E specified in the CNP has been used in the concern period.</li> <li>Notification was made to EPD on 9 April 2020 prior to the construction as per condition 13 in Section 3d of the CNP.</li> <li>The PME listed in condition 3a of the CNP has been operated when none of the PME covered by the GW-RS0074-20 or GW-RS0192-20 is operating.</li> </ol> <p>The complaint was considered as related to noise nuisance from the road resurfacing work at night time on IEC Westbound. Such works had been granted with CNP no. GW-RS0182-20.</p> <p>Despite such night works were granted with Construction</p>	Investigation Report issued on 24 April 2020 and case closed



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					Noise Permit, the Contractor of HY/2009/19 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs and the noise mitigation measures deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2009/19 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
200419	19 April 2020	An ICC complaint (CASE#3-6312734220, lodged at 21:43 on 19 April 2020) was referred to the ET on 20 April 2020.	Piers 17-21 of IEC Westbound	The road lightings along westbound of IEC at section near Harbour Heights North Point caused nuisance to the complainant. After investigation, it was revealed that the nuisance was caused by the newly installed temporary lightings on the erected noise enclosure post at Piers 17-21 of IEC westbound.	<p>An ICC complaint was referred to the ET on 20 April 2020 (CASE Ref: CASE# 3-6312734220). The complainant reported that: The road lightings along westbound of IEC at section near Harbour Heights North Point caused nuisance to the complainant. After investigation, it was revealed that the nuisance was caused by the newly installed temporary lightings on the erected noise enclosure post at Piers 17-21 of IEC westbound.</p> <p>The ET confirmed with the Resident Site Staff that: The newly installed lightings on the erected noise enclosure posts at Piers 17-21 of IEC westbound are temporary in nature. The purpose of installing these temporary lightings is to replace the existing road lightings, which will obstruct the installation of noise barrier panels alongside the IEC westbound slow lane. On the day when the complaint was lodged, the temporary lightings were lit up on a trial basis to verify proper functioning of the equipment / system after installation.</p> <p>Mitigation measures implemented were listed as follow: 1. The temporary lightings will be shifted to IEC westbound slow lane side in order to minimize light nuisance to nearby residents as far as possible; 2. The temporary lightings alongside IEC westbound fast lane were removed on 23 April 2020.</p> <p>The complaint was considered as related to light nuisance to the residents of Harbour Heights due to the newly installed temporary lightings on the erected noise enclosure post at Piers 17-21 of IEC westbound. Below preventive actions were recommended: 1. Review duration of lighting test / switch off</p>	Investigation Report issued on 28 April 2020 and case closed



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					<p>unnecessary lightings when conduct the lighting test.</p> <p>2. Review the position of the lightings in order to reduce nuisance to nearby residents as far as possible.</p>	
200429	27 April 2020	An ICC complaint (CASE# 3-6316215362, lodged at 11:07 on 27 April 2020) was referred to the ET on 29 April 2020.	Landscape deck on top of the IEC at section near City Garden of North Point	Trees planted at the landscape deck on top of the IEC at section near City Garden of North Point blocked the view of the complainant's flat	<p>An ICC complaint was referred to the ET on 29 April 2020 (CASE Ref: CASE# 3-6316215362). The complainant reported that:</p> <p>The trees planted at the landscape deck on top of the IEC at section near City Garden of North Point blocked the view of the complainant's flat.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>It is confirmed that the location and species of the trees planted on Landscape Deck is tallied with the latest submitted landscape plan;</li> <li>The concerned trees located at Bay C5 of the Landscape Deck are newly planted trees (instead of transplanted trees); the planting of these trees have been successively carried out and completed from mid March 2020 to late April 2020.</li> <li>Regular maintenance (i.e. establishment works under C19 Contract) should be provided for the concerned trees including but not limited to (i) daily watering, and (ii) litter collection, pruning as well as weeding, when necessary. After the establishment works under C19, the soft landscaping works will be handed over and maintained by LCSD.</li> </ol> <p>In view of the information gathered, the complaint was considered as related to the newly planted trees at Bay C5 of the Landscape Deck completed from mid-March 2020 to late April 2020. The RSS confirmed that the location and species of the trees planted on Landscape Deck is tallied with the latest submitted landscape plan.</p> <p>Despite the RSS advised that the location and species of the trees on Landscape Deck were planted in according to the latest submitted landscape plan, the Contractor of HY/2009/19 was recommended to provide proper maintenance to the planted trees on the landscape deck.</p>	Investigation Report issued on 7 May 2020 and case closed
200504	4 May 2020	EPD referred a complaint to ET on 7 May 2020	At the site outside City Garden Block 11 under the management of	Noise arising from idling motor vehicle engines, vehicle parking warning sound and loading and	A public complaint (File Ref.: H08/RS/00009609-20) made to EPD on 4 May 2020 was referred to the ET on 7 May 2020 concerning nighttime noise nuisance arising from	The interim report was submitted to the



