

#### CONTRACT NO: HK/2015/01

# WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 3)

ENVIRONMENTAL PERMIT NO. EP-364/2009/E, FURTHER EVIRONMENTAL PERMIT NOS. FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B AND FEP-11/364/2009/E, FEP-12/364/2009/D

#### **MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

- JANUARY 2018 -

CLIENTS:

**Civil Engineering and Development Department** 

and

**Highways Department** 

PREPARED BY:

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Raymond Dai

**Environmental Team Leader** 

DATE:

February 2018



Ref.: AACWBIECEM00 0 10191L.18

13 February 2018

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: Contract No. HK/2015/01

Wan Chai Development Phase II - Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

Monthly Environmental Monitoring and Audit Report (January 2018) for EP-364/2009/E, FEP-01/364/2009, FEP-02/364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A, FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for January 2018 received by email on 13 February 2017 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. Tony Cheung by fax: 2714 5289
CEDD Attn: Mr. LAM Chi Keung by fax: 2301 1277

Lam Attn: Mr. Raymond Dai by fax: 2882 3331 AECOM Attn: Mr. Francis Leong/ Stephen Lai by fax: 2691 2649

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#### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report January 2018 specific for Environmental Permit no. EP-364/2009/E, Further Environmental Permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of 27 December 2017 to 26 January 2018.
- 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 HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3) from 27 December 2015 in continuation of the previous Environmental Team employed under Contact HK/2011/07 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2).
- iii. In the reporting period, the principal work activities of individual contracts are included as follows:

<u>Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A</u>

- Landscaping works
- Maintenance works

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

Reinstatement of amenity area

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

- Construction of the remaining Type 4 Covered Walkway at West Wing
- Outstanding Works at Ferry Pier (Stage 1)
- Remedial works inside tunnel
- Backfilling of along Southern D-Wall on top of Tunnel
- Removal of temporary Hung Hing Road Bridge
- Removal of struts layer S1 &S1A
- Footpath adjacent Hung Hing Road Flyover Approach Ramp
- · Preparation work for removal of TWCR4
- Fabrication of sea wall block
- Remedial works inside tunnel
- Rectification of defect and outstanding works
- Construction of surface drain at WCR3



- Backfilling works up to updated finished level
- Remedial works for 0.5T rock armor
- Sewage works at Wan Shing Street

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

- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works.
- Hing Fat Street road and drainage works.
- · Oil street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck, column & pile cap foundation works continues

# <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-12/364/2009/D</u>

- Construction of Slip Road 1
- · Construction of drainage
- Asphalt paving
- Sewer diversion

# Contract no. HY/2010/08 -Central - Wan Chai Bypass (CWB) -Tunnel (Slip Road 8) under FEP-10/364/2009/B

- Tree protection works next to existing BGO,
- · Drainage improvement works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

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

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Construction of Tunnel Thermal Barrier
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



#### Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M1a Footbridge for Harbour Road Sports Center; M2b Noon-day gun area; M3a Tung Lo Wan Fire Station; M4b Victoria Center; M5b City Garden, M6 HK Baptist Church Henrietta Secondary School, M7e and M7w International Financial Centre East Podium and International Finance Centre West Podium and M8 City Hall 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 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.
- viii. Limit level exceedances were recorded at M1a Footbridge for Harbour Road Sports Center on 29 December, 16 and 23 January 2018 and the exceedances were concluded as non-Project related.
- ix. 24-hour real time noise monitoring was conducted at RTN1 FEHD Hong Kong Transport Section Whitfield Depot for construction activities at IEC bridge deck. No limit level exceedance was recorded in the reporting period.
- x. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related exceedance was recorded in the reporting period.
- xi. 24-hour real time noise monitoring was conducted at RTN3 Yu Lee Mo Fan Memorial School. One project related exceedance was recorded on 03 January 2018 and other non-exceedances were recorded in the reporting period were concluded as non-Project related.
- xii. 24-hour real time noise monitoring was conducted at RTN4 Causeway Bay Community Centre. No limit level exceedance was recorded in the reporting period.

#### Air Quality Monitoring

- xiii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b Harbour Grand Hotel Boundary Wall; CMA2a Causeway Bay Community Center; CMA3a CWB PRE Site Office Area; CMA4a Society for the Prevention of Cruelty to Animals; CMA5b Pedestrian Plaza; MA1e and MA1w International Finance Centre eastern and western podium on every six days basis.
- xiv. 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.
- xv. 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.



xvi. One 1hr TSP action level exceedance were recorded at CMA5b – Pedestrian Plaza on 29 December 2017 in the reporting month and the exceedance was concluded as non-Project related.

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

- xvii. Two environmental complaints were received in the reporting period.
- xviii. First 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 on 08 January 2018 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 operation.

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 pokers were operated without a valid Construction Noise Permit.

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. 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



xix. Second 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.

ET confirmed with the Resident Site Staff that cable laying was conducted under Contract HY/2011/08 within the site area near Watson Road on 15 January 2018. No construction works was conducted under Contract HY/2009/19 near Watson Road on 15 January 2018.

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.

Follow up inspection was conducted by the Environmnetal 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. Seperately, 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.

- xx. Two Summons to Defendant were issued to the Contractors of Contract HY/2009/19 in the reporting month.
- xxi. The First Summons to Defendant was issued to the Contractors of Contract HY/2009/19 on 29 December 2017 regarding the discharge matter namely not unpolluted water into a communal drain in a water control zone namely Victoria Harbour Water Control Zone (Phase 3) which is contrary to section 9(1) and section 11(1) of Water Pollution Control Ordinance, Cap.358.
- xxii. The Second Summons to defendant was issued to the Contractors of Contract HY/2009/19 on 24 January 2018 regarding the contravene of the provision of the licence, numbered WT00025282-2016 granted on 15/09/2016 under the Water Pollution Control Ordinance, Cap 358, namely by making a discharge of which the suspended solids exceed the limit stated in



the table in condition B1 of the said licence, the purpose of which was as specified in Regulation 17B(2) (a) of the water Pollution Control (General) Regulations, Cap 358.

#### Site Inspections and Audit

- xxiii. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/18, HY/2009/19, HY/2010/08, HK/2009/01, HK/2009/02, HK/2012/08 and HY/2011/08 in this reporting period.
- xxiv. 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.
- xxv. 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.
- xxvi. 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.
- xxvii. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.
- xxviii. An EPD inspection record on Construction Noise Ordinance (Cap 400) regarding conducting Prescribed Construction Works (PCW) – Hammering within the designated area on 23 November 2017 contrary to Construction Noise Permit condition was issued to the Contractor of HY/2009/19 on 17 January 2018.
- xxix. An EPD inspection record on Construction Noise Ordinance (Cap 400) regarding the conducting prescribed construction works Handling of steel bar within the designated area during restricted hours on 21 January 2018 without a valid Construction Noise Permit was issued to the Contractor of HY/2009/19 on 22 January 2018.



#### **Future Key Issues**

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

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A</u>

- Landscaping works
- Maintenance works

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

Reinstatement of amenity area

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

- Implementation of passage diversion from East staircase to West staircase for remaining rectification in the proximity of the Star Ferry Pier (Completion of Ferry Pier stage 1 and reopen to public. Stage 2 to be implemented)
- Construction of remaining Type 4 covered walkway
- Pending for remaining remedial works of water leakage.
- Remaining works for Hung Hing Road Flyover Footpath associated works
- Commencement of seawall block fabrication in China
- Preparation works for D-Wall cutting
- Partial removal of TWCR4 to +2.5mPD
- Removal of ELS S1 & S1A (Grid 5 to15)
- Backfilling works before removal of ELS for Grid 8-15
- Preparation works for box culvert 'O'
- Construction of CMS at caisson
- EVA construction adjacent to Ferry Pier
- Construction of surface channel at Portion 5
- Backfilling works at Portion 5 up to updated finish level
- Boundary Fencing and access gate
- Remedial and Outstanding Works inside Tunnel
- Remedial work for 0.5 ton armour at WCR3
- Sewage works at Wan Shing Street.



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

- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works.
- Hing Fat Street road and drainage works.
- Oil Street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck, column & pile cap foundation works continues

# <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-12/364/2009/D</u>

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving
- Sewer diversion

# Contract no. HY/2010/08 -Central - Wan Chai Bypass (CWB) -Tunnel (Slip Road 8) under FEP-10/364/2009

- Tree protection works next to existing BGO,
- Drainage improvement works,
- · Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

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

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Application of Thermal Barrier inside the Tunnel, asphalt pavement
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



#### 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/E and Further Environmental permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D 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/E, Further Environmental Permit (FEP) nos. FEP-01/364/2009, FEP-02-364/2009, FEP-05/364/2009/A, FEP-06/364/2009/A FEP-07/364/2009/D, FEP-09/364/2009/B, FEP-10/364/2009/B, FEP-11/364/2009/E and FEP-12/364/2009/D during the period 27 December 2017 to 26 January 2018.

#### 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 cu	mulative	constr	ucti	on im	pact due to th	e concurre	nt
	activities of t	he concurrent F	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 *Table2.2*.

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
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

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
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter	DP1,DP3	13 July 2011
	Section)		(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-	DP3	22 March 2011
	Central-Wan Chai Bypass over MTR Tsuen Wan Line		(Completed)
HK/2012/08	Wan Chai Development Phase II- Central-Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	10 March 2014
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013
HY/2011/08	Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

### 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

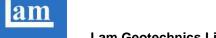
Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3328
Chun Wo –	Contractor	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
Leader Joint Venture	under Contract no. HK/2009/01	Environmental Officer	Mr. Terry Tsang	6683 9394	
Chun Wo – CRGL Joint	Contractor under Contract	Site Agent	Mr. K.K. Yuen	3658-3002	2827 9996



Party	Role	Post	Name	Contact No.	Contact Fax
Venture	no. HK/2009/02	Project Manager	Mr. Paul Yu	3658 3085	
		Environmental Officer	Mr. C.P. Ho	9191 8856	
Chun Wo -	Contractor	Project Manager	Mr. Rayland Lee	3758 8879	
CRGL - MBEC_Joint Venture	under Contract no. HY/2009/19	Deputy Project Manager	Mr. William Luk	9456 9819	
		Site Agent	Mr. David Lau	3758 8879	
		Deputy Site Agent	Mr. Eric Fong	6191 9337	2570 8013
		Environmental Officer	Mr. M.H. Isa	3757 8218	
		Assistant Environmental Officer	Mr. James Chan	3757 8217	
Leighton	Contractor	Site Agent	Mr. Jimmy Chu	3973 0803	2140 6799
Contractors (Asia) Limited	under Contract no. HY/2009/18	Environmental Supervisor	Ms. Penny Yiu	3973 1065	
China State	Contractor	Project Director	Mr. Chris Leung	3557 6393	2865 5229
Construction Engineering	under Contract no. HY/2009/15	Site Agent	Mr. Patrick Ho	3557 6405	2566 2192
(HK) Ltd.		Contraction Manager	Mr. Tom Tong	3557 6367	
		Environmental Officer	Mr. Desmond Ho	3557 6347	
China State-	Contractor under Contract no. HK/2012/08	Project Director	Mr. C.N. Lai	9137 1811	2877 1522
Build King JV		Site Agent	Mr. George Cheung	9268 1918	
		Environmental Officer	Mr. James MA	9130 9549	
China State	Contractor	Project Director	Chris Leung	9210 7116	2566 8061
	under Contract no. HY/2010/08	Site Agent	Mr. Thomas Lui	3557 6407	
		Environmental Officer	Mr. Gabriel Wong	3557 6466	
Leighton Joint Venture	Contractor under Contract no. HY/2011/08	Site Agent	Mr. Colman Wong	2823 1410	21406799
	110.11172011700	Environmental Officer	Mr. Chris Chan	3973 0850	
		Environmental Supervisor	Ms. Penny Yiu	3973 1065	
Ramboll Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899



Party	Role	Post	Name	Contact No.	Contact Fax
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/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Landscaping works
- Maintenance works

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

Reinstatement of amenity area

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

- Construction of the remaining Type 4 Covered Walkway at West Wing
- Outstanding Works at Ferry Pier (Stage 1)
- Remedial works inside tunnel
- Backfilling of along Southern D-Wall on top of Tunnel
- Removal of temporary Hung Hing Road Bridge
- Removal of struts layer S1 &S1A
- Footpath adjacent Hung Hing Road Flyover Approach Ramp
- Preparation work for removal of TWCR4
- Fabrication of sea wall block
- Remedial works inside tunnel
- Rectification of defect and outstanding works
- Construction of surface drain at WCR3
- Backfilling works up to updated finished level
- Remedial works for 0.5T rock armor
- Sewage works at Wan Shing Street

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

- · Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works.
- · Hing Fat Street road and drainage works.
- Oil street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck, column & pile cap foundation works continues



# <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-12/364/2009/D</u>

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving
- Sewer diversion

# Contract no. HY/2010/08 -Central - Wan Chai Bypass (CWB) -Tunnel (Slip Road 8) under FEP-10/364/2009/B

- Tree protection works next to existing BGO,
- Drainage improvement works,
- · Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

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

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Construction of Tunnel Thermal Barrier
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



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

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Landscaping works
- Maintenance works

<u>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</u>

Reinstatement of amenity area

<u>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</u>

- Implementation of passage diversion from East staircase to West staircase for remaining rectification in the proximity of the Star Ferry Pier (Completion of Ferry Pier stage 1 and reopen to public. Stage 2 to be implemented)
- Construction of remaining Type 4 covered walkway
- · Pending for remaining remedial works of water leakage.
- Remaining works for Hung Hing Road Flyover Footpath associated works
- · Commencement of seawall block fabrication in China
- Preparation works for D-Wall cutting
- Partial removal of TWCR4 to +2.5mPD
- Removal of ELS S1 & S1A (Grid 5 to 15)
- Backfilling works before removal of ELS for Grid 8-15
- Preparation works for box culvert 'O'
- Construction of CMS at caisson
- EVA construction adjacent to Ferry Pier
- Construction of surface channel at Portion 5
- Backfilling works at Portion 5 up to updated finish level
- Boundary Fencing and access gate
- Remedial and Outstanding Works inside Tunnel
- Remedial work for 0.5 ton armour at WCR3
- · Sewage works at Wan Shing Street.

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

Nil



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

- Approach ramp structure Construction.
- Bridge Construction & installation of enclosure.
- · Retaining wall construction.
- FEHD Metal Roof Construction & re-provision including drainage works.
- Hing Fat Street road and drainage works.
- · Oil Street drainage works.
- Installation of skin parapet on TB bridge at Pier 15-17.
- Landscape deck, column & pile cap foundation works continues

# <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-12/364/2009/D</u>

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving
- Sewer diversion

# Contract no. HY/2010/08 -Central - Wan Chai Bypass (CWB) -Tunnel (Slip Road 8) under FEP-10/364/2009

- Tree protection works next to existing BGO,
- Drainage improvement works,
- · Utility diversion works,
- Retaining wall works
- ELS works,
- Construction works for subway extension

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

- Construction of Ventilation Buildings, inclusive of Administration Building, Central Ventilation Building, East Ventilation Shaft/Building, West Ventilation Building
- Application of Thermal Barrier inside the Tunnel, asphalt pavement
- Installation of Electricals and Mechanicals
- Installation of Tunnel Features



### 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
Environmental Permit	EP-364/2009/E	22 Dec 2016	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	15 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 March 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 July 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	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 June 2012	Surrendered
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	Valid
Further Environmental Permit	FEP-12/364/2009/D	01 Aug 2016	Valid



- 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:
  - <u>Contract no. HY/2009/17 Central Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> 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.
  - <u>Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A</u>
- 3.1.6. The Construction works under HY/2009/15 was confirm completed by the RSS from 27 October 2017 onwards. The weekly site audit inspection and the associated monitoring station for HY/2009/15 were temporally suspended from 27 October 2017 onwards.

# 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

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-02/364/2009 for contract no. HK/2009/01 are shown in *Table 3.2* and *Table 3.3*.

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Discharge License	WT00024952- 2016	06 Jul 2016	31 Jul 2021	Valid
	WT00021138- 2015	17 Mar 2014	31 Mar 2020	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134- C3585-01	21 Jan 2010	N/A	Valid

Table 3.3 Summary of submission status under FEP-02/364/2009

EP Condition	Submission	Date of Submission
Condition 2.7 & 2.8	Works Schedule and Location Plan	18 May 2011
Condition 2.6	Environmental Management Organization Chart	18 May 2011
Condition 1.12	Commencement Date of Works	20 Jun 2011
Condition 2.9	Noise Management Plan	10 Jun 2011
Condition 2.11	Landscape Plan (Rev.5)	25 January 2018



<u>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</u>

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/364/2009 for contract no. HK/2009/02 are shown in *Table 3.4* and *Table 3.5*.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02

Permits and/or Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further	FEP-03/356/2009	24 Mar 2010	N/A	Valid
Environmental Permit	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	GW-RS0756-17	04 Sep 2017	07 Sep 2017 to 28 Feb 2018	Valid
Construction Noise	GW-RS0843-17	28 Sep 2017	07 Oct 2017 to 25 Mar 2018	Valid
Permit (CNP) for non-pilling	GW-RS0869-17	10 Oct 2017	15 Oct 2017 to 11 Mar 2018	Valid
equipment	GW-RS0884-17	12 Oct 2017	24 Oct 2017 to 23 Apr 2018	Valid
	GW-RS0885-17	12 Oct 2017	14 Oct 2017 to 12 Apr 2018	Valid
Water Discharge	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
License	WT00025276-2016	19 Sep 2016	31 July 2021	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135- C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839- C3593-02	22 Sep 2010	N/A	Valid



Table 3.5 Summary of submission status under FEP-01/364/2009

EP Condition	Submission	Date of Submission
Condition 2.7 and 2.8	Works Schedule and Location Plan	14 Jun 2011
Condition 2.6	Environmental Management Organization Chart	14 Jun 2011
Condition 1.12	Commencement Date of Works	21 Jun 2011
Condition 2.11	Landscape Plan (Revision B)	20 Nov 2012
Condition 2.9	Noise Management Plan (Revision B)	13 Jan 2012



# <u>Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A</u>

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-05/364/2009A for contract no. HY/2009/18 are shown in **Table 3.6** and **Table 3.7**.

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	N/A	Valid
Notification of Works Under APCO	322293	07 Oct 2010	N/A	Valid
Construction Noise	GW-RS0532-17	15 Jun 2017	01 Jul 2017 to 31 Dec 2017	Expired
Permit (CNP) for non-piling equipment	GW-RS0694-17	15 Aug 2017	18 Aug 2017 to 24 Jan 2018	Expired
	GW-RS0032-18	15 Jun 2018	24 Jan 2018 to 21 Jul 2018	Valid
'Discharge Licenses	WT00024255-2016	18 May 2016	31 Jan 2021	Valid
Registration as a Chemical Waste Producer	WPN: 8335-121- L1048-04	17 Dec 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Land)	Account No.: 7011587	11 Oct 2010	N/A	Valid

Table 3.7 Summary of submission status under FEP-05/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	01 March 2011
Condition 2.10	Landscape Plan (Rev. 6)	19 May 2014





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

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-06/364/2009/A for contract no. HY/2009/15 are shown in *Table 3.9*.

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147- C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid
Construction Noise Permit	N/A	N/A	N/A	N/A
Water Discharge License (Discharge at TS1)	WT00024874-2016	20 Jul 2016	20 Jul 2016 to 31 Mar 2021	Valid
Water Discharge Licence (Discharge at TPCWAE)	WT00024951-2016	08 Jul 2016	08 Jul 2016 to 31 Dec 2017	Expired

Table 3.9 Summary of submission status under FEP-06/364/2009/A

EP Condition	Submission	Date of Submission
Candition 2.6	Management Organization of Main Construction Companies	11 Mar 2011
Condition 2.6	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule	15 Mar 2011
Condition 2.8	Location Plan	15 Mar 2011
Condition 2.9	Noise Management Plan	6 May 2011
Condition 2.10	Landscape Plan (Rev.5)	25 Jan 2018





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

3.1.11. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-07/364/2009/D 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/D	24 Nov 2015	N/A	Valid
Notification of Works Under APCO	326160	24 Jan 2011	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 Disposal	7012306	21 July 2011	N/A	Valid
	GW-RS0562-17	28 Jun 17	30 Jun 2017 to 27 Dec 2017	Expired
	GW-RS0552-17	22 Jun 17	28 Jun 2017 to 27 Dec 2017	Expired
	GW-RS0837-17	29 Sep 17	01 Oct 2017 to 28 Dec 2017	Expired
Construction Noise Permits	GW-RS1162-17	18 Dec 17	24 Dec 2017 to 26 Dec 2017	Expired
(CNP) for non- piling equipment	GW-RS1150-17	22 Dec 17	28 Dec 2017 to 27 Jun 18	Valid
	GW-RS1154-17	22 Dec 17	29 Dec 2017 to 28 Mar 2018	Valid
	GW-RS0021-18	12 Jan 18	14 Jan 2018 to 03 Jul 2018	Valid
	GW-RS0038-18	12 Jan 18	14 Jan 2018 to 04 Feb 2018	Valid
Water Discharge License	WT00025282- 2016	15 Sep 2016	30 Sep 2021	Valid
Dumping Permit (Approach Ramp) (Type 1 – Open Sea Disposal)	EP/MD/18-035	20 Sep 2017	20 Sep 2017 to 20 Dec 2017	Expired



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

EP Condition	Submission	Date of Submission
Condition 2.13	Landscape Plan (Rev.6)	29 August 2017
Condition 2.9	Noise Management Plan (Rev.4)	07 December 2017

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-12/364/2009/D</u>

3.1.12. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-12/364/2009/D for contract no. HK/2012/08 showed in *Table 3.12 and Table 3.13*.

Table 3.12 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	FEP-09/364/2009/B	5 Mar 2013	N/A	Valid
Further Environmental Permit	FEP-12/364/2009/D	1 Aug 2016	N/A	Valid
	FEP-06/356/2009	05 Mar 2013	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	30 Jun 2016	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	N/A	Valid
	GW-RS0593-17	11 Jul 2017	13 Jul 2017 to 12 Jan 2018	Expired
	GW-RS0509-17	8 Jun 2017	08 Jul 2017 to 07 Jan 2018	Expired
Construction Noise Permit (CNP) for non- piling equipment	GW-RS0676-17	3 Aug 2017	26 Aug 2017 to 25 Feb 2018	Valid
pilling equipment	GW-RS1163-17	28 Dec 2017	13 Jan 2018 to 12 Jul 2018	Valid
	GW-RS1134-17	19 Dec 2017	22 Dec 2017 to 12 Feb 2018	Valid
Water Discharge License	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid



Table 3.13 Summary of submission status under FEP-12/364/2009/D

EP Condition Submission		Date of Submission
Condition 2.9	Noise Management Plan (Rev.2)	9 July 2013
Condition 2.14	Landscape Plan (Rev.4)	24 August 2015

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

3.1.13. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-10/364/2009/B for contract no. HK/2012/08 showed in *Table 3.14 and Table 3.15.* 

Table 3.14 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2013-04-02	NA	Valid
Registration as a Chemical Waste Producer	WPN5213-147- C1169-44	2013-03-27	NA	Valid
Billing Account under Waste Disposal Ordinance	7017170	2013-03-27	NA	Valid
Water Discharge License	WT00020468-2014	03 Dec 2017	31 Jul 2018	Valid
	GW-RS0656-17	26 Jul 2017	01 Aug 2017 to 31 Jan 2018	Cancelled
Construction Noise Permit (CNP) for non- piling equipment	GW-RS0630-17	24 Jul 2017	30 Jul 2017 to 29 Jan 2018	Valid
	GW-RS0631-17	24 Jul 2017	31 Jul 2017 to 29 Jan 2018	Valid
	GW-RS0877-17	10 Oct 2017	18 Oct 2017 to 17 April 2018	Valid
	GW-RS0897-17	17 Oct 2017	19 Oct 2017 to 08 Feb 2018	Cancelled
	GW-RS0905-17	17 Oct 2017	19 Oct 2017 to 14 Apr 2018	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1030-17	23 Nov 2017	01 Dec 2017 to 27 May 2018	Valid
	GW-RS1091-17	23 Nov 2017	09 Dec 2017 to 05 Jun 2018	Valid
	GW-RS1113-17	11 Dec 2017	16 Dec 2017 to 11 Aug 2018	Valid
	GW-RW0536-17	10 Oct 2017	26 Oct 2017 to 24 Apr 2018	Valid
	GW-RS0797-17	14 Sep 2017	04 Nov 2017 to 03 May 2018	Cancelled

Table 3.15 Summary of submission status under FEP-10/364/2009/B

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.3) 03 January 2014	
Condition 2.14	n 2.14 Landscape Plan (Rev.2) 19 May	
Condition 2.16	Additional Mitigation Plan (Rev.2)	18 February 2015

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

3.1.14. The current status on licenses and/or permits on environmental protection pertinent and submission under FEP-11/364/2009/E for contract no. HY/2011/08 showed in *Table 3.16 and Table 3.17*.

Table 3.16 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2011/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	N/A	Valid
Notification of Works Under APCO	LCAC-EN-LE-00017	7 Mar 2014	N/A	Valid
Registration as a Chemical Waste Producer	5213-121-L2837-01	19 Apr 2016	N/A	Valid
	5213-151-L2837-02	24 May 2016	N/A	Valid
	5213-134-L2898-01	16 Nov 2015	N/A	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	5213-134-L2952-01	12 May 2017	N/A	Valid
Billing Account under Waste Disposal Ordinance	7019640	27 Mar 2014	N/A	Valid
	GW-RS0656-17	26 Jul 2017	01 Aug 2017 to 31 Jan 2018	Valid
	GW-RS0643-17	26 Jul 2017	01 Aug 2017 to 31 Jan 2018	Valid
	GW-RS0740-17	24 Aug 2017	26 Aug 2017 to 23 Feb 2018	Valid
	GW-RS0722-17	23 Aug 2017	31 Aug 2017 to 27 Feb 2018	Valid
	GW-RS0737-17	24 Aug 2017	01 Sep 2017 to 28 Feb 2018	Valid
	GW-RS0893-17	12 Oct 2017	16 Oct 2017 to 24 Jan 2018	Valid
	GW-RS0887-17	12 Oct 2017	14 Oct 2017 to 31 Mar 2018	Valid
	GW-RS0935-17	01 Nov 2017	01 Nov 2017 to 30 Apr 2018	Valid
	GW-RS0930-17	01 Nov 2017	01 Nov 2017 to 30 Apr 2018	Valid
	GW-RS0948-17	01 Nov 2017	01 Nov 2017 to 30 Apr 2018	Valid
	GW-RS0956-17	01 Nov 2017	03 Nov 2017 to 30 Apr 2018	Valid
	GW-RS0993-17	14 Nov 2017	16 Nov 2017 to 31 Jan 2018	Valid
	GW-RS1053-17	28 Nov 2017	30 Nov 2017 to 28 Apr 2018	Valid
	GW-RS1051-17	28 Nov 2017	01 Dec 2017 to 30 May 2018	Valid
	GW-RS1047-17	28 Nov 2017	01 Dec 2017 to 31 May 2018	Valid
	GW-RS1048-17	28 Nov 2017	01 Dec 2017 to 31 May 2018	Valid
	GW-RS1202-17	02 Jan 2018	01 Jan 2017 to 24 Mar 2018	Valid
	GW-RS1203-17	03 Jan 2018	06 Jan 2017 to 30 Jun 2018	Valid
	GW-RS1204-17	03 Jan 2018	06 Jan 2017 to 30 Jun 2018	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0005-18	09 Jan 2018	11 Jan 2018 to 26 Mar 2018	Valid
	GW-RS0034-18	19 Jan 2018	28 Jan 2018 to 15 Jul 2018	Valid
	GW-RS-0058-18	26 Jan 2018	01 Feb 2018 to 31 Jul 2018	Valid
	GW-RS0063-18	26 Jan 2018	01 Feb 2018 to 31 Jul 2018	Valid
	WT00022046-2015	15 Jul 2015	31 Jul 2019	Valid
	WT00022753-2015	22 Jun 2017	30 Apr 2021	Valid
	WT00024561-2016	30 May 2016	31 May 2021	Valid
Water Discharge License	WT00025858-2016	17 Oct 2016	31 Oct 2021	Valid
	WT00026829-2017	14 Jun 2017	31 Jan 2022	Valid
	WT00027343-2017	01 Mar 2017	31 Mar 2022	Valid
	WT000283434-2017	09 Aug 2017	31 Aug 2022	Valid

Table 3.17 Summary of submission status under FEP-11/364/2009/E

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.4)	08 Nov 2016
Condition 2.14	Landscape Plan (Rev.2)	18 Feb 2015
Condition 2.13 a)	Operational Air Quality Management Plan for West Ventilation Building (Rev.0)	25 Nov 2014
Condition 2.13 b)	Operational Air Quality Management Plan for Central Ventilation Building (Rev.0)	03 Mar 2017
Condition 2.13 c)	Operational Air Quality Management Plan for East Ventilation Building and East Vent Shaft (Rev.0)	18 Feb 2015
Condition 2.13 d)	Operational Air Quality Management Plan for an Electrostatic Precipitator system for EVB Operation (Rev.0)	06 Apr 2017
Condition 2.13 e)	Operational Air Quality Management Plan for ventilation system of Eastern Portal of the CWB Tunnel (Rev.0)	23 Oct 2016



#### 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	
M1a***	Footbridge for Ex-Harbour Road Sports Centre	
M2b	Noon-day Gun Area	
М3а	Tung Lo Wan Fire Station	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	
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 location ID of monitoring station M1a was updated as "Footbridge for Ex-Harbour Road Sports Centre" in May 2017.

#### **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 (Leq). Leq (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, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L<sub>10</sub> and L<sub>90</sub> 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 ™ 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 (Recommenced 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

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 cm2;
  - 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 <u>Figure 2.1</u> and <u>Figure 4.1</u>. 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/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
  - Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange
  - Contract no. HY/2009/19 Central Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
  - Contract no. HY/2010/08 Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
  - Contract no. HK/2009/01 Wan Chai Development Phase II Central Wan Chai Bypass at Hong Kong Convention and Exhibition Centre
  - Contract no. HK/2009/02 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai East
  - Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West
  - Contract no. HY/2011/08 Central Wan Chai Bypass (CWB)– Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning
- 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/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

5.1.2 Noise monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 22 April 2011. The proposed division of noise monitoring stations for Contract no. HY/2009/18 are summarized in *Table 5.1* below:

Table 5.1 Noise Monitoring Stations for Contract no. HY/2009/18

Station	Description
*M7e	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)
M8	City Hall

<sup>\*</sup> Remark: M7e has become a reference station starting from 7 Aug 2012

- 5.1.3 No action or limit level exceedance was recorded in this reporting period.
- 5.1.4 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u>
  5.2.

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 and 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

5.1.5 The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011 and HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of noise monitoring stations are summarized in *Table 5.2* below.

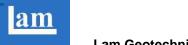
Table 5.2 Noise Monitoring Station for Contract no HK/2009/01 and HK/2009/02

Station	Description	
M1a	Footbridge for Ex-Harbour Road Sports Centre	

5.1.6 Limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Center on 29 December 2017, 16 and 23 January 2018 and the exceedances were concluded as non-Project related.



- 5.1.7 No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement on 29 December 2017 while non WDII-CWB excavation works next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.
- 5.1.8 Excavation works was conducted by Contract HK/2009/02 around the concerned location on 29 December 2017. Meanwhile, non WDII-CWB excavation works next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02.
- 5.1.9 No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement on 16 January 2018 while non WDII-CWB steel frame erection and hammering works next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.
- 5.1.10 Despite backfilling works was conducted by Contract HK/2009/02 around the concerned location on 16 January 2017. Meanwhile, while non WDII-CWB steel frame erection and hammering works next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02.
- 5.1.11 No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement on 23 January 2018 while non WDII-CWB breaking works by excavator mounted breaker was conducted next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.
- 5.1.12 Despite backfilling works was conducted by Contract HK/2009/02 around the concerned location on 23 January 2017. Meanwhile, non WDII-CWB breaking works by excavator mounted breaker was conducted next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02.
- 5.1.13 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>



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

5.1.14 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	

- 5.1.15 No action or limit level exceedance was recorded in this reporting period.
- 5.1.16 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> 5.2. Details of the Notification of Exceedance can be referred in <u>Appendix 6.2</u>.

<u>Contract no. HY/2010/08 - Central-Wanchai Bypass -Wanchai Bypass Tunnel (Slip Raod 8 Section) under FEP-12/364/2009/D</u>

5.1.17 The commencement of construction works for Contract no. HY/2010/08 under FEP-10/364/2009/B was on 02 September 2013. Noise monitoring was commenced on 02 September 2013. The proposed divisions of noise monitoring stations are summarized in *Table 5.5* below.

Table 5.5 Noise Monitoring Stations for Contract no. HY/2010/08

Station	Description	
M2b	Noon Gun Area	
МЗа	Tung Lo Wan Fire Station	

- 5.1.18 No action or limit level exceedance was recorded in this reporting period.
- 5.1.19 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>



<u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning</u>

5.1.20 Noise monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 22 April 2011. The proposed division of noise monitoring stations for Contract no. HY/2011/08 are summarized in *Table 5.6* below:

Table 5.6 Noise Monitoring Stations for Contract no. HY/2011/08

Station	Description	
M4b	Victoria Centre	
*M7e	International Finance Centre (Eastern End of Podium)	
M7w	International Finance Centre (Western End of Podium)	
M8	City Hall	

<sup>\*</sup> Remark: M7e has become a reference station starting from 7 Aug 2012

- 5.1.21 No action or limit level exceedance was recorded in this reporting period.
- 5.1.22 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2</u>.

#### 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/D
- 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

<sup>\*</sup> 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 limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 5.2.8. One limit level exceedance was recorded on 22 January 2018 at RTN2a- Hong Kong Electric Centre was recorded in the reporting period. After checking with the Contractor, formwork erection was conducted under Contract HY/2009/19 around the monitoring station and no particular noise was considered. Meanwhile, non-CWB construction works was observed around the monitoring location and may potentially contributed to the recorded noise level. As such, the exceedance was considered as non Project related.
- 5.2.9. One limit level exceedance was recorded at RTN3- Yu Lee Mo Fan Memorial School was recorded on 03 January 2018 in the reporting period. After checking with Contractor, road milling works was observed conducted beyond the noise enclosure and contributed as the major noise impact during the time of monitoring and the exceedance was considered as Project related. The work at the concerned location beyond the noise enclosure was completed after the recorded exceedance and no further exceedance was recorded. Nevertheless, in view of the recorded noise impact, the Contractor of HY/2009/19 was advised to provide noise mitigation measure including temporary noise barrier for future road miling works at the concerned location, if any, to avoid any further potential noise impact.

One limit level exceedance was recorded at RTN3 – Yu Lee Mo Fan Memorial School was recorded on 20 January 2018 in the reporting period. After checking with Contractor, concrete breaking was conducted within the noise enclosure. Meanwhile, school renovation works with mechanical operation was recorded next to the monitoring station and in view of the discrete exceedance recorded and duration of breaking works extended throughout the day, the exceedance was considered as non Project related.

- 5.2.10. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded 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.*



<u>Contract no. HY/2011/08 - Central - Wan Chai Bypass (CWB) - Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning</u>

5.2.12. The proposed division of noise monitoring stations are summarized in *Table 5.8* below. Real time noise monitoring for major construction works under contract no. HY/2011/08 was commenced on 19 March 2015.

Table 5.8 Real Time Noise Monitoring Stations for Contract no. HY/2011/08

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot
RTN2a	North Point	Hong Kong Electric Centre
RTN4	Tin Hau	Causeway Bay Community Centre

<sup>\*</sup>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.

- 5.2.13. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 5.2.14. One limit level exceedance was recorded on 22 January 2018 at RTN2a- Hong Kong Electric Centre was recorded in the reporting period. After checking with the Contractor, Architectural Builders Works and Finishes and excavation works was conducted under Contract HY/2011/08 around the monitoring station and no particular noise was considered. Meanwhile, non-CWB construction works was observed around the monitoring location and may potentially contributed to the recorded noise level. As such, the exceedance was considered as non Project related.
- 5.2.15. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre were recorded in the reporting period.



#### Lam Ocotechnics Limite

#### 5.3 Air Quality Monitoring Results

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A</u>

5.3.1 Air quality monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 21 April 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.9* below.

Table 5.9 Air Quality Monitoring Stations for Contract no. HY/2009/18

Station	Description		
MA1e	International Finance Centre (Eastern End of Podium)		
MA1w	International Finance Centre (Western End of Podium)		

- 5.3.2 No exceedance was recorded in the reporting period.
- 5.3.3 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.

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

5.3.4 The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011. Air quality monitoring was commenced on 25 August 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.10* below.

Table 5.10 Air Quality Monitoring Station for Contract no. HK/2009/01

Station	Description
CMA5b	Pedestrian Plaza

- 5.3.5 One 1hr TSP action level exceedance was recorded at CMA5b Pedestrian Plaza on 29 December 2017 respectively in the reporting month.
- 5.3.6 No construction works was undertaken around the monitoring location on 29 December 2017 under Contractor of HK/2009/01 and no particular observation regarding dust emission was observed during sampling. The exceedance was considered not related to Project works and potentially contributed by ambient air quality condition and traffic exhaust.
- 5.3.7 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 <u>Appendix 5.3</u>.

<u>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</u>

5.3.8 The commencement of construction works for HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.11* below.

Table 5.11 Air Quality Monitoring Station for Contract no. HK/2009/02

Station	Description		
CMA3a	CWB site office at Wanchai Waterfront Promenade		
CMA4a	Society for the Prevention of Cruelty to Animals		

- 5.3.9 No exceedance was recorded in the reporting period.
- 5.3.10 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 <u>Appendix 5.3</u>.

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

5.3.11 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	
CMA1b	Harbour Grand Hotel Boundary Wall	
CMA2a	Causeway Bay Community Centre	

- 5.3.12 No exceedance was recorded in the reporting period.
- 5.3.13 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 <u>Appendix 5.3</u>.

Contract no. HK/2012/08- Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West

5.3.14 The commencement of construction works for Contract no. HK/2012/08 under FEP-09/364/2009/B was on May 2014. Air quality monitoring was commenced on 25 August 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.14* below.

Table 5.14 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description
CMA5b	Pedestrian Plaza

- 5.3.15 One 1hr TSP action level exceedance was recorded at CMA5b Pedestrian Plaza on 29 December 2017 respectively in the reporting month.
- 5.3.16 Road and drain construction works was undertaken around the monitoring location on 29 December 2018 under Contractor of HK/2012/08 and no particular observation regarding dust emission was observed during sampling. Mitigation measure including water spraying for haul road and dusty surface were implemented by the Contractor. The exceedance was considered not related to Project works and potentially contributed by ambient air quality condition and traffic exhaust.
- 5.3.17 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.

<u>Contract no. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Raod 8 Section) under FEP-12/364/2009/D</u>

5.3.18 The commencement of construction works for Contract no. HY/2010/08 under FEP-12/364/2009/D was on July 2014. Air quality monitoring was commenced on 14 July 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.15* below.

Table 5.15 Air Quality Monitoring Station for Contract no. HY/2010/08

Station	Description
CMA3a	CWB PRE Site Office

- 5.3.19 No exceedance was recorded in the reporting period.
- 5.3.20 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 <u>Appendix 5.3</u>.

<u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning</u>

5.3.21 Air quality monitoring for the Central Interchange works under contract no. HY/2011/08 was commenced on 21 April 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.16* below.

Table 5.16 Air Quality Monitoring Stations for Contract no. HY/2011/08

Station	Description	
MA1e	International Finance Centre (Eastern End of Podium)	
MA1w	International Finance Centre (Western End of Podium)	
CMA1b	Harbour Grand Hotel Boundary Wall	
CMA2a	Causeway Bay Community Centre	
CMA5b	Pedestrian Plaza	



- 5.3.22 One 1hr TSP action level exceedance was recorded at CMA5b Pedestrian Plaza on 29 December 2017 respectively in the reporting month.
- 5.3.23 Road and drain construction works was undertaken around the monitoring location on 29 December 2018 under Contractor of HY/2011/08 and no particular observation regarding dust emission was observed during sampling. Mitigation measure including water spraying for dampening of haul road and provision of wheel washing were implemented by the Contractor. The exceedance was considered not related to Project works and potentially contributed by ambient air quality condition and traffic exhaust.
- 5.3.24 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

<u>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</u>

5.4.1. Inert C&D wastes and non-inert C&D wastes were disposed in this reporting period. Details of the waste flow table are summarized in *Table 5.17*.

Table 5.17 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	Nil	108087.815	TKO137, TM38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	98512.03	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	4.76	5338.62	SENT Landfill
Non-inert C&D materials recycled, <b>kg</b>	Nil	1285746	N/A
Chemical waste disposed, <b>kg</b>	Nil	10400	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m³	Nil	11527	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m3	Nil	16261	East of Cha Chau South Brothers

<u>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</u>

5.4.2. Inert C&D & non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.18*.

Table 5.18 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	Nil	522721.21	TKO137 / TM 38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	46520	N/A
Non-inert C&D materials disposed, m³	17.1	5537.42	SENT Landfill
Non-inert C&D materials recycled, m³	Nil	N/A	N/A
Chemical waste disposed, <b>kg</b>	Nil	17718	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m³	Nil	65663	South Cheung Chau

<u>Contract no. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A</u>

5.4.3. Inert C&D and non-inert C&D waste was disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.19*.

Table 5.19 Details of Waste Disposal for Contract no. HY/2009/18

Waste Type	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	Nil	1415580.18	T.K.O. 137, TM 38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	58787.05	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	Nil	4572.26	SENT Landfill
Non-inert C&D materials recycled, <b>ton</b>	Nil	878.37	N/A
Chemical waste disposed, <b>kg</b>	Nil	6772	N/A



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

5.4.4. Inert & Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.20*.

Table 5.20 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to- Date	Disposal / Dumping Grounds
Inert C&D materials	Nil	625200.92	Tuen Mun Area 38
disposed, <b>m</b> <sup>3</sup>	Nil	245453.3	TKO137 FB
			HY/2009/11
			ex-PCWA
			TS4 /TS2
Inert C&D materials recycled <b>, m</b> ³	Nil	358660.77	WDII
,			Lun Ku Tan
			WENT
			HY/2010/08
Non-inert C&D	Nil	4675.67	SENT Landfill
materials disposed, <b>m</b> <sup>3</sup>	Nil	1.58	WENT Landfill
Non-inert C&D materials recycled, m³	Nil	5496446.2	Xun Xiang Metalware Skylight Recycle (paper)
Chemical waste disposed, <b>kg</b>	Nil	22755	Dunwell Group
Marine Sediment (Type1-Open Sea Disposal (Dedicate Sites) &Type 2 – Confined Marine Disposal), m³	Nil	5684	South of the Brothers



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

5.4.5. 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, ton	4023.68	781418.83	TM38
Inert C&D materials recycled, <b>ton</b>	Nil	82349.7	N/A
Non-inert C&D materials disposed, <b>ton</b>	121.19	6638.94	SENT Landfill
Non-inert C&D materials recycled, <b>ton</b>	Nil	565.63	N/A
Chemical waste disposed, kg	Nil	10.9	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), m³	Nil	20737.96	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), m³	Nil	30751	East of Sha Chau
Marine Sediment (Approach Ramp) (Type 2 – Confined Marine Disposal), m3	Nil	6491	East of Sha Chau



# <u>Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West under FEP-12/364/2009/D</u>

5.4.6. No inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.22*.

Table 5.22 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month*	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials	35	183631	TKO 137
disposed, m <sup>3</sup>	14	116955	TM38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	40	8772	SENT
Non-inert C&D materials recycled, m <sup>3</sup>	Nil	Nil	N/A
Chemical waste disposed, <b>kg</b>	Nil	Nil	N/A
Marine sediment (Type 1) disposal, <b>m</b> <sup>3</sup>	Nil	3145	South of Cheung Chau / East of Sha Chau / South of The Brothers

Remarks\*: The quantity of inert C&D material disposed, recycled, non-inert C&D material disposed, recycled are reported up to calendar month of January 2018.

# <u>Contract no. HY/2010/08 Central – Wan Chai Bypass (CWB) – Tunnel (Slip Road 8) under FEP-10/364/2009/B</u>

5.4.7. No inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.23*.

Table 5.23 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
	457.761	591220.00	TM 38/ CW
Inert C&D materials	Nil	262656.6	WENT
disposed, <b>m</b> <sup>3</sup>	Nil	82911.8	SENT
	Nil	72704.53	TKO area 137
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	49.011	5854.56	SENT / WENT
Non-inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Chemical waste disposed, <b>kg</b>	Nil	1431	N/A
Type 1 – Open Sea Disposal, <b>m</b> ³	Nil	16368.4	East Sha Chau/ South Brothers Island
Type 2 – Confined Marine disposal, <b>m</b> <sup>3</sup>	Nil	549.2	East Sha Chau

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

5.4.8. No inert and Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 5.24*.

Table 5.24 Details of Waste Disposal for Contract no. HY/2011/08

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>m</b> <sup>3</sup>	1369.97	3721.54	CWPF & TKO137
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	410.66	5561.76	SENT
Non-inert C&D materials recycled, <b>ton</b>	Nil	31.72	N/A
Chemical waste disposed, <b>kg</b>	Nil	3800	N/A



### 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/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

6.1.1. No exceedance was recorded in the reporting period.

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

6.1.2. Limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Center on 29 December, 16 and 23 January 2018 and the exceedances were concluded as non-Project related.

<u>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</u>

6.1.3. Limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Center on 29 December, 16 and 23 January 2018 and the exceedances were concluded as non-Project related.

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

6.1.4. No exceedance was recorded in the reporting period.

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

6.1.5. No exceedance was recorded in the reporting period.

<u>Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Raod 8 Section) under</u> FEP-10/364/2009/B

6.1.6. No exceedance was recorded in the reporting period.

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

6.1.7. No exceedance was recorded in the reporting period.



## Real Time Noise Monitoring

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

- 6.1.8. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 6.1.9. Limit Level exceedance was recorded on 22 January 2018 at RTN2a- Hong Kong Electric Centre was recorded in the reporting period. The exceedance was concluded as non Project related.
- 6.1.10. Limit level exceedance was recorded on 03 January 2018 and on 20 January 2018 at RTN3-Yu Lee Mo Fan Memorial School was recorded in the reporting period. The exceedance on 29 December 2017 was considered as Project related while the exceedance on 20 January 2018 was considered as non Project related.
- 6.1.11. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting period.
  - Contract no. HY/2011/08 Central -Central Wan Chai Bypass (CWB) -Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E
- 6.1.12. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting period.
- 6.1.13. Limit Level exceedance was recorded on 22 January 2018 at RTN2a- Hong Kong Electric Centre was recorded in the reporting period. The exceedance was concluded as non Project related.
- 6.1.14. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting period.



#### 6.2 Air Quality Monitoring

- <u>Contract no. HY/2009/18 Central Wan Chai Bypass (CWB) Central Interchange under</u> FEP-05/364/2009/A
- 6.2.1. No exceedance was recorded in the reporting period.
  - <u>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</u>
- 6.2.2. One 1hr TSP action level exceedance were recorded at CMA5b Pedestrian Plaza on 29 December 2017. The exceedance was concluded not related to the Project works under Contract HK/2009/01.
  - <u>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</u>
- 6.2.3. No exceedance was recorded in the reporting period.
  - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section) FEP-06/364/2009/A
- 6.2.4. No exceedance was recorded in the reporting period.
  - Contract no. HY/2009/19 Central Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D
- 6.2.5. No exceedance was recorded in the reporting period.
  - Contract no. HK/2012/08 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai West under FEP-12/364/2009/D
- 6.2.6. One 1hr TSP action level exceedance were recorded at CMA5b Pedestrian Plaza on 29 December 2017. The exceedance was concluded not related to the Project works under Contract HK/2012/08.
  - <u>Contract no. HY/2010/08 Central-Wanchai Bypass Tunnel (Slip Raod 8 Section) under</u> FEP-10/364/2009/B
- 6.2.7. No exceedance was recorded in the reporting period.
  - Contract no. HY/2011/08 Central Central Wan Chai Bypass (CWB) Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning under FEP-11/364/2009/E
- 6.2.1 One 1hr TSP action level exceedance were recorded at CMA5b Pedestrian Plaza on 29 December 2017. The exceedance was concluded not related to the Project works under Contract HY/2011/08.



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

- 6.3.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.3.2 One limit level exceedance was recorded at RTN3- Yu Lee Mo Fan Memorial School was recorded on 03 January 2018 in the reporting period. After checking with Contractor, road milling works was observed conducted beyond the noise enclosure and contributed as the major noise impact during the time of monitoring and the exceedance was considered as Project related.
- 6.3.3 An EPD inspection record on Construction Noise Ordinance (Cap 400) regarding conducting Prescribed Construction Works (PCW) – Hammering within the designated area on 23 November 2017 contrary to Construction Noise Permit condition was issued to the Contractor of HY/2009/19 on 17 January 2018.
- 6.3.4 An EPD inspection record on Construction Noise Ordinance (Cap 400) regarding the conducting prescribed construction works Handling of steel bar within the designated area during restricted hours on 21 January 2018 without a valid Construction Noise Permit was issued to the Contractor of HY/2009/19 on 22 January 2018.

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

- 6.4.1 The work at the concerned location beyond the noise enclosure was completed after the recorded exceedance and no further exceedance was recorded. Nevertheless, in view of the recorded noise impact, the Contractor of HY/2009/19 was advised to provide noise mitigation measure including temporary noise barrier for future road miling works at the concerned location, if any, to avoid any further potential noise impact.
- 6.4.2 Follow up inspection on the concerned works area was conducted by the Environmental Team. The Contractor was advised to critically review the site control measure and enhance the site supervision to avoid conducting construction activities/ operation of PME without a valid Construction Noise Permit. Ad hoc site inspection was conducted by the Environmental Team and no further PCW works was observed conducted without a valid construction noise permit within the designated area during restricted hour.



7.0.1. According to Condition 3.4 of the EP-364/2009/E, 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).

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

- 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 construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area include road and drain works, backfilling works and reinstatement of culvert; and drainage construction and trimming of rock level were performed in January 2018 reporting period. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were road and drains construction and backfilling works at Wan Chai West and Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were drainage works and ventilation building construction at Central; temporary reclamation removal and reinstatement works at Causeway Bay, road works at Victoria Park; bridge construction, approach ramp construction and building construction 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 was 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 during the air quality and noise environmental monitoring events in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

#### 8 ENVIROMENTAL SITE AUDIT

- 8.0.1. During this reporting period, weekly environmental site audits were conducted for Contracts HY/2009/18, HY/2009/19, HK/2012/08, HK/2009/01, HK/2009/02, HY/2010/08 and HY/2011/08. 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/2009/18 were carried out during this reporting period. No observation was found in the reporting period
- 8.0.3. Site inspections for Contract no. HY/2009/19 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.3.*

Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/19

Item	Date	Observations	Action taken by Contractor	Completion date
171227_1	27 Dec 2017	NRMM label shall be provided to excavator mounted breaker before use (Portion 3)	NRMM Label was provided to PME	Completion as observed on 3 January 2018
180110_1	10 Jan 2018	Dust mitigation shall be provided to breaking works to avoid dust emission (IEC Bridge Deck)	No breaking works was observed at the concerned location	Completion as observed on 17 January 2018
180110_2	10 Jan 2018	Dust mitigation shall be provided to dusty surface (IEC Bridge Deck)	Watering was provided to dusty surface	Completion as observed on 17 January 2018
180110_3	10 Jan 2018	Cleaning shall be provided to site exit to avoid silt / mud deposition (Oil Street)	No silt / mud deposition was observed at the site exit	Completion as observed on 17 January 2018
180110_4	10 Jan 2018	Drip tray shall be provided to oil container (Portion 3)	Drip tray was provided to oil container	Completion as observed on 17 January 2018
180124_1	24 Jan 2018	Watering shall be provided to dusty surface to avoid dust emission	Watering was provided to dusty surface	Completion as observed on 31 January 2018

- 8.0.4. Site inspections for Contract no. HK/2009/01 was carried out during this reporting period.

  No observation was found in the reporting period.
- 8.0.5. Site inspections for Contract no. HK/2009/02 were carried out during this reporting period. No observation was found in the reporting period.



8.0.6. Site inspection for Contract no. HK/2012/08 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.6.* 

Table 8.6 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Completion date
180123_01		Covering or watering shall be provided to idle stockpile stored on-site (P2 Road)	Watering was provided to idle stockpile	Completion as observed on 30 January 2018

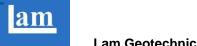
8.0.7. Site inspections for Contract no. HY/2010/08 were carried out during this reporting period.

No observation was found in the reporting period.

Table 8.7 Summary of Environmental Inspections for Contract no. HY/2010/08

Item	Date	Observations	Action taken by Contractor	Completion date
171215_1	15-Dec-17	Silt curtain shall be deploy and enclose the works area to avoid contamination to nearby water body (TS3)	Silt curtain was deployed to enclose the working area at concerned location	Completion as observed on 27 December 2017
171215_2	15-Dec-17	Floating refuse around cooling water intake shall be cleaned regularly (TS3)	Floating refuses around the cooling water intake was cleared	Completion as observed on 20 December 2017
171215_3	15-Dec-17	Drip tray shall be provided to chemical container and chemical waste shall be stored properly (Victoria Park)	The chemical container was removed	Completion as observed on 20 December 2017
171215_4	15-Dec-17	Wheel washing shall be provided to site exit to avoid silt deposition (Victoria Park)	The concerned site exit was closed and cleaning was provided to public area	Completion as observed on 20 December 2017
171227_1	27-Dec-17	Silt curtain and impermeable barrier shall be enclose the works area and avoid enclose the cooling water intake (TS3)	observed	Completion as observed on 3 January 2018

8.0.8. Site inspections for Contract no. HY/2011/08 were carried out during this reporting period. No observation was found in the reporting period.



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

- 9.0.1. Two environmental complaints were received in the reporting period.
- 9.0.2. First 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 on 08 January 2018 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 operation.

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 pokers were operated without a valid Construction Noise Permit.

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. 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

9.0.3. Second 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.

ET confirmed with the Resident Site Staff that cable laying was conducted under Contract HY/2011/08 within the site area near Watson Road on 15 January 2018.

No construction works was conducted under Contract HY/2009/19 near Watson Road on 15 January 2018.





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.

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.

- 9.0.4. Two Summons to Defendant were issued to the Contractors of Contract HY/2009/19 in the reporting month.
- 9.0.5. The First Summons to Defendant was issued to the Contractors of Contract HY/2009/19 on 29 December 2017 regarding the discharge matter namely not unpolluted water into a communal drain in a water control zone namely Victoria Harbour Water Control Zone (Phase 3) which is contrary to section 9(1) and section 11(1) of Water Pollution Control Ordinance, Cap.358.
- 9.0.6. The Second Summons to defendant was issued to the Contractors of Contract HY/2009/19 on 24 January 2018 regarding the contravene of the provision of the licence, numbered WT00025282-2016 granted on 15/09/2016 under the Water Pollution Control Ordinance, Cap 358, namely by making a discharge of which the suspended solids exceed the limit stated in the table in condition B1 of the said licence, the purpose of which was as specified in Regulation 17B(2) (a) of the water Pollution Control (General) Regulations, Cap 358.
- 9.0.7. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*

9.0.8. 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
January 2018	2
September 2010 – December 2017	89
Total	91

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	1	0	1
Water	0	0	0
Waste	0	0	0
Total	2	0	2

#### 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/2009/18	<ul><li>Landscaping works</li><li>Maintenance works</li></ul>	<ul> <li>Dust control during dust generating activities</li> <li>Provide protection works to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>
HY/2009/19	<ul> <li>Approach ramp structure         Construction.</li> <li>Bridge Construction &amp;         installation of enclosure.</li> <li>Retaining wall construction.</li> <li>FEHD Metal Roof Construction         &amp; re-provision including         drainage works.</li> <li>Hing Fat Street road and         drainage works.</li> <li>Oil Street drainage works.</li> <li>Installation of skin parapet on         TB bridge at Pier 15-17.</li> <li>Landscape deck, column &amp; pile         cap foundation works continues</li> </ul>	<ul> <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>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.</li> </ul>
HK/2009/01	Reinstatement of amenity area	Dust control during dust generating works



#### HK/2009/02

- Implementation of passage diversion from East staircase to West staircase for remaining rectification in the proximity of the Star Ferry Pier (Completion of Ferry Pier stage 1 and reopen to public. Stage 2 to be implemented)
- Construction of remaining Type 4 covered walkway
- Pending for remaining remedial works of water leakage.
- Remaining works for Hung Hing Road Flyover – Footpath associated works
- Commencement of seawall block fabrication in China
- Preparation works for D-Wall cutting
- Partial removal of TWCR4 to +2.5mPD
- Removal of ELS S1 & S1A (Grid 5 to15)
- Backfilling works before removal of ELS for Grid 8-15
- Preparation works for box culvert 'O'
- Construction of CMS at caisson
- EVA construction adjacent to Ferry Pier
- Construction of surface channel at Portion 5
- Backfilling works at Portion 5 up to updated finish level
- Boundary Fencing and access gate
- Remedial and Outstanding Works inside Tunnel
- Remedial work for 0.5 ton armour at WCR3
- Sewage works at Wan Shing Street.

- Dust control during dust generating works
- Proper maintenance boundary surface runoff protection and water treatment facilities to avoid potential runoff related impact.
- Provision of protection measures to ensure no runoff out of site area or direct discharge into public drainage system.

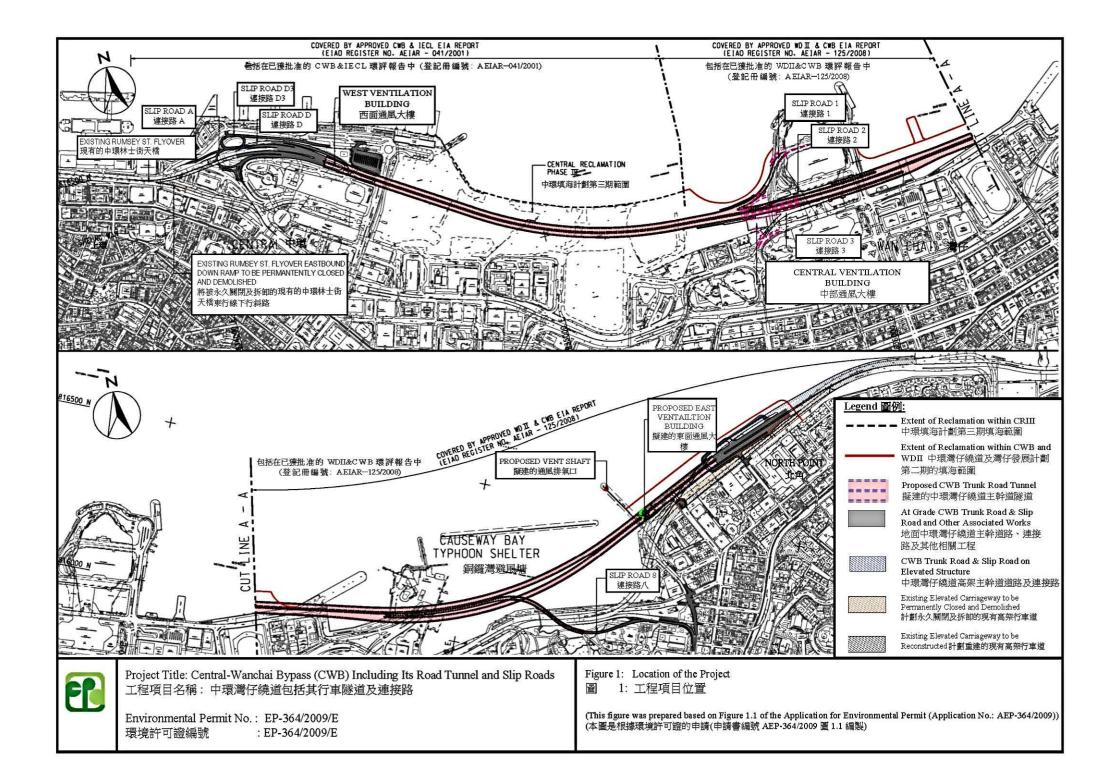


HK/2012/08	<ul> <li>Construction of Slip Road 1</li> <li>Construction of drainage</li> <li>Asphalt paving</li> <li>Sewer diversion</li> </ul>	<ul> <li>Dust control during dust generating works</li> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system.</li> </ul>
HY/2010/08	<ul> <li>Tree protection works next to existing BGO,</li> <li>Drainage improvement works,</li> <li>Utility diversion works,</li> <li>Retaining wall works</li> <li>ELS works,</li> <li>Construction works for subway extension</li> </ul>	<ul> <li>Dust control during dust generating works and stockpile stored on site.</li> <li>Appropriate measures should be taken to ensure adequate protections are provided for trees being transplanted and retained on site.</li> <li>Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>
HY/2011/08	<ul> <li>Construction of Ventilation         Buildings, inclusive of         Administration Building, Central         Ventilation Building, East         Ventilation Shaft/Building, West         Ventilation Building</li> <li>Application of Thermal Barrier         inside the Tunnel, asphalt         pavement</li> <li>Installation of Electricals and         Mechanicals</li> <li>Installation of Tunnel Features</li> </ul>	Dust control during dust generating works

- 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/2009/15 was confirm completed by the RSS from 27 October 2017 onwards.

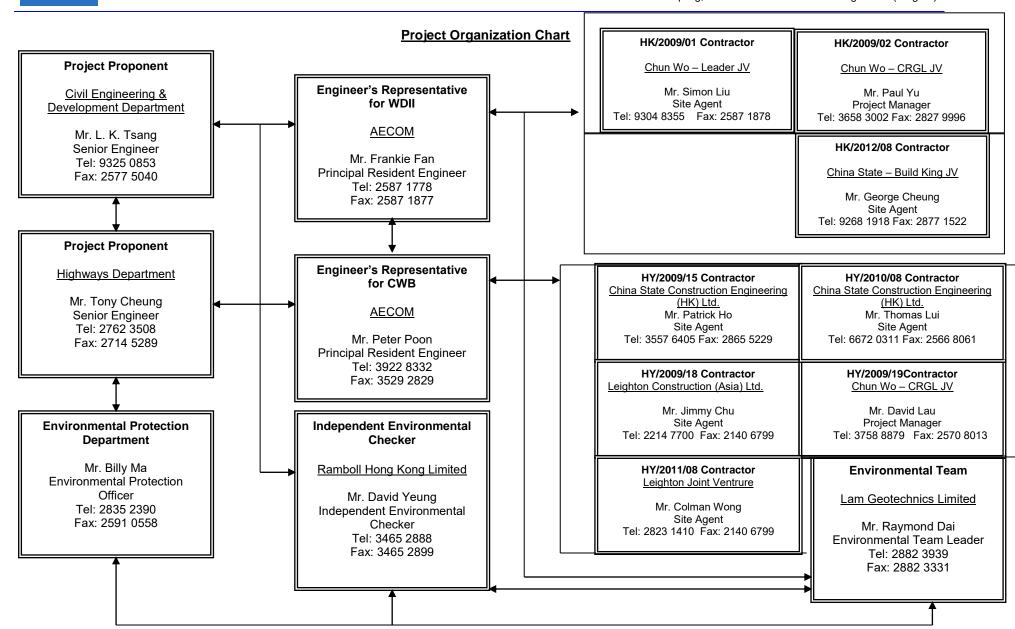
Figure 2.1

Project Layout



# Figure 2.2

**Project Organization Chart** 

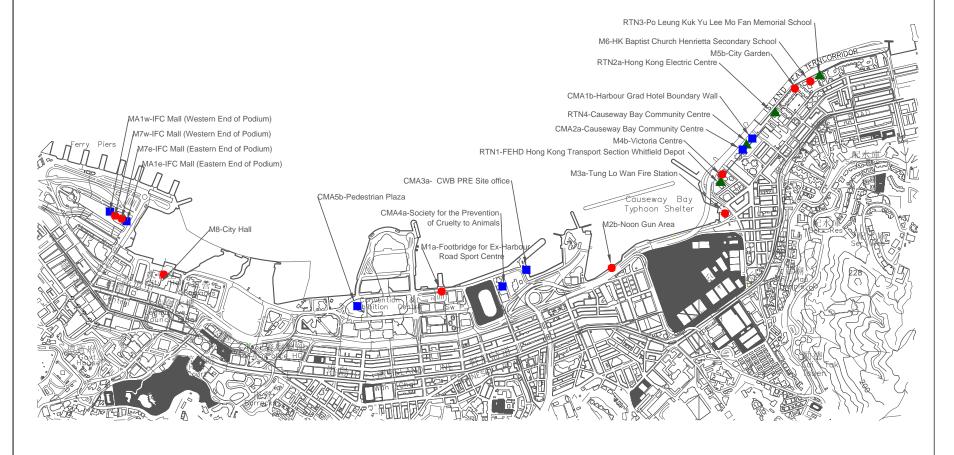


# Figure 4.1

**Locations of Monitoring Stations** 



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



LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS

# 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	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	-	nentat iges*	ion	Relevant Legislation
Report Ref	Environmental Frotection (vicasures / virtigation vicasures	Location / Timing	ocation / Timing Agent		C	О	Dec	and Guidelines
Construction Phase								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
S3.8.1	<ul> <li>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.</li> <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		V			
Operational	Phase							
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			V		EIAO-TM

 $<sup>\</sup>ast$  Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

 Table A.2
 Implementation Schedule for Noise Control

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im		ientat ges*	ion	Relevant Legislation
Report Ref	Environmental Protection vicasures / virtugation vicasures	Docation / Thining	Agent	Des	C	o	Dec	and Guidelines
Constructio	n Phase							
S4.9.3	Good Site Practice:	Work Sites / During	Contractor		$\sqrt{}$			EIAO-TM, NCO
	<ul> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> </ul>	Construction						
	<ul> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> </ul>							
	• Mobile plant, if any, shall be sited as far away from NSRs as possible.							
	<ul> <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> </ul>							
	<ul> <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> </ul>							
	<ul> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on- site construction activities.</li> </ul>							
S4.8.1 – S4.8.11	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:  • Slip road 8 tunnel  • Construction of diaphragm wall and substructures of the tunnel approach ramp  • Excavation  • Construction of slabs  • Backfill	Work Sites / During Construction	Contractor		1			EIAO-TM, NCO

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im		nentat ges*	ion	Relevant Legislation
Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
	<ul> <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> <li>Use of PME grouping for the following tasks:         <ul> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul> </li> </ul>							
Operation 1	Phase							
S4.8.12 – S4.8.23	<ul> <li>For Existing NSRs</li> <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	V	7	V		EIAO-TM

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Im	-	entati ges*	ion	Relevant Legislation
Report Ref	Environmental Protection (Vensures) (Managarion Mensures	Document, 111111111	Agent	Des	С	О	Dec	and Guidelines
	For Future/Planned NSRs  • about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	V	<b>√</b> #			
	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.	Near Causeway Bay Fire Station / During detailed design of the re- provisioned Tin Hau Temple	Project Proponent for the re-provisioned Tin Hau Temple	~				

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

<sup>#</sup> 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	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Thinning	Agent	Des	C	О	Dec	and Guidelines
Construction	Construction Phase							
S6.5.14	Ploating Refuse 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	<ul> <li>Good Site Practices</li> <li>Recommendations for good site practices during the construction activities include:</li> <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		V			Waste Disposal Ordinance (Cap.354)

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag		on	Relevant Legislation
Report Ref	Environmental Protection Measures / Minigation Measures	Location / Timing	Agent	Des	C	o	Dec	and Guidelines
S6.6.2	Waste reduction Measures  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:  • 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;  • 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;  • any unused chemicals or those with remaining functional capacity shall be recycled;  • use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material.  • prior to disposal of C&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;  • proper storage and site practices to minimise the potential for damage or contamination of construction materials; and  • plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	Work site / During planning and design stage, and construction stage	Contractor	<b>√</b>	7			

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
Report Ref	Environmental Protection Measures / Minigation Measures	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
S6.6.4	General Refuse  General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material.  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.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	Chemical Wastes  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.	Work site / During the construction period	Contractor		٧			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.6.6	Construction and Demolition Material  C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&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.	Work site / During the construction period	Contractor		٧			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Report Ref	Environmental i Totection Measures / Mitigation Measures	Location / Timing	Agent		C	О	Dec	and Guidelines
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	Bentonite Slurry  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:  If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.							
	<ul> <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> </ul>							
	• 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.							

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Monthly EM&A Report

 Table A.5
 Implementation Schedule for Land Contamination

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing Implementation		In		entati ges*	on	Relevant Legislation
Report Ref	Environmental Protection Measures / Mulgation Measures	Location / Timing	Agent	Des	С	O	Dec	and Guidelines
Construction	on and Operation Phase							
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.							