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		(CASE Ref: H08/RS/0000960 9-20).	Chun Wo Tunnel Management Limited	unloading activity.	lorries/trucks at the site outside City Garden Block 11 under the management of Chun Wo Tunnel Management Limited during midnight hours everyday. The complainant was concerned about noise arising from idling motor vehicle engines, vehicle parking warning sound and loading and unloading activity.  The ET confirmed with the Resident Site Staff that:  1. No construction activities were conducted by the Contractors of HY/2009/19 and HY/2011/08 at the concerned time and location (i.e. site area outside City Garden Block 11 under the management of Chun Wo Tunnel Management Limited)  ET confirmed with the Resident Site Staff that no construction activities were conducted by the Contractors of HY/2009/19 and HY/2011/08 at the concerned time and location (i.e. site area outside City Garden Block 11 under the management of Chun Wo Tunnel Management Limited)  As the noise nuisance was not related to road traffic noise, fixed plant noise, or the remaining construction activities as per the requirements under the EM&A manual for the Project, it is concluded that the complaint is not related to the construction/operation of the Project.	EPD on 19 May 2020. EPD advised no comment on 8 July 2020 on the interim report submitted and case closed.
200505	5 May 2020	EPD referred a complaint to ET on 7 May 2020 (CASE Ref: H08/RS/0000973 3-20).	Island Eastern Corridor near Wharf Road	Nighttime construction noise at Island Eastern Corridor near Wharf Road	A public complaint (File Ref.: H08/RS/00009733-20) made to EPD on 5 May 2020 was referred to the ET on 7 May 2020 concerning nighttime construction noise at Island Eastern Corridor near Wharf Road. According to the complainant, the construction work has been continuously creating loud noise every night, including the night at about 23:47hrs on 4 May 2020 and during midnight hours on 5 May 2020.  For Contract HY/2011/08 The ET confirmed with the Resident Site Staff that: 1. No construction works were conducted by the Contractor of HY/2011/08 at the concerned location and period.  For Contract HY/2009/19	The interim report was submitted to the EPD on 19 May 2020. EPD advised no comment on 8 July 2020 on the interim report submitted and case closed.



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					<p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>Road Resurfacing at IEC Westbound near Pier 44-53 was undertaken on the concerned complaint date and period by the Contractor of HY/2009/19.</li> <li>Construction Noise Permit (CNP) no. GW-RS0182-20 had been granted for such construction works. The noise control measures as mentioned in Condition 3d. of the captioned CNP had been implemented during the implementation of construction work. Group E specified in the CNP has been used in the concern period.</li> <li>Notification was made to EPD on 28 April 2020 prior to the construction as per condition 13 in Section 3d of the CNP.</li> <li>The PME listed in condition 3a of the CNP has been operated when none of the PME covered by the GW-RS0074-20 or GW-RS0192-20 is operating.</li> </ol> <p>The complaint was considered as related to noise nuisance from the road resurfacing work at night time on IEC Westbound. Such works had been granted with CNP no. GW-RS0182-20.</p> <p>Despite such night works were granted with Construction Noise Permit, the Contractor of HY/2009/19 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs and the noise mitigation measures deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2009/19 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
201029	29 October 2020	An ICC complaint (CASE# 3-6531472538, lodged at 14:35 on 29 Oct 2020) was referred to the ET on 2 November 2020.	Connaught Road Central in between Infinitus Plaza and Harbour Building	Construction works carried out at Connaught Road Central in between Infinitus Plaza and Harbour Building	<p>An ICC complaint was referred to the ET on 2 November 2020 (CASE Ref: CASE# 3-6531472538). The complainant reported that:</p> <p>Construction works carried out at Connaught Road Central in between Infinitus Plaza and Harbour Building had caused noise nuisance to the complainant.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>Construction activities including (i) formwork erection underneath the Rumsey Street Flyover and (ii) concrete breaking works for existing</li> </ol>	Investigation Report issued on 18 November 2020 and case closed