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

 Table A.7
 Implementation Schedule for Landscape and Visual

WDII & CWB EIA	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	-	entati ges*	on	Relevant Legislation and Guidelines
Report Ref					Des	C	О	Dec	
<b>Construction P</b>	hase								
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	1	√			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	1	√			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Phase	se								
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	$\sqrt{}$	√	√		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	V	1	1		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	V	1	1		ETWB TCW 2/2004

<sup>\*</sup>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 Quality Monitoring

Monitoring Location	1-hour TSP Lev	el in $\mu$ g/m $^3$	24-hour TSP Le	evel in $\mu$ g/m $^3$
	Action Level	Limit Level	Action Level	Limit Level
CMA1b	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5b	332.0	500	181.0	260
MA1e	325.1	500	173.4	260
MA1w	325.1	500	173.4	260

## Appendix 4.2

Copies of Calibration Certificates



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - M Operator		Rootsmeter Orifice I.I		438320 0005	Ta (K) - Pa (mm) -	293 759.46
PLATE	VOLUME	VOLUME	DIFF	DIFF	METER	ORFICE
OR	START	STOP	VOLUME	TIME	Hq	DIFF H2O
Run #	(m3)	(m3)	(m3)	(min)	(mm)	(in.)
1	NA	NA	1.00	1.3960	3.2	2.00
2	NA	NA	1.00	0.9970	6.4	4.00
3	NA	NA	1.00	0.8910	7.8	5.00
4 5	NA	NA	1.00	0.8500	8.7	5.50
5	NA	NA	1.00	0.6990	12.7	8.00

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1 0100	0.7040	1 4055				
1,0120	0.7249	1.4257		0.9958	0.7133	0.8784
1.0078	1.0108	2.0163		0.9916	0.9946	1.2423
1.0058	1.1288	2.2543		0.9896	1.1107	1.3889
1.0047	1.1820	2.3643		0.9885	1.1630	1.4567
0.9993	1.4296	2.8514	The same statement with the same	0.9832	1.4066	1.7568
Qstd slop	pe (m) =	2.02533		Qa slope	e (m) =	1.26823
intercept	t (b) =	-0.03593		intercept		-0.02214
coefficie	200	0.99983		coefficie		0.99983
		Pa/760) (298/	 [a)]		SQRT [H20 (T	

#### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)

Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]

Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{ [SQRT(H2O(Pa/760)(298/Ta))] - b}

 $Qa = 1/m\{[SQRT H2O(Ta/Pa)] - b\}$ 



TESTING	0 0				unio oun			,		
Location	:	CMA1b				Calibration	on Date	:	21-Nov-17	
Equipment no.	:	HVS001				Calibration	on Due Date	:	21-Jan-18	
CALIBRATION OF CO	NTINUOUS FL	OW RECO	<u>RDER</u>							
				Ambient C	ondition					
Temperature, T <sub>a</sub>		292		Kelvin	Pressure, Pa	1	1	018	mmHg	
			Orifice	Transfer Sta	ndard Inform	ation				
Equipment No.		Ori001		Slope, m <sub>c</sub>	m <sub>c</sub> 2.02533 Intercept, bc				-0.03593	
Last Calibration Da	ite	20-Mar-1	7		( H	x P <sub>a</sub> / 10	13.3 x 298 / <sup>-</sup>	Γ <sub>a</sub> ) <sup>1/2</sup>	2	
Next Calibration Da	ite	20-Mar-1	8			m <sub>c</sub> >	$(Q_{std} + b_c)$			
	Calibration of TSP									
Calibration	Ма	nometer Re	eading	Q <sub>std</sub> Continuous Flow IC					IC	
Point	н	(inches of v	vater)	(m <sup>3</sup> /	min.)	Rec	order, W	(W(P <sub>a</sub>	/1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-a	axis	(CFM)			Y-axis	
1	1.5	1.5	3.0	0.8	837	27		27.3392		
2	2.5	2.5	5.0	1.1	357		34		34.4271	
3	3.9	3.9	7.8	1.4	140		43		43.5402	
4	5.0	5.0	10.0	1.5	987		50		50.6281	
5	6.2	6.2	12.4	1.7	782		58		58.7286	
By Linear Regression of	of Y on X									
	Slope, m		34.7	7877	Int	tercept, b =	-4.	4504		
Correlati	on Coefficient*	=	0.9	960	-					
Calibr	ation Accepted	=	Yes	/ <del>No</del> **	<u>-</u>					
* if Correlation Coeffici	ent < 0.990, ch	eck and rec	alibration aga	in.						
			3							
** Delete as appropriat	e.									

Remarks :	As per client's	As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been								
	re-assigned f	rom EL452 to HVS001 with respect	to the update in quality management system.							
Calibrated by	; y	Jackey MA	Checked by	: Pauline Wong						
Date	:	21-Nov-17	Date	: 21-Nov-17						



Location	:	CMA1b	Calibration Date	:	17-Jan-18
Equipment no.	:	HVS001	Calibration Due Date	:	17-Mar-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T <sub>a</sub>	293	Kelvin	Pressure, P <sub>a</sub>	1014	mmHg				
Orifice Transfer Standard Information									
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593				
Last Calibration Date	20-Mar-17		( H x P <sub>a</sub> /	1013.3 x 298 / T <sub>a</sub> )	1/2				
Next Calibration Date	20-Mar-18	$m_c \times Q_{std} + b_c$							
		Calibratio	n of TSP						

Calibration of TSP									
Calibration	Ма	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC			
Point	H (inches of water)		(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)				
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis			
1	1.6	1.6	3.2	0.9088	28	28.2476			
2	2.5	2.5	5.0	1.1316	36	36.3184			
3	3.9	3.9	7.8	1.4089	45	45.3980			
4	5.1	5.1	10.2	1.6086	52	52.4599			
5	6.4	6.4	12.8	1.7998	58	58.5130			
By Linear Regression of Y	on X								
	Slope, m	=	33.9	9466 In	tercept, b = -2	.3715			
Correlation C	Coefficient*	=	0.9	998					
Calibration	Accepted	=	Yes	/ <del>No</del> **					

<sup>\*</sup> if Correlation Coefficient < 0.990, check and recalibration again.

**	Delete	20	approp	riate	

Remarks : 

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been 

re-assigned from EL452 to HVS001 with respect to the update in quality management system.

Calibrated by : Jackey MA Checked by : Pauline Wong

Date : 17-Jan-18 Date : 17-Jan-18

21-Nov-17



Calibrated by

Date

21-Nov-17

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

TESTING	Calibi	ation b	ata ioi i	ngn von	unic Oan	ipici (10	Gampier)	'	
Location	:	CMA2a				Calibratio	on Date	:	21-Nov-17
Equipment no.	:	HVS002				Calibratio	on Due Date	:	21-Jan-18
CALIBRATION OF COM	NTINUOUS FL	OW RECOR	RDER						
				Ambient C	ondition				
Temperature, T <sub>a</sub>		292		Kelvin	Pressure, Pa	ı	10	)18	mmHg
			Orifice '	Transfer Sta	ndard Inform	ation			
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.025	33	Intercept, bc		-0.03593
Last Calibration Dat	e	20-Mar-17			( H	x P <sub>a</sub> / 10	13.3 x 298 / T	(a) 1/2	
Next Calibration Dat	te	20-Mar-18 $m_c \times Q_{std} + b_c$							
				Calibration	n of TSP				
Calibration	Mai	Manometer Reading		Q	std	Contin	uous Flow		IC
Point	Н (	H (inches of water)		(m <sup>3</sup> /	min.)	Reco	order, W	(W(P <sub>a</sub> /1	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-axis		(0	CFM)		Y-axis
1	1.6	1.6	3.2	0.9	121		29		29.3643
2	2.6	2.6	5.2	1.1	578		34		34.4271
3	4.1	4.1	8.2	1.4	494		45		45.5653
4	5.2	5.2	10.4	1.6	300		52		52.6532
5	6.3	6.3	12.6	1.7	924		56		56.7035
By Linear Regression of	f Y on X								
	Slope, m	=	32.0	6438	In:	tercept, b =	-1.5	5778	
Correlation	on Coefficient*	=	0.9	948	_				
Calibra	ation Accepted	=	Yes	/No**	<u>-</u>				
* if Correlation Coefficie	nt < 0.990, che	eck and reca	alibration aga	in.					
** Delete as appropriate	).								
As per clie	ent's provided i	information,	the equipme	nt reference i	no. of the cali	brated High V	olume Sampler h	as been	
	ed from EL449	to HVS002	with respect	to the update	in quality mar	nagement sys	tem.		
Calibrated by		ackey MA				Checked		:	Pualine Wong

Date

3.0980

Intercept, b =



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

Location :		CMA2a		Calibration Date : 17-Jan-18					17-Jan-18	
Equipment no.		HVS002				Calibration	on Due Date	:	17-Mar-18	
CALIBRATION OF CONTIN	NIIOUS FI	OW RECO	RDER							
<u></u>			<u></u>	Ambient C	ondition					
							<u> </u>			
Temperature, T <sub>a</sub>		293		Kelvin	Pressure, Pa	1	10	014	mmHg	
Orifice Transfer Standard Information										
Equipment No.		Ori001		Slope, m <sub>c</sub>	2.02533 Intercept,		Intercept, bc		-0.03593	
Last Calibration Date		20-Mar-17 ( H x P <sub>a</sub> / 1013.3 x 29					13.3 x 298 / T	Γ <sub>a</sub> ) <sup>1/2</sup>		
Next Calibration Date		20-Mar-1	8			m <sub>c</sub> >	$(Q_{std} + b_c)$			
				Calibration	n of TSP					
Calibration	Ма	nometer Re	eading	Q	std	Contin	uous Flow		IC	
Point	н	(inches of v	vater)	(m <sup>3</sup> /	min.)	Rec	order, W	(W(P <sub>a</sub> /	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-a	axis	(	CFM)		Y-axis	
1	1.8	1.8	3.6	0.9	628		33		33.2919	
2	2.8	2.8	5.6	1.1	965		41		41.3626	
3	4.1	4.1	8.2	1.4	441		50		50.4422	
4	5.4	5.4	10.8	1.6	547		56		56.4953	
5	6.6	6.6	13.2	1.8	275		60		60.5307	
By Linear Regression of Y	on X									

* if	Correlation	Coefficient	< 0.990.	check and	recalibration	again.

Slope, m

Correlation Coefficient\*

Calibration Accepted

* Delete as appropriate.									
Remarks :	As per client	's provided information, the equip	ment reference no. of the calibrated High Volume Sampler	has bee	en				
re-assigned from EL449 to HVS002 with respect to the update in quality management system.									
Calibrated b	y :	Jackey MA	Checked by	:	Pualine Wong				
Date	:	17-Jan-18	Date	: _	17-Jan-18				
		·							

31.9847

0.9970

Yes/No\*\*



Location :	CMA3a	Calibration Date	:	20-Nov-17
Equipment no.	HVS012	Calibration Due Date	:	20-Jan-18

### **CALIBRATION OF CONTINUOUS FLOW RECORDER**

		Ambient Condition		
Temperature, T <sub>a</sub>	292	Kelvin <b>Pressure</b> , <b>P</b> <sub>a</sub>	1019	mmHg

Orifice Transfer Standard Information										
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593					
Last Calibration Date	20-Mar-17	(HxP <sub>a</sub> /1013.3 x 298/T <sub>a</sub> ) 1/2								
Next Calibration Date	20-Mar-18	m <sub>c</sub> x Q <sub>std</sub> + b <sub>c</sub>								

Calibration of TSP										
Calibration	Ma	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC				
Point	Н (	inches of v	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)				
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis				
1	1.3	1.3	2.6	0.8243	36	36.4701				
2	2.2	2.2	4.4	1.0670	42	42.5485				
3	3.4	3.4	6.8	1.3221	48	48.6268				
4	4.4	4.4	8.8	1.5016	54	54.7052				
5	5.5	5.5	11.0	1.6767	60	60.7835				
By Linear Regression of Y	on X									
	Slope, m	=	28.1	915 In	tercept, b = 1	2.5891				
Correlation C	oefficient*	=	0.99	961						
Calibration	Accepted	=	Yes/	<del>No</del> **						

<sup>\*</sup> if Correlation Coefficient < 0.990, check and recalibration again.

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been Remarks :

re-assigned from EL333 to HVS012 with respect to the update in quality management system.

Calibrated by

Example 20-Nov-17

Checked by Example Pauline Wong

Date 20-Nov-17

Date 20-Nov-17

<sup>\*\*</sup> Delete as appropriate.



Location	: _	CMA3a	Calibration Date	:	16-Jan-18
Equipment no.	: _	HVS012	Calibration Due Date	:	16-Mar-18

### **CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition								
Temperature, T <sub>a</sub>	291	Kelvin Pressure, P <sub>a</sub>	1015	mmHg				

Orifice Transfer Standard Information										
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593					
Last Calibration Date	20-Mar-17	(HxP <sub>a</sub> /1013.3 x 298/T <sub>a</sub> ) <sup>1/2</sup>								
Next Calibration Date	20-Mar-18	m <sub>c</sub> x Q <sub>std</sub> + b <sub>c</sub>								

Calibration of TSP										
Calibration	Ma	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC				
Point	Н (	inches of v	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)				
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis				
1	1.4	1.4	2.8	0.8545	35	35.4482				
2	2.2	2.2	4.4	1.0667	40	40.5122				
3	3.4	3.4	6.8	1.3218	48	48.6146				
4	4.4	4.4	8.8	1.5012	53	53.6786				
5	5.6	5.6	11.2	1.6913	58	58.7427				
By Linear Regression of Y	on X				•					
	Slope, m	=	28.3	766 Ir	ntercept, b = 1	0.8760				
Correlation C	oefficient*	=	0.99	991						
Calibration	Accepted	=	Yes/	No**						

<sup>\*</sup> if Correlation Coefficient < 0.990, check and recalibration again.

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been Remarks :

re-assigned from EL333 to HVS012 with respect to the update in quality management system.

 Calibrated by
 : Jackey MA
 Checked by
 : Pauline Wong

 Date
 : 16-Jan-18
 Date
 : 16-Jan-18

<sup>\*\*</sup> Delete as appropriate.



Location	:	CMA4a	Calibration Date :		20-Nov-17
Equipment no.	: _	HVS004	Calibration Due Date :	: _	20-Jan-18

#### **CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition										
Temperature, T <sub>a</sub>	292	Kelvin Pressure, P <sub>a</sub> 1019 mmHg								
Orifice Transfer Standard Information										
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533		Intercept, bc	-0.03593				
Last Calibration Date	20-Mar-17		( H x P <sub>a</sub> /	10	13.3 x 298 / T <sub>a</sub> )	1/2				
Next Calibration Date	20-Mar-18	$m_c \times Q_{std} + b_c$								
Calibration of TSP										

Calibration of TSP										
Calibration	Mai	nometer Ro	eading	Q <sub>std</sub>	Continuous Flow	IC				
Point	Н (	inches of v	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)				
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis				
1	1.5	1.5	3.0	0.8841	23	23.3004				
2	2.4	2.4	4.8	1.1136	32	32.4179				
3	3.8	3.8	7.6	1.3967	42	42.5485				
4	4.8	4.8	9.6	1.5675	48	48.6268				
5	6.0	6.0	12.0	1.7505	52	52.6791				
By Linear Regression of Y	on X									
	Slope, m	=	34.4	4902 Ir	ntercept, b = -6.	3878				
Correlation C	oefficient*	=	0.9	965						
Calibration Accepted = Yes/		/ <del>No</del> **								

<sup>\*</sup> if Correlation Coefficient < 0.990, check and recalibration again.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL390 to HVS004 with respect to the update in quality management system.

Calibrated by : Jackey MA Checked by : Pauline Wong

<sup>\*\*</sup> Delete as appropriate.

24.3073

33.4225

42.5378

50.6402 55.7042



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

Location	:	CMA4a	Calibration Date	:	16-Jan-18
Equipment no.	:	HVS004	Calibration Due Date	:	16-Mar-18

#### **CALIBRATION OF CONTINUOUS FLOW RECORDER**

	MOOGOT LOW REGORDER								
Ambient Condition       Femperature, T <sub>a</sub> 291     Kelvin     Pressure, P <sub>a</sub> 1015     mmHg									
Orifice Transfer Standard Information									
Equipment No. Ori001 Slope, m <sub>c</sub> 2.02533 Intercept, bc -0.03593									
Last Calibration Date	20-Mar-17	(HxP <sub>a</sub> /1013.3 x 298/T <sub>a</sub> ) <sup>1/2</sup>							
Next Calibration Date	20-Mar-18	$m_c \times Q_{std} + b_c$							
		Calibration	n of TSP						
Calibration	Manometer Reading	Q <sub>s</sub>	std	Continuous Flow	IC				
Point	H (inches of water)	(m <sup>3</sup> / r	min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)				
	(up) (down) (difference)	X-ax	xis	(CFM)	Y-axis				

0.8839

1.1133

1.3781

4	4.8	4.8	9.6	1.5671	50				
5	5.7	5.7	11.4	1.7062	55				
By Linear Regression of Y on X									

3.0

4.8

7.4

Intercept, b = -9.3021

24

33

42

Correlation Coefficient\* = 0.9995

Calibration Accepted = Yes/Ne\*\*

1.5

2.4

3.7

1.5

3.7

Slope, m

2

3

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

38.0715

re-assigned from EL390 to HVS004 with respect to the update in quality management system.

Calibrated by : Jackey MA Checked by : Pauline Wong

Date Date Checked by : Pauline Wong

16-Jan-18

 $<sup>\</sup>ensuremath{^*}$  if Correlation Coefficient < 0.990, check and recalibration again.

<sup>\*\*</sup> Delete as appropriate.



Location	:	CMA5b	Calibration Date	:	20-Nov-17
Equipment no.	: '	HVS010	Calibration Due Date	: -	20-Jan-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient Cor	ndition		
Temperature, T <sub>a</sub>	292	Kelvin P	Pressure, P <sub>a</sub>	1019	mmHg

Orifice Transfer Standard Information									
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593				
Last Calibration Date	20-Mar-17	(HxP <sub>a</sub> /1013.3 x 298/T <sub>a</sub> ) <sup>1/2</sup>							
Next Calibration Date	20-Mar-18		= m	$a_c \times Q_{std} + b_c$					

Calibration of TSP									
Calibration	Mai	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC			
Point	H (inches of water)		(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)				
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis			
1	1.3	1.3	2.6	0.8243	40	40.5224			
2	2.2	2.2	4.4	1.0670	46	46.6007			
3	3.3	3.3	6.6	1.3028	52	52.6791			
4	4.4	4.4	8.8	1.5016	59	59.7705			
5	5.5	5.5	11.0	1.6767	62	62.8097			
By Linear Regression of Y	n X								
	Slope, m	=	27.0	0050 In	tercept, b = 18.	0599			
Correlation C	oefficient*	=	0.9	969	<del>-</del>				

Calibration Accepted = Yes/ <del>No</del> **

** D	elete	as	ар	pro	priat	e.
------	-------	----	----	-----	-------	----

Remarks: As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-assigned from EL222 to HVS010 with respect to the update in quality management system.

 Calibrated by Date
 : Jackey MA
 Checked by Date
 : Pauline Wong

 Date
 : 20-Nov-17
 20-Nov-17
 : 20-Nov-17

<sup>\*</sup> if Correlation Coefficient < 0.990, check and recalibration again.



Location	: <u></u>	CMA5b	Calibration Date	:	16-Jan-18
Equipment no.	:	HVS010	Calibration Due Date	:	16-Mar-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient Co	ondition		
Temperature, T <sub>a</sub>	291	Kelvin F	Pressure, P <sub>a</sub>	1015	mmHg

Orifice Transfer Standard Information									
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593				
Last Calibration Date	20-Mar-17	(HxP <sub>a</sub> /1013.3 x 298/T <sub>a</sub> ) <sup>1/2</sup>							
Next Calibration Date	20-Mar-18		= <b>m</b>	$n_c \times Q_{std} + b_c$					

Calibration of TSP									
Calibration	Ма	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC			
Point	н	H (inches of water)		(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)			
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis			
1	1.4	1.4	2.8	0.8545	40	40.5122			
2	2.1	2.1	4.2	1.0426	46	46.5890			
3	3.1	3.1	6.2	1.2629	53	53.6786			
4	3.9	3.9	7.8	1.4144	58	58.7427			
5	4.7	4.7	9.4	1.5509	63	63.8067			
By Linear Regression of Y	on X								
	Slope, m	=	33.2	2153 In	tercept, b =	11.9753			

Correlation Coefficient\* = 0.9997

Calibration Accepted = Yes/Ne\*\*

**	Delete	as	appro	priate.

Remarks: As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-assigned from EL222 to HVS010 with respect to the update in quality management system.

 Calibrated by
 :
 Jackey MA
 Checked by
 :
 Pauline Wong

 Date
 :
 16-Jan-18
 Date
 :
 16-Jan-18

 $<sup>\</sup>ensuremath{^*}$  if Correlation Coefficient < 0.990, check and recalibration again.



Location	:	MA1e	Calibration Date	:	20-Nov-17
Equipment no.	: -	HVS007	Calibration Due Date	: -	20-Jan-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition							
Temperature, T <sub>a</sub>	292	Kelvin	Pressure, P <sub>a</sub>	1019	mmHg		

Orifice Transfer Standard Information									
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593				
Last Calibration Date	20-Mar-17	(HxP <sub>a</sub> /1013.3 x 298/T <sub>a</sub> ) <sup>1/2</sup>							
Next Calibration Date	20-Mar-18		m ,	$_{c}$ x Q $_{std}$ + $_{c}$					

Calibration of TSP									
Calibration	Ma	nometer Ro	eading	Q <sub>std</sub>	Continuous Flow	IC			
Point	Н (	inches of	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)			
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis			
1	1.5	1.5	3.0	0.8841	29	29.3787			
2	2.4	2.4	4.8	1.1136	38	38.4962			
3	4.0	4.0	8.0	1.4325	47	47.6138			
4	5.2	5.2	10.4	1.6308	53	53.6921			
5	6.5	6.5	13.0	1.8212	59	59.7705			
By Linear Regression of Y	on X								
	Slope, m	=	31.75	549 In	itercept, b =	2.0811			
Correlation C	Correlation Coefficient* =		0.9985						
Calibration Accepted		=	Yes/P	<del>√0**</del>					

* if Correlation Coefficient < 0.990	, check and recalibration again.
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Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-assigned from EL455 to HVS007 with respect to the update in quality management system.

 Calibrated by Date
 : Jackey MA
 Checked by Date
 : Pauline Wong

 Date
 : 20-Nov-17
 20-Nov-17



Location	:	MA1e	Calibration Date	:	16-Jan-18
Equipment no.	:	HVS007	Calibration Due Date	: -	16-Mar-18

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition						
Temperature, T <sub>a</sub>	291	Kelvin	Pressure, P <sub>a</sub>	1015	mmHg	

Orifice Transfer Standard Information									
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593				
Last Calibration Date	20-Mar-17	(HxP <sub>a</sub> /1013.3 x 298/T <sub>a</sub> ) <sup>1/2</sup>							
Next Calibration Date	20-Mar-18		m ,	$_{c}$ x Q $_{std}$ + $_{c}$					

Calibration of TSP									
Calibration	Ma	nometer Ro	eading	Q <sub>std</sub>	Continuous Flow	IC			
Point	н (	inches of	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)			
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis			
1	1.6	1.6	3.2	0.9123	30	30.3841			
2	2.6	2.6	5.2	1.1581	38	38.4866			
3	4.2	4.2	8.4	1.4671	48	48.6146			
4	5.4	5.4	10.8	1.6611	54	54.6914			
5	6.7	6.7	13.4	1.8483	59	59.7555			
By Linear Regression of Y	on X								
	Slope, m = 31.6			483 In	tercept, b = 1	.7822			
Correlation C	Correlation Coefficient* =			95					
Calibration Accepted =			Yes/	Yes/Ne**					

<ul> <li>if Correlation Coefficient &lt; 0.990, check and recalibration a</li> </ul>	gain.
--------------------------------------------------------------------------------------	-------

Remarks: As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL455 to HVS007 with respect to the update in quality management system.

 Calibrated by Date
 : Jackey MA
 Checked by Date
 : Pauline Wong

 Date
 16-Jan-18
 16-Jan-18
 16-Jan-18



Location	:	MA1w	Calibration Date :	:	20-Nov-17
Equipment no.	: -	HVS008	Calibration Due Date :	: -	20-Jan-18

#### **CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition					
Temperature, T <sub>a</sub>	292	Kelvin	Pressure, P <sub>a</sub>	1019	mmHg

Orifice Transfer Standard Information						
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593	
Last Calibration Date	20-Mar-17		( H x P <sub>a</sub> / 1	013.3 x 298 / T	a) 1/2	
Next Calibration Date	20-Mar-18		= <b>m</b> <sub>c</sub>	$x Q_{std} + b_c$		

Calibration of TSP							
Calibration	Manometer Reading		Q <sub>std</sub>	Continuous Flow	IC		
Point	Н (	inches of	water)	(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis	
1	1.6	1.6	3.2	0.9125	22	22.2873	
2	2.5	2.5	5.0	1.1362	32	32.4179	
3	3.9	3.9	7.8	1.4147	41	41.5354	
4	5.1	5.1	10.2	1.6152	48	48.6268	
5	6.3	6.3	12.6	1.7933	54	54.7052	
By Linear Regression of Y	on X						
	Slope, m	=	36.20	002 Ir	ntercept, b =	-9.8385	
Correlation C	coefficient*	=	0.99	83			
Calibration	Accepted	=	Yes/	<del>/0</del> **			

<sup>\*</sup> if Correlation Coefficient < 0.990, check and recalibration again.

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL080 to HVS008 with respect to the update in quality management system. Remarks:

Pauline Wong Calibrated by Jackey MA Checked by Date 20-Nov-17 Date 20-Nov-17



Location	:	MA1w	Calibration Date	:	16-Jan-18
Equipment no.	:	HVS008	Calibration Due Date	: -	16-Mar-18

#### **CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition					
Temperature, T <sub>a</sub>	291	Kelvin	Pressure, P <sub>a</sub>	1015	mmHg

Orifice Transfer Standard Information						
Equipment No.	Ori001	Slope, m <sub>c</sub>	2.02533	Intercept, bc	-0.03593	
Last Calibration Date	20-Mar-17		( H x P <sub>a</sub> / 1	013.3 x 298 / T	a) 1/2	
Next Calibration Date	20-Mar-18		= <b>m</b> <sub>c</sub>	$x Q_{std} + b_c$		

	Calibration of TSP							
Calibration	Manometer Reading		Q <sub>std</sub>	Continuous Flow	IC			
Point	H (inches of water)		(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)			
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis		
1	1.5	1.5	3.0	0.8839	20	20.2561		
2	2.5	2.5	5.0	1.1359	30	30.3841		
3	3.9	3.9	7.8	1.4144	39	39.4994		
4	5.1	5.1	10.2	1.6148	45	45.5762		
5	6.3	6.3	12.6	1.7928	52	52.6658		
By Linear Regression of Y	on X							
	Slope, m	=	34.84	424 In	tercept, b = -	10.0007		
Correlation C	Correlation Coefficient* = 0.998		88					
Calibration	Calibration Accepted = Yes/N		<del>10</del> **					

* if Correlation Coefficient < 0.990, check a	and recalibration again.
-----------------------------------------------	--------------------------

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL080 to HVS008 with respect to the update in quality management system. Remarks:

Pauline Wong Calibrated by Jackey MA Checked by 16-Jan-18 Date 16-Jan-18 Date



## 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

港 黄 竹 坑 道 3 7 號 利 達 中 心 1 2 樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



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## CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0426 01-02

Page

of

Item tested

Description:

Sound Level Meter (Type 1)

Larson Davis

Microphone PCB

Manufacturer: Type/Model No .:

LxT1

377B02 171529

Serial/Equipment No.: Adaptors used:

0003737

Item submitted by

Customer Name: Address of Customer: Lam Environmental Service Ltd.

Request No .: Date of receipt:

26-Apr-2017

Date of test:

28-Apr-2017

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226

Serial No. 2288444

Expiry Date: 18-Jun-2017

Traceable to: CIGISMEC

Signal generator

DS 360

61227

01-Apr-2018

CEPREI

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity: Air pressure:

50 ± 10 % 1010 ± 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 ±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 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.

Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

04-May-2017

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.

C Sois & Materials Engineering Co . Ltd.

Form No CARP152-1/Issue 1/Rev C/01/02/2007



香港黃竹坑鐵37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0426 01-02

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#### 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 Uncertanity (dB)	Coverage Factor
Self-generated noise	Α	Pass	0.3	
	C	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
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	Α	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
service allow movements	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	N/A	N/A	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
A MARION OF STREET A CONTRACTOR	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
2 2	1 ms burst duty factor 1/104 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 Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

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:

Lai Sheng Jie 28-Apr-2017 Checked by:

Date: 0

Fung Chi Yip \ 04-May-2017

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.

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Form No CARP152-2/Issue 1/Rev C/01/02/2007



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



## CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0524 01

LxT1

0004796

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Item tested

Description: Manufacturer: Type/Model No.:

Adaptors used:

Sound Level Meter (Type 1)

Larson Davis

PCB 377B02 155507

Microphone Preamp PCB PRMLxT1L 042621

Item submitted by

Serial/Equipment No.:

Customer Name

Lam Environmental Service Ltd.

Address of Customer:

Request No.: Date of receipt:

24-May-2017

Date of test:

25-May-2017

Reference equipment used in the calibration

Description:

Multi function sound calibrator Signal generator

Model: B&K 4226

DS 360

Serial No. 2288444

61227

Expiry Date: 18-Jun-2017 01-Apr-2018

Traceable to: CIGISMEC CEPREI

Ambient conditions

Temperature:

21 ± 1 °C 50 ± 10 % 1010 ± 5 hPa

Relative humidity: Air pressure:

#### Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 1, 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 +20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3. 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.

eng Jung

Actual Measurement data are documented on worksheets.

Huang Ju

Approved Signatory:

26-May-2017

Company Chop:

The results reported whis 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

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Form No CARP152-1/Issue 1/Rev C/01/02/2007



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## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0524 01

Page

**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 Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
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	A	Pass	0.3	
	C	Pass	0.3	
	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 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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 Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz Weighting A at 8000 Hz	Pass Pass	0.3 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:

Checked by:

Date:

25-May-2017

Date:

Fund Chi Yip 26-May-2017

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.

Soils & Materials Engineering Co., Ltd.

Form No CARP152-2/Issue 1/Rev C/01/02/2007



香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong, E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



## CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0221 02

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Item tested

Description:

Manufacturer: Type/Model No.:

Adaptors used:

B&K

2250-L 2701778 Microphone

B&K 4950 2755097 Preamp **B&K** ZC0032 19223

Item submitted by

Serial/Equipment No.:

Customer Name:

Lam Geotechnics Limited

Sound Level Meter (Type 1)

Address of Customer: Request No.:

Date of receipt:

22-Feb-2017

Date of test:

02-Mar-2017

Reference equipment used in the calibration

Multi function sound calibrator Signal generator

Signal generator

Model:

B&K 4226 DS 360 DS 360

Serial No. 2288444

33873 61227 Expiry Date:

18-Jun-2017 18-Apr-2017 18-Apr-2017 Traceable to:

CIGISMEC CEPREI CEPREI

Ambient conditions

Temperature:

Relative humidity:

20 ± 1 °C 60 ± 10 % 1010 ± 5 hPa

Air pressure:

### 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 ±20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3. 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:

Huang Jia Min/⊭eng Jun Qi Date: 06-Mar-2017

Company Chop:

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

O Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev C/01/02/2007



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## CERTIFICATE OF CALIBRATION

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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 Uncertanity (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	Α	Pass	0.3	
	С	Pass	0.3	
	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 1/103 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 Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz Weighting A at 8000 Hz	Pass Pass	0.3 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:

104

End

Checked by:

Lam Tze Wai

Date:

Fung Chi Yip 02-Mar-2017

Date:

06-Mar-2017

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.

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### CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0320 02

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Item tested

Description: Manufacturer:

Adaptors used

Sound Level Meter (Type 1) B & K Microphone B & K Preamp B & K

Type/Model No.: Serial/Equipment No.: 2250-L 2722310

4950 2698702 ZC0032 13318

Item submitted by

Customer Name:

Lam Geotechnics Ltd.

Address of Customer:

Request No.: Date of receipt:

20-Mar-2017

- 0

Date of test:

23-Mar-2017

#### Reference equipment used in the calibration

Description:

Multi function sound calibrator

Signal generator Signal generator Model:

B&K 4226 228 DS 360 338

2288444 33873 61227

Serial No.

Expiry Date:

18-Jun-2017 18-Apr-2017 18-Apr-2017 Traceable to:

CIGISMEC CEPREI CEPREI

### Ambient conditions

Temperature:

21 ± 1 °C 60 ± 10 %

DS 360

Relative humidity: Air pressure:

1010 ± 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 ±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 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.

in/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Huang Jier

Approved Signatory:

Date:

24-Mar-2017

Company Chop:

SENGMESSING SENGM

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.

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### CERTIFICATE OF CALIBRATION

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Certificate No.:

17CA0320 02

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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 Uncertanity (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	A C	Pass	0.3	
	С	Pass	0.3	
	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 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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	SPĹ	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 Uncertanity (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:

Lai Sheng Jie

Checked by:

ing Chi Yip

Date:

23-Mar-2017

Date:

24-Mar-2017

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

End

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## CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0505 01

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Item tested

Description: Manufacturer: Type/Model No.: Sound Level Meter (Type 1) B&K

Microphone B & K 4950

Preamp B&K ZC0032

Serial/Equipment No.: Adaptors used:

2250-L 2722311

2698703

13321

Item submitted by

Customer Name:

Lam Geotechnics Ltd.

Address of Customer:

Request No.:

Date of receipt:

05-May-2017

Date of test:

06-May-2017

Reference equipment used in the calibration

Description:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator Signal generator

Model: B&K 4226 DS 360

2288444 61227

18-Jun-2017 01-Apr-2018 CIGISMEC CEPREI

Ambient conditions

Temperature:

22 ± 1 °C 50 ± 10 %

Relative humidity: Air pressure:

1010 ± 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 2. replaced by an equivalent capacitance within a tolerance of +20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3. 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.

n / Fleng Jungi

Actual Measurement data are documented on worksheets

Approved Signatory:

Date:

09-May-2017

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.

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### CERTIFICATE OF CALIBRATION

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Certificate No.:

17CA0505 01

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**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 Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	С	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	Α	Pass	0.3	
	С	Pass	0.3	
	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 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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.

Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Weighting A at 125 Hz	Pass	0.3	
Weighting A at 8000 Hz	Pass	0.5	
	Weighting A at 125 Hz	Weighting A at 125 Hz Pass	Subtest Status Uncertanity (dB)  Weighting A at 125 Hz Pass 0.3

3, Response to associated sound calibrator

Lai Sheng Jie

06-May-2017

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:

Checked by:

Date:

ung Chi Yip 09-May-2017

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.

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### CERTIFICATE OF CALIBRATION

Certificate No.:

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Item tested

Description:

Manufacturer: Type/Model No.:

Type/Model No.: Serial/Equipment No.: Adaptors used: B & K 2250-L

Sound Level Meter (Type 1)

3002695

Microphone B & K

4950

2940839

Preamp B & K ZC0032 18582

Item submitted by

Customer Name:

Address of Customer:

Request No.:

Date of receipt:

Lam Geotechnics Limited
-

Date of test:

19-Jan-2017

Reference equipment used in the calibration

Description:

Multi function sound calibrator Signal generator Signal generator B&K 4226 DS 360 DS 360

Model: Serial No. B&K 4226 2288444

2288444 33873 61227 Expiry Date: 18-Jun-2017 18-Apr-2017

18-Apr-2017

CIGISMEC CEPREI CEPREI

Traceable to:

Ambient conditions

Temperature:

21 ± 1 °C 40 ± 10 % 1010 ± 5 hPa

Relative humidity: Air pressure:

1010 ± 5

#### 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 ±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 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.

Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Huang Jir

Approved Signatory:

Date:

23-Jan-2017

Company Chop:

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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.

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### CERTIFICATE OF CALIBRATION

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Certificate No.:

17CA0119 01

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#### 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 Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	С	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	A	Pass	0.3	
	С	Pass	0.3	
	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 1/103 at 4kHz	Pass	0.3	
70. E	1 ms burst duty factor 1/104 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	
	Lea	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 Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

#### Response to associated sound calibrator 3,

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:

End

Checked by:

Lam Tze War

Date:

Fung Chi Yip 20-Jan-2017

Date:

23-Jan-2017

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.

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### CERTIFICATE OF CALIBRATION

Certificate No.:

18CA0116 01

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Item tested

Description: Manufacturer: Sound Level Meter (Type 1) B & K

Microphone B&K

Preamp BAK ZC0032

Type/Model No.: Serial/Equipment No.: 2250L 3002695

4950 2940839

18582

Adaptors used:

Item submitted by

Lam Geotechnics Ltd.

Customer Name: Address of Customer: Request No.

Date of receipt:

16-Jan-2018

Date of test:

18-Jan-2018

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226 Serial No.

Expiry Date: 08-Sep-2018

Traceable to:

Signal generator Signal generator

DS 360 DS 360

2288444 33873 61227

25-Apr-2018 01-Apr-2018 CIGISMEC CEPRE CEPRE

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity: Air pressure:

50 ± 10 %

1005 ± 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.

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 +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.

Feng Jun Qi

Actual Measurement data are documented on worksheets

Approved Signatory:

Date:

18-Jan-2018

Company Chop:

Comments: The results reported in his 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.

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### CERTIFICATE OF CALIBRATION

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#### 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 Uncertanity (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	A	Pass	0.3	
	C	Pass	0.3	
	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 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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 Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz Weighting A at 8000 Hz	Pass Pass	0.3 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 18-Jan-2018 Checked by

ones oj.

Date:

Lam Tze Wai 18-Jan-2018

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.

End

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## CERTIFICATE OF CALIBRATION

Certificate No.:

17CA1110 02

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Type/Model No.: Serial/Equipment No.: Rion Co., Ltd. NC-73

Adaptors used:

10707358

Item submitted by

Curstomer.

Lam Geotechnics Ltd.

Address of Customer Request No.

Date of receipt:

10-Nov-2017

Date of test:

14-Nov-2017

## Reference equipment used in the calibration

Description: Lab standard microphone Preamplifier Measuring amplifier Signal generator Digital multi-meter Audio analyzer Universal counter	Model:	Serial No.	Expiry Date:	Traceable to:
	B&K 4180	2341427	11-Apr-2018	SCL
	B&K 2673	2239857	05-May-2018	CEPREI
	B&K 2610	2346941	03-May-2018	CEPREI
	DS 360	61227	01-Apr-2018	CEPREI
	34401A	US36087050	25-Apr-2018	CEPREI
	8903B	GB41300350	21-Apr-2018	CEPREI
	53132A	MY40003662	22-Apr-2018	CEPREI

#### Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity:

50 ± 10 %

Air pressure:

1010 ± 5 hPa

### Test specifications

- 1. 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. 2.
- 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

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

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

-Min/Feng Jun Qi

Huang Jia

Approved Signatory:

Date:

15-Nov-2017

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.

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Form No CARP156-1/Issue 1/Rev D/01/03/2007



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA1110 02

Page:

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

Hz dB	30	16
1000 94.00	93.93	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 = 0.008 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 = 991.5 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

#### Total Noise and Distortion 4.

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 = 0.3 %

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.

End

Calibrated by:

Checked by:

Date:

14-Nov-2017

Date:

Fung Chi Yip 5-Nov-2017

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.

Form No CARP156-2/Issue 1/Rev C/01/05/2000



港 黄 竹 坑 道 3 7 號 利 達 中 心 1 2 樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

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### CERTIFICATE OF CALIBRATION

Certificate No.:

17CA1124 02

Page:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: Larson Davis CAL200

Serial/Equipment No.: Adaptors used:

13128

Item submitted by

Curstomer:

Lam Environmental Service Ltd.

Address of Customer: Request No.

Date of receipt:

24-Nov-2017

Date of test:

30-Nov-2017

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2239857	05-May-2018	CEPREI
Measuring amplifier	B&K 2610	2346941	03-May-2018	CEPREI
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Digital multi-meter	34401A	US36087050	25-Apr-2018	CEPREI
Audio analyzer	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

### Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity: Air pressure:

50 ± 10 % 1005 ± 5 hPa

## Test specifications

- 1. 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. 2.
- 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

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

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

Feng

Approved Signatory:

Date: 30-Nov-2017 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

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Form No CARP156-1/Issue 1 Rev D 01 03 2007



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### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA1124 02

Page:

2

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	Output Sound Pressure	Measured Output	(Output level in dB re 20 µPa) Estimated Expanded Uncertainty dB
Shown	Level Setting	Sound Pressure Level	
Hz	dB	dB	
1000	94.0	94.01	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 = 0.010 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 = 999.5 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 = 0.5 %

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:

End

andrated by.

Checked by:

Lam Tze Wai

Date:

Fung Chi Yip 30-Nov-2017

Date:

30-Nov-2017

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.

C Soils & Materials Engineering Co. Ltd.

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## Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

#### Contract No. HK/2015/01

#### Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3) Environmental Monitoring Schedule January 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			27-Dec Noise (daytime) (M2b, M3a, M4b, M5b, M6, M7e, M7w, M8)	28-Dec	29-Dec  1hr TSP Noise (daytime) (M1a)	30-Dec
31-Dec	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan
		Noise (daytime) (M1a, M2b, M3a, M7e, M7w, M8)	24hr TSP	1hr TSP	Noise (daytime) (M4b, M5b, M6)	
7-Jan	8-Jan	9-Jan 24hr TSP	10-Jan 1hr TSP Noise (daytime) (M7e, M7w, M8)	11-Jan Noise (daytime) (M1a, M2b, M3a, M4b, M5b, M6)		13-Jar
14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan
		Noise (daytime) (M1a, M2b, M3a, M4b, M5b, M6)				1hr TSP
21-Jan	22-Jan Noise (daytime) (M7e, M7w, M8)	23-Jan Noise (daytime) (M1a, M2b, M3a)	24-Jan	25-Jan 24hr TSP Noise (daytime) (M4b, M5b, M6)	26-Jan 1hr TSP	

#### Contract No. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

#### Tentative Environmental Monitoring Schedule

			Tentative Environmental Monit February 2018		<del>-</del>	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday 27-Jan
						27-Jan
00.1	00 1	00 1	04 1	4.5-1	0.5-1	0.5-1
28-Jan	29-Jan 24hr TSP Noise (daytime)	30-Jan  1hr TSP Noise (daytime)	31-Jan	1-Feb		3-Feb
4-Feb		6-Feb	7-Feb	8-Feb		10-Feb
		Noise (daytime)				1hr TSP
11-Feb	12-Feb Noise (daytime)	13-Feb Noise (daytime)		15-Feb	16-Feb	17-Feb
18-Feb		24hr TSP	21-Feb  1hr TSP Noise (daytime)	22-Feb	23-Feb	24-Feb
25-Feb	26-Feb 24hr TSP Noise (daytime)	27-Feb				

### Appendix 5.2

Noise Monitoring Results and Graphical Presentations



#### Noise Monitoring Result

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

Location: M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre

			Measure	ement No	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
							B(A), (30-min)	
29/12/2017	13:50	Fine	77.6	70.7	72.3	72	76	75
2/1/2018	09:30	Fine	76.4	78.5	72.2	72	74	75
11/1/2018	13:40	Fine	76.1	78.7	72.3	72	74	75
16/1/2018	13:45	Fine	78.9	80.2	75.2	72	78	75
23/1/2018	13:15	Fine	88.3	93.7	73.9	72	88	75

Location: M2b - Noon-day gun area

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
				Unit: dE	B(A), (30-min)			
27/12/2017	15:15	Fine	69.0	71.6	66.2	68	63	75
2/1/2018	10:15	Fine	69.0	70.7	66.1	68	63	75
11/1/2018	14:35	Fine	68.2	69.5	64.9	68	59	75
16/1/2018	15:00	Fine	72.9	77.3	65.5	68	71	75
23/1/2018	11:05	Fine	68.3	70.8	6/0	68	60	75

Location: M3a - Tung Lo Wan Fire Station

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq		
						Unit: dE	B(A), (30-min)	'		
27/12/2017	15:55	Fine	64.3	66.2	62.2	69	64	75		
2/1/2018	11:00	Fine	66.2	67.8	64.3	69	66	75		
11/1/2018	08:35	Fine	67.1	68.6	65.3	69	67	75		
16/1/2018	09:05	Fine	64.1	65.8	61.8	69	64	75		
23/1/2018	14:30	Fine	64.4	65.9	62.3	69	64	75		

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dl	B(A), (30min)	
27/12/2017	09:35	Fine	66.1	67.6	63.2	67	66	75
5/1/2018	09:00	Fine	64.9	66.7	62.2	67	65	75
11/1/2018	09:15	Fine	69.6	70.5	62.4	67	66	75
16/1/2018	09:45	Fine	71.5	73.8	64.4	67	69	75
25/1/2018	08:02	Fine	64.5	66.2	62.0	67	65	75

Location: M5b - City Garden

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
			70.7   70.0			Unit: d	B(A), (30min)	
27/12/2017	10:10	Fine	70.7 72.6 68.3		68	67	75	
5/1/2018	09:45	Fine	68.7 70.2 66.4		66.4	68	60	75
11/1/2018	10:00	Fine	71.9	72.9	67.8	68	70	75
16/1/2018	10:30	Fine	69.0	70.6	66.7	68	62	75
25/1/2018	09:55	Fine	68.7	69.8	66.3	68	60	75

Location: M6 - HK Baptist Church Henrietta Secondary School

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level	
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	
			69.5 60.0 66.9			Unit: dE	IB(A), (30-min)		
27/12/2017	10:45	Fine	68.5	69.9	66.8	71	69	70	
5/1/2018	10:25	Fine	67.2	68.5	65.7	71	67	70	
11/1/2018	10:40	Fine	67.7	69.0	66.0	71	68	70	
16/1/2018	11:10	Fine	67.7	68.8	66.3	71	68	70	
25/1/2018	10:35	Fine	70.9	72.2	68.8	71	57	65	



#### Noise Monitoring Result

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

Location: M7e - International Finance Centre (Eastern End of Podium) (Reference Station)

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dE	3(A), (30-min)	
27/12/2017	13:45	Fine	69.6 72.6 64.3			67	66	N/A
2/1/2018	14:10	Fine	67.9 69.9 64.			67	61	N/A
10/1/2018	14:50	Fine			64.3	67	62	N/A
15/1/2018	14:30	Fine	69.3	72.9	63.5	67	66	N/A
22/1/2018	14:45	Fine	66.7	69.0	62.6	67	67	N/A

Location: M7w - International Finance Centre (Western End of Podium)

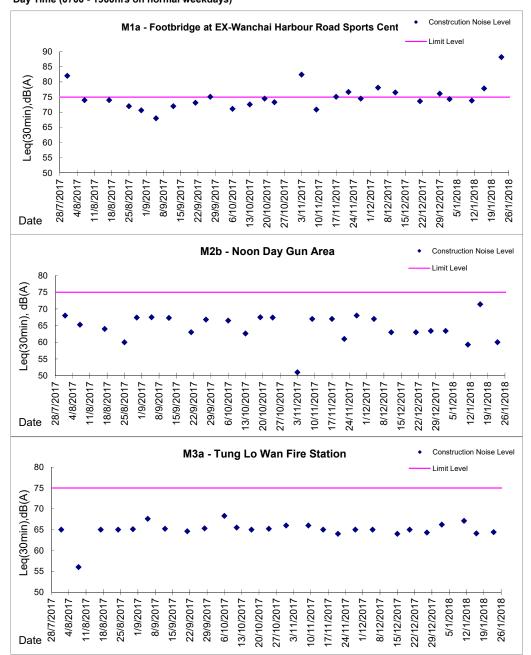
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq		
						Unit: dE	dB(A), (30-min)			
27/12/2017	14:20	Fine	66.4 68.4 63.4			69	66	75		
2/1/2018	14:50	Fine	66.5 69.3 62		62.3	69	67	75		
10/1/2018	15:25	Fine			62.4	69	65	75		
15/1/2018	13:50	Fine	66.3	68.2	62.9	69	66	75		
22/1/2018	15:20	Fine	64.1	65.7	61.7	69	64	75		

Location: M8 - City Hall

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dE	3(A), (30-min)	
27/12/2017	13:00	Fine	62.2 65.0 58.5			64	62	70
2/1/2018	13:25	Fine	63.7 65.5 61.1			64	64	70
10/1/2018	14:05	Fine	62.3	63.6	61.0	64	62	70
15/1/2018	15:30	Fine	60.5 62.5 57.1		64	61	70	
22/1/2018	13:50	Fine	59.3 61.3 56.2		64	59	70	

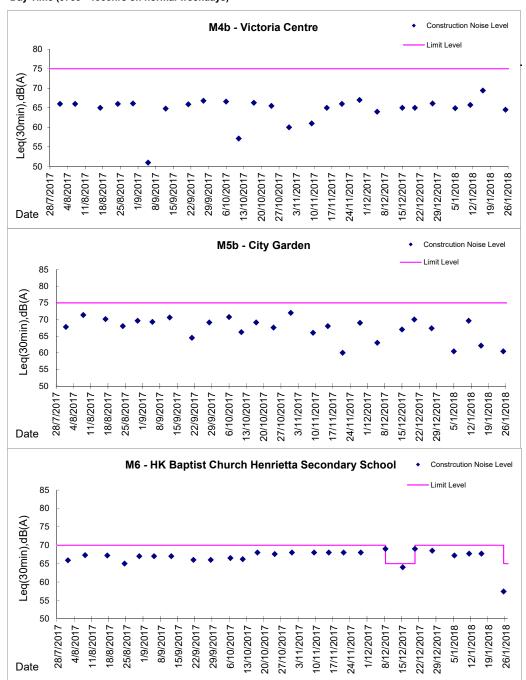


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)



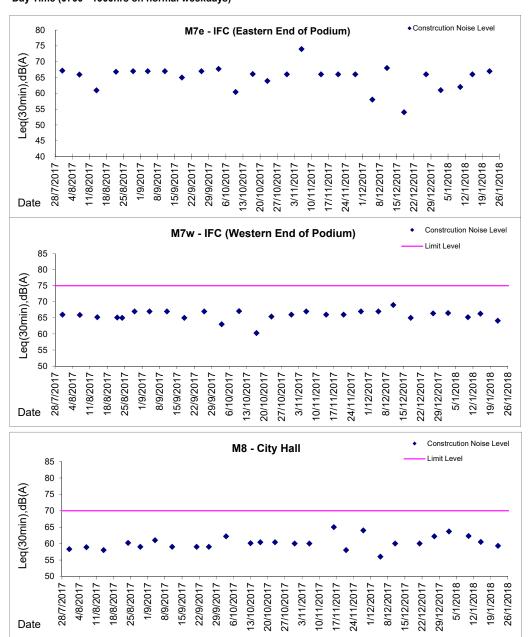


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)



<sup>\*</sup> Remark: M7e - IFC (Eastern End of Podium) is a reference monitoring station

# Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: CMA1b - Harbour Grand Hotel Boundary Wall

Report on 24-hour TSP monitoring Action Level (  $\mu$  g/m3) - 176.7 Limit Level (  $\mu$  g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	ilter Weight, g		Elapse Time, hr		Flow Rate, m³/min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Dec-17	8:00	Fine	23558	2.6245	2.7718	11066.42	11090.42	24.00	1.19	1.19	1.19	1715	85.9
3-Jan-18	8:00	Fine	23654	2.6499	2.7702	11093.42	11117.42	24.00	1.19	1.19	1.19	1713	70.2
9-Jan-18	8:00	Cloudy	23775	2.6082	2.6822	11120.42	11144.42	24.00	1.21	1.20	1.21	1737	42.6
13-Jan-18	8:00	Fine	23859	2.6451	2.7736	11147.42	11171.42	24.00	1.20	1.20	1.20	1731	74.2
19-Jan-18	8:00	Cloudy	23745	2.5992	2.6947	11174.42	11198.42	24.00	1.16	1.16	1.16	1667	57.3
25-Jan-18	8:00	Fine	23963	2.6693	2.7692	11201.47	11225.47	24.00	1.16	1.16	1.16	1671	59.8

Report on 1-hour TSP monitoring Action Level (  $\mu$  g/m3) - 320.1 Limit Level (  $\mu$  g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Dec-17	8:10	Fine	23546	2.6167	2.6331	11090.42	11091.42	1.00	1.19	1.19	1.19	71	229.5
29-Dec-17	9:55	Fine	23667	2.6626	2.6702	11091.42	11092.42	1.00	1.19	1.19	1.19	71	106.3
29-Dec-17	10:58	Fine	23675	2.6719	2.6781	11092.42	11093.42	1.00	1.19	1.19	1.19	71	86.8
4-Jan-18	8:15	Fine	23518	2.6168	2.6214	11117.42	11118.42	1.00	1.19	1.19	1.19	71	64.5
4-Jan-18	9:25	Fine	23794	2.6114	2.6172	11118.42	11119.42	1.00	1.19	1.19	1.19	71	81.3
4-Jan-18	10:35	Fine	23771	2.6121	2.6173	11119.42	11120.42	1.00	1.19	1.19	1.19	71	72.9
10-Jan-18	9:15	Cloudy	23866	2.6637	2.6676	11144.42	11145.42	1.00	1.20	1.20	1.20	72	54.0
10-Jan-18	10:50	Cloudy	23865	2.6583	2.6605	11145.42	11146.42	1.00	1.20	1.20	1.20	72	30.5
10-Jan-18	13:00	Cloudy	23841	2.6715	2.6764	11146.42	11147.42	1.00	1.20	1.20	1.20	72	67.9
15-Jan-18	8:15	Fine	23851	2.6694	2.6768	11171.42	11172.42	1.00	1.20	1.20	1.20	72	103.1
15-Jan-18	10:05	Fine	23849	2.6717	2.6809	11172.42	11173.42	1.00	1.20	1.20	1.20	72	128.1
15-Jan-18	13:00	Fine	23842	2.6463	2.6522	11173.42	11174.42	1.00	1.20	1.20	1.20	72	82.2
20-Jan-18	8:13	Cloudy	23981	2.6771	2.6828	11198.42	11199.42	1.00	1.16	1.16	1.16	69	82.1
20-Jan-18	9:15	Cloudy	23975	2.6626	2.6688	11199.42	11200.42	1.00	1.16	1.16	1.16	69	89.3
20-Jan-18	10:17	Cloudy	23961	2.6599	2.6667	11200.42	11201.42	1.00	1.16	1.16	1.16	69	97.9
26-Jan-18	8:45	Fine	24049	2.6894	2.6997	11225.47	11226.47	1.00	1.16	1.16	1.16	70	147.9
26-Jan-18	9:58	Fine	24045	2.6797	2.6882	11226.47	11227.47	1.00	1.16	1.16	1.16	70	122.1
26-Jan-18	11:00	Fine	24039	2.6799	2.6869	11227.47	11228.47	1.00	1.16	1.16	1.16	70	100.5



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring Action Level (µg/m3) - 169.5 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	ilter Weight, g		Elapse Time, hr		Flow Rate, m³/min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Dec-17	8:00	Fine	23557	2.6131	2.7735	20638.30	20662.30	24.00	1.30	1.30	1.30	1873	85.6
3-Jan-18	8:00	Fine	23625	2.6885	2.8190	20665.30	20689.30	24.00	1.18	1.18	1.18	1699	76.8
9-Jan-18	8:00	Cloudy	23774	2.6066	2.7081	20692.30	20716.30	24.00	1.32	1.32	1.32	1899	53.5
13-Jan-18	8:00	Fine	23834	2.6669	2.8481	20719.30	20743.30	24.00	1.32	1.31	1.31	1892	95.8
19-Jan-18	8:00	Cloudy	23744	2.6053	2.7105	20746.30	20770.30	24.00	1.18	1.18	1.18	1698	62.0
25-Jan-18	8:00	Fine	23964	2.6528	2.7819	20773.30	20797.30	24.00	1.18	1.18	1.18	1703	75.8

Report on 1-hour TSP monitoring Action Level (µg/m3) - 323.4 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Dec-17	8:15	Fine	23547	2.6138	2.6200	20662.30	20663.30	1.00	1.24	1.24	1.24	74	83.3
29-Dec-17	9:50	Fine	23613	2.6035	2.6101	20663.30	20664.30	1.00	1.30	1.30	1.30	78	84.6
29-Dec-17	10:53	Fine	23435	2.6285	2.6345	20664.30	20665.30	1.00	1.18	1.18	1.18	71	84.7
4-Jan-18	8:15	Fine	23511	2.6007	2.6041	20689.30	20690.30	1.00	1.30	1.30	1.30	78	43.7
4-Jan-18	9:25	Fine	23770	2.6285	2.6320	20690.30	20691.30	1.00	1.18	1.18	1.18	71	49.5
4-Jan-18	10:35	Fine	23788	2.5896	2.5925	20691.30	20692.30	1.00	1.18	1.18	1.18	71	41.0
10-Jan-18	9:10	Cloudy	23763	2.6169	2.6231	20716.30	20717.30	1.00	1.32	1.32	1.32	79	78.6
10-Jan-18	10:58	Cloudy	23514	2.6029	2.6091	20717.30	20718.30	1.00	1.32	1.32	1.32	79	78.6
10-Jan-18	13:00	Cloudy	23835	2.6757	2.6799	20718.30	20719.30	1.00	1.32	1.32	1.32	79	53.2
15-Jan-18	8:20	Fine	23850	2.6757	2.6821	20743.30	20744.30	1.00	1.31	1.31	1.31	78	81.6
15-Jan-18	10:10	Fine	23848	2.6855	2.6942	20744.30	20745.30	1.00	1.31	1.31	1.31	78	110.9
15-Jan-18	13:00	Fine	23829	2.6626	2.6718	20745.30	20746.30	1.00	1.31	1.31	1.31	78	117.3
20-Jan-18	8:15	Cloudy	23958	2.6705	2.6747	20770.30	20771.30	1.00	1.18	1.18	1.18	71	59.4
20-Jan-18	9:20	Cloudy	23976	2.6503	2.6564	20771.30	20772.30	1.00	1.18	1.18	1.18	71	86.3
20-Jan-18	10:30	Cloudy	23970	2.6607	2.6667	20772.30	20773.30	1.00	1.18	1.18	1.18	71	84.8
26-Jan-18	8:50	Fine	24021	2.6853	2.6902	20797.30	20798.30	1.00	1.18	1.18	1.18	71	69.1
26-Jan-18	9:55	Fine	24024	2.6896	2.6994	20798.30	20799.30	1.00	1.18	1.18	1.18	71	138.1
26-Jan-18	11:00	Fine	24040	2.6834	2.6905	20799.30	20800.30	1.00	1.12	1.12	1.12	67	105.5



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level (μg/m3) - 171 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weight, g		Elapse Time	Elapse Time, hr		Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Dec-17	8:00	Fine	23564	2.6196	2.7970	8132.25	8156.25	24.00	1.00	1.00	1.00	1445	122.8
3-Jan-18	8:00	Fine	23655	2.6595	2.7849	8159.26	8183.26	24.00	1.00	1.00	1.00	1442	87.0
9-Jan-18	8:00	Cloudy	23782	2.6297	2.7225	8186.26	8210.26	24.00	1.03	1.02	1.02	1475	62.9
13-Jan-18	8:00	Fine	23820	2.5982	2.7493	8213.26	8237.26	24.00	1.02	1.02	1.02	1467	103.0
19-Jan-18	8:00	Cloudy	23754	2.6139	2.7077	8240.29	8264.29	24.00	1.06	1.05	1.05	1519	61.8
25-Jan-18	8:00	Fine	23965	2.6443	2.7688	8267.31	8291.31	24.00	1.06	1.06	1.06	1524	81.7

Report on 1-hour TSP monitoring Action Level (µg/m3) - 311.3 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
29-Dec-17	8:02	Fine	23548	2.6097	2.6155	8156.25	8157.25	1.00	1.00	1.00	1.00	60	96.3
29-Dec-17	9:40	Fine	23668	2.6647	2.6709	8157.25	8158.25	1.00	1.00	1.00	1.00	60	103.0
29-Dec-17	13:00	Fine	23665	2.6803	2.6874	8158.25	8159.25	1.00	1.00	1.00	1.00	60	117.9
4-Jan-18	8:02	Fine	23519	2.6215	2.6270	8183.26	8184.26	1.00	1.00	1.00	1.00	60	91.6
4-Jan-18	9:15	Fine	23795	2.5941	2.5989	8184.26	8185.26	1.00	1.00	1.00	1.00	60	80.0
4-Jan-18	10:25	Fine	23789	2.5878	2.5931	8185.26	8186.26	1.00	1.00	1.00	1.00	60	88.3
10-Jan-18	9:00	Cloudy	23764	2.6112	2.6149	8210.26	8211.26	1.00	1.02	1.02	1.02	61	60.4
10-Jan-18	10:25	Cloudy	23863	2.6419	2.6457	8211.26	8212.26	1.00	1.02	1.02	1.02	61	62.1
10-Jan-18	13:00	Cloudy	23838	2.6652	2.6696	8212.26	8213.26	1.00	1.02	1.02	1.02	61	71.9
15-Jan-18	8:05	Fine	23852	2.6661	2.6721	8237.26	8238.26	1.00	1.01	1.01	1.01	61	98.9
15-Jan-18	9:50	Fine	23828	2.6663	2.6732	8238.26	8239.26	1.00	1.01	1.01	1.01	61	113.7
15-Jan-18	13:00	Fine	23843	2.6583	2.6662	8239.26	8240.26	1.00	1.01	1.01	1.01	61	130.2
20-Jan-18	8:02	Cloudy	23982	2.6523	2.6586	8264.31	8265.31	1.00	1.05	1.05	1.05	63	99.6
20-Jan-18	9:05	Cloudy	23959	2.6546	2.6603	8265.31	8266.31	1.00	1.05	1.05	1.05	63	90.1
20-Jan-18	10:07	Cloudy	23971	2.6579	2.6660	8266.31	8267.31	1.00	1.05	1.05	1.05	63	128.0
26-Jan-18	8:30	Fine	24052	2.6731	2.6784	8291.31	8292.31	1.00	1.06	1.06	1.06	64	83.4
26-Jan-18	9:45	Fine	24046	2.6622	2.6677	8292.31	8293.31	1.00	1.06	1.06	1.06	64	86.6
26-Jan-18	10:55	Fine	24025	2.6891	2.6973	8293.31	8294.31	1.00	1.06	1.06	1.06	64	129.1



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171.2 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	ilter Weight, g		Elapse Time, hr		Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Dec-17	8:00	Fine	23565	2.6146	2.7834	24947.19	24971.19	24.00	1.26	1.26	1.26	1811	93.2
3-Jan-18	8:00	Fine	23656	2.6469	2.7612	24974.19	24998.19	24.00	1.26	1.26	1.26	1809	63.2
9-Jan-18	8:00	Cloudy	23783	2.6143	2.7133	25001.19	25025.19	24.00	1.33	1.33	1.33	1915	51.7
13-Jan-18	8:00	Fine	23836	2.6692	2.7821	25028.19	25052.19	24.00	1.27	1.27	1.27	1827	61.8
19-Jan-18	8:00	Cloudy	23753	2.6267	2.7141	25055.19	25079.19	24.00	1.21	1.21	1.21	1748	50.0
25-Jan-18	8:00	Fine	23968	2.6543	2.7471	25082.23	25106.23	24.00	1.22	1.22	1.22	1752	53.0

 $\begin{array}{ccc} \text{Report on 1-hour TSP monitoring} \\ \text{Action Level } (\mu\text{g/m3}) - & 312.5 \\ \text{Limit Level } (\mu\text{g/m3}) - & 500 \end{array}$ 

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Dec-17	8:05	Fine	23611	2.6214	2.6251	24971.19	24972.19	1.00	1.37	1.37	1.37	82	45.0
29-Dec-17	9:40	Fine	23612	2.6123	2.6183	24972.19	24973.19	1.00	1.37	1.37	1.37	82	73.0
29-Dec-17	13:00	Fine	23666	2.6703	2.6749	24973.19	24974.19	1.00	1.26	1.26	1.26	75	61.0
4-Jan-18	8:05	Fine	23630	2.6797	2.6837	24998.19	24999.19	1.00	1.26	1.26	1.26	75	53.1
4-Jan-18	9:10	Fine	23796	2.5968	2.5986	24999.19	25000.19	1.00	1.26	1.26	1.26	75	23.9
4-Jan-18	10:20	Fine	23790	2.6060	2.6100	25000.19	25001.19	1.00	1.26	1.26	1.26	75	53.1
10-Jan-18	8:45	Cloudy	23760	2.6291	2.6316	25025.19	25026.19	1.00	1.27	1.27	1.27	76	32.8
10-Jan-18	10:30	Cloudy	23867	2.6357	2.6377	25026.19	25027.19	1.00	1.27	1.27	1.27	76	26.2
10-Jan-18	13:00	Cloudy	23839	2.6601	2.6624	25027.19	25028.19	1.00	1.27	1.27	1.27	76	30.2
15-Jan-18	8:02	Fine	23853	2.6554	2.6613	25052.19	25053.19	1.00	1.26	1.26	1.26	76	77.8
15-Jan-18	9:35	Fine	23827	2.6538	2.6607	25053.19	25054.19	1.00	1.26	1.26	1.26	76	91.0
15-Jan-18	13:00	Fine	23844	2.6639	2.6700	25054.19	25055.19	1.00	1.26	1.26	1.26	76	80.5
20-Jan-18	8:05	Cloudy	23957	2.6693	2.6729	25079.19	25080.19	1.00	1.21	1.21	1.21	73	49.4
20-Jan-18	9:10	Cloudy	23977	2.6658	2.6696	25080.19	25081.19	1.00	1.21	1.21	1.21	73	52.2
20-Jan-18	10:15	Cloudy	23972	2.6501	2.6550	25081.19	25082.19	1.00	1.21	1.21	1.21	73	67.3
26-Jan-18	8:30	Fine	24020	2.6504	2.6556	25106.23	25107.23	1.00	1.22	1.22	1.22	73	71.2
26-Jan-18	9:45	Fine	24023	2.7013	2.7066	25107.23	25108.23	1.00	1.22	1.22	1.22	73	72.6
26-Jan-18	10:56	Fine	24041	2.6643	2.6701	25108.23	25109.23	1.00	1.22	1.22	1.22	73	79.4



Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 181 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{\text{sf}}$	Average	Volume, m <sup>3</sup>	μg/m³
28-Dec-17	8:00	Fine	23384	2.6723	2.7978	9551.31	9575.31	24.00	0.70	0.70	0.70	1009	124.4
3-Jan-18	8:00	Fine	23382	2.6700	2.8342	9578.31	9602.31	24.00	0.84	0.84	0.84	1213	135.3
9-Jan-18	8:00	Cloudy	23785	2.6029	2.7596	9605.31	9629.31	24.00	0.87	0.86	0.87	1248	125.6
13-Jan-18	8:00	Fine	23840	2.6625	2.9536	9632.31	9656.31	24.00	1.14	1.11	1.12	1620	179.7
19-Jan-18	8:00	Cloudy	23742	2.5905	2.7232	9659.31	9683.31	24.00	0.81	0.81	0.81	1166	113.8
25-Jan-18	8:00	Fine	23962	2.6524	2.8314	9686.36	9710.36	24.00	0.87	0.87	0.87	1255	142.7

Report on 1-hour TSP monitoring Action Level ( $\mu$ g/m3) - 332 Limit Level ( $\mu$ g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{\text{sf}}$	Average	Volume, m <sup>3</sup>	μg/m³
29-Dec-17	8:40	Fine	23674	2.6932	2.7068	9575.31	9576.31	1.00	0.84	0.84	0.84	51	268.3
29-Dec-17	10:15	Fine	23614	2.6026	2.6244	9576.31	9577.31	1.00	0.84	0.84	0.84	51	430.0
29-Dec-17	13:00	Fine	23664	2.6545	2.6722	9577.31	9578.31	1.00	0.99	0.99	0.99	59	298.3
4-Jan-18	8:35	Fine	23512	2.5953	2.6010	9602.31	9603.31	1.00	0.84	0.84	0.84	51	112.8
4-Jan-18	9:45	Fine	23792	2.5976	2.6039	9603.31	9604.31	1.00	0.84	0.84	0.84	51	124.7
4-Jan-18	10:55	Fine	23787	2.5961	2.6020	9604.31	9605.31	1.00	0.84	0.84	0.84	51	116.8
10-Jan-18	8:15	Cloudy	23759	2.6093	2.6129	9629.31	9630.31	1.00	0.72	0.72	0.72	43	83.7
10-Jan-18	9:45	Cloudy	23886	2.6716	2.6793	9630.31	9631.31	1.00	0.86	0.86	0.86	52	148.8
10-Jan-18	13:00	Cloudy	23860	2.6472	2.6519	9631.31	9632.31	1.00	0.86	0.86	0.86	52	90.8
15-Jan-18	9:00	Fine	23832	2.6698	2.6845	9656.31	9657.31	1.00	0.85	0.85	0.85	51	287.2
15-Jan-18	10:45	Fine	23845	2.6754	2.6900	9657.31	9658.31	1.00	0.85	0.85	0.85	51	285.3
15-Jan-18	13:00	Fine	23755	2.6064	2.6216	9658.31	9659.31	1.00	0.85	0.85	0.85	51	297.0
20-Jan-18	8:30	Cloudy	23980	2.6542	2.6650	9683.36	9684.36	1.00	0.87	0.87	0.87	52	207.4
20-Jan-18	9:35	Cloudy	23960	2.6642	2.6701	9684.36	9685.36	1.00	0.75	0.75	0.75	45	131.0
20-Jan-18	10:40	Cloudy	23969	2.6765	2.6850	9685.36	9686.36	1.00	0.87	0.87	0.87	52	163.3
26-Jan-18	8:05	Fine	24019	2.6712	2.6809	9710.36	9711.36	1.00	0.87	0.87	0.87	52	185.5
26-Jan-18	9:20	Fine	24022	2.6763	2.6848	9711.36	9712.36	1.00	0.87	0.87	0.87	52	162.5
26-Jan-18	10:25	Fine	24044	2.6763	2.6903	9712.36	9713.36	1.00	0.87	0.87	0.87	52	267.7



Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 173.4 Limit Level (μg/m3) - 260

Da	te	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
		Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
2	28-Dec-17	8:00	Fine	23425	2.6215	2.7730	21835.99	21859.99	24.00	1.22	1.22	1.22	1759	86.1
	3-Jan-18	8:00	Fine	23659	2.6556	2.7411	21862.99	21886.99	24.00	1.10	1.10	1.10	1580	54.1
	9-Jan-18	8:00	Cloudy	23637	2.6667	2.7302	21889.99	21913.99	24.00	1.12	1.11	1.12	1607	39.5
	13-Jan-18	8:00	Fine	23877	2.6813	2.7735	21916.99	21940.99	24.00	1.11	1.11	1.11	1600	57.6
	19-Jan-18	8:00	Cloudy	23749	2.5928	2.6478	21943.99	21967.99	24.00	1.11	1.11	1.11	1599	34.4
	25-Jan-18	8:00	Fine	23994	2.6761	2.7511	21970.99	21994.99	24.00	1.11	1.11	1.11	1603	46.8

 $\begin{array}{ccc} \text{Report on 1-hour TSP monitoring} \\ \text{Action Level } (\mu g/m3) - & 325.1 \\ \text{Limit Level } (\mu g/m3) - & 500 \end{array}$ 

			Filter										
Date	Sampling	Weather	paper no.	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition		Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Dec-17	9:05	Fine	23671	2.6516	2.6571	21859.99	21860.99	1.00	1.22	1.22	1.22	73	75.0
29-Dec-17	10:40	Fine	23617	2.6116	2.6173	21860.99	21861.99	1.00	1.22	1.22	1.22	73	77.8
29-Dec-17	13:00	Fine	23623	2.6827	2.6874	21861.99	21862.99	1.00	1.22	1.22	1.22	73	64.1
4-Jan-18	8:50	Fine	23647	2.6758	2.6784	21886.99	21887.99	1.00	1.10	1.10	1.10	66	39.5
4-Jan-18	10:00	Fine	23643	2.6593	2.6627	21887.99	21888.99	1.00	1.10	1.10	1.10	66	51.7
4-Jan-18	13:00	Fine	23640	2.6681	2.6703	21888.99	21889.99	1.00	1.10	1.10	1.10	66	33.4
10-Jan-18	8:50	Cloudy	23885	2.6597	2.6627	21913.99	21914.99	1.00	1.11	1.11	1.11	67	44.9
10-Jan-18	9:54	Cloudy	23882	2.6554	2.6572	21914.99	21915.99	1.00	1.11	1.11	1.11	67	27.0
10-Jan-18	10:59	Cloudy	23879	2.6549	2.6571	21915.99	21916.99	1.00	1.11	1.11	1.11	67	33.0
15-Jan-18	10:50	Fine	23388	2.6820	2.6866	21940.99	21941.99	1.00	1.11	1.11	1.11	66	69.4
15-Jan-18	13:00	Fine	23386	2.6764	2.6811	21941.99	21942.99	1.00	1.11	1.11	1.11	66	70.9
15-Jan-18	14:10	Fine	23747	2.6148	2.6175	21942.99	21943.99	1.00	1.11	1.11	1.11	66	40.7
20-Jan-18	8:45	Cloudy	23874	2.6656	2.6671	21967.99	21968.99	1.00	1.11	1.11	1.11	67	22.5
20-Jan-18	9:50	Cloudy	23985	2.6585	2.6616	21968.99	21969.99	1.00	1.11	1.11	1.11	67	46.5
20-Jan-18	10:52	Cloudy	23998	2.6563	2.6591	21969.99	21970.99	1.00	1.11	1.11	1.11	67	42.0
26-Jan-18	8:36	Fine	23992	2.6545	2.6577	21994.99	21995.99	1.00	1.11	1.11	1.11	67	47.9
26-Jan-18	10:22	Fine	23988	2.6719	2.6776	21995.99	21996.99	1.00	1.11	1.11	1.11	67	85.3
26-Jan-18	13:00	Fine	24078	2.6832	2.6879	21996.99	21997.99	1.00	1.11	1.11	1.11	67	70.3



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring

Action Level (µg/m3) - 173.4 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	Elapse Time, hr		Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m	μg/m³
28-Dec-17	8:00	Fine	23423	2.6245	2.8197	21624.83	21648.83	24.00	1.40	1.40	1.40	2017	96.8
3-Jan-18	8:00	Fine	23660	2.6677	2.8072	21651.83	21675.83	24.00	1.40	1.40	1.40	2015	69.2
9-Jan-18	8:00	Cloudy	23638	2.6704	2.7855	21678.83	21702.83	24.00	1.39	1.39	1.39	2001	57.5
13-Jan-18	8:00	Fine	23878	2.6612	2.8079	21705.83	21729.83	24.00	1.36	1.36	1.36	1956	75.0
19-Jan-18	8:00	Cloudy	23748	2.6084	2.7053	21732.86	21756.86	24.00	1.40	1.40	1.40	2019	48.0
25-Jan-18	8:00	Fine	23995	2.6572	2.7842	21759.86	21783.86	24.00	1.46	1.46	1.46	2104	60.4

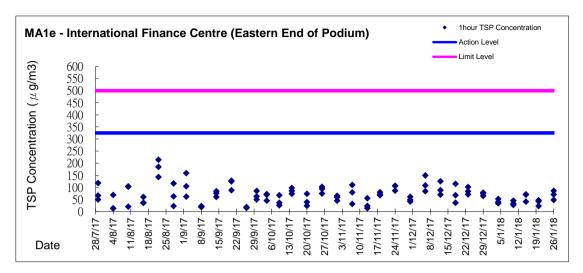
Report on 1-hour TSP monitoring

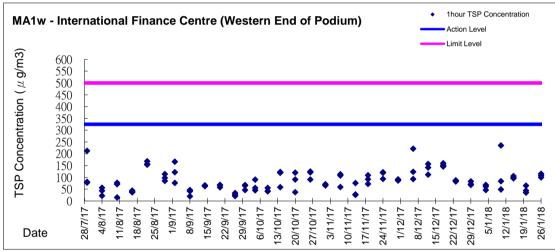
Action Level ( $\mu$ g/m3) - 325.1 Limit Level ( $\mu$ g/m3) - 500

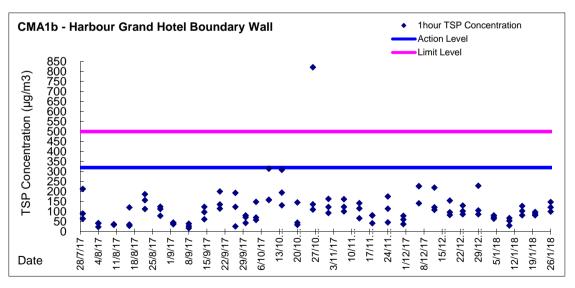
Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Dec-17	9:25	Fine	23670	2.6594	2.6664	21648.83	21649.83	1.00	1.40	1.40	1.40	84	83.3
29-Dec-17	10:50	Fine	23618	2.6178	2.6231	21649.83	21650.83	1.00	1.29	1.29	1.29	78	68.3
29-Dec-17	13:00	Fine	23622	2.6667	2.6727	21650.83	21651.83	1.00	1.40	1.40	1.40	84	71.4
4-Jan-18	8:45	Fine	23648	2.6784	2.6836	21675.83	21676.83	1.00	1.40	1.40	1.40	84	62.0
4-Jan-18	9:50	Fine	23644	2.6488	2.6543	21676.83	21677.83	1.00	1.35	1.35	1.35	81	68.1
4-Jan-18	10:58	Fine	23641	2.6668	2.6707	21677.83	21678.83	1.00	1.40	1.40	1.40	84	46.5
10-Jan-18	8:47	Cloudy	23869	2.6514	2.6555	21702.83	21703.83	1.00	1.39	1.39	1.39	83	49.3
10-Jan-18	9:50	Cloudy	23883	2.6699	2.6769	21703.83	21704.83	1.00	1.39	1.39	1.39	83	84.1
10-Jan-18	10:55	Cloudy	23380	2.6549	2.6745	21704.83	21705.83	1.00	1.39	1.39	1.39	83	235.5
15-Jan-18	10:55	Fine	23389	2.6799	2.6883	21729.83	21730.83	1.00	1.33	1.33	1.33	80	105.6
15-Jan-18	13:00	Fine	23227	2.6842	2.6925	21730.83	21731.83	1.00	1.41	1.41	1.41	84	98.3
15-Jan-18	14:15	Fine	23746	2.5967	2.6048	21731.83	21732.83	1.00	1.41	1.41	1.41	84	95.9
20-Jan-18	8:40	Cloudy	23875	2.6907	2.6936	21756.86	21757.86	1.00	1.35	1.35	1.35	81	35.9
20-Jan-18	9:45	Cloudy	23872	2.6767	2.6804	21757.86	21758.86	1.00	1.40	1.40	1.40	84	44.0
20-Jan-18	10:50	Cloudy	23983	2.6577	2.6630	21758.86	21759.86	1.00	1.35	1.35	1.35	81	65.6
26-Jan-18	8:30	Fine	23993	2.6486	2.6574	21783.86	21784.86	1.00	1.46	1.46	1.46	88	100.3
26-Jan-18	9:35	Fine	23990	2.6708	2.6803	21784.86	21785.86	1.00	1.46	1.46	1.46	88	108.3
26-Jan-18	10:38	Fine	23987	2.6747	2.6848	21785.86	21786.86	1.00	1.46	1.46	1.46	88	115.2



**Graphic Presentation of 1 hour TSP Result** 

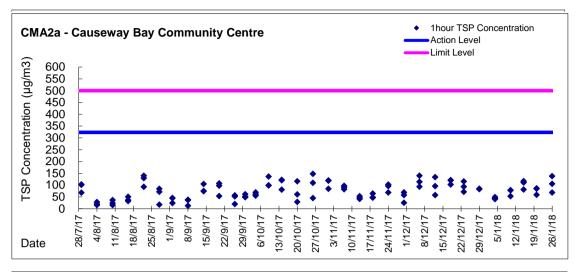


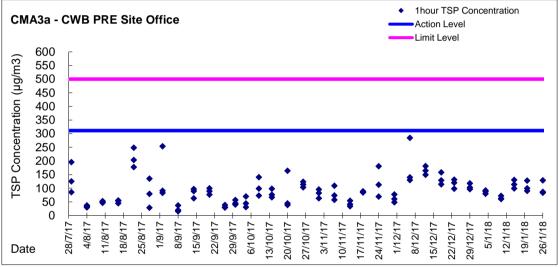


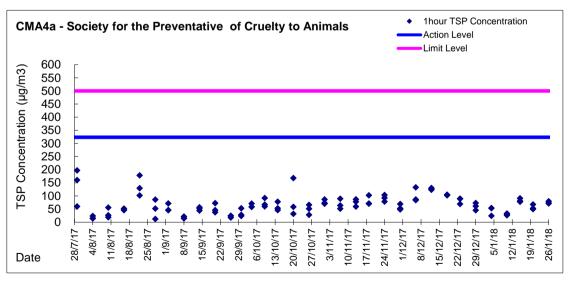




**Graphic Presentation of 1 hour TSP Result** 

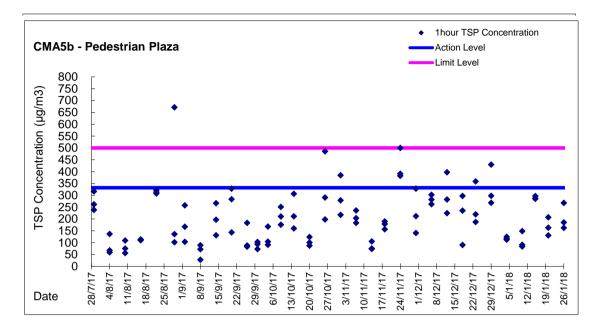




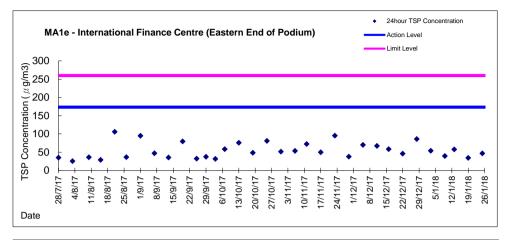


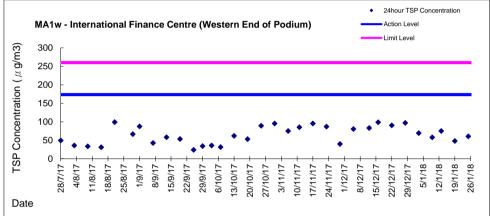


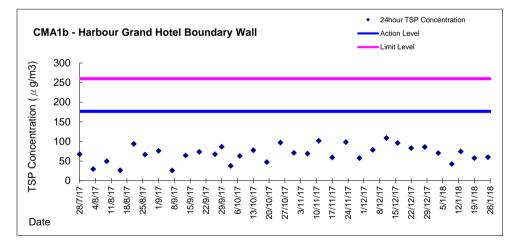
**Graphic Presentation of 1 hour TSP Result** 



**Graphic Presentation of 24 hour TSP Result** 

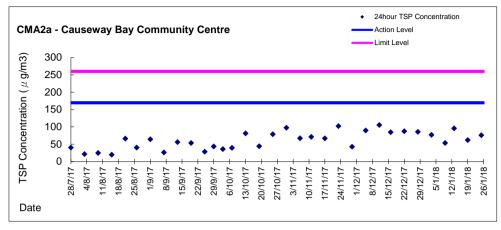


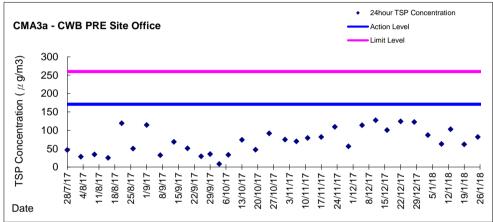


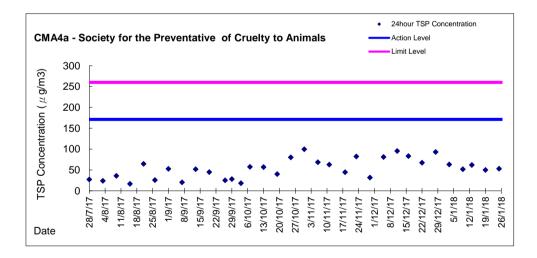




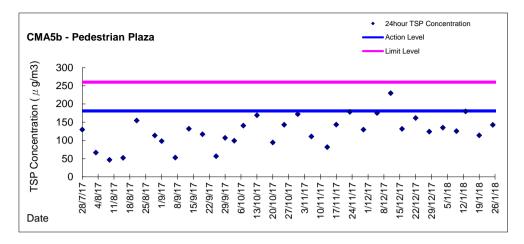
**Graphic Presentation of 24 hour TSP Result** 







**Graphic Presentation of 24 hour TSP Result** 



## Appendix 5.4

Real Time Noise Monitoring Results and Graphical Presentations

Deal time Naine Date	DTM (Food and Foodman and III	luniana Danadarant Danat)			
Real-time Noise Data Normal Day 07:00-19:00	RTN1 (Food and Environmental F 31/12/2017 12:31 67	6/1/2018 7:01 68	11/1/2018 13:31 70	17/1/2018 8:01 72	22/1/2018 14:31 70
27/12/2017 7:01 67	31/12/2017 13:01 67 31/12/2017 13:31 67	6/1/2018 7:31 69 6/1/2018 8:01 70	11/1/2018 14:01 70 11/1/2018 14:31 71	17/1/2018 8:31 62 17/1/2018 9:01 64	22/1/2018 15:01 71 22/1/2018 15:31 71
27/12/2017 7:31 69	31/12/2017 13:31 67	6/1/2018 8:31 71	11/1/2018 14:31 71	17/1/2018 9:01 04	22/1/2018 16:01 70
27/12/2017 8:01 70	31/12/2017 14:31 67	6/1/2018 9:01 71	11/1/2018 15:31 69	17/1/2018 10:01 70	22/1/2018 16:31 70
27/12/2017 8:31 70 27/12/2017 9:01 70	31/12/2017 15:01 67 31/12/2017 15:31 68	6/1/2018 9:31 70 6/1/2018 10:01 70	11/1/2018 16:01 71 11/1/2018 16:31 72	17/1/2018 10:31 70 17/1/2018 11:01 72	22/1/2018 17:01 69 22/1/2018 17:31 69
27/12/2017 9:31 69	31/12/2017 16:01 68	6/1/2018 10:31 70	11/1/2018 17:01 71	17/1/2018 11:31 70	22/1/2018 18:01 69
27/12/2017 10:01 70 27/12/2017 10:31 70	31/12/2017 16:31 69 31/12/2017 17:01 68	6/1/2018 11:01 70 6/1/2018 11:31 70	11/1/2018 17:31 69 11/1/2018 18:01 69	17/1/2018 12:01 69 17/1/2018 12:31 68	22/1/2018 18:31 69 23/1/2018 7:01 67
27/12/2017 11:01 71	31/12/2017 17:31 68	6/1/2018 12:01 70	11/1/2018 18:31 67	17/1/2018 13:01 71	23/1/2018 7:31 70
27/12/2017 11:31 70 27/12/2017 12:01 69	31/12/2017 18:01 68 31/12/2017 18:31 68	6/1/2018 12:31 70 6/1/2018 13:01 71	12/1/2018 7:01 68 12/1/2018 7:31 69	17/1/2018 13:31 70 17/1/2018 14:01 70	23/1/2018 8:01 69 23/1/2018 8:31 69
27/12/2017 12:31 69	2/1/2018 7:01 68	6/1/2018 13:31 70	12/1/2018 7:31 69	17/1/2018 14:01 70	23/1/2018 9:01 70
27/12/2017 13:01 70	2/1/2018 7:31 70	6/1/2018 14:01 70	12/1/2018 8:31 69	17/1/2018 15:01 58 17/1/2018 15:31 70	23/1/2018 9:31 70
27/12/2017 13:31 70 27/12/2017 14:01 69	2/1/2018 8:01 70 2/1/2018 8:31 69	6/1/2018 14:31 70 6/1/2018 15:01 69	12/1/2018 9:01 69 12/1/2018 9:31 71	17/1/2018 15:31 70 17/1/2018 16:01 70	23/1/2018 10:01 69 23/1/2018 10:31 70
27/12/2017 14:31 69	2/1/2018 9:01 70	6/1/2018 15:31 70	12/1/2018 10:01 71	17/1/2018 16:31 71	23/1/2018 11:01 70
27/12/2017 15:01 70 27/12/2017 15:31 70	2/1/2018 9:31 71 2/1/2018 10:01 70	6/1/2018 16:01 70 6/1/2018 16:31 72	12/1/2018 10:31 70 12/1/2018 11:01 71	17/1/2018 17:01 71 17/1/2018 17:31 70	23/1/2018 11:31 70 23/1/2018 12:01 69
27/12/2017 16:01 70	2/1/2018 10:31 70	6/1/2018 17:01 69	12/1/2018 11:31 69	17/1/2018 18:01 70	23/1/2018 12:31 69
27/12/2017 16:31 71 27/12/2017 17:01 70	2/1/2018 11:01 72 2/1/2018 11:31 70	6/1/2018 17:31 68 6/1/2018 18:01 68	12/1/2018 12:01 68 12/1/2018 12:31 68	17/1/2018 18:31 69 18/1/2018 7:01 68	23/1/2018 13:01 70 23/1/2018 13:31 70
27/12/2017 17:31 69	2/1/2018 12:01 70	6/1/2018 18:31 69	12/1/2018 13:01 70	18/1/2018 7:31 70	23/1/2018 14:01 69
27/12/2017 18:01 69 27/12/2017 18:31 69	2/1/2018 12:31 69 2/1/2018 13:01 71	8/1/2018 7:01 68 8/1/2018 7:31 69	12/1/2018 13:31 70 12/1/2018 14:01 69	18/1/2018 8:01 70 18/1/2018 8:31 70	23/1/2018 14:31 70 23/1/2018 15:01 70
28/12/2017 7:01 67	2/1/2018 13:31 71	8/1/2018 8:01 69	12/1/2018 14:31 70	18/1/2018 9:01 71	23/1/2018 15:31 70
28/12/2017 7:31 69 28/12/2017 8:01 70	2/1/2018 14:01 71 2/1/2018 14:31 71	8/1/2018 8:31 69 8/1/2018 9:01 69	12/1/2018 15:01 68 12/1/2018 15:31 70	18/1/2018 9:31 71 18/1/2018 10:01 69	23/1/2018 16:01 70 23/1/2018 16:31 69
28/12/2017 8:31 70	2/1/2018 15:01 70	8/1/2018 9:31 69	12/1/2018 16:01 70	18/1/2018 10:31 70	23/1/2018 17:01 70
28/12/2017 9:01 70 28/12/2017 9:31 69	2/1/2018 15:31 71 2/1/2018 16:01 71	8/1/2018 10:01 69 8/1/2018 10:31 66	12/1/2018 16:31 70 12/1/2018 17:01 71	18/1/2018 11:01 73 18/1/2018 11:31 70	23/1/2018 17:31 69 23/1/2018 18:01 69
28/12/2017 10:01 69	2/1/2018 16:31 71	8/1/2018 11:01 71	12/1/2018 17:01 71	18/1/2018 12:01 69	23/1/2018 18:31 69
28/12/2017 10:31 70 28/12/2017 11:01 71	2/1/2018 17:01 70 2/1/2018 17:31 70	8/1/2018 11:31 70 8/1/2018 12:01 70	12/1/2018 18:01 68 12/1/2018 18:31 68	18/1/2018 12:31 69 18/1/2018 13:01 70	24/1/2018 7:01 68 24/1/2018 7:31 70
28/12/2017 11:31 70	2/1/2018 17:31 70	8/1/2018 12:31 70	13/1/2018 7:01 67	18/1/2018 13:31 72	24/1/2018 8:01 69
28/12/2017 12:01 68	2/1/2018 18:31 70	8/1/2018 13:01 72	13/1/2018 7:31 69	18/1/2018 14:01 68	24/1/2018 8:31 69
28/12/2017 12:31 70 28/12/2017 13:01 70	3/1/2018 7:01 68 3/1/2018 7:31 70	8/1/2018 13:31 71 8/1/2018 14:01 71	13/1/2018 8:01 71 13/1/2018 8:31 64	18/1/2018 14:31 72 18/1/2018 15:01 66	24/1/2018 9:01 69 24/1/2018 9:31 70
28/12/2017 13:31 70	3/1/2018 8:01 70	8/1/2018 14:31 70	13/1/2018 9:01 70	18/1/2018 15:31 72	24/1/2018 10:01 70
28/12/2017 14:01 70 28/12/2017 14:31 70	3/1/2018 8:31 69 3/1/2018 9:01 70	8/1/2018 15:01 71 8/1/2018 15:31 71	13/1/2018 9:31 72 13/1/2018 10:01 71	18/1/2018 16:01 60 18/1/2018 16:31 71	24/1/2018 10:31 70 24/1/2018 11:01 72
28/12/2017 15:01 69	3/1/2018 9:31 70	8/1/2018 16:01 70	13/1/2018 10:31 72	18/1/2018 17:01 71	24/1/2018 11:31 70
28/12/2017 15:31 70 28/12/2017 16:01 71	3/1/2018 10:01 69 3/1/2018 10:31 70	8/1/2018 16:31 71 8/1/2018 17:01 70	13/1/2018 11:01 68 13/1/2018 11:31 69	18/1/2018 17:31 70 18/1/2018 18:01 69	24/1/2018 12:01 69 24/1/2018 12:31 69
28/12/2017 16:31 70	3/1/2018 11:01 71	8/1/2018 17:31 69	13/1/2018 12:01 69	18/1/2018 18:31 70	24/1/2018 13:01 69
28/12/2017 17:01 70 28/12/2017 17:31 71	3/1/2018 11:31 70 3/1/2018 12:01 69	8/1/2018 18:01 69 8/1/2018 18:31 69	13/1/2018 12:31 68 13/1/2018 13:01 70	19/1/2018 7:01 68 19/1/2018 7:31 69	24/1/2018 13:31 71 24/1/2018 14:01 71
28/12/2017 18:01 70	3/1/2018 12:31 69	9/1/2018 7:01 70	13/1/2018 13:31 70	19/1/2018 8:01 71	24/1/2018 14:31 70
28/12/2017 18:31 70 29/12/2017 7:01 67	3/1/2018 13:01 70 3/1/2018 13:31 70	9/1/2018 7:31 71 9/1/2018 8:01 71	13/1/2018 14:01 62 13/1/2018 14:31 72	19/1/2018 8:31 71 19/1/2018 9:01 70	24/1/2018 15:01 70 24/1/2018 15:31 70
29/12/2017 7:31 69	3/1/2018 14:01 69	9/1/2018 8:31 69	13/1/2018 15:01 70	19/1/2018 9:31 72	24/1/2018 16:01 71
29/12/2017 8:01 70 29/12/2017 8:31 70	3/1/2018 14:31 71 3/1/2018 15:01 71	9/1/2018 9:01 69 9/1/2018 9:31 70	13/1/2018 15:31 70 13/1/2018 16:01 70	19/1/2018 10:01 70 19/1/2018 10:31 72	24/1/2018 16:31 70 24/1/2018 17:01 70
29/12/2017 9:01 70	3/1/2018 15:31 70	9/1/2018 10:01 71	13/1/2018 16:31 72	19/1/2018 10:31 72	24/1/2018 17:31 70
29/12/2017 9:31 68 29/12/2017 10:01 68	3/1/2018 16:01 70 3/1/2018 16:31 71	9/1/2018 10:31 72 9/1/2018 11:01 72	13/1/2018 17:01 71 13/1/2018 17:31 69	19/1/2018 11:31 70 19/1/2018 12:01 70	24/1/2018 18:01 70 24/1/2018 18:31 70
29/12/2017 10:31 70	3/1/2018 17:01 71	9/1/2018 11:31 71	13/1/2018 17:31 69	19/1/2018 12:31 70	25/1/2018 7:01 67
29/12/2017 11:01 71	3/1/2018 17:31 70	9/1/2018 12:01 70	13/1/2018 18:31 68	19/1/2018 13:01 71	25/1/2018 7:31 70
29/12/2017 11:31 71 29/12/2017 12:01 68	3/1/2018 18:01 70 3/1/2018 18:31 69	9/1/2018 12:31 71 9/1/2018 13:01 71	15/1/2018 7:01 69 15/1/2018 7:31 70	19/1/2018 13:31 72 19/1/2018 14:01 73	25/1/2018 8:01 69 25/1/2018 8:31 69
29/12/2017 12:31 68	4/1/2018 7:01 67	9/1/2018 13:31 71	15/1/2018 8:01 71	19/1/2018 14:31 72	25/1/2018 9:01 70
29/12/2017 13:01 70 29/12/2017 13:31 70	4/1/2018 7:31 70 4/1/2018 8:01 70	9/1/2018 14:01 72 9/1/2018 14:31 71	15/1/2018 8:31 71 15/1/2018 9:01 72	19/1/2018 15:01 70 19/1/2018 15:31 71	25/1/2018 9:31 71 25/1/2018 10:01 71
29/12/2017 14:01 70	4/1/2018 8:31 70	9/1/2018 15:01 71	15/1/2018 9:31 72	19/1/2018 16:01 72	25/1/2018 10:31 71
29/12/2017 14:31 70 29/12/2017 15:01 70	4/1/2018 9:01 69 4/1/2018 9:31 70	9/1/2018 15:31 72 9/1/2018 16:01 70	15/1/2018 10:01 71 15/1/2018 10:31 71	19/1/2018 16:31 72 19/1/2018 17:01 71	25/1/2018 11:01 71 25/1/2018 11:31 70
29/12/2017 15:31 70	4/1/2018 10:01 72	9/1/2018 16:31 71	15/1/2018 11:01 68	19/1/2018 17:31 69	25/1/2018 12:01 69
29/12/2017 16:01 72 29/12/2017 16:31 71	4/1/2018 10:31 58 4/1/2018 11:01 32	9/1/2018 17:01 70 9/1/2018 17:31 69	15/1/2018 11:31 70 15/1/2018 12:01 69	19/1/2018 18:01 69 19/1/2018 18:31 69	25/1/2018 12:31 69 25/1/2018 13:01 71
29/12/2017 17:01 70	4/1/2018 11:31 67	9/1/2018 18:01 69	15/1/2018 12:31 70	20/1/2018 7:01 66	25/1/2018 13:31 70
29/12/2017 17:31 70 29/12/2017 18:01 70	4/1/2018 12:01 69 4/1/2018 12:31 70	9/1/2018 18:31 68 10/1/2018 7:01 68	15/1/2018 13:01 72 15/1/2018 13:31 72	20/1/2018 7:31 69 20/1/2018 8:01 63	25/1/2018 14:01 70 25/1/2018 14:31 70
29/12/2017 18:31 69	4/1/2018 13:01 70	10/1/2018 7:31 70	15/1/2018 14:01 72	20/1/2018 8:31 72	25/1/2018 15:01 70
30/12/2017 7:01 67 30/12/2017 7:31 69	4/1/2018 13:31 71 4/1/2018 14:01 71	10/1/2018 8:01 70 10/1/2018 8:31 69	15/1/2018 14:31 69 15/1/2018 15:01 73	20/1/2018 9:01 68 20/1/2018 9:31 59	25/1/2018 15:31 70 25/1/2018 16:01 70
30/12/2017 8:01 70	4/1/2018 14:31 70	10/1/2018 9:01 69	15/1/2018 15:31 72	20/1/2018 10:01 70	25/1/2018 16:31 70
30/12/2017 8:31 71 30/12/2017 9:01 71	4/1/2018 15:01 70 4/1/2018 15:31 71	10/1/2018 9:31 70 10/1/2018 10:01 72	15/1/2018 16:01 72 15/1/2018 16:31 61	20/1/2018 10:31 68 20/1/2018 11:01 70	25/1/2018 17:01 71 25/1/2018 17:31 70
30/12/2017 9:31 69	4/1/2018 16:01 70	10/1/2018 10:31 72	15/1/2018 17:01 72	20/1/2018 11:31 70	25/1/2018 18:01 70
30/12/2017 10:01 69	4/1/2018 16:31 70 4/1/2018 17:01 70	10/1/2018 11:01 72 10/1/2018 11:31 70	15/1/2018 17:31 70 15/1/2018 18:01 69	20/1/2018 12:01 70 20/1/2018 12:31 68	25/1/2018 18:31 70 26/1/2018 7:01 67
30/12/2017 10:31 71 30/12/2017 11:01 72	4/1/2018 17:31 70	10/1/2018 12:01 69	15/1/2018 18:31 69	20/1/2018 13:01 70	26/1/2018 7:31 70
30/12/2017 11:31 70	4/1/2018 18:01 69 4/1/2018 18:31 69	10/1/2018 12:31 69 10/1/2018 13:01 71	16/1/2018 7:01 67 16/1/2018 7:31 70	20/1/2018 13:31 71	26/1/2018 8:01 70
30/12/2017 12:01 69 30/12/2017 12:31 68	4/1/2018 18:31 69 5/1/2018 7:01 68	10/1/2018 13:01 71	16/1/2018 7:31 70 16/1/2018 8:01 71	20/1/2018 14:01 69 20/1/2018 14:31 69	26/1/2018 8:31 71 26/1/2018 9:01 70
30/12/2017 13:01 70	5/1/2018 7:31 70	10/1/2018 14:01 71	16/1/2018 8:31 71	20/1/2018 15:01 71	26/1/2018 9:31 69
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30/12/2017 14:31 71	5/1/2018 9:01 69	10/1/2018 15:31 70	16/1/2018 10:01 69	20/1/2018 16:31 64	26/1/2018 11:01 70
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30/12/2017 16:01 71	5/1/2018 10:31 71	10/1/2018 17:01 69	16/1/2018 11:31 70	20/1/2018 18:01 69	26/1/2018 12:31 69
30/12/2017 16:31 58 30/12/2017 17:01 71	5/1/2018 11:01 71 5/1/2018 11:31 70	10/1/2018 17:31 68 10/1/2018 18:01 68	16/1/2018 12:01 69 16/1/2018 12:31 68	20/1/2018 18:31 70 22/1/2018 7:01 67	26/1/2018 13:01 70 26/1/2018 13:31 70
30/12/2017 17:31 69	5/1/2018 12:01 69	10/1/2018 18:31 69	16/1/2018 13:01 70	22/1/2018 7:31 70	26/1/2018 14:01 70
30/12/2017 18:01 68 30/12/2017 18:31 68	5/1/2018 12:31 69 5/1/2018 13:01 70	11/1/2018 7:01 69 11/1/2018 7:31 70	16/1/2018 13:31 71 16/1/2018 14:01 65	22/1/2018 8:01 70 22/1/2018 8:31 72	26/1/2018 14:31 69 26/1/2018 15:01 69
31/12/2017 7:01 67	5/1/2018 13:31 72	11/1/2018 8:01 70	16/1/2018 14:31 69	22/1/2018 9:01 73	26/1/2018 15:31 69
31/12/2017 7:31 66 31/12/2017 8:01 68	5/1/2018 14:01 71 5/1/2018 14:31 71	11/1/2018 8:31 69 11/1/2018 9:01 70	16/1/2018 15:01 70 16/1/2018 15:31 70	22/1/2018 9:31 72 22/1/2018 10:01 72	26/1/2018 16:01 69 26/1/2018 16:31 68
31/12/2017 8:31 67	5/1/2018 15:01 69	11/1/2018 9:31 70	16/1/2018 16:01 71	22/1/2018 10:31 58	26/1/2018 17:01 69
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31/12/2017 10:01 68	5/1/2018 16:31 70	11/1/2018 11:01 72	16/1/2018 17:31 69	22/1/2018 12:01 70	26/1/2018 18:31 67
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Real-time Noise Data	RTN1 (Food and Environmental I		1	1	
Normal Day 19:00-23:00,	29/12/2017 19:46 67	31/12/2017 20:51 66	1/1/2018 13:56 67	2/1/2018 19:01 61	4/1/2018 20:06 67
Sunday & Holiday	29/12/2017 19:51 67	31/12/2017 20:56 66	1/1/2018 14:01 68	2/1/2018 19:06 69	4/1/2018 20:11 68
<u>07:00-23:00</u>	29/12/2017 19:56 67	31/12/2017 21:01 66	1/1/2018 14:06 67	2/1/2018 19:11 69	4/1/2018 20:16 68
	29/12/2017 20:01 67	31/12/2017 21:06 66	1/1/2018 14:11 66	2/1/2018 19:16 56	4/1/2018 20:21 66
27/12/2017 19:01 69	29/12/2017 20:06 67	31/12/2017 21:11 66	1/1/2018 14:16 66	2/1/2018 19:21 69	4/1/2018 20:26 68
27/12/2017 19:06 68	29/12/2017 20:11 67	31/12/2017 21:16 67	1/1/2018 14:21 66	2/1/2018 19:26 68	4/1/2018 20:31 67
27/12/2017 19:11 69	29/12/2017 20:16 68	31/12/2017 21:21 66	1/1/2018 14:26 67	2/1/2018 19:31 67	4/1/2018 20:36 66
27/12/2017 19:16 60	29/12/2017 20:21 67	31/12/2017 21:26 66	1/1/2018 14:31 68	2/1/2018 19:36 67	4/1/2018 20:41 67
27/12/2017 19:21 69	29/12/2017 20:26 68	31/12/2017 21:31 66	1/1/2018 14:36 67	2/1/2018 19:41 67	4/1/2018 20:46 67
27/12/2017 19:26 41	29/12/2017 20:31 68	31/12/2017 21:36 68	1/1/2018 14:41 68	2/1/2018 19:46 67	4/1/2018 20:51 67
27/12/2017 19:31 69	29/12/2017 20:36 67	31/12/2017 21:41 67	1/1/2018 14:46 67	2/1/2018 19:51 67	4/1/2018 20:56 67
27/12/2017 19:36 69	29/12/2017 20:41 68	31/12/2017 21:46 66	1/1/2018 14:51 67	2/1/2018 19:56 67	4/1/2018 21:01 67
27/12/2017 19:41 67	29/12/2017 20:46 67	31/12/2017 21:51 67	1/1/2018 14:56 67	2/1/2018 20:01 67	4/1/2018 21:06 66
27/12/2017 19:46 67	29/12/2017 20:51 67	31/12/2017 21:56 67	1/1/2018 15:01 68	2/1/2018 20:06 67	4/1/2018 21:11 67
27/12/2017 19:51 67	29/12/2017 20:56 66	31/12/2017 22:01 67	1/1/2018 15:06 68	2/1/2018 20:11 67	4/1/2018 21:16 67
27/12/2017 19:56 67	29/12/2017 21:01 66	31/12/2017 22:06 67	1/1/2018 15:11 67	2/1/2018 20:16 67	4/1/2018 21:21 67
27/12/2017 20:01 67	29/12/2017 21:06 67	31/12/2017 22:11 69	1/1/2018 15:16 67	2/1/2018 20:21 67	4/1/2018 21:26 66
27/12/2017 20:06 67	29/12/2017 21:11 67	31/12/2017 22:16 67	1/1/2018 15:21 67	2/1/2018 20:26 67	4/1/2018 21:31 66
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27/12/2017 20:26 67	29/12/2017 21:31 67	31/12/2017 22:36 66	1/1/2018 15:41 67	2/1/2018 20:46 67	4/1/2018 21:51 67
27/12/2017 20:31 67	29/12/2017 21:36 67	31/12/2017 22:41 69	1/1/2018 15:46 65	2/1/2018 20:51 66	4/1/2018 21:56 67
27/12/2017 20:36 66	29/12/2017 21:41 67	31/12/2017 22:46 67	1/1/2018 15:51 66	2/1/2018 20:56 66	4/1/2018 22:01 67
27/12/2017 20:41 67	29/12/2017 21:46 67	31/12/2017 22:51 67	1/1/2018 15:56 66	2/1/2018 21:01 67	4/1/2018 22:06 66
27/12/2017 20:46 67	29/12/2017 21:51 67	31/12/2017 22:56 67	1/1/2018 16:01 66	2/1/2018 21:06 66	4/1/2018 22:11 67
27/12/2017 20:51 66	29/12/2017 21:56 67	1/1/2018 7:01 65	1/1/2018 16:06 66	2/1/2018 21:11 66	4/1/2018 22:16 67
27/12/2017 20:56 66	29/12/2017 22:01 67	1/1/2018 7:06 67	1/1/2018 16:11 66	2/1/2018 21:16 66	4/1/2018 22:21 67
27/12/2017 21:01 66	29/12/2017 22:06 66	1/1/2018 7:11 65	1/1/2018 16:16 66	2/1/2018 21:21 66	4/1/2018 22:26 66
27/12/2017 21:06 66	29/12/2017 22:11 67	1/1/2018 7:16 65	1/1/2018 16:21 66	2/1/2018 21:26 67	4/1/2018 22:31 67
27/12/2017 21:11 66	29/12/2017 22:16 67	1/1/2018 7:21 65	1/1/2018 16:26 66	2/1/2018 21:31 66	4/1/2018 22:36 66
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27/12/2017 21:21 66	29/12/2017 22:26 68	1/1/2018 7:31 65	1/1/2018 16:36 66	2/1/2018 21:41 66	4/1/2018 22:46 66
27/12/2017 21:26 66	29/12/2017 22:31 67	1/1/2018 7:36 65	1/1/2018 16:41 66	2/1/2018 21:46 67	4/1/2018 22:51 66
27/12/2017 21:31 66	29/12/2017 22:36 67	1/1/2018 7:41 66	1/1/2018 16:46 67	2/1/2018 21:51 67	4/1/2018 22:56 66
27/12/2017 21:36 66	29/12/2017 22:41 67	1/1/2018 7:46 66	1/1/2018 16:51 68	2/1/2018 21:56 67	5/1/2018 19:01 68
27/12/2017 21:41 66	29/12/2017 22:46 67	1/1/2018 7:51 65	1/1/2018 16:56 68	2/1/2018 22:01 66	5/1/2018 19:06 69
27/12/2017 21:46 66	29/12/2017 22:51 67	1/1/2018 7:56 65	1/1/2018 17:01 67	2/1/2018 22:06 66	5/1/2018 19:11 69
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27/12/2017 21:56 67	30/12/2017 19:01 67	1/1/2018 8:06 66	1/1/2018 17:11 68	2/1/2018 22:16 67	5/1/2018 19:21 69
27/12/2017 22:01 67	30/12/2017 19:06 67	1/1/2018 8:11 66	1/1/2018 17:16 68	2/1/2018 22:21 68	5/1/2018 19:26 69
27/12/2017 22:06 66	30/12/2017 19:11 67	1/1/2018 8:16 70	1/1/2018 17:21 68	2/1/2018 22:26 66	5/1/2018 19:31 67
27/12/2017 22:11 67	30/12/2017 19:16 67	1/1/2018 8:21 66	1/1/2018 17:26 68	2/1/2018 22:31 67	5/1/2018 19:36 67
27/12/2017 22:16 66	30/12/2017 19:21 66	1/1/2018 8:26 66	1/1/2018 17:31 68	2/1/2018 22:36 66	5/1/2018 19:41 67
27/12/2017 22:21 66 27/12/2017 22:26 66	30/12/2017 19:26 67 30/12/2017 19:31 67	1/1/2018 8:31 66 1/1/2018 8:36 66	1/1/2018 17:41 68	2/1/2018 22:41 66 2/1/2018 22:46 68	5/1/2018 19:51 67
27/12/2017 22:31 67	30/12/2017 19:36 67	1/1/2018 8:41 66	1/1/2018 17:46 67	2/1/2018 22:51 66	5/1/2018 19:56 67
27/12/2017 22:36 66	30/12/2017 19:41 67	1/1/2018 8:46 65	1/1/2018 17:51 67	2/1/2018 22:56 65	5/1/2018 20:01 66
27/12/2017 22:41 67	30/12/2017 19:46 66	1/1/2018 8:51 65	1/1/2018 17:56 68	3/1/2018 19:01 62	5/1/2018 20:06 67
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28/12/2017 19:01 69	30/12/2017 20:06 66	1/1/2018 9:11 66	1/1/2018 18:16 67	3/1/2018 19:21 56	5/1/2018 20:26 67
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Real-time Noise Data	RTN1 (Food and Environmental I		•	•	
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Real-time Noise Data	RTN1 (Food and Environmental F				
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14/1/2018 19:51 69	16/1/2018 20:56 67	18/1/2018 22:01 67	21/1/2018 7:06 57	21/1/2018 16:11 66	22/1/2018 21:16 67
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Real-time Noise Data	RTN1 (Food and Environmental H				
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24/1/2018 22:21 67	27/12/2017 0:01 62	28/12/2017 1:06 57	29/12/2017 2:11 49	30/12/2017 3:16 53	31/12/2017 4:21 62
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2/1/2010 0.10 00	0/1/2010/20.21 04	1 0/1/2010 0.20 00	0/1/2010 1.01 00	17 1720 10 2.00 02	0/1/2010 0.41 01