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>median barriers on Rumsey Street Flyover were carried out on 29 October 2020.</p> <ol style="list-style-type: none"><li>Noise control measures including wrapping of the breaker with acoustic mat and installation of temporary noise barrier along the median barrier were implemented during the concrete breaking works.</li><li>The mentioned construction activities at the concerned location were anticipated to be completed by February 2021.</li></ol> <p>The complaint was considered as related to the formwork erection works and concrete breaking works at Rumsey Street Flyover. Despite the RSS advised that noise control measures including wrapping of the breaker with acoustic mat and installation of temporary noise barrier along the median barrier were implemented during the concrete breaking works, the Contractor of HY/2009/19 was recommended to adopt additional noise mitigation measures for the remaining breaking works in order to prevent potential noise nuisance as below:</p> <ol style="list-style-type: none"><li>The Contractor of HY/2009/19 was recommended to avoid multiple PMEs operated concurrently or reduce the amount of PMEs operated concurrently, wherever possible, to avoid cumulative noise impact.</li><li>The Contractor of HY/2009/19 was recommended to provide regular maintenance to PMEs in order to prevent excessive noise impact during operation.</li><li>The Contractor of HY/2009/19 was recommended to complete the noisy work as soon as possible in order to minimize disturbance to nearby sensitive receivers.</li></ol>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
201119	19 November 2020	An ICC complaint (CASE# 3-6559821414, lodged at 16:18 on 20 November 2020) was referred to the ET on 20 November 2020.	The promenade near Watson Road opposite Victoria Centre	Construction works carried out near Harbour Height had caused noise nuisance to the complainant.	<p>An ICC complaint was referred to the ET on 20 November 2020 (CASE Ref: CASE# 3-6559821414). Construction works carried out near Harbour Height had caused noise nuisance to the complainant. The complainant would also like to know the scheduled timeline for the construction works.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>1. Commencement for the construction of the Promenade near Watson Road opposite Victoria Centre by break-open of Concrete surface;</li> <li>2. Corresponding noise control measures implemented are breaker head wrapped with acoustic material, and further noise mitigation measures including placement of temporary noise barriers at the concrete breaking location were implemented since 21 November 2020;</li> <li>3. The activity of concrete breaking works is in progress and is anticipated to complete by end December 2020 according to the Contractor's information.</li> </ol> <p>The complaint was considered as related to the concrete breaking work at the Promenade near Watson Road opposite Victoria Centre. Despite the RSS advised that noise control measures including wrapping of the breaker with acoustic mat was implemented during the concrete breaking works, the Contractor of HY/2009/19 was recommended to adopt additional noise mitigation measures for the remaining breaking works in order to prevent potential noise nuisance as below:</p> <ol style="list-style-type: none"> <li>1. The Contractor of HY/2009/19 is recommended to deployed temporary noise barrier and fenced between the direct line of sight between the noise source and the NSR in order to minimize the noise impact;</li> <li>2. The Contractor of HY/2009/19 was recommended to avoid multiple PMEs operated concurrently or reduce the amount of PMEs operated concurrently, wherever possible, to avoid cumulative noise impact;</li> <li>3. The Contractor of HY/2009/19 was recommended to provide regular maintenance to PMEs in order to prevent excessive noise impact during operation;</li> </ol>	Investigation Report issued on 3 December 2020 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					4. The Contractor of HY/2009/19 was recommended to complete the noisy work as soon as possible in order to minimize disturbance to nearby sensitive receivers.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
201129	29 November 2020	An ICC complaint (CASE# 3-6572708255, lodged at 15:46 on 29 November 2020) was referred to the ET on 9 December 2020.	SR13	The newly planted trees at SR13 were suspected to be unhealthy and withered	<p>An ICC complaint was referred to the ET on 9 December 2020 (CASE Ref: CASE# 3-6572708255). The complainant reported that the newly planted trees at SR13 were suspected to be unhealthy and withered.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"><li>1. It is confirmed that the location and species of the concerned planted trees are tallied with the latest approved landscape plan.</li><li>2. The planting date for such trees is 19 October 2020.</li><li>3. Regular maintenance (i.e. establishment works under C19 Contract) should be provided for the concerned trees including but not limited to (i) daily watering and (ii) pruning when necessary. After the establishment works under C19, the soft landscaping works will be handed over and maintained by LCSD.</li><li>4. Latest concern tree information: (i) Species – <i>Lagerstroemia speciosa</i> (ii) Health condition – Fair (iii) Planting location – SR13</li></ol> <p>In view of the above information, the complaint was considered as related to the newly planted trees at SR13. The planting date for such trees is 19 October 2020. The RSS confirmed that the location and species of the concerned trees planted at SR13 are tallied with the latest submitted landscape plan and health condition of such trees is fair.</p> <p>Despite the RSS advised that the location and species of the trees at SR13 were planted in according to the latest submitted landscape plan and health condition of such trees is fair, the Contractor of HY/2009/19 was recommended to provide proper maintenance to the planted trees at SR13. A follow-up inspection was conducted for the trees at SR13 on 16 December 2020 and was found tally with the information provided by the Contractor.</p>	Investigation Report issued on 29 December 2020 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
210311	8 March 2021	An ICC complaint (CASE# 3-6647057872, lodged at 14:26 on 9 March 2021) was referred to the ET on 10 March 2021.	The marine pile caps in front of City Garden Block 6	Suspected disposal of construction waste into the sea	<p>An ICC complaint was referred to the ET on 10 March 2021 (CASE Ref: CASE# 3-6647057872). The complainant reported that suspected disposal of construction waste into the sea was observed at the works area underneath IEC on 8 March 2021 and video could be provided for follow-up.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"><li>1. The complainant was unable to be reached at this moment and no such video is available;</li><li>2. According to the site records, removal of the temporary work at the marine pile caps in front of City Garden Block 6 was undertaken on the date of the incident (8 March 2021);</li><li>3. The construction waste handling procedures for the concerned construction activities are as follows:<ol style="list-style-type: none"><li>I. Break up temporary concrete plinths on the pile caps underneath existing IEC bridge;</li><li>II. Clear the concrete debris by collecting them in nylon bags; and</li><li>III. Transport the occupied nylon bags to stockpile area at land portion of C19 site by marine vessel for further disposal off site to Public Fill Reception Facilities by dump truck.</li></ol></li></ol> <p>As the video mentioned in the complaint is unavailable, there is no sufficient information to conclude that the complaint was considered as related to the removal of the temporary work at the marine pile caps in front of City Garden Block 6.</p> <p>Despite the RSS advised that specific construction waste handling procedures for removal of the temporary work at the marine pile caps were available on the date of incident, the Contractor of HY/2009/19 was recommended to provide training to site personnel in proper waste management as preventive measure.</p>	Investigation Report issued on 19 March 2021 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
210624	24 June 2021	An ICC complaint was referred to the ET on 6 July 2021 (CASE Ref: CASE# 3-6788238049).	Noise enclosure of IEC near the block 8 of City Garden	Construction works carried out during night time at noise enclosure of IEC had caused noise nuisance to the complainant.	<p>An ICC complaint was referred to the ET on 6 July 2021 (CASE Ref: CASE# 3-6788238049). The complainant reported that:</p> <p>Construction works carried out during night time at noise enclosure of IEC had caused noise nuisance to the complainant.</p> <p>The ET confirmed with the Resident Site Staff that :</p> <ol style="list-style-type: none"><li>1. The construction activities undertaken by HY/2009/19 on 24 June 2021 early morning were (1) make-good of defects and conducted welding test for noise enclosure steel members (PME used: Cherry picker × 3, hand-held grinder × 1) and (2) installation of trunking for lighting inside the noise enclosure (PME used: Cherry picker × 2, hand-held drill (battery) × 2);</li><li>2. Hand-held drill (battery) and hand-held grinder were operated inside acoustic enclosure;</li><li>3. PME in Group E of GW-RS0361-21 were operated.</li><li>4. Notification was made to EPD on 15 June 2021 prior to the construction as condition 9 in Section 3d of the CNP.</li></ol> <p>The complaint was considered as related to the welding test and installation work at the noise enclosure. Such works had been granted with GW-RS0361-21.</p> <p>Despite such night works were granted with Construction Noise Permit, the Contractor of HY/2009/19 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs and the noise mitigation measures deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2009/19 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	Investigation Report issued on 23 July 2021 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
210926	27 September 2021	A public complaint made to EPD was referred to the ET on 4 October 2021 (EPD's Ref.: H08/RS/0002299 3-21)	Island Eastern Corridor near Wharf Road	Not specified	<p>A public complaint (File Ref.: H08/RS/00022993-21) made to EPD was referred to the ET on 4 October 2021 concerning nighttime construction noise at Island Eastern Corridor near Wharf Road and EPD's clarification of the complaint date of issued memo. According to the complainant, the noise from drilling and construction works at Island Eastern Corridor near Wharf Road, North Point at about 00:00 hrs on 27.9.2021 was unacceptably loud and caused great disturbance to the nearby residents.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"><li>1. The construction activities undertaken by HY/2009/19 from 26 September 2021 22:00 to 27 September 2021 06:00 were road milling and resurfacing works at IEC Eastbound.</li><li>2. PMEs in Group E of GW-RS0637-21 were operated for milling works and PMEs in Group F of GW-RS0637-21 were operated for resurfacing works. Only one group of PMEs were operating at one time.</li><li>3. Portable generator and hand-held breaker were operated inside acoustic enclosure.</li><li>4. The road miller (CNP184) adopted the noise control</li></ol>	Interim Report issued to EPD on 19 October 2021