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8/1/2018 3:56 60	9/1/2018 5:01 45	10/1/2018 6:06 61	11/1/2018 23:11 65	13/1/2018 0:16 64	14/1/2018 1:21 66
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8/1/2018 4:06 60	9/1/2018 5:11 62	10/1/2018 6:16 62	11/1/2018 23:21 64	13/1/2018 0:26 64	14/1/2018 1:31 65
8/1/2018 4:11 61	9/1/2018 5:16 57	10/1/2018 6:21 63	11/1/2018 23:26 65	13/1/2018 0:31 64	14/1/2018 1:36 67
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8/1/2018 4:21 61	9/1/2018 5:26 60	10/1/2018 6:31 64	11/1/2018 23:36 63	13/1/2018 0:41 63	14/1/2018 1:46 65
8/1/2018 4:26 61	9/1/2018 5:31 60	10/1/2018 6:36 63	11/1/2018 23:41 64	13/1/2018 0:46 64	14/1/2018 1:51 65
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8/1/2018 4:36 60	9/1/2018 5:41 58	10/1/2018 6:46 66	11/1/2018 23:51 64	13/1/2018 0:56 63	14/1/2018 2:01 64
8/1/2018 4:41 60	9/1/2018 5:46 61	10/1/2018 6:51 66	11/1/2018 23:56 62	13/1/2018 1:01 62	14/1/2018 2:06 65
8/1/2018 4:46 61	9/1/2018 5:51 62	10/1/2018 6:56 66	12/1/2018 0:01 63	13/1/2018 1:06 63	14/1/2018 2:11 65
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8/1/2018 4:56 61	9/1/2018 6:01 63	10/1/2018 23:06 67	12/1/2018 0:11 62	13/1/2018 1:16 62	14/1/2018 2:21 65
8/1/2018 5:01 61	9/1/2018 6:06 64	10/1/2018 23:11 67	12/1/2018 0:16 63	13/1/2018 1:21 62	14/1/2018 2:26 65
8/1/2018 5:06 61	9/1/2018 6:11 65	10/1/2018 23:16 67 10/1/2018 23:21 67	12/1/2018 0:21 63	13/1/2018 1:26 60	14/1/2018 2:31 64 14/1/2018 2:36 65
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8/1/2018 5:36 62	9/1/2018 6:41 67	10/1/2018 23:46 66	12/1/2018 0:51 61	13/1/2018 1:56 59	14/1/2018 3:01 64
8/1/2018 5:41 48	9/1/2018 6:46 68	10/1/2018 23:51 66	12/1/2018 0:56 60	13/1/2018 2:01 61	14/1/2018 3:06 66
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8/1/2018 6:46 66	9/1/2018 23:51 65	11/1/2018 0:56 65	12/1/2018 2:01 57	13/1/2018 3:06 58	14/1/2018 4:11 63
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Real-time Noise Data	RTN1 (Food and Environmental I				
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22/1/2018 23:06 64   24/1/2018 0:11 62   25/1/2018 1:16 57   26/1/2018 2:21 55   22/1/2018 23:11 65   24/1/2018 0:21 62   25/1/2018 1:26 58   26/1/2018 2:31 45   22/1/2018 23:26 64   24/1/2018 0:26 61   25/1/2018 1:36 53   26/1/2018 2:31 45   22/1/2018 23:36 65   24/1/2018 0:36 60   25/1/2018 1:36 56   26/1/2018 2:46 62   22/1/2018 23:31 65   24/1/2018 0:36 60   25/1/2018 1:41 57   26/1/2018 2:46 69   22/1/2018 23:36 63   24/1/2018 0:36 60   25/1/2018 1:46 53   26/1/2018 2:46 69   22/1/2018 23:41 63   24/1/2018 0:46 59   25/1/2018 1:56 50   26/1/2018 2:56 47   22/1/2018 23:46 63   24/1/2018 0:46 59   25/1/2018 1:56 50   26/1/2018 2:56 47   22/1/2018 23:51 63   24/1/2018 0:56 55   25/1/2018 1:56 50   26/1/2018 3:06 51   22/1/2018 23:56 62   24/1/2018 1:01 60   25/1/2018 2:01 53   26/1/2018 3:06 51   22/1/2018 23:56 62   24/1/2018 1:10 60   25/1/2018 2:10 53   26/1/2018 3:06 51   23/1/2018 0:01 61   24/1/2018 1:16 60   25/1/2018 2:16 60   23/1/2018 0:01 61   24/1/2018 1:16 60   25/1/2018 2:16 59   25/1/2018 2:16 59   26/1/2018 3:26 60   23/1/2018 0:01 61   24/1/2018 1:16 49   25/1/2018 2:16 50   26/1/2018 3:21 61   23/1/2018 0:01 61   24/1/2018 1:16 49   25/1/2018 2:16 50   26/1/2018 3:31 50   23/1/2018 0:02 61   24/1/2018 1:16 55   25/1/2018 2:26 61   26/1/2018 3:31 50   23/1/2018 0:02 61   24/1/2018 1:36 53   25/1/2018 2:36 61   26/1/2018 3:31 50   23/1/2018 0:02 61   24/1/2018 1:36 53   25/1/2018 2:36 61   26/1/2018 3:36 61   23/1/2018 0:31 60   24/1/2018 1:36 53   25/1/2018 2:36 61   26/1/2018 3:36 61   23/1/2018 0:36 57   24/1/2018 1:36 53   25/1/2018 2:36 61   26/1/2018 3:46 61   23/1/2018 0:36 67   24/1/2018 1:36 53   25/1/2018 2:36 61   26/1/2018 3:46 61   23/1/2018 0:46 57   24/1/2018 1:46 53   25/1/2018 2:46 62   26/1/2018 3:46 61   23/1/2018 0:46 57   24/1/2018 1:46 53   25/1/2018 2:56 61   26/1/2018 3:46 61   23/1/2018 0:66 60   24/1/2018 1:56 55   25/1/2018 3:66 61   26/1/2018 4:66 61   23/1/2018 0:66 60   24/1/2018 2:16 58   25/1/2018 3:16 61   26/1/2018 4:16 62   23/1/2018 1:16 60   24/1/2018 2:1					
22/1/2018 23:16 65	22/1/2018 23:06 64				
22/1/2018 23:26 64					
22/1/2018 23:31 65					
22/1/2018 23:41 63	22/1/2018 23:31 65	24/1/2018 0:36 60	25/1/2018 1:41 57	26/1/2018 2:46 39	
22/1/2018 23:46 63					
22/1/2018 23:56 62					
23/1/2018 0:01 61 24/1/2018 1:16 60 25/1/2018 2:16 49 26/1/2018 3:26 62 25/1/2018 0:16 61 24/1/2018 1:16 49 25/1/2018 2:25 55 26/1/2018 3:26 62 25/1/2018 0:16 61 24/1/2018 1:21 56 25/1/2018 2:26 61 26/1/2018 3:31 50 25/1/2018 0:21 61 24/1/2018 1:31 50 25/1/2018 2:26 61 26/1/2018 3:31 50 25/1/2018 0:23 61 24/1/2018 1:31 50 25/1/2018 2:36 61 26/1/2018 3:41 62 25/1/2018 0:31 60 24/1/2018 1:36 53 25/1/2018 2:41 52 26/1/2018 3:46 61 23/1/2018 0:36 59 24/1/2018 1:41 47 25/1/2018 2:46 62 26/1/2018 3:56 61 23/1/2018 0:46 57 24/1/2018 1:46 53 25/1/2018 2:56 62 26/1/2018 3:56 61 23/1/2018 0:46 57 24/1/2018 1:51 55 25/1/2018 2:56 61 26/1/2018 3:56 61 23/1/2018 0:56 60 24/1/2018 1:56 45 25/1/2018 3:01 61 26/1/2018 4:01 61 23/1/2018 0:56 60 24/1/2018 2:01 54 25/1/2018 3:01 61 26/1/2018 4:01 61 23/1/2018 0:05 60 24/1/2018 2:01 54 25/1/2018 3:01 61 26/1/2018 4:01 61 23/1/2018 1:01 60 24/1/2018 2:01 62 25/1/2018 3:01 61 26/1/2018 4:11 61 23/1/2018 1:01 60 24/1/2018 2:16 62 25/1/2018 3:01 61 26/1/2018 4:16 62 23/1/2018 1:16 60 24/1/2018 2:16 62 25/1/2018 3:01 61 26/1/2018 4:16 62 23/1/2018 1:16 60 24/1/2018 2:16 61 25/1/2018 3:26 61 26/1/2018 4:26 62 25/1/2018 3:16 61 26/1/2018 4:31 62 23/1/2018 1:16 60 24/1/2018 2:26 62 25/1/2018 3:36 60 26/1/2018 4:31 62 23/1/2018 1:16 60 24/1/2018 2:26 62 25/1/2018 3:31 52 26/1/2018 4:31 62 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:31 52 26/1/2018 4:31 62 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:31 52 26/1/2018 4:46 61 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:46 61 26/1/2018 4:46 61 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:46 61 26/1/2018 4:46 61 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:46 61 26/1/2018 4:45 60 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:46 61 26/1/2018 4:45 60 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:46 61 26/1/2018 4:45 60 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:46 61 26/1/2018 4:45 60 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:46 61 26/1/2018 4:45 60 23/1/2018 4:45 60 23/1/2018 1:31 56 24/1/2018 2:41 60 25/1/2018 3:					
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23/1/2018 0:31 60 24/1/2018 1:36 53 25/1/2018 2:41 52 26/1/2018 3:46 61 23/1/2018 0:41 57 24/1/2018 1:41 47 25/1/2018 2:46 62 26/1/2018 3:56 61 23/1/2018 0:46 57 24/1/2018 1:55 25/1/2018 2:55 52 26/1/2018 3:56 61 23/1/2018 0:46 57 24/1/2018 1:51 55 25/1/2018 2:56 61 26/1/2018 4:01 61 23/1/2018 0:56 60 24/1/2018 1:56 45 25/1/2018 3:01 61 26/1/2018 4:01 61 23/1/2018 1:01 60 24/1/2018 2:01 54 25/1/2018 3:01 61 26/1/2018 4:11 61 23/1/2018 1:01 60 24/1/2018 2:01 62 25/1/2018 3:11 61 26/1/2018 4:16 62 23/1/2018 1:11 56 24/1/2018 2:16 58 25/1/2018 3:16 61 26/1/2018 4:26 62 23/1/2018 1:16 60 24/1/2018 2:16 58 25/1/2018 3:26 61 26/1/2018 4:26 62 23/1/2018 1:16 60 24/1/2018 2:26 62 25/1/2018 3:31 52 26/1/2018 4:31 62 23/1/2018 1:21 58 24/1/2018 2:31 62 25/1/2018 3:31 52 26/1/2018 4:31 62 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:31 52 26/1/2018 4:41 60 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:41 62 25/1/2018 3:41 60 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:41 62 26/1/2018 4:46 61 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:41 62 26/1/2018 4:45 55 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:41 62 26/1/2018 4:45 50 23/1/2018 1:31 56 24/1/2018 2:41 60 25/1/2018 3:41 62 26/1/2018 4:45 50 23/1/2018 1:31 58 24/1/2018 2:46 62 25/1/2018 3:46 61 26/1/2018 4:45 50 23/1/2018 1:31 58 24/1/2018 2:46 62 25/1/2018 3:46 61 26/1/2018 4:55 50 23/1/2018 1:41 58 24/1/2018 2:46 62 25/1/2018 3:46 61 26/1/2018 4:55 50 23/1/2018 1:41 58 24/1/2018 2:46 62 25/1/2018 3:46 61 26/1/2018 4:55 61					
23/1/2018 0:46 57	23/1/2018 0:31 60	24/1/2018 1:36 53	25/1/2018 2:41 52	26/1/2018 3:46 61	
23/1/2018 0:46 57					
23/1/2018 0:56 60	23/1/2018 0:46 57	24/1/2018 1:51 55	25/1/2018 2:56 61	26/1/2018 4:01 61	
23/1/2018 1:01 60 24/1/2018 2:16 62 25/1/2018 3:11 61 26/1/2018 4:16 62 23/1/2018 1:15 65 24/1/2018 2:16 58 25/1/2018 3:15 61 26/1/2018 4:26 62 23/1/2018 1:16 60 24/1/2018 2:26 62 25/1/2018 3:26 61 26/1/2018 4:31 62 23/1/2018 1:21 58 24/1/2018 2:26 62 25/1/2018 3:25 61 26/1/2018 4:31 62 23/1/2018 1:31 56 24/1/2018 2:31 62 25/1/2018 3:31 52 26/1/2018 4:41 60 23/1/2018 1:31 56 24/1/2018 2:36 61 25/1/2018 3:41 62 26/1/2018 4:45 61 23/1/2018 1:36 62 24/1/2018 2:46 62 25/1/2018 3:41 62 26/1/2018 4:45 50 23/1/2018 1:35 62 24/1/2018 2:46 62 25/1/2018 3:46 61 26/1/2018 4:51 50 23/1/2018 1:41 58 24/1/2018 2:46 62 25/1/2018 3:46 61 26/1/2018 4:56 61					
23/1/2018 1:11 56	23/1/2018 1:01 60	24/1/2018 2:06 62	25/1/2018 3:11 61	26/1/2018 4:16 62	
23/1/2018 1:16 60					
23/1/2018 1:26 51	23/1/2018 1:16 60	24/1/2018 2:21 61	25/1/2018 3:26 61	26/1/2018 4:31 62	
23/1/2018 1:31 56					
23/1/2018 1:41 58 24/1/2018 2:46 62 25/1/2018 3:51 61 26/1/2018 4:56 61	23/1/2018 1:31 56	24/1/2018 2:36 61	25/1/2018 3:41 62	26/1/2018 4:46 61	
	23/1/2018 1:41 58	24/1/2018 2:46 62	25/1/2018 3:51 61		
	23/1/2018 1:46 56	24/1/2018 2:51 62	25/1/2018 3:56 54	26/1/2018 5:01 61	

Real-time Noise Data	RTN2a (Hong Kong Electric Cent	<u>re)</u>			
Normal Day 07:00-19:00	31/12/2017 12:31 62	6/1/2018 7:01 61	11/1/2018 13:31 60 11/1/2018 14:01 47	17/1/2018 8:01 66 17/1/2018 8:31 62	22/1/2018 14:31 70 22/1/2018 15:01 67
27/12/2017 7:01 63	31/12/2017 13:01 63 31/12/2017 13:31 64	6/1/2018 7:31 62 6/1/2018 8:01 65	11/1/2018 14:31 67	17/1/2018 9:01 59	22/1/2018 15:31 67
27/12/2017 7:31 64	31/12/2017 14:01 62	6/1/2018 8:31 53	11/1/2018 15:01 65	17/1/2018 9:31 59	22/1/2018 16:01 67
27/12/2017 8:01 66 27/12/2017 8:31 69	31/12/2017 14:31 63 31/12/2017 15:01 62	6/1/2018 9:01 58 6/1/2018 9:31 61	11/1/2018 15:31 66 11/1/2018 16:01 67	17/1/2018 10:01 58 17/1/2018 10:31 53	22/1/2018 16:31 67 22/1/2018 17:01 66
27/12/2017 9:01 67	31/12/2017 15:31 62	6/1/2018 10:01 67	11/1/2018 16:31 67	17/1/2018 11:01 67	22/1/2018 17:31 65
27/12/2017 9:31 53 27/12/2017 10:01 65	31/12/2017 16:01 63 31/12/2017 16:31 62	6/1/2018 10:31 64 6/1/2018 11:01 55	11/1/2018 17:01 66 11/1/2018 17:31 64	17/1/2018 11:31 65 17/1/2018 12:01 64	22/1/2018 18:01 65 22/1/2018 18:31 63
27/12/2017 10:31 68	31/12/2017 17:01 63	6/1/2018 11:31 65	11/1/2018 18:01 63	17/1/2018 12:31 63	23/1/2018 7:01 61
27/12/2017 11:01 61 27/12/2017 11:31 67	31/12/2017 17:31 62 31/12/2017 18:01 63	6/1/2018 12:01 62 6/1/2018 12:31 63	11/1/2018 18:31 62 12/1/2018 7:01 60	17/1/2018 13:01 59 17/1/2018 13:31 63	23/1/2018 7:31 62 23/1/2018 8:01 65
27/12/2017 11:01 65	31/12/2017 18:31 62	6/1/2018 13:01 67	12/1/2018 7:31 61	17/1/2018 14:01 61	23/1/2018 8:31 61
27/12/2017 12:31 65	2/1/2018 7:01 62 2/1/2018 7:31 62	6/1/2018 13:31 63	12/1/2018 8:01 63 12/1/2018 8:31 67	17/1/2018 14:31 56	23/1/2018 9:01 66 23/1/2018 9:31 71
27/12/2017 13:01 62 27/12/2017 13:31 66	2/1/2018 7:31 62 2/1/2018 8:01 66	6/1/2018 14:01 67 6/1/2018 14:31 67	12/1/2018 8:31 67 12/1/2018 9:01 57	17/1/2018 15:01 63 17/1/2018 15:31 67	23/1/2018 9:31 71 23/1/2018 10:01 73
27/12/2017 14:01 68	2/1/2018 8:31 66	6/1/2018 15:01 68	12/1/2018 9:31 62	17/1/2018 16:01 66	23/1/2018 10:31 74
27/12/2017 14:31 71 27/12/2017 15:01 66	2/1/2018 9:01 65 2/1/2018 9:31 68	6/1/2018 15:31 66 6/1/2018 16:01 66	12/1/2018 10:01 64 12/1/2018 10:31 65	17/1/2018 16:31 56 17/1/2018 17:01 66	23/1/2018 11:01 57 23/1/2018 11:31 66
27/12/2017 15:31 64	2/1/2018 10:01 65	6/1/2018 16:31 66	12/1/2018 11:01 66	17/1/2018 17:31 64	23/1/2018 12:01 63
27/12/2017 16:01 60 27/12/2017 16:31 62	2/1/2018 10:31 69 2/1/2018 11:01 49	6/1/2018 17:01 64 6/1/2018 17:31 64	12/1/2018 11:31 64 12/1/2018 12:01 62	17/1/2018 18:01 63 17/1/2018 18:31 62	23/1/2018 12:31 63 23/1/2018 13:01 66
27/12/2017 17:01 66	2/1/2018 11:31 65	6/1/2018 18:01 63	12/1/2018 12:31 62	18/1/2018 7:01 63	23/1/2018 13:31 72
27/12/2017 17:31 72 27/12/2017 18:01 69	2/1/2018 12:01 63 2/1/2018 12:31 63	6/1/2018 18:31 62 8/1/2018 7:01 62	12/1/2018 13:01 65 12/1/2018 13:31 42	18/1/2018 7:31 63 18/1/2018 8:01 65	23/1/2018 14:01 69 23/1/2018 14:31 62
27/12/2017 18:31 64	2/1/2018 13:01 62	8/1/2018 7:31 64	12/1/2018 14:01 66	18/1/2018 8:31 60	23/1/2018 15:01 59
28/12/2017 7:01 60 28/12/2017 7:31 62	2/1/2018 13:31 69 2/1/2018 14:01 71	8/1/2018 8:01 65 8/1/2018 8:31 58	12/1/2018 14:31 67 12/1/2018 15:01 66	18/1/2018 9:01 68 18/1/2018 9:31 70	23/1/2018 15:31 66 23/1/2018 16:01 66
28/12/2017 8:01 66	2/1/2018 14:31 68	8/1/2018 9:01 70	12/1/2018 15:31 60	18/1/2018 10:01 69	23/1/2018 16:31 66
28/12/2017 8:31 66 28/12/2017 9:01 63	2/1/2018 15:01 67 2/1/2018 15:31 67	8/1/2018 9:31 65 8/1/2018 10:01 67	12/1/2018 16:01 64 12/1/2018 16:31 56	18/1/2018 10:31 66 18/1/2018 11:01 66	23/1/2018 17:01 64 23/1/2018 17:31 63
28/12/2017 9:31 66	2/1/2018 16:01 59	8/1/2018 10:31 62	12/1/2018 17:01 66	18/1/2018 11:31 65	23/1/2018 18:01 63
28/12/2017 10:01 65 28/12/2017 10:31 65	2/1/2018 16:31 56 2/1/2018 17:01 66	8/1/2018 11:01 66 8/1/2018 11:31 60	12/1/2018 17:31 62 12/1/2018 18:01 62	18/1/2018 12:01 63 18/1/2018 12:31 63	23/1/2018 18:31 63 24/1/2018 7:01 61
28/12/2017 11:01 63	2/1/2018 17:31 65	8/1/2018 12:01 67	12/1/2018 18:31 62	18/1/2018 13:01 60	24/1/2018 7:31 62
28/12/2017 11:31 66	2/1/2018 18:01 64	8/1/2018 12:31 58	13/1/2018 7:01 61 13/1/2018 7:31 64	18/1/2018 13:31 69	24/1/2018 8:01 65
28/12/2017 12:01 64 28/12/2017 12:31 64	2/1/2018 18:31 63 3/1/2018 7:01 61	8/1/2018 13:01 64 8/1/2018 13:31 59	13/1/2018 7:31 64 13/1/2018 8:01 65	18/1/2018 14:01 69 18/1/2018 14:31 62	24/1/2018 8:31 61 24/1/2018 9:01 65
28/12/2017 13:01 69	3/1/2018 7:31 63	8/1/2018 14:01 59	13/1/2018 8:31 63	18/1/2018 15:01 64	24/1/2018 9:31 59
28/12/2017 13:31 67 28/12/2017 14:01 63	3/1/2018 8:01 65 3/1/2018 8:31 66	8/1/2018 14:31 56 8/1/2018 15:01 56	13/1/2018 9:01 65 13/1/2018 9:31 58	18/1/2018 15:31 67 18/1/2018 16:01 39	24/1/2018 10:01 56 24/1/2018 10:31 61
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28/12/2017 15:01 70 28/12/2017 15:31 67	3/1/2018 9:31 66 3/1/2018 10:01 69	8/1/2018 16:01 59 8/1/2018 16:31 67	13/1/2018 10:31 66 13/1/2018 11:01 67	18/1/2018 17:01 66 18/1/2018 17:31 64	24/1/2018 11:31 66 24/1/2018 12:01 63
28/12/2017 16:01 62	3/1/2018 10:31 64	8/1/2018 17:01 66	13/1/2018 11:31 65	18/1/2018 18:01 64	24/1/2018 12:31 64
28/12/2017 16:31 62 28/12/2017 17:01 67	3/1/2018 11:01 64 3/1/2018 11:31 66	8/1/2018 17:31 65 8/1/2018 18:01 65	13/1/2018 12:01 64 13/1/2018 12:31 64	18/1/2018 18:31 63 19/1/2018 7:01 61	24/1/2018 13:01 60 24/1/2018 13:31 68
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28/12/2017 18:01 66 28/12/2017 18:31 65	3/1/2018 12:31 64 3/1/2018 13:01 67	9/1/2018 7:01 63 9/1/2018 7:31 62	13/1/2018 13:31 64 13/1/2018 14:01 62	19/1/2018 8:01 65 19/1/2018 8:31 60	24/1/2018 14:31 71 24/1/2018 15:01 62
29/12/2017 7:01 61	3/1/2018 13:31 71	9/1/2018 8:01 65	13/1/2018 14:31 59	19/1/2018 9:01 70	24/1/2018 15:31 66
29/12/2017 7:31 62 29/12/2017 8:01 67	3/1/2018 14:01 71 3/1/2018 14:31 71	9/1/2018 8:31 67 9/1/2018 9:01 67	13/1/2018 15:01 63 13/1/2018 15:31 64	19/1/2018 9:31 66 19/1/2018 10:01 71	24/1/2018 16:01 67 24/1/2018 16:31 60
29/12/2017 8:31 73	3/1/2018 15:01 70	9/1/2018 9:31 59	13/1/2018 16:01 67	19/1/2018 10:31 70	24/1/2018 17:01 67
29/12/2017 9:01 63 29/12/2017 9:31 62	3/1/2018 15:31 67 3/1/2018 16:01 67	9/1/2018 10:01 63 9/1/2018 10:31 63	13/1/2018 16:31 66 13/1/2018 17:01 64	19/1/2018 11:01 63 19/1/2018 11:31 66	24/1/2018 17:31 65 24/1/2018 18:01 65
29/12/2017 10:01 61	3/1/2018 16:31 52	9/1/2018 11:01 60	13/1/2018 17:31 63	19/1/2018 12:01 63	24/1/2018 18:31 63
29/12/2017 10:31 63 29/12/2017 11:01 60	3/1/2018 17:01 66 3/1/2018 17:31 65	9/1/2018 11:31 66 9/1/2018 12:01 63	13/1/2018 18:01 63 13/1/2018 18:31 60	19/1/2018 12:31 64 19/1/2018 13:01 57	25/1/2018 7:01 61 25/1/2018 7:31 63
29/12/2017 11:31 66	3/1/2018 18:01 64	9/1/2018 12:31 64	15/1/2018 7:01 61	19/1/2018 13:31 67	25/1/2018 8:01 66
29/12/2017 12:01 64	3/1/2018 18:31 63 4/1/2018 7:01 61	9/1/2018 13:01 54 9/1/2018 13:31 60	15/1/2018 7:31 62 15/1/2018 8:01 64	19/1/2018 14:01 63 19/1/2018 14:31 64	25/1/2018 8:31 69 25/1/2018 9:01 69
29/12/2017 12:31 64 29/12/2017 13:01 67	4/1/2018 7:01 61 4/1/2018 7:31 62	9/1/2018 13:31 60 9/1/2018 14:01 64	15/1/2018 8:31 66	19/1/2018 15:01 65	25/1/2018 9:31 72
29/12/2017 13:31 63	4/1/2018 8:01 65	9/1/2018 14:31 60 9/1/2018 15:01 61	15/1/2018 9:01 66	19/1/2018 15:31 66	25/1/2018 10:01 64
29/12/2017 14:01 58 29/12/2017 14:31 58	4/1/2018 8:31 71 4/1/2018 9:01 66	9/1/2018 15:01 61 9/1/2018 15:31 61	15/1/2018 9:31 54 15/1/2018 10:01 57	19/1/2018 16:01 62 19/1/2018 16:31 60	25/1/2018 10:31 67 25/1/2018 11:01 63
29/12/2017 15:01 56	4/1/2018 9:31 72	9/1/2018 16:01 53	15/1/2018 10:31 65	19/1/2018 17:01 66	25/1/2018 11:31 67
29/12/2017 15:31 66 29/12/2017 16:01 59	4/1/2018 10:01 74 4/1/2018 10:31 69	9/1/2018 16:31 63 9/1/2018 17:01 65	15/1/2018 11:01 67 15/1/2018 11:31 65	19/1/2018 17:31 65 19/1/2018 18:01 65	25/1/2018 12:01 64 25/1/2018 12:31 65
29/12/2017 16:31 62	4/1/2018 11:01 68	9/1/2018 17:31 64	15/1/2018 12:01 63 15/1/2018 12:31 64	19/1/2018 18:31 63	25/1/2018 13:01 61
29/12/2017 17:01 66 29/12/2017 17:31 65	4/1/2018 11:31 65 4/1/2018 12:01 64	9/1/2018 18:01 63 9/1/2018 18:31 64	15/1/2018 12:31 64 15/1/2018 13:01 61	20/1/2018 7:01 61 20/1/2018 7:31 62	25/1/2018 13:31 64 25/1/2018 14:01 61
29/12/2017 18:01 65	4/1/2018 12:31 64	10/1/2018 7:01 62	15/1/2018 13:31 65	20/1/2018 8:01 66	25/1/2018 14:31 63
29/12/2017 18:31 63 30/12/2017 7:01 61	4/1/2018 13:01 57 4/1/2018 13:31 72	10/1/2018 7:31 62 10/1/2018 8:01 65	15/1/2018 14:01 65 15/1/2018 14:31 66	20/1/2018 8:31 72 20/1/2018 9:01 72	25/1/2018 15:01 59 25/1/2018 15:31 55
30/12/2017 7:31 62	4/1/2018 14:01 73	10/1/2018 8:31 66	15/1/2018 15:01 67	20/1/2018 9:31 72	25/1/2018 16:01 54
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30/12/2017 9:01 67	4/1/2018 15:31 67	10/1/2018 10:01 67	15/1/2018 16:31 66	20/1/2018 11:01 67	25/1/2018 17:31 66
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30/12/2017 10:31 67	4/1/2018 17:01 65	10/1/2018 11:31 65	15/1/2018 18:01 62	20/1/2018 12:31 65	26/1/2018 7:01 62
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30/12/2017 13:31 66	5/1/2018 8:01 65	10/1/2018 14:31 50	16/1/2018 9:01 67	20/1/2018 15:31 65	26/1/2018 10:01 67
30/12/2017 14:01 67 30/12/2017 14:31 66	5/1/2018 8:31 66 5/1/2018 9:01 67	10/1/2018 15:01 62 10/1/2018 15:31 59	16/1/2018 9:31 65 16/1/2018 10:01 64	20/1/2018 16:01 62 20/1/2018 16:31 59	26/1/2018 10:31 67 26/1/2018 11:01 64
30/12/2017 15:01 66	5/1/2018 9:31 66	10/1/2018 16:01 66	16/1/2018 10:31 64	20/1/2018 17:01 65	26/1/2018 11:31 50
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30/12/2017 16:31 66	5/1/2018 11:01 66	10/1/2018 17:31 65	16/1/2018 12:01 64	20/1/2018 18:31 64	26/1/2018 13:01 67
30/12/2017 17:01 65 30/12/2017 17:31 66	5/1/2018 11:31 65 5/1/2018 12:01 62	10/1/2018 18:01 63 10/1/2018 18:31 63	16/1/2018 12:31 63 16/1/2018 13:01 67	22/1/2018 7:01 61 22/1/2018 7:31 63	26/1/2018 13:31 67 26/1/2018 14:01 66
30/12/2017 18:01 65	5/1/2018 12:31 62	11/1/2018 7:01 61	16/1/2018 13:31 64	22/1/2018 8:01 66	26/1/2018 14:31 68
30/12/2017 18:31 62	5/1/2018 13:01 65 5/1/2018 13:31 59	11/1/2018 7:31 61 11/1/2018 8:01 64	16/1/2018 14:01 66 16/1/2018 14:31 62	22/1/2018 8:31 72 22/1/2018 9:01 72	26/1/2018 15:01 63 26/1/2018 15:31 65
31/12/2017 7:01 61 31/12/2017 7:31 61	5/1/2018 13:31 59 5/1/2018 14:01 66	11/1/2018 8:01 64 11/1/2018 8:31 56	16/1/2018 14:31 62 16/1/2018 15:01 65	22/1/2018 9:01 /2 22/1/2018 9:31 68	26/1/2018 15:31 65 26/1/2018 16:01 60
31/12/2017 8:01 62 31/12/2017 8:31 62	5/1/2018 14:31 67 5/1/2018 15:01 66	11/1/2018 9:01 66 11/1/2018 9:31 67	16/1/2018 15:31 67 16/1/2018 16:01 67	22/1/2018 10:01 69 22/1/2018 10:31 66	26/1/2018 16:31 60 26/1/2018 17:01 65
31/12/2017 8:31 62 31/12/2017 9:01 63	5/1/2018 15:01 66 5/1/2018 15:31 64	11/1/2018 9:31 67 11/1/2018 10:01 66	16/1/2018 16:31 67	22/1/2018 10:31 66 22/1/2018 11:01 67	26/1/2018 17:01 65 26/1/2018 17:31 65
31/12/2017 9:31 63	5/1/2018 16:01 67	11/1/2018 10:31 66	16/1/2018 17:01 65	22/1/2018 11:31 66	26/1/2018 18:01 64
31/12/2017 10:01 64 31/12/2017 10:31 63	5/1/2018 16:31 67 5/1/2018 17:01 66	11/1/2018 11:01 66 11/1/2018 11:31 64	16/1/2018 17:31 64 16/1/2018 18:01 63	22/1/2018 12:01 63 22/1/2018 12:31 64	26/1/2018 18:31 62
31/12/2017 11:01 64	5/1/2018 17:31 63	11/1/2018 12:01 63	16/1/2018 18:31 64	22/1/2018 13:01 60	
31/12/2017 11:31 63 31/12/2017 12:01 63	5/1/2018 18:01 63 5/1/2018 18:31 62	11/1/2018 12:31 62 11/1/2018 13:01 66	17/1/2018 7:01 62 17/1/2018 7:31 63	22/1/2018 13:31 76 22/1/2018 14:01 72	
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Real-time Noise Data	RTN2a (Hong Kong Electric Cen			1	1
Normal Day 19:00-23:00,	29/12/2017 19:46 55	31/12/2017 20:51 60	1/1/2018 13:56 58	2/1/2018 19:01 55	4/1/2018 20:06 52
Sunday & Holiday	29/12/2017 19:51 51	31/12/2017 20:56 61	1/1/2018 14:01 62	2/1/2018 19:06 60	4/1/2018 20:11 50
07:00-23:00	29/12/2017 19:56 49	31/12/2017 21:01 60	1/1/2018 14:06 56	2/1/2018 19:11 51	4/1/2018 20:16 45
	29/12/2017 20:01 62	31/12/2017 21:06 60	1/1/2018 14:11 52	2/1/2018 19:16 57	4/1/2018 20:21 55
27/12/2017 19:01 59	29/12/2017 20:06 56	31/12/2017 21:11 51	1/1/2018 14:16 56	2/1/2018 19:21 47	4/1/2018 20:26 61
27/12/2017 19:06 57	29/12/2017 20:11 57	31/12/2017 21:16 50	1/1/2018 14:21 55	2/1/2018 19:26 62	4/1/2018 20:31 59
27/12/2017 19:11 57	29/12/2017 20:16 56	31/12/2017 21:21 61	1/1/2018 14:26 58	2/1/2018 19:31 59	4/1/2018 20:36 53
27/12/2017 19:16 65	29/12/2017 20:21 48	31/12/2017 21:26 61	1/1/2018 14:31 61	2/1/2018 19:36 55	4/1/2018 20:41 60
27/12/2017 19:21 58	29/12/2017 20:26 64	31/12/2017 21:31 60	1/1/2018 14:36 61	2/1/2018 19:41 62	4/1/2018 20:46 53
27/12/2017 19:26 59	29/12/2017 20:31 60	31/12/2017 21:36 61	1/1/2018 14:41 52	2/1/2018 19:46 61	4/1/2018 20:51 61
27/12/2017 19:31 56	29/12/2017 20:36 57	31/12/2017 21:41 61	1/1/2018 14:46 61	2/1/2018 19:51 48	4/1/2018 20:56 62
27/12/2017 19:36 58 27/12/2017 19:41 57	29/12/2017 20:41 57 29/12/2017 20:46 56	31/12/2017 21:46 61 31/12/2017 21:51 56	1/1/2018 14:56 61	2/1/2018 20:01 56	4/1/2018 21:06 61
27/12/2017 19:46 56	29/12/2017 20:51 61	31/12/2017 21:56 55	1/1/2018 15:01 56	2/1/2018 20:06 52	4/1/2018 21:11 60
27/12/2017 19:51 56	29/12/2017 20:56 61	31/12/2017 22:01 39	1/1/2018 15:06 53	2/1/2018 20:11 42	4/1/2018 21:16 60
27/12/2017 19:56 56	29/12/2017 21:01 55	31/12/2017 22:06 61	1/1/2018 15:11 57	2/1/2018 20:16 47	4/1/2018 21:21 61
27/12/2017 20:01 58	29/12/2017 21:06 56	31/12/2017 22:11 64	1/1/2018 15:16 61	2/1/2018 20:21 61	4/1/2018 21:26 61
27/12/2017 20:06 50	29/12/2017 21:11 62	31/12/2017 22:16 61	1/1/2018 15:21 61	2/1/2018 20:26 61	4/1/2018 21:31 61
27/12/2017 20:11 53	29/12/2017 21:16 62	31/12/2017 22:21 61	1/1/2018 15:26 51	2/1/2018 20:31 56	4/1/2018 21:36 60 4/1/2018 21:41 45
27/12/2017 20:16 57 27/12/2017 20:21 48	29/12/2017 21:21 61 29/12/2017 21:26 61	31/12/2017 22:26 61 31/12/2017 22:31 61	1/1/2018 15:36 53	2/1/2018 20:41 62	4/1/2018 21:46 61
27/12/2017 20:26 46	29/12/2017 21:31 61	31/12/2017 22:36 61	1/1/2018 15:41 54	2/1/2018 20:46 49	4/1/2018 21:51 61
27/12/2017 20:31 61	29/12/2017 21:36 62	31/12/2017 22:41 60	1/1/2018 15:46 62	2/1/2018 20:51 54	4/1/2018 21:56 62
27/12/2017 20:36 51	29/12/2017 21:41 61	31/12/2017 22:46 60	1/1/2018 15:51 61	2/1/2018 20:56 48	4/1/2018 22:01 62
27/12/2017 20:41 61	29/12/2017 21:46 61	31/12/2017 22:51 61	1/1/2018 15:56 61	2/1/2018 21:01 62	4/1/2018 22:06 60
27/12/2017 20:46 39	29/12/2017 21:51 61	31/12/2017 22:56 61	1/1/2018 16:01 61	2/1/2018 21:06 61	4/1/2018 22:11 46
27/12/2017 20:51 61	29/12/2017 21:56 61	1/1/2018 7:01 59	1/1/2018 16:06 50	2/1/2018 21:11 61	4/1/2018 22:16 54
27/12/2017 20:56 48	29/12/2017 22:01 55	1/1/2018 7:06 60	1/1/2018 16:11 49	2/1/2018 21:16 60	4/1/2018 22:21 51
27/12/2017 21:01 62	29/12/2017 22:06 61	1/1/2018 7:11 60	1/1/2018 16:16 61	2/1/2018 21:21 61	4/1/2018 22:26 60
27/12/2017 21:06 52	29/12/2017 22:11 61	1/1/2018 7:16 60	1/1/2018 16:21 51	2/1/2018 21:26 60	4/1/2018 22:31 60
27/12/2017 21:11 61	29/12/2017 22:16 49	1/1/2018 7:21 60	1/1/2018 16:26 50	2/1/2018 21:31 60	4/1/2018 22:36 59
27/12/2017 21:16 61	29/12/2017 22:21 57	1/1/2018 7:26 61	1/1/2018 16:31 61	2/1/2018 21:36 61	4/1/2018 22:41 60 4/1/2018 22:46 59
27/12/2017 21:21 61	29/12/2017 22:26 62	1/1/2018 7:31 60	1/1/2018 16:36 61	2/1/2018 21:41 60	4/1/2018 22:51 61
27/12/2017 21:26 62	29/12/2017 22:31 61	1/1/2018 7:36 60	1/1/2018 16:41 61	2/1/2018 21:46 60	
27/12/2017 21:31 61	29/12/2017 22:36 61	1/1/2018 7:41 60	1/1/2018 16:46 56	2/1/2018 21:51 54	4/1/2018 22:56 60
27/12/2017 21:36 61	29/12/2017 22:41 62	1/1/2018 7:46 62	1/1/2018 16:51 59	2/1/2018 21:56 61	5/1/2018 19:01 60
27/12/2017 21:41 61	29/12/2017 22:46 48	1/1/2018 7:51 60	1/1/2018 16:56 58	2/1/2018 22:01 61	5/1/2018 19:06 61
27/12/2017 21:46 61	29/12/2017 22:51 61	1/1/2018 7:56 61	1/1/2018 17:01 53	2/1/2018 22:06 61	5/1/2018 19:11 52
27/12/2017 21:51 61	29/12/2017 22:56 66	1/1/2018 8:01 61	1/1/2018 17:06 57	2/1/2018 22:11 61	5/1/2018 19:16 60
27/12/2017 21:56 52	30/12/2017 19:01 48	1/1/2018 8:06 51	1/1/2018 17:11 61	2/1/2018 22:16 60	5/1/2018 19:21 60
27/12/2017 22:01 60	30/12/2017 19:06 62	1/1/2018 8:11 62	1/1/2018 17:16 54	2/1/2018 22:21 49	5/1/2018 19:26 60
27/12/2017 22:06 61	30/12/2017 19:11 61	1/1/2018 8:16 62	1/1/2018 17:21 61	2/1/2018 22:26 58	5/1/2018 19:31 60
27/12/2017 22:11 43	30/12/2017 19:16 62	1/1/2018 8:21 47	1/1/2018 17:26 61	2/1/2018 22:31 60	5/1/2018 19:36 60
27/12/2017 22:16 60	30/12/2017 19:21 61	1/1/2018 8:26 62	1/1/2018 17:31 62	2/1/2018 22:36 44	5/1/2018 19:41 60
27/12/2017 22:21 61	30/12/2017 19:26 61	1/1/2018 8:31 61	1/1/2018 17:36 48	2/1/2018 22:41 60	5/1/2018 19:46 60
27/12/2017 22:26 61	30/12/2017 19:31 43	1/1/2018 8:36 42	1/1/2018 17:41 60	2/1/2018 22:46 62	5/1/2018 19:51 59
27/12/2017 22:31 50	30/12/2017 19:36 61	1/1/2018 8:41 54	1/1/2018 17:46 61	2/1/2018 22:51 55	5/1/2018 19:56 60
27/12/2017 22:36 61	30/12/2017 19:41 54	1/1/2018 8:46 61	1/1/2018 17:51 62	2/1/2018 22:56 60	5/1/2018 20:01 60
27/12/2017 22:41 58	30/12/2017 19:46 48	1/1/2018 8:51 61	1/1/2018 17:56 61	3/1/2018 19:01 61	5/1/2018 20:06 60
27/12/2017 22:46 62	30/12/2017 19:51 48	1/1/2018 8:56 58	1/1/2018 18:01 57	3/1/2018 19:06 59	5/1/2018 20:11 61
27/12/2017 22:51 56	30/12/2017 19:56 61	1/1/2018 9:01 61	1/1/2018 18:06 62	3/1/2018 19:11 57	5/1/2018 20:16 61
27/12/2017 22:56 61	30/12/2017 20:01 61	1/1/2018 9:06 62	1/1/2018 18:11 61	3/1/2018 19:16 56	5/1/2018 20:21 61
28/12/2017 19:01 55	30/12/2017 20:06 61	1/1/2018 9:11 49	1/1/2018 18:16 61	3/1/2018 19:21 58	5/1/2018 20:26 60
28/12/2017 19:06 60	30/12/2017 20:11 61	1/1/2018 9:16 60	1/1/2018 18:21 60	3/1/2018 19:26 53	5/1/2018 20:31 62
28/12/2017 19:11 59	30/12/2017 20:16 62	1/1/2018 9:21 46	1/1/2018 18:26 62	3/1/2018 19:31 58	5/1/2018 20:36 60
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28/12/2017 21:16 61	30/12/2017 22:21 62	1/1/2018 11:26 48	1/1/2018 20:31 60	3/1/2018 21:36 61	5/1/2018 22:41 61
28/12/2017 21:21 60	30/12/2017 22:26 52	1/1/2018 11:31 61	1/1/2018 20:36 59	3/1/2018 21:41 62	5/1/2018 22:46 60
28/12/2017 21:26 60	30/12/2017 22:31 61	1/1/2018 11:36 52	1/1/2018 20:41 60	3/1/2018 21:46 61	5/1/2018 22:51 59
28/12/2017 21:31 61	30/12/2017 22:36 61	1/1/2018 11:41 61	1/1/2018 20:46 61	3/1/2018 21:51 61	5/1/2018 22:56 55
28/12/2017 21:36 61	30/12/2017 22:41 60	1/1/2018 11:46 61	1/1/2018 20:51 61	3/1/2018 21:56 53	6/1/2018 19:01 61
28/12/2017 21:41 61	30/12/2017 22:46 58	1/1/2018 11:51 62	1/1/2018 20:56 61	3/1/2018 22:01 50	6/1/2018 19:06 62
28/12/2017 21:46 61	30/12/2017 22:51 62	1/1/2018 11:56 61	1/1/2018 21:01 61	3/1/2018 22:06 51	6/1/2018 19:11 61
28/12/2017 21:51 56	30/12/2017 22:56 40	1/1/2018 12:01 61	1/1/2018 21:06 61	3/1/2018 22:11 49	6/1/2018 19:16 61
28/12/2017 21:56 61	31/12/2017 19:01 57	1/1/2018 12:06 61	1/1/2018 21:11 61	3/1/2018 22:16 62	6/1/2018 19:21 53
28/12/2017 22:01 62	31/12/2017 19:06 62	1/1/2018 12:11 61	1/1/2018 21:16 60	3/1/2018 22:21 61	6/1/2018 19:26 61
28/12/2017 22:06 61	31/12/2017 19:11 47	1/1/2018 12:16 61	1/1/2018 21:21 60	3/1/2018 22:26 62	6/1/2018 19:31 61
28/12/2017 22:11 61	31/12/2017 19:16 54	1/1/2018 12:21 61	1/1/2018 21:26 60	3/1/2018 22:31 51	6/1/2018 19:36 56
28/12/2017 22:16 61	31/12/2017 19:21 49	1/1/2018 12:26 62	1/1/2018 21:31 61	3/1/2018 22:36 60	6/1/2018 19:41 62
28/12/2017 22:21 51	31/12/2017 19:26 53	1/1/2018 12:31 62	1/1/2018 21:36 61	3/1/2018 22:41 60	6/1/2018 19:46 61
28/12/2017 22:26 43	31/12/2017 19:31 54	1/1/2018 12:36 61	1/1/2018 21:41 60	3/1/2018 22:46 61	6/1/2018 19:51 61
28/12/2017 22:31 62	31/12/2017 19:36 61	1/1/2018 12:41 58	1/1/2018 21:46 61	3/1/2018 22:51 62	6/1/2018 19:56 61
28/12/2017 22:36 45	31/12/2017 19:41 62	1/1/2018 12:46 46 1/1/2018 12:51 56	1/1/2018 21:51 60	3/1/2018 22:56 60 4/1/2018 19:01 58	6/1/2018 20:01 61
28/12/2017 22:41 61 28/12/2017 22:46 60	31/12/2017 19:46 62 31/12/2017 19:51 51	1/1/2018 12:56 56	1/1/2018 22:01 63	4/1/2018 19:06 52	6/1/2018 20:11 61
28/12/2017 22:51 61	31/12/2017 19:56 61	1/1/2018 13:01 61	1/1/2018 22:06 61	4/1/2018 19:11 55	6/1/2018 20:16 62
28/12/2017 22:56 60	31/12/2017 20:01 62	1/1/2018 13:06 61	1/1/2018 22:11 60	4/1/2018 19:16 66	6/1/2018 20:21 60
29/12/2017 19:01 60	31/12/2017 20:06 62	1/1/2018 13:11 62	1/1/2018 22:16 61	4/1/2018 19:21 57	6/1/2018 20:26 61
29/12/2017 19:06 56	31/12/2017 20:11 54	1/1/2018 13:16 51	1/1/2018 22:21 60	4/1/2018 19:26 59	6/1/2018 20:31 61
29/12/2017 19:11 60	31/12/2017 20:16 40	1/1/2018 13:21 62	1/1/2018 22:26 58	4/1/2018 19:31 52	6/1/2018 20:36 47
29/12/2017 19:16 65	31/12/2017 20:21 60	1/1/2018 13:26 61	1/1/2018 22:31 60	4/1/2018 19:36 45	6/1/2018 20:41 61
29/12/2017 19:21 58	31/12/2017 20:26 61	1/1/2018 13:31 62	1/1/2018 22:36 59	4/1/2018 19:41 56	6/1/2018 20:46 62
29/12/2017 19:26 60	31/12/2017 20:31 61	1/1/2018 13:36 56	1/1/2018 22:41 61	4/1/2018 19:46 59	6/1/2018 20:51 61
29/12/2017 19:31 54	31/12/2017 20:36 62	1/1/2018 13:41 62	1/1/2018 22:46 59	4/1/2018 19:51 49	6/1/2018 20:56 61
29/12/2017 19:36 59	31/12/2017 20:41 58	1/1/2018 13:46 62	1/1/2018 22:51 62	4/1/2018 19:56 54	6/1/2018 21:01 60
29/12/2017 19:41 60	31/12/2017 20:46 57	1/1/2018 13:51 60	1/1/2018 22:56 59	4/1/2018 20:01 50	6/1/2018 21:06 61

Company	Real-time Noise Data	RTN2a (Hong Kong Electric Cen				
	6/1/2018 21:11 50 6/1/2018 21:16 60	7/1/2018 14:16 52 7/1/2018 14:21 66	8/1/2018 19:21 62 8/1/2018 19:26 40	10/1/2018 20:26 49 10/1/2018 20:31 61	12/1/2018 21:31 61 12/1/2018 21:36 61	14/1/2018 10:36 57 14/1/2018 10:41 46
STATE   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.	6/1/2018 21:31 61	7/1/2018 14:36 52	8/1/2018 19:41 48	10/1/2018 20:46 61	12/1/2018 21:51 61	14/1/2018 10:56 59
9 1200 921 92 92 92 92 92 92 92 92 92 92 92 92 92						
STATE   STAT	6/1/2018 21:56 47	7/1/2018 15:01 62	8/1/2018 20:06 53	10/1/2018 21:11 60	12/1/2018 22:16 58	14/1/2018 11:21 54
STATE   12.50   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00						
STATES   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25   1.25	6/1/2018 22:11 62	7/1/2018 15:16 56	8/1/2018 20:21 53	10/1/2018 21:26 57	12/1/2018 22:31 61	14/1/2018 11:36 51
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	6/1/2018 22:36 61	7/1/2018 15:41 61	8/1/2018 20:46 61	10/1/2018 21:51 61	12/1/2018 22:56 61	
6 1/2016 2.256 6 1 1/2016 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6/1/2018 22:46 60	7/1/2018 15:51 61	8/1/2018 20:56 61	10/1/2018 22:01 61	13/1/2018 19:06 61	14/1/2018 12:11 61
71/10316 7-11   50						
27/2016 12-73   61	7/1/2018 7:11 55	7/1/2018 16:16 43	8/1/2018 21:21 62	10/1/2018 22:26 61	13/1/2018 19:31 61	14/1/2018 12:36 40
7/12/10/12/13/13/13/13/13/13/13/13/13/13/13/13/13/						
						14/1/2018 12:51 61
	7/1/2018 7:36 61	7/1/2018 16:41 56	8/1/2018 21:46 61	10/1/2018 22:51 61	13/1/2018 19:56 60	14/1/2018 13:01 56
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Real-time Noise Data	RTN2a (Hong Kong Electric Cen		•	•	
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16/1/2018 19:41 58	18/1/2018 20:46 59	20/1/2018 21:51 61	21/1/2018 14:56 54	22/1/2018 20:01 61	24/1/2018 21:06 62
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16/1/2018 19:56 51	18/1/2018 21:01 60	20/1/2018 22:06 62	21/1/2018 15:11 57	22/1/2018 20:16 57	24/1/2018 21:21 61
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16/1/2018 20:31 54	18/1/2018 21:36 60	20/1/2018 22:41 61	21/1/2018 15:46 61	22/1/2018 20:51 39	24/1/2018 21:56 61
16/1/2018 20:36 61	18/1/2018 21:41 59	20/1/2018 22:46 61	21/1/2018 15:51 61	22/1/2018 20:56 62	24/1/2018 22:01 61
16/1/2018 20:41 62	18/1/2018 21:46 62	20/1/2018 22:51 61	21/1/2018 15:56 61	22/1/2018 21:01 61	24/1/2018 22:06 65

Real-time Noise Data	RTN2a (Hong Kong Electric Centre	<u>)</u>			
24/1/2018 22:11 62 24/1/2018 22:16 62	Night time: 23:00-07:00	28/12/2017 0:56 52 28/12/2017 1:01 48	29/12/2017 2:01 52 29/12/2017 2:06 57	30/12/2017 3:06 43 30/12/2017 3:11 48	31/12/2017 4:11 58 31/12/2017 4:16 58
24/1/2018 22:21 61	27/12/2017 0:01 52	28/12/2017 1:06 48	29/12/2017 2:11 57	30/12/2017 3:16 58	31/12/2017 4:21 38
24/1/2018 22:26 62 24/1/2018 22:31 60	27/12/2017 0:06 51 27/12/2017 0:11 50	28/12/2017 1:11 48 28/12/2017 1:16 49	29/12/2017 2:16 57 29/12/2017 2:21 57	30/12/2017 3:21 58 30/12/2017 3:26 58	31/12/2017 4:26 58 31/12/2017 4:31 58
24/1/2018 22:36 61	27/12/2017 0:11 50 27/12/2017 0:16 50	28/12/2017 1:16 49 28/12/2017 1:21 48	29/12/2017 2:26 57	30/12/2017 3:20 36 30/12/2017 3:31 45	31/12/2017 4:36 50
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24/1/2018 22:46 51 24/1/2018 22:51 61	27/12/2017 0:26 47 27/12/2017 0:31 42	28/12/2017 1:31 50 28/12/2017 1:36 50	29/12/2017 2:36 57 29/12/2017 2:41 58	30/12/2017 3:41 58 30/12/2017 3:46 45	31/12/2017 4:46 51 31/12/2017 4:51 50
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25/1/2018 20:16 61 25/1/2018 20:21 62	27/12/2017 1:56 57 27/12/2017 2:01 39	28/12/2017 3:01 58 28/12/2017 3:06 58	29/12/2017 4:06 58 29/12/2017 4:11 57	30/12/2017 5:11 58 30/12/2017 5:16 58	31/12/2017 6:16 46 31/12/2017 6:21 59
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9/1/2018 4:26 58	10/1/2018 5:31 58	11/1/2018 6:36 50	12/1/2018 23:41 56	14/1/2018 0:46 52	15/1/2018 1:51 58
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9/1/2018 4:41 58	10/1/2018 5:46 57	11/1/2018 6:51 48	12/1/2018 23:56 57	14/1/2018 1:01 54	15/1/2018 2:06 58
9/1/2018 4:46 58	10/1/2018 5:51 58	11/1/2018 6:56 53	13/1/2018 0:01 56	14/1/2018 1:06 57	15/1/2018 2:11 57