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status						
					<p>measures under condition 3.d.8 of GW-RS0637-21.</p> <p>5. CNP GW-RS0637-21 was granted for the abovementioned works, notifications to EPD and nearby residents were made.</p> <p>In view of the above, the complaint was considered as related to noise nuisance from the road milling and resurfacing works at IEC Eastbound in restricted hours. Such works had been granted with CNP no. GW-RS0637-21 and the checked restricted works is operated as per the CNP GW-RS0637-21.</p> <p>Despite such night works were granted with Construction Noise Permit, the Contractor of HY/2009/19 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs and the noise mitigation measures deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2009/19 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>							
211017	17 October 2021	A public complaint made to EPD was referred to the ET via email on 20 October 2021	Island Eastern Corridor near Wharf Road	Not specified	<p>A public complaint made to EPD was referred to the ET via email on 20 October 2021 concerning the noise from road resurfacing works at Island Eastern Corridor near Wharf Road, North Point at night recently had caused great disturbance to the nearby residents.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>The construction activities undertaken by HY/2009/19 between 15/10/2021 to 18/10/2021, relevant CNPs granted for the works, number and type of PME(s) deployed for the works were tabulated as below:</li> </ol> <table border="1"> <tr> <td>Date &amp; Time</td> </tr> <tr> <td>Construction activities</td> </tr> <tr> <td>CNPs granted for the works</td> </tr> <tr> <td>Number and Type of PME(s) deployed</td> </tr> <tr> <td>15/10/21 21:30 – 16/10/21 06:00</td> </tr> <tr> <td>Road resurfacing works on</td> </tr> </table>	Date & Time	Construction activities	CNPs granted for the works	Number and Type of PME(s) deployed	15/10/21 21:30 – 16/10/21 06:00	Road resurfacing works on	Interim Report issued to EPD on 29 October 2021
Date & Time												
Construction activities												
CNPs granted for the works												
Number and Type of PME(s) deployed												
15/10/21 21:30 – 16/10/21 06:00												
Road resurfacing works on												





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status								
					<table border="1"> <tr><td>IECL Westbound</td></tr> <tr><td>CNP GW-RS0553-21</td></tr> <tr><td>Group E, Group F of GW-RS0553-21, only one group was operating at a time</td></tr> <tr><td>16/10/21 22:00 – 17/10/21 06:00</td></tr> <tr><td>17/10/21 22:00 – 18/10/21 06:00</td></tr> <tr><td>Road resurfacing works on IECL Eastbound</td></tr> <tr><td>CNP GW-RS0637-21</td></tr> <tr><td>Group E, Group F of GW-RS0637-21, only one group was operating at a time</td></tr> </table> <p>2. Portable generator and hand-held breaker were operated inside acoustic enclosure.</p> <p>3. The road miller (CNP184) adopted the noise control measures under condition 3.d.8 of GW-RS0637-21 and condition 3.d.9 of GW-RS0553-21.</p> <p>4. Notifications to EPD and nearby residents were made for the works.</p> <p>5. Only GW-RS0553-21 was used for the road resurfacing works on IECL Westbound between 15/10/21 21:30 and 16/10/21 06:00. CNPs GW-RS0361-21 and GW-RS0469-21 were not used in the abovementioned period.</p> <p>6. Only GW-RS0637-21 was used for the road resurfacing works on IECL Eastbound between 16/10/21 22:00 – 17/10/21 06:00 and 17/10/21 22:00 – 18/10/21 06:00. CNPs GW-RS0361-21, GW-RS0469-21, GW-RS0553-21 or GW-RS0628-21 were not used in the abovementioned periods.</p>	IECL Westbound	CNP GW-RS0553-21	Group E, Group F of GW-RS0553-21, only one group was operating at a time	16/10/21 22:00 – 17/10/21 06:00	17/10/21 22:00 – 18/10/21 06:00	Road resurfacing works on IECL Eastbound	CNP GW-RS0637-21	Group E, Group F of GW-RS0637-21, only one group was operating at a time	
IECL Westbound														
CNP GW-RS0553-21														
Group E, Group F of GW-RS0553-21, only one group was operating at a time														
16/10/21 22:00 – 17/10/21 06:00														
17/10/21 22:00 – 18/10/21 06:00														
Road resurfacing works on IECL Eastbound														
CNP GW-RS0637-21														
Group E, Group F of GW-RS0637-21, only one group was operating at a time														
211108	8 November 2021	A public complaint made to EPD was	Island Eastern Corridor near Wharf Road	Not specified	A public complaint made to EPD was referred to the ET via email on 9 November 2021 concerning the	Interim Report issued to EPD								



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		referred to the ET via email on 9 November 2021			<p>construction noise causing nuisance to the residents at City Garden Block 6.</p> <p>The ET confirmed with the Resident Site Staff that:</p> <ol style="list-style-type: none"> <li>The construction activities undertaken by HY/2009/19 from 8 November 2021 22:00 to 9 November 2021 06:00 were road milling and resurfacing works at IEC Westbound.</li> <li>PMEs in Group E of GW-RS0553-21 were operated for milling works and PMEs in Group F of GW-RS0553-21 were operated for resurfacing works. Only one group of PMEs were operating at one time.</li> <li>Portable generator and hand-held breaker were operated inside acoustic enclosure.</li> <li>The road miller (CNP184) adopted the noise control measures under condition 3.d.9 of GW-RS0553-21.</li> <li>CNP GW-RS0553-21 was granted for the abovementioned works and notifications to EPD and nearby residents were made.</li> <li>Only PMEs in Group E or Group F under CNP GW-RS0553-21 were operated. CNPs GW-RS0361-21 and GW-RS0469-21 were not used</li> </ol> <p>The complaint was considered as related to noise nuisance from road milling and resurfacing works at IEC Westbound in restricted hours. Such works had been granted with CNPs no. GW-RS0553-21. The checked restricted works were operated as per the CNPs. Despite such night works were granted with Construction Noise Permit, the Contractor of HY/2009/19 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs and the noise mitigation measures deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2009/19 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	on 29 November 2021
211214	10 December 2021	An ICC complaint was referred to the ET on 14 December 2021 (CASE Ref:	IECL Eastbound Near City Garden	Construction works carried out at Eastbound near City Garden during mid-night had caused noise nuisance	<p>An ICC complaint was referred to the ET on 14 December 2021 (CASE Ref: CASE# 3-7015461467). The complainant reported that:</p> <p>Construction works carried out at Eastbound near City</p>	Investigation Report issued on 4 Jan 2022



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		CASE# 3-7015461467			<p>Garden during mid-night had caused noise nuisance to the complainant. According to the complainant, nearby residents were seriously disturbed by the beeping sound emit from the construction activities.</p> <p>The ET confirmed with the Resident Site Staff that :</p> <ol style="list-style-type: none"><li>1. Road resurfacing works on IECL Eastbound were conducted during the following time period:<ul style="list-style-type: none"><li>- 20/11/21 22:00 to 21/11/21 06:00;</li><li>- 27/11/21 22:00 to 28/11/21 06:00; and</li><li>- 04/12/21 22:00 to 05/12/21 06:00.</li></ul></li><li>2. Corresponding noise control measures implemented during the construction periods including operation of portable generator and hand-held breaker inside acoustic enclosure. Adoption of noise control measures under condition 3.d.8 of GW-RS0637-21 for the use of road miller (CNP184).</li><li>3. CNP GW-RS0637-21 was granted for the abovementioned works and notifications to EPD and nearby residents were made.</li><li>4. Dump trucks and lorries would emit beeping sound when the vehicles are backing up.</li><li>5. Only PMEs in Group E or F under CNP GW-RS0637-21 were operated. CNPs GW-RS0361-21, GW-RS0469-21, GW-RS0553-21 and GW-RS0628-21 were not used.</li></ol> <p>According to RSS confirmed information, road surfacing works were conducted at the concerned location under Contract HY/2009/19 from 2200hrs on 20 November 2021 to 0600hrs on 21 November 2021, 2200hrs on 27 November 2021 to 0600hrs on 28 November 2021, and 2200hrs on 04 December 2021 to 0600hrs on 05 December 2021. Beeping sound were emitted by the dump truck and lorries when moved in reverse. Noise mitigation measures including i) operation of portable</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>generator and hand-held breaker inside acoustic enclosure and ii) Noise control measures for road miller (CNP 184) was adopted in accordance with condition 3.d.8 of GW-RS0637-21. Relevant Construction Noise Permit GW-RS0637-21 for the above construction works was in place.</p> <p>In view of the public concern, the Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measure for road works at night time hours around the concerned location. In response to the public concern, the Contractor of HY/2009/19 would adopt the following additional measure including provision of temporary noise barrier or acoustic mat to fence off the line of sight between the noise emanating source and the NSR. The Contractor was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
211230	30 December 2021	An ICC complaint was referred to the ET on 4 January 2022 (CASE Ref: CASE#3-6963952612)	IECL Eastbound	Construction works carried out at IECL Eastbound during night-time at around 11:00PM had caused noise nuisance to the nearby residents.	<p>An ICC complaint was referred to the ET on 4 January 2022 (CASE Ref: CASE#3-6963952612). The complainant reported that:</p> <p>Construction works carried out at IECL Eastbound during night-time at around 11:00PM had caused noise nuisance to the nearby residents.</p> <p>The ET confirmed with the Resident Site Staff that :</p> <ol style="list-style-type: none"> <li>Road resurfacing works on IECL Eastbound was carried out by Contract HY/2009/19 from 30 December 2021 22:00 to 31 December 2021 06:00.</li> <li>Only one group of PMEs in Group E or F under CNP GW-RS0637-21 was operated at one time. CNPs GW-RS0361-21, GW-RS0469-21, GW-RS0553-21 and GW-RS0628-21 were not used.</li> <li>Noise control measures were implemented during the construction periods including</li> </ol>	Investigation Report issued on 27 Jan 2022



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>operation of portable generator and hand-held breaker inside acoustic enclosure. Adoption of noise control measures under condition 3.d.8 of GW-RS0637-21 for the use of road miller (CNP184).</p> <p>4. CNP GW-RS0637-21 was granted for the abovementioned works and notifications to EPD and nearby residents were made.</p> <p>The complaint was considered as related to the road resurfacing works on IECL Eastbound. Despite the RSS advised that noise control measures including operation of portable generator and hand-held breaker inside acoustic enclosure and adoption of noise control measures for the use of road miller (CNP184) in accordance with condition 3.d.8 of GW-RS0637-21, the Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measure for road works at night time hours around the concerned location.</p> <p>In response to the public concern, the Contractor of HY/2009/19 should implement the following additional measure including erection of temporary noise barriers to reduce the line-of-sight noise transmission to nearby NSRs. The Contractor was recommended to complete the noisy work as soon as possible in order to minimize disturbance to nearby sensitive receivers. The Contractor was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	
220105	05 January 2022	An ICC complaint was referred to the ET on 06 January 2022 (CASE Ref: CASE#3-7051781753)	IECL near Provident Centre	Construction works carried out at IECL near Provident Centre during night-time from 2200 to 2400 had caused noise nuisance to the nearby residents.	<p>An ICC complaint was referred to the ET on 06 January 2022 (CASE Ref: CASE#3-7051781753). The complainant reported that:</p> <p>Construction works carried out at IECL near Provident Centre during night-time from 2200 to 2400 had caused noise nuisance to the nearby residents.</p> <p>The ET confirmed with the Resident Site Staff that :</p> <ol style="list-style-type: none"> <li>Road resurfacing works on IECL Eastbound</li> </ol>	Investigation Report issued on 27 Jan 2022



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>was carried out by Contract HY/2009/19 from 4 January 2022 22:00 to 5 January 2022 06:00.</p> <ol style="list-style-type: none"> <li>2. Only one group of PMEs in Group E or F under CNP GW-RS0637-21 was operated at one time. CNPs GW-RS0361-21, GW-RS0469-21, GW-RS0553-21 and GW-RS0628-21 were not used.</li> <li>3. Noise control measures were implemented during the construction periods including operation of portable generator and hand-held breaker inside acoustic enclosure. Adoption of noise control measures under condition 3.d.8 of GW-RS0637-21 for the use of road miller (CNP184).</li> <li>4. CNP GW-RS0637-21 was granted for the abovementioned works and notifications to EPD and nearby residents were made.</li> </ol> <p>The complaint was considered as related to the road resurfacing works on IECL near Provident Centre. Despite the RSS advised that noise control measures including operation of portable generator and hand-held breaker inside acoustic enclosure and adoption of noise control measures for the use of road miller (CNP184) in accordance with condition 3.d.8 of GW-RS0637-21, the Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measure for road works at night time hours around the concerned location. In response to the public concern, the Contractor of HY/2009/19 should implement the following additional measure including erection of temporary noise barriers to reduce the line-of-sight noise transmission to nearby NSRs. The Contractor was recommended to complete the noisy work as soon as possible in order to minimize disturbance to nearby sensitive receivers. The Contractor was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
220116	16 January 2022	A public complaint made to EPD was referred to the ET via email on 17 January 2022	Island Eastern Corridor	Intermittent loud construction noise generated from the Island Eastern Corridor during 00:00 to 01:30 hrs starting from Jan 2022 has caused great nuisance to the nearby residents.	<p>A public complaint made to EPD was referred to the ET via email on 17 January 2022 concerning the intermittent loud construction noise generated from the Island Eastern Corridor during 00:00 to 01:30 hrs starting from Jan 2022 has caused great nuisance to the nearby residents.</p> <p>The ET confirmed with the Resident Site Staff that :</p> <ol style="list-style-type: none"><li>1. The construction activities undertaken by HY/2009/19 from 2 January 2022 22:00 to 16 January 2022 06:00 were road resurfacing works at IECL Eastbound.</li><li>2. PMEs in Group E/Group F were operated. Only one group of PMEs were operating at one time. CNPs GW-RS0361-21, GW-RS0469-21, GW-RS0553-21 and GW-RS0628-21 were not used when using GW-RS0637-21 (from 2 January 2022 to 15 January 2022). CNPs GW-RS0628-21 and GW-RS0007-22 were not used when using GW-RS0006-22 (on 16 January 2022).</li><li>3. Portable generator and hand-held breaker were operated inside acoustic enclosure.</li><li>4. The road miller (CNP184) adopted the noise control measures under condition 3.d.8 of GW-RS0637-21 and condition 3.d.14 of GW-RS0006-22.</li><li>5. CNPs GW-RS0637-21 (from 2 January 2022 to 15 January 2022) and GW-RS0006-22 (on 16 January 2022) were granted for the abovementioned works and notifications to EPD and nearby residents were made.</li></ol> <p>The complaint was considered as related to noise nuisance from road resurfacing works at IECL Eastbound in restricted hours. Such works had been granted with CNPs nos. GW-RS0637-21 (from 2 January 2022 to 15 January 2022) and GW-RS0006-22 (on 16 January 2022). The checked restricted works were operated as per the conditions stated in CNPs. Noise control</p>	Interim Report issued to EPD on 11 February 2022



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					measures including operation of portable generator and hand-held breaker inside acoustic enclosure and adoption of noise control measures for the use of road miller (CNP184) in accordance with condition 3.d.8 of GW-RS0637-21 and condition 3.d.14 of GW-RS0006-22 were in place. Despite such night works were granted with Construction Noise Permits, the Contractor of HY/2009/19 was reminded to maintain the site control system for construction works carried out during restricted hours to ensure the PMEs and the noise mitigation measures deployed are in compliance with relevant Construction Noise Permit. The Contractor of HY/2009/19 was also reminded to maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.	
220117	17 January 2022	An ICC complaint was referred to the ET on 19 January 2022 (CASE Ref: CASE#3-7071544935)	IECL Eastbound near Harbour Heights	Construction works carried out at IECL Eastbound close to Harbour Heights during night-time at around 0100hrs had caused noise nuisance to the nearby residents.	An ICC complaint was referred to the ET on 19 January 2022 (CASE Ref: CASE#3-7071544935). The complainant reported that: Construction works carried out at IECL Eastbound close to Harbour Heights during night-time at around 0100hrs had caused noise nuisance to the nearby residents. The ET confirmed with the Resident Site Staff that : <ol style="list-style-type: none"><li>1. Road resurfacing works on IECL Eastbound was carried out by Contract HY/2009/19 from 16 January 2022 22:00 to 17 January 2022 06:00.</li><li>2. Only one group of PMEs in Group E or F was operated at one time. CNPs GW-RS0628-21 and GW-RS0007-22 were not used when using GW-RS0006-22.</li><li>3. Noise control measures were implemented during the construction periods including operation of portable generator and hand-held breaker inside acoustic enclosure. Adoption of noise control measures under condition 3.d.14 of GW-RS0006-22 for the use of road miller (CNP184).</li><li>4. CNP GW-RS0006-22 was granted for the</li></ol>	Investigation Report issued on 11 February 2022





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>abovementioned works and notifications to EPD and nearby residents were made.</p> <p>The complaint was considered as related to the road resurfacing works on IECL Eastbound close to Harbour Heights. Despite the RSS advised that noise control measures including operation of portable generator and hand-held breaker inside acoustic enclosure and adoption of noise control measures for the use of road miller (CNP184) in accordance with condition 3.d.14 of GW-RS0006-22, the Contractor of HY/2009/19 is recommended to adopt additional noise mitigation measure for road works at night time hours around the concerned location.</p> <p>In response to the public concern, the Contractor of HY/2009/19 should implement the following additional measure including erection of temporary noise barriers to reduce the line-of-sight noise transmission to nearby NSRs. The Contractor was recommended to complete the noisy work as soon as possible in order to minimize disturbance to nearby sensitive receivers. The Contractor was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.</p>	



***Appendix 10.1***

*Construction Programme of Individual Contracts*

Activity ID	Activity Name	Rem Dur	Start	Finish	2022																		
					January	February	March	April	May	June	July	August	September										
<b>3 Month Rolling Programme_2022-01</b>																							
<b>01 - CONTRACT DATES</b>																							
<b>01.3 - Handback to Employer</b>																							
0130-2400	Handover Portion XIIA (Current Due Date + 28d = 29 Dec 2015)	0		20-Jan-22*																			
0130-2500	Handover Portion XIIC (Current Due Date + 28d = 16 Feb 2019)	0		28-Mar-22*																			
0130-2600	Handover Portion XIIB (Current Due Date + 28d = 8 Jan 2020)	0		11-Apr-22*																			
0130-2700	Handover Portion VI (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-2800	Handover Portion IA (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-2900	Handover Portion VIIA (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-3000	Handover Portion X (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-3100	Handover Portion III (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-3200	Handover Portion VA (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-3300	Handover Portion VC (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-3400	Handover Portion IVA (Current Due Date + 28d = 5 May 2021)	0		06-May-22*																			
0130-3500	Handover Portion IIA (Current Due Date + 28d = 13 Feb 2020)	0		20-Jan-22*																			
0130-3600	Handover Portion IIB (Current Due Date + 28d = 13 Feb 2020)	0		20-Jan-22*																			
0130-3700	Handover Portion XIII (Current Due Date + 28d = 8 Jan 2020)	0		11-Apr-22*																			
<b>01.4 - Key Dates</b>																							
0140-0900	Outstanding Works under KD1 (Current Due Date - 19 Jan 2020)	0		28-Feb-22*																			
0140-2600	KD19 - Completion of Section 14 of the Works (Current Due Date - 7 Sep 2020)	0		12-Mar-22*																			
0140-2700	KD17 - Completion of Section 13A of the Works (Current Due Date - 7 Sep 2021)	0		29-Jun-22*																			
0140-2800	KD18 - Completion of Section 13B of the Works (Current Due Date - 7 Apr 2022)	0		28-Sep-22																			
<b>10 - SECTION X OF THE WORKS</b>																							
<b>10.3 - Middle Bridge (Bridge F)</b>																							
<b>10.3.2 - Bridge Construction</b>																							
<b>Remaining Works</b>																							
A13890a2	Reinstatement of damaged marine pile cap (all remaining pile cap) and Bridge F soffit- Approval of quotation	0	20-Dec-21 A	06-Jan-22 A																			
A13890a3	Bridge F soffit- construction works	167	07-Jan-22 A	11-Aug-22																			
<b>10.7 - Section X - Miscellaneous Works</b>																							
<b>10.7.3 - Open Area</b>																							
<b>Hard Paving Works Along Sea Wall and Near Harbour Heights</b>																							
1073-1289b	Paving between Pier 20 to Pier 23 (outside TOA)	10	29-Nov-21 A	31-Jan-22																			
1073-1370	Seawall defect	10	01-Nov-21 A	31-Jan-22																			
A14170	Remaining CCTV	31	20-Oct-21 A	28-Feb-22																			
A14200	Additional lighting at Open Area	31	08-Dec-21 A	28-Feb-22																			
<b>11 - SECTION 11 OF THE WORKS</b>																							
<b>11.4 - Hing Fat Street</b>																							
<b>Other Areas</b>																							
1140-3000	Hing Fat St defect	27	20-Oct-21 A	15-Feb-22																			
<b>12 - SECTION 7, 8, 9, 10 &amp; 12 OF THE WORKS</b>																							
<b>12.2 - IEC Westbound</b>																							
1074-2600a	Remaining road stud	1	20-Oct-21 A	08-Apr-22																			
A14070	C19-Bridge segment cell defects	120	20-Oct-21 A	16-Jun-22																			
A14080	Small permanent signage installation	1	11-Apr-22	11-Apr-22																			
A14140	Rectification of water logging at Double Noise Enclosure	16	19-Apr-22	06-May-22																			
<b>Additional Works</b>																							
1074-2300a	Night time lighting works - Install both temp. & perm. lighting (CLPe) (Item 3 of W/B)	31	20-Oct-21 A	28-Feb-22																			
A14060	V371-install wire mesh barriers (Item 8 of W/B)- construction works	31	05-Nov-21 A	28-Feb-22																			
<b>12.3 - IEC Eastbound</b>																							
1074-1400f	Resurfacing for New Lane Arrangement	25	20-Jan-22	21-Feb-22																			
1074-1520	Small permanent signage installation	1	09-Apr-22	09-Apr-22																			
1074-1560	Resurface 3 nos. arrow slow lane of tunnel approach ramp (Item 7 of E/B) pending confirmation	2	22-Feb-22	23-Feb-22																			
1074-1560a	Road stud	10	24-Feb-22	07-Mar-22																			
1074-1570	Rectify MJ42, MJ44, MJ57	4	12-Apr-22	16-Apr-22																			
<b>Additional Works</b>																							
1220-3360	Design of 3 nos. of Public Lighting between P17 to P18	40	21-Dec-20 A	10-Mar-22																			
1220-3360a	Installation of 3 nos. of Public Lighting between P17 to P18	18	11-Mar-22	31-Mar-22																			
<b>12.4 - Waterworks</b>																							
1230-1100-1	Irrigation System - Green Roof (power supply application to HKE)	31	01-Nov-21 A	28-Feb-22																			
1230-1100-2	Irrigation System - Green Roof (trench excavation for HKE)	19	01-Mar-22	22-Mar-22																			
1230-1100-3	Irrigation System - Green Roof (laying cable by HKE)	7	23-Mar-22	30-Mar-22																			
1230-1100f	Irrigation System - Green Roof (testing)	12	31-Mar-22	14-Apr-22																			
1230-1330	Irrigation System - Green roof - connection by WSD	14	16-Apr-22	03-May-22																			
1230-1340	Irrigation System - Green roof - Auto system installation	31	20-Oct-21 A	28-Feb-22																			
<b>13 - SECTION 13 OF THE WORKS</b>																							
<b>13.2 - Roadworks</b>																							
1320-1680a	Tree felling and tree transplanting in Shan Tong Road (subject to site available)	63	24-Jan-22*	11-Apr-22																			
<b>13.4 - Remaining works</b>																							
1320-1700	Rumsey Street revised railing	0	20-Dec-21 A	15-Jan-22 A																			
1320-1800	Civil works at Hung Hing Rd	60	20-Oct-21 A	02-Apr-22																			
<b>14 - SECTION 14 OF THE WORKS</b>																							
<b>14.1 - Soft Landscape</b>																							
1410-1100	Preservation and protection of existing tree including tree transplant to permanent locations	42	20-Oct-21 A	12-Mar-22																			
1410-1200	Achieve KD19	0		12-Mar-22																			
<b>15 - SECTION 13A OF THE WORKS</b>																							
<b>15.1 - Soft Landscape</b>																							
1510-1000	Establishment Works at Portion XIII	161	30-Jun-21 A	29-Jun-22																			
1510-9000	Achieve KD17	0		29-Jun-22																			
<b>16 - SECTION 13B OF THE WORKS</b>																							
<b>16.1 - Soft Landscape</b>																							
1610-1000	Establishment Works at Portion IA	1	16-Oct-20 A	20-Jan-22																			
1610-1200	Establishment Works at Portion III	252	29-Sep-21 A	28-Sep-22																			
1610-1600	Establishment Works at Portion VI	252	29-Sep-21 A	28-Sep-22																			
1610-1700	Establishment Works at Portion VIIA	1	16-Oct-20 A	20-Jan-22																			
1610-2000	Achieve KD18	0		28-Sep-22																			
<b>17 - Additional Works (VO)</b>																							
1073-1460	Lightning Protection System for Noise Enclosure (submission & approval of method statement)	30	03-Dec-20 A	26-Feb-22																			
1073-1460a	Lightning Protection System for Noise Enclosure (installation) E/B & W/B	5	01-Apr-22	07-Apr-22																			
<b>VO333 Reinstatement Works for Deletion of Inner Parapet and Modification of Noise Enclosure</b>																							
<b>IEC Eastbound</b>																							
1074-1500-3	ABS08B lighting	7	08-Mar-22	15-Mar-22																			
<b>IEC Westbound and Noise Enclosure</b>																							
1074-2500-4	Installation of Fall Arrest (Part 2)-construction works (item 13e of W/B)	34	28-Oct-21 A	03-Mar-22																			
<b>Quick-win Promenade at Open Area</b>																							