Real-time Noise Data	RTN2a (Hong Kong Electric Centi	·~/			
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15/1/2018 2:41 57 15/1/2018 2:46 57	16/1/2018 3:46 58 16/1/2018 3:51 51	17/1/2018 4:51 48 17/1/2018 4:56 54	18/1/2018 5:56 58 18/1/2018 6:01 49	19/1/2018 23:01 56 19/1/2018 23:06 58	21/1/2018 0:06 50 21/1/2018 0:11 53
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15/1/2018 3:06 57	16/1/2018 4:06 57	17/1/2018 5:11 50	18/1/2018 6:16 55 18/1/2018 6:21 51	19/1/2018 23:21 53	21/1/2018 0:20 56
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15/1/2018 4:36 57	16/1/2018 5:41 41	17/1/2018 6:46 55	18/1/2018 23:51 57	20/1/2018 0:56 56	21/1/2018 2:01 58
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15/1/2018 4:56 58	16/1/2018 6:01 57	17/1/2018 23:06 58	19/1/2018 0:11 57	20/1/2018 1:16 57	21/1/2018 2:21 58
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15/1/2018 5:11 58	16/1/2018 6:16 48	17/1/2018 23:21 59	19/1/2018 0:26 55	20/1/2018 1:31 54	21/1/2018 2:36 58
15/1/2018 5:16 58 15/1/2018 5:21 58	16/1/2018 6:21 48 16/1/2018 6:26 56	17/1/2018 23:26 56 17/1/2018 23:31 58	19/1/2018 0:31 55 19/1/2018 0:36 54	20/1/2018 1:36 56 20/1/2018 1:41 55	21/1/2018 2:41 58 21/1/2018 2:46 58
15/1/2018 5:26 58	16/1/2018 6:31 46	17/1/2018 23:36 55	19/1/2018 0:41 62	20/1/2018 1:46 55	21/1/2018 2:51 57
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15/1/2018 5:36 58 15/1/2018 5:41 53	16/1/2018 6:41 53 16/1/2018 6:46 52	17/1/2018 23:51 55	19/1/2018 0:51 53	20/1/2018 1:36 54 20/1/2018 2:01 55	21/1/2018 3:06 58
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15/1/2018 6:26 53 15/1/2018 6:31 53	16/1/2018 23:36 56	18/1/2018 0:36 53 18/1/2018 0:41 61	19/1/2018 1:46 52	20/1/2018 2:46 50 20/1/2018 2:51 52	21/1/2018 3:56 57
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15/1/2018 23:11 57 15/1/2018 23:16 57	17/1/2018 0:16 57 17/1/2018 0:21 56	18/1/2018 1:21 51 18/1/2018 1:26 59	19/1/2018 2:26 47 19/1/2018 2:31 53	20/1/2018 3:31 48 20/1/2018 3:36 58	21/1/2018 4:36 58 21/1/2018 4:41 41
15/1/2018 23:21 57	17/1/2018 0:26 57	18/1/2018 1:31 54	19/1/2018 2:36 51	20/1/2018 3:41 51	21/1/2018 4:46 58
15/1/2018 23:26 57 15/1/2018 23:31 56	17/1/2018 0:31 58 17/1/2018 0:36 55	18/1/2018 1:36 54 18/1/2018 1:41 58	19/1/2018 2:41 52 19/1/2018 2:46 50	20/1/2018 3:46 51 20/1/2018 3:51 47	21/1/2018 4:51 56 21/1/2018 4:56 57
15/1/2018 23:36 56	17/1/2018 0:30 55	18/1/2018 1:46 39	19/1/2018 2:51 57	20/1/2018 3:56 58	21/1/2018 5:01 57
15/1/2018 23:41 55	17/1/2018 0:46 53	18/1/2018 1:51 58 18/1/2018 1:56 51	19/1/2018 2:56 51	20/1/2018 4:01 52	21/1/2018 5:06 38
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15/1/2018 23:56 57	17/1/2018 1:01 56	18/1/2018 2:06 51	19/1/2018 3:11 49	20/1/2018 4:16 65	21/1/2018 5:21 56
16/1/2018 0:01 52 16/1/2018 0:06 55	17/1/2018 1:06 55 17/1/2018 1:11 57	18/1/2018 2:11 58 18/1/2018 2:16 58	19/1/2018 3:16 49 19/1/2018 3:21 57	20/1/2018 4:21 52 20/1/2018 4:26 54	21/1/2018 5:26 58 21/1/2018 5:31 48
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16/1/2018 1:01 54	17/1/2018 2:06 52	18/1/2018 3:11 57	19/1/2018 4:16 57	20/1/2018 5:21 50	21/1/2018 6:26 58
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16/1/2018 1:21 49	17/1/2018 2:26 54	18/1/2018 3:31 51	19/1/2018 4:36 48	20/1/2018 5:41 57	21/1/2018 6:46 53
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16/1/2018 1:36 47	17/1/2018 2:41 51	18/1/2018 3:46 58	19/1/2018 4:51 49	20/1/2018 5:56 50	21/1/2018 23:01 53
16/1/2018 1:41 51 16/1/2018 1:46 55	17/1/2018 2:46 52 17/1/2018 2:51 52	18/1/2018 3:51 43 18/1/2018 3:56 58	19/1/2018 4:56 49 19/1/2018 5:01 52	20/1/2018 6:01 58 20/1/2018 6:06 55	21/1/2018 23:06 55 21/1/2018 23:11 60
16/1/2018 1:51 54	17/1/2018 2:56 56	18/1/2018 4:01 57	19/1/2018 5:06 52	20/1/2018 6:11 56	21/1/2018 23:16 58
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16/1/2018 2:01 48 16/1/2018 2:06 55	17/1/2018 3:06 46 17/1/2018 3:11 54	18/1/2018 4:11 50 18/1/2018 4:16 47	19/1/2018 5:16 53 19/1/2018 5:21 57	20/1/2018 6:21 60 20/1/2018 6:26 63	21/1/2018 23:31 49
16/1/2018 2:11 54	17/1/2018 3:16 58	18/1/2018 4:21 58	19/1/2018 5:26 58	20/1/2018 6:31 52	21/1/2018 23:36 50
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16/1/2018 2:46 58 16/1/2018 2:51 49	17/1/2018 3:51 47 17/1/2018 3:56 54	18/1/2018 4:56 53 18/1/2018 5:01 49	19/1/2018 6:01 53 19/1/2018 6:06 54	20/1/2018 23:06 57 20/1/2018 23:11 57	22/1/2018 0:11 56 22/1/2018 0:16 52
16/1/2018 2:56 49	17/1/2018 4:01 54	18/1/2018 5:06 44	19/1/2018 6:11 56	20/1/2018 23:16 55	22/1/2018 0:21 58
16/1/2018 3:01 42 16/1/2018 3:06 58	17/1/2018 4:06 58 17/1/2018 4:11 54	18/1/2018 5:11 51 18/1/2018 5:16 58	19/1/2018 6:16 35 19/1/2018 6:21 57	20/1/2018 23:21 56 20/1/2018 23:26 55	22/1/2018 0:26 58 22/1/2018 0:31 58
16/1/2018 3:11 58	17/1/2018 4:16 58	18/1/2018 5:21 52	19/1/2018 6:26 55	20/1/2018 23:31 60	22/1/2018 0:36 51
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Real-time Noise Data 22/1/2018 0:46 48	RTN2a (Hong Kong Electric Cent 23/1/2018 1:51 58	re) 24/1/2018 2:56 46	25/1/2018 4:01 48	26/1/2018 5:06 58
22/1/2018 0:51 58	23/1/2018 1:56 57	24/1/2018 3:01 40	25/1/2018 4:06 58	26/1/2018 5:11 57
22/1/2018 0:56 42 22/1/2018 1:01 42	23/1/2018 2:01 57 23/1/2018 2:06 49	24/1/2018 3:06 53 24/1/2018 3:11 58	25/1/2018 4:11 58 25/1/2018 4:16 57	26/1/2018 5:16 58 26/1/2018 5:21 49
22/1/2018 1:06 46	23/1/2018 2:11 48	24/1/2018 3:16 57	25/1/2018 4:21 58	26/1/2018 5:26 58
22/1/2018 1:11 58 22/1/2018 1:16 48	23/1/2018 2:16 57 23/1/2018 2:21 58	24/1/2018 3:21 58 24/1/2018 3:26 58	25/1/2018 4:26 57 25/1/2018 4:31 57	26/1/2018 5:31 57 26/1/2018 5:36 57
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22/1/2018 1:41 51	23/1/2018 2:46 57	24/1/2018 3:51 47	25/1/2018 4:56 58	26/1/2018 6:01 54
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22/1/2018 2:01 37 22/1/2018 2:06 58	23/1/2018 3:06 58 23/1/2018 3:11 57	24/1/2018 4:11 52 24/1/2018 4:16 58	25/1/2018 5:16 58 25/1/2018 5:21 58	26/1/2018 6:21 51 26/1/2018 6:26 53
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Deal time Naise Date	DTNO (De Lever Kult Voller Me	For Monagial Cabool)			
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27/12/2017 9:31 57	31/12/2017 16:01 69	6/1/2018 10:31 69	11/1/2018 17:01 69	17/1/2018 11:31 69	22/1/2018 18:01 59
27/12/2017 10:01 61 27/12/2017 10:31 62	31/12/2017 16:31 69 31/12/2017 17:01 69	6/1/2018 11:01 53 6/1/2018 11:31 65	11/1/2018 17:31 69 11/1/2018 18:01 69	17/1/2018 12:01 69 17/1/2018 12:31 69	22/1/2018 18:31 70 23/1/2018 7:01 53
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Sunday & Holiday	29/12/2017 19:51 65	31/12/2017 20:56 63	1/1/2018 14:01 64	2/1/2018 19:06 65	4/1/2018 20:11 65
07:00-23:00	29/12/2017 19:56 63	31/12/2017 21:01 60	1/1/2018 14:06 66	2/1/2018 19:11 67	4/1/2018 20:16 66
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27/12/2017 19:01 65	29/12/2017 20:06 65	31/12/2017 21:11 62	1/1/2018 14:16 63	2/1/2018 19:21 65	4/1/2018 20:26 65
27/12/2017 19:06 65	29/12/2017 20:11 65	31/12/2017 21:16 62	1/1/2018 14:21 64	2/1/2018 19:26 66	4/1/2018 20:31 63
27/12/2017 19:11 66	29/12/2017 20:16 65	31/12/2017 21:21 63	1/1/2018 14:26 65	2/1/2018 19:31 65	4/1/2018 20:36 65
27/12/2017 19:16 67	29/12/2017 20:21 66	31/12/2017 21:26 63	1/1/2018 14:31 66	2/1/2018 19:36 67	4/1/2018 20:41 65
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27/12/2017 19:31 65	29/12/2017 20:36 65	31/12/2017 21:41 65	1/1/2018 14:46 64	2/1/2018 19:51 64	4/1/2018 20:56 63
27/12/2017 19:36 66	29/12/2017 20:41 66	31/12/2017 21:46 64	1/1/2018 14:51 64	2/1/2018 19:56 65	4/1/2018 21:01 67
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27/12/2017 19:51 63	29/12/2017 20:56 64	31/12/2017 21:56 64 31/12/2017 22:01 65	1/1/2018 15:01 64 1/1/2018 15:06 65	2/1/2018 20:06 65 2/1/2018 20:11 64	4/1/2018 21:16 64
27/12/2017 19:56 65	29/12/2017 21:01 62	31/12/2017 22:06 64	1/1/2018 15:11 66	2/1/2018 20:16 65	4/1/2018 21:21 65
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27/12/2017 20:06 65	29/12/2017 21:11 65	31/12/2017 22:16 68	1/1/2018 15:21 64	2/1/2018 20:26 64	4/1/2018 21:31 65
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27/12/2017 20:56 62	29/12/2017 22:01 66	1/1/2018 7:06 66	1/1/2018 16:11 63	2/1/2018 21:16 62	4/1/2018 22:21 65
27/12/2017 21:01 62	29/12/2017 22:06 65	1/1/2018 7:11 56	1/1/2018 16:16 65	2/1/2018 21:21 65	4/1/2018 22:26 65
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27/12/2017 21:11 63	29/12/2017 22:16 63	1/1/2018 7:21 54	1/1/2018 16:26 64	2/1/2018 21:31 64	4/1/2018 22:36 62
27/12/2017 21:16 62	29/12/2017 22:21 64	1/1/2018 7:26 61	1/1/2018 16:31 66	2/1/2018 21:36 63	4/1/2018 22:41 64
27/12/2017 21:21 61	29/12/2017 22:26 66	1/1/2018 7:31 56	1/1/2018 16:36 65	2/1/2018 21:41 64	4/1/2018 22:46 62
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27/12/2017 21:31 60	29/12/2017 22:36 65	1/1/2018 7:41 60	1/1/2018 16:46 64	2/1/2018 21:51 63	4/1/2018 22:56 64
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27/12/2017 21:41 64	29/12/2017 22:46 66	1/1/2018 7:51 61	1/1/2018 16:56 67	2/1/2018 22:01 64	5/1/2018 19:06 65
27/12/2017 21:46 61	29/12/2017 22:51 64	1/1/2018 7:56 59	1/1/2018 17:01 66	2/1/2018 22:06 64	5/1/2018 19:11 65
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29/12/2017 19:41 65	31/12/2017 20:46 63	1/1/2018 13:51 68	1/1/2018 22:56 63	4/1/2018 20:01 65	6/1/2018 21:06 66

Real-time Noise Data	RTN3 (Po Leung Kuk Yu Lee Mo		•	•	
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Real-time Noise Data	RTN3 (Po Leung Kuk Yu Lee Mo		1	1	
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14/1/2018 19:51 63	16/1/2018 20:56 64	18/1/2018 22:01 64	21/1/2018 7:06 54	21/1/2018 16:11 65	22/1/2018 21:16 65
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14/1/2018 20:01 63	16/1/2018 21:06 65	18/1/2018 22:11 66	21/1/2018 7:16 57	21/1/2018 16:21 69	22/1/2018 21:26 64
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16/1/2018 19:36 64	18/1/2018 20:41 64	20/1/2018 21:46 65	21/1/2018 14:51 66	22/1/2018 19:56 66	24/1/2018 21:01 65
16/1/2018 19:41 65	18/1/2018 20:46 65	20/1/2018 21:51 64	21/1/2018 14:56 67	22/1/2018 20:01 66	24/1/2018 21:06 65
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16/1/2018 19:51 64	18/1/2018 20:56 64	20/1/2018 22:01 63	21/1/2018 15:06 66	22/1/2018 20:11 66	24/1/2018 21:16 66
16/1/2018 19:56 64	18/1/2018 21:01 64	20/1/2018 22:06 65	21/1/2018 15:11 65	22/1/2018 20:16 65	24/1/2018 21:21 64
16/1/2018 20:01 64	18/1/2018 21:06 63	20/1/2018 22:11 64	21/1/2018 15:16 70	22/1/2018 20:21 65	24/1/2018 21:26 65
16/1/2018 20:06 64	18/1/2018 21:11 64	20/1/2018 22:16 64	21/1/2018 15:21 67	22/1/2018 20:26 65	24/1/2018 21:31 66
16/1/2018 20:11 64	18/1/2018 21:16 64	20/1/2018 22:21 65	21/1/2018 15:26 66	22/1/2018 20:31 66	24/1/2018 21:36 66
16/1/2018 20:16 64	18/1/2018 21:21 67	20/1/2018 22:26 65	21/1/2018 15:31 66	22/1/2018 20:36 66	24/1/2018 21:41 66
16/1/2018 20:21 64	18/1/2018 21:26 63	20/1/2018 22:31 64	21/1/2018 15:36 64	22/1/2018 20:41 65	24/1/2018 21:46 67
16/1/2018 20:26 65	18/1/2018 21:31 64	20/1/2018 22:36 66	21/1/2018 15:41 65	22/1/2018 20:46 66	24/1/2018 21:51 65
16/1/2018 20:31 66	18/1/2018 21:36 66	20/1/2018 22:41 65	21/1/2018 15:46 65	22/1/2018 20:51 66	24/1/2018 21:56 65
16/1/2018 20:36 63	18/1/2018 21:41 65	20/1/2018 22:46 65	21/1/2018 15:51 65	22/1/2018 20:56 64	24/1/2018 22:01 66
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Real-time Noise Data	RTN3 (Po Leung Kuk Yu Lee Mo F				
24/1/2018 22:11 69	Night time: 23:00-07:00	28/12/2017 0:56 63	29/12/2017 2:01 62	30/12/2017 3:06 64	31/12/2017 4:11 59
24/1/2018 22:16 66		28/12/2017 1:01 63	29/12/2017 2:06 58	30/12/2017 3:11 61	31/12/2017 4:16 60
24/1/2018 22:21 66	27/12/2017 0:01 66	28/12/2017 1:06 61	29/12/2017 2:11 54	30/12/2017 3:16 61	31/12/2017 4:21 61
24/1/2018 22:26 65	27/12/2017 0:06 65	28/12/2017 1:11 63	29/12/2017 2:16 59	30/12/2017 3:21 61	31/12/2017 4:26 59
24/1/2018 22:31 66	27/12/2017 0:11 65	28/12/2017 1:16 63	29/12/2017 2:21 56	30/12/2017 3:26 61	31/12/2017 4:31 63
24/1/2018 22:36 64	27/12/2017 0:16 65	28/12/2017 1:21 61	29/12/2017 2:26 56	30/12/2017 3:31 62	31/12/2017 4:36 59
24/1/2018 22:41 66	27/12/2017 0:21 64	28/12/2017 1:26 61	29/12/2017 2:31 55	30/12/2017 3:36 62	31/12/2017 4:41 55
24/1/2018 22:46 69	27/12/2017 0:26 65	28/12/2017 1:31 60	29/12/2017 2:36 63	30/12/2017 3:41 62	31/12/2017 4:41 55
24/1/2018 22:51 66	27/12/2017 0:31 63	28/12/2017 1:36 58	29/12/2017 2:41 53	30/12/2017 3:46 59	31/12/2017 4:51 51
24/1/2018 22:56 65	27/12/2017 0:36 62	28/12/2017 1:41 61	29/12/2017 2:46 60	30/12/2017 3:51 57	31/12/2017 4:56 51
25/1/2018 19:01 66	27/12/2017 0:41 62	28/12/2017 1:46 60	29/12/2017 2:51 48	30/12/2017 3:56 58	31/12/2017 5:01 49
25/1/2018 19:06 66	27/12/2017 0:46 62	28/12/2017 1:51 62	29/12/2017 2:56 57	30/12/2017 4:01 58	31/12/2017 5:06 58
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25/1/2018 20:31 64	27/12/2017 2:11 54	28/12/2017 3:16 63	29/12/2017 4:21 52	30/12/2017 5:26 55	31/12/2017 6:31 61
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16/1/2018 2:36 62	17/1/2018 3:41 61	18/1/2018 4:46 62	19/1/2018 5:51 60	20/1/2018 6:56 66	22/1/2018 0:01 65
16/1/2018 2:41 61	17/1/2018 3:46 61	18/1/2018 4:51 63	19/1/2018 5:56 60	20/1/2018 23:01 67	22/1/2018 0:06 63
16/1/2018 2:46 61	17/1/2018 3:51 62	18/1/2018 4:56 62	19/1/2018 6:01 61	20/1/2018 23:06 67	22/1/2018 0:11 63
16/1/2018 2:51 61	17/1/2018 3:56 63	18/1/2018 5:01 63	19/1/2018 6:06 62	20/1/2018 23:11 66	22/1/2018 0:16 64
16/1/2018 2:56 60	17/1/2018 4:01 62	18/1/2018 5:06 55	19/1/2018 6:11 63	20/1/2018 23:16 66	22/1/2018 0:21 64
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16/1/2018 3:06 60	17/1/2018 4:11 62	18/1/2018 5:16 63	19/1/2018 6:21 64	20/1/2018 23:26 65	22/1/2018 0:31 61
16/1/2018 3:11 61	17/1/2018 4:16 62	18/1/2018 5:21 50	19/1/2018 6:26 64	20/1/2018 23:31 66	22/1/2018 0:36 59
16/1/2018 3:16 60	17/1/2018 4:21 63	18/1/2018 5:26 55	19/1/2018 6:31 65	20/1/2018 23:36 66	22/1/2018 0:41 61

Deal time Naine Date	DTNO (De Leure Kult Vol. Lee Me	For Monarial Calcall		
Real-time Noise Data 22/1/2018 0:46 61	23/1/2018 1:51 62	24/1/2018 2:56 61	25/1/2018 4:01 50	26/1/2018 5:06 62
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22/1/2018 0:56 56 22/1/2018 1:01 48	23/1/2018 2:01 62 23/1/2018 2:06 62	24/1/2018 3:06 60 24/1/2018 3:11 61	25/1/2018 4:11 61 25/1/2018 4:16 62	26/1/2018 5:16 56 26/1/2018 5:21 63
22/1/2018 1:06 63	23/1/2018 2:11 62	24/1/2018 3:16 61	25/1/2018 4:21 63	26/1/2018 5:26 61
22/1/2018 1:11 63 22/1/2018 1:16 48	23/1/2018 2:16 61 23/1/2018 2:21 61	24/1/2018 3:21 61 24/1/2018 3:26 61	25/1/2018 4:26 55 25/1/2018 4:31 62	26/1/2018 5:31 52 26/1/2018 5:36 61
22/1/2018 1:21 63	23/1/2018 2:26 62	24/1/2018 3:31 62	25/1/2018 4:36 57	26/1/2018 5:41 60
22/1/2018 1:26 62 22/1/2018 1:31 62	23/1/2018 2:31 62 23/1/2018 2:36 61	24/1/2018 3:36 62 24/1/2018 3:41 62	25/1/2018 4:41 50 25/1/2018 4:46 55	26/1/2018 5:46 59 26/1/2018 5:51 61
22/1/2018 1:36 61	23/1/2018 2:41 61	24/1/2018 3:46 62	25/1/2018 4:51 63	26/1/2018 5:56 62
22/1/2018 1:41 62 22/1/2018 1:46 62	23/1/2018 2:46 60 23/1/2018 2:51 61	24/1/2018 3:51 62 24/1/2018 3:56 62	25/1/2018 4:56 54 25/1/2018 5:01 54	26/1/2018 6:01 61 26/1/2018 6:06 63
22/1/2018 1:51 61	23/1/2018 2:56 61	24/1/2018 4:01 61	25/1/2018 5:06 54	26/1/2018 6:11 63
22/1/2018 1:56 61 22/1/2018 2:01 60	23/1/2018 3:01 60 23/1/2018 3:06 60	24/1/2018 4:06 62 24/1/2018 4:11 62	25/1/2018 5:11 44 25/1/2018 5:16 52	26/1/2018 6:16 65 26/1/2018 6:21 65
22/1/2018 2:06 61	23/1/2018 3:11 61	24/1/2018 4:16 63	25/1/2018 5:21 53	26/1/2018 6:26 65
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22/1/2018 2:41 60 22/1/2018 2:46 61	23/1/2018 3:46 60 23/1/2018 3:51 62	24/1/2018 4:51 61 24/1/2018 4:56 55	25/1/2018 5:56 61 25/1/2018 6:01 59	26/1/2018 23:01 66 26/1/2018 23:06 68
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22/1/2018 3:06 60	23/1/2018 4:11 62	24/1/2018 5:16 62	25/1/2018 6:21 65	26/1/2018 23:26 67
22/1/2018 3:11 60 22/1/2018 3:16 61	23/1/2018 4:16 62 23/1/2018 4:21 52	24/1/2018 5:21 56 24/1/2018 5:26 54	25/1/2018 6:26 65 25/1/2018 6:31 66	26/1/2018 23:31 66 26/1/2018 23:36 67
22/1/2018 3:21 60	23/1/2018 4:26 62	24/1/2018 5:31 58	25/1/2018 6:36 67	26/1/2018 23:41 67
22/1/2018 3:26 59 22/1/2018 3:31 60	23/1/2018 4:31 63 23/1/2018 4:36 61	24/1/2018 5:36 61 24/1/2018 5:41 60	25/1/2018 6:41 67 25/1/2018 6:46 67	26/1/2018 23:46 66 26/1/2018 23:51 67
22/1/2018 3:36 60	23/1/2018 4:41 63	24/1/2018 5:46 60	25/1/2018 6:51 68	26/1/2018 23:56 67
22/1/2018 3:41 60 22/1/2018 3:46 61	23/1/2018 4:46 52 23/1/2018 4:51 62	24/1/2018 5:51 61 24/1/2018 5:56 62	25/1/2018 6:56 68 25/1/2018 23:01 67	
22/1/2018 3:51 60	23/1/2018 4:56 56	24/1/2018 6:01 64	25/1/2018 23:06 66	
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22/1/2018 4:06 60	23/1/2018 5:11 57	24/1/2018 6:16 65	25/1/2018 23:21 66	
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22/1/2018 4:21 61	23/1/2018 5:26 55	24/1/2018 6:31 66	25/1/2018 23:36 67	
22/1/2018 4:26 62 22/1/2018 4:31 61	23/1/2018 5:31 62 23/1/2018 5:36 54	24/1/2018 6:36 67 24/1/2018 6:41 67	25/1/2018 23:41 66 25/1/2018 23:46 65	
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22/1/2018 4:41 61 22/1/2018 4:46 60	23/1/2018 5:46 61 23/1/2018 5:51 61	24/1/2018 6:51 68 24/1/2018 6:56 68	25/1/2018 23:56 65 26/1/2018 0:01 65	
22/1/2018 4:51 61	23/1/2018 5:56 63	24/1/2018 23:01 68	26/1/2018 0:06 65	
22/1/2018 4:56 61 22/1/2018 5:01 60	23/1/2018 6:01 61 23/1/2018 6:06 62	24/1/2018 23:06 68 24/1/2018 23:11 67	26/1/2018 0:11 65 26/1/2018 0:16 65	
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22/1/2018 5:11 61 22/1/2018 5:16 62	23/1/2018 6:16 65 23/1/2018 6:21 65	24/1/2018 23:21 67 24/1/2018 23:26 67	26/1/2018 0:26 64 26/1/2018 0:31 65	
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22/1/2018 5:41 54 22/1/2018 5:46 60	23/1/2018 6:46 67 23/1/2018 6:51 68	24/1/2018 23:51 67 24/1/2018 23:56 66	26/1/2018 0:56 63 26/1/2018 1:01 61	
22/1/2018 5:51 58	23/1/2018 6:56 68	25/1/2018 0:01 66	26/1/2018 1:06 64	
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22/1/2018 6:06 64	23/1/2018 23:11 66	25/1/2018 0:16 65	26/1/2018 1:21 62	
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22/1/2018 6:21 64	23/1/2018 23:26 66	25/1/2018 0:31 66	26/1/2018 1:36 60	
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22/1/2018 6:36 66	23/1/2018 23:41 65	25/1/2018 0:46 64	26/1/2018 1:51 64	
22/1/2018 6:41 67 22/1/2018 6:46 67	23/1/2018 23:46 65 23/1/2018 23:51 65	25/1/2018 0:51 64 25/1/2018 0:56 65	26/1/2018 1:56 62 26/1/2018 2:01 58	
22/1/2018 6:51 67 22/1/2018 6:56 67	23/1/2018 23:56 66 24/1/2018 0:01 65	25/1/2018 1:01 67 25/1/2018 1:06 61	26/1/2018 2:06 56 26/1/2018 2:11 58	
22/1/2018 6:56 67 22/1/2018 23:01 66	24/1/2018 0:06 64	25/1/2018 1:06 61 25/1/2018 1:11 64	26/1/2018 2:11 58 26/1/2018 2:16 59	
22/1/2018 23:06 66 22/1/2018 23:11 66	24/1/2018 0:11 64 24/1/2018 0:16 64	25/1/2018 1:16 62 25/1/2018 1:21 63	26/1/2018 2:21 56 26/1/2018 2:26 61	
22/1/2018 23:16 66	24/1/2018 0:21 65	25/1/2018 1:26 65	26/1/2018 2:31 53	
22/1/2018 23:21 67 22/1/2018 23:26 65	24/1/2018 0:26 64 24/1/2018 0:31 64	25/1/2018 1:31 57 25/1/2018 1:36 62	26/1/2018 2:36 55 26/1/2018 2:41 48	
22/1/2018 23:31 66	24/1/2018 0:36 60	25/1/2018 1:41 62	26/1/2018 2:46 63	
22/1/2018 23:36 67 22/1/2018 23:41 65	24/1/2018 0:41 61 24/1/2018 0:46 56	25/1/2018 1:46 63 25/1/2018 1:51 60	26/1/2018 2:51 53 26/1/2018 2:56 50	
22/1/2018 23:46 65	24/1/2018 0:51 57	25/1/2018 1:56 59	26/1/2018 3:01 62	
22/1/2018 23:51 65 22/1/2018 23:56 64	24/1/2018 0:56 56 24/1/2018 1:01 51	25/1/2018 2:01 61 25/1/2018 2:06 56	26/1/2018 3:06 52 26/1/2018 3:11 56	
23/1/2018 0:01 64	24/1/2018 1:06 60	25/1/2018 2:11 55	26/1/2018 3:16 62	
23/1/2018 0:06 63 23/1/2018 0:11 63	24/1/2018 1:11 63 24/1/2018 1:16 53	25/1/2018 2:16 58 25/1/2018 2:21 60	26/1/2018 3:21 62 26/1/2018 3:26 48	
23/1/2018 0:16 63	24/1/2018 1:21 63	25/1/2018 2:26 53	26/1/2018 3:31 55	
23/1/2018 0:21 64 23/1/2018 0:26 62	24/1/2018 1:26 62 24/1/2018 1:31 62	25/1/2018 2:31 62 25/1/2018 2:36 57	26/1/2018 3:36 51 26/1/2018 3:41 62	
23/1/2018 0:31 60	24/1/2018 1:36 63	25/1/2018 2:41 56	26/1/2018 3:46 63	
23/1/2018 0:36 57 23/1/2018 0:41 59	24/1/2018 1:41 63 24/1/2018 1:46 62	25/1/2018 2:46 47 25/1/2018 2:51 56	26/1/2018 3:51 62 26/1/2018 3:56 62	
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23/1/2018 0:56 60	24/1/2018 2:01 62	25/1/2018 3:06 57	26/1/2018 4:11 62	
23/1/2018 1:01 56 23/1/2018 1:06 60	24/1/2018 2:06 63 24/1/2018 2:11 62	25/1/2018 3:11 54 25/1/2018 3:16 63	26/1/2018 4:16 54 26/1/2018 4:21 62	
23/1/2018 1:11 45	24/1/2018 2:16 46	25/1/2018 3:21 59	26/1/2018 4:26 63	
23/1/2018 1:16 48 23/1/2018 1:21 51	24/1/2018 2:21 62 24/1/2018 2:26 61	25/1/2018 3:26 59 25/1/2018 3:31 63	26/1/2018 4:31 62 26/1/2018 4:36 49	
23/1/2018 1:26 63	24/1/2018 2:31 61	25/1/2018 3:36 55	26/1/2018 4:41 58	
23/1/2018 1:31 62 23/1/2018 1:36 63	24/1/2018 2:36 62 24/1/2018 2:41 62	25/1/2018 3:41 62 25/1/2018 3:46 56	26/1/2018 4:46 62 26/1/2018 4:51 56	
23/1/2018 1:41 63	24/1/2018 2:46 61	25/1/2018 3:51 57	26/1/2018 4:56 63	
23/1/2018 1:46 62	24/1/2018 2:51 61	25/1/2018 3:56 57	26/1/2018 5:01 62	

Deal time Naise Date	DTNA (Community Dev Community				
Real-time Noise Data Normal Day 07:00-19:00	RTN4 (Causeway Bay Communit 31/12/2017 13:01 62	6/1/2018 7:31 62	11/1/2018 14:01 64	17/1/2018 8:31 65	22/1/2018 15:01 65
27/12/2017 7:01 62 27/12/2017 7:31 63	31/12/2017 13:31 62 31/12/2017 14:01 62	6/1/2018 8:01 64 6/1/2018 8:31 65	11/1/2018 14:31 63 11/1/2018 15:01 62	17/1/2018 9:01 65 17/1/2018 9:31 64	22/1/2018 15:31 65 22/1/2018 16:01 66
27/12/2017 8:01 64	31/12/2017 14:01 02	6/1/2018 9:01 63	11/1/2018 15:01 62	17/1/2018 9.31 64	22/1/2018 16:31 64
27/12/2017 8:31 64	31/12/2017 15:01 61	6/1/2018 9:31 65	11/1/2018 16:01 63	17/1/2018 10:31 64	22/1/2018 17:01 63
27/12/2017 9:01 64 27/12/2017 9:31 63	31/12/2017 15:31 62 31/12/2017 16:01 62	6/1/2018 10:01 62 6/1/2018 10:31 62	11/1/2018 16:31 64 11/1/2018 17:01 63	17/1/2018 11:01 64 17/1/2018 11:31 63	22/1/2018 17:31 63 22/1/2018 18:01 62
27/12/2017 10:01 64	31/12/2017 16:31 62	6/1/2018 11:01 63	11/1/2018 17:31 63	17/1/2018 12:01 62	22/1/2018 18:31 62
27/12/2017 10:31 64 27/12/2017 11:01 65	31/12/2017 17:01 62 31/12/2017 17:31 62	6/1/2018 11:31 62 6/1/2018 12:01 62	11/1/2018 18:01 62 11/1/2018 18:31 59	17/1/2018 12:31 63 17/1/2018 13:01 65	23/1/2018 7:01 61 23/1/2018 7:31 63
27/12/2017 11:31 64	31/12/2017 18:01 62	6/1/2018 12:31 61	12/1/2018 7:01 60	17/1/2018 13:31 65	23/1/2018 8:01 64
27/12/2017 12:01 64 27/12/2017 12:31 64	31/12/2017 18:31 61 2/1/2018 7:01 62	6/1/2018 13:01 62 6/1/2018 13:31 62	12/1/2018 7:31 62 12/1/2018 8:01 62	17/1/2018 14:01 64 17/1/2018 14:31 64	23/1/2018 8:31 64 23/1/2018 9:01 64
27/12/2017 12:31 04	2/1/2018 7:01 62 2/1/2018 7:31 63	6/1/2018 14:01 64	12/1/2018 8:31 62	17/1/2018 14:31 64	23/1/2018 9:31 68
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27/12/2017 14:31 64	2/1/2018 8.31 63 2/1/2018 9:01 63	6/1/2018 15:31 64	12/1/2018 9:31 61 12/1/2018 10:01 62	17/1/2018 16:01 64 17/1/2018 16:31 64	23/1/2018 10:31 66
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27/12/2017 15:31 64 27/12/2017 16:01 64	2/1/2018 10:01 64 2/1/2018 10:31 65	6/1/2018 16:31 64 6/1/2018 17:01 61	12/1/2018 11:01 63 12/1/2018 11:31 61	17/1/2018 17:31 63 17/1/2018 18:01 62	23/1/2018 12:01 62 23/1/2018 12:31 63
27/12/2017 16:31 64	2/1/2018 11:01 64	6/1/2018 17:31 60	12/1/2018 12:01 61	17/1/2018 18:31 61	23/1/2018 13:01 64
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27/12/2017 18:01 66	2/1/2018 12:31 63	8/1/2018 7:01 60	12/1/2018 13:31 63	18/1/2018 8:01 63	23/1/2018 14:31 66
27/12/2017 18:31 61 28/12/2017 7:01 62	2/1/2018 13:01 63 2/1/2018 13:31 64	8/1/2018 7:31 62 8/1/2018 8:01 62	12/1/2018 14:01 64 12/1/2018 14:31 63	18/1/2018 8:31 64 18/1/2018 9:01 64	23/1/2018 15:01 65 23/1/2018 15:31 67
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28/12/2017 8:01 65 28/12/2017 8:31 66	2/1/2018 14:31 63 2/1/2018 15:01 63	8/1/2018 9:01 61 8/1/2018 9:31 62	12/1/2018 15:31 62 12/1/2018 16:01 61	18/1/2018 10:01 67 18/1/2018 10:31 64	23/1/2018 16:31 63 23/1/2018 17:01 63
28/12/2017 9:01 65	2/1/2018 15:31 63	8/1/2018 10:01 62	12/1/2018 16:31 62	18/1/2018 11:01 64	23/1/2018 17:31 63
28/12/2017 9:31 65 28/12/2017 10:01 65	2/1/2018 16:01 63 2/1/2018 16:31 63	8/1/2018 10:31 64 8/1/2018 11:01 64	12/1/2018 17:01 61 12/1/2018 17:31 63	18/1/2018 11:31 63 18/1/2018 12:01 62	23/1/2018 18:01 62 23/1/2018 18:31 62
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28/12/2017 13:31 66	3/1/2018 8:01 64	8/1/2018 14:31 63	13/1/2018 9:01 66	18/1/2018 15:31 63	24/1/2018 10:01 67
28/12/2017 14:01 64 28/12/2017 14:31 64	3/1/2018 8:31 65 3/1/2018 9:01 64	8/1/2018 15:01 63 8/1/2018 15:31 62	13/1/2018 9:31 66 13/1/2018 10:01 65	18/1/2018 16:01 64 18/1/2018 16:31 62	24/1/2018 10:31 65 24/1/2018 11:01 66
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28/12/2017 15:31 64	3/1/2018 10:01 64	8/1/2018 16:31 64	13/1/2018 11:01 65	18/1/2018 17:31 63	24/1/2018 12:01 62
28/12/2017 16:01 65 28/12/2017 16:31 64	3/1/2018 10:31 64 3/1/2018 11:01 64	8/1/2018 17:01 63 8/1/2018 17:31 62	13/1/2018 11:31 64 13/1/2018 12:01 64	18/1/2018 18:01 62 18/1/2018 18:31 63	24/1/2018 12:31 63 24/1/2018 13:01 64
28/12/2017 17:01 64	3/1/2018 11:31 64	8/1/2018 18:01 62	13/1/2018 12:31 64	19/1/2018 7:01 61	24/1/2018 13:31 64
28/12/2017 17:31 64 28/12/2017 18:01 63	3/1/2018 12:01 63 3/1/2018 12:31 64	8/1/2018 18:31 61 9/1/2018 7:01 63	13/1/2018 13:01 65 13/1/2018 13:31 65	19/1/2018 7:31 64 19/1/2018 8:01 63	24/1/2018 14:01 65 24/1/2018 14:31 64
28/12/2017 18:31 64	3/1/2018 13:01 66	9/1/2018 7:31 64	13/1/2018 14:01 65	19/1/2018 8:31 65	24/1/2018 15:01 64
29/12/2017 7:01 62 29/12/2017 7:31 63	3/1/2018 13:31 65 3/1/2018 14:01 65	9/1/2018 8:01 64 9/1/2018 8:31 64	13/1/2018 14:31 65 13/1/2018 15:01 65	19/1/2018 9:01 64 19/1/2018 9:31 65	24/1/2018 15:31 64 24/1/2018 16:01 64
29/12/2017 8:01 64	3/1/2018 14:31 65	9/1/2018 9:01 64	13/1/2018 15:31 65	19/1/2018 10:01 65	24/1/2018 16:31 65
29/12/2017 8:31 66 29/12/2017 9:01 64	3/1/2018 15:01 64 3/1/2018 15:31 63	9/1/2018 9:31 64 9/1/2018 10:01 64	13/1/2018 16:01 65 13/1/2018 16:31 65	19/1/2018 10:31 64 19/1/2018 11:01 65	24/1/2018 17:01 63 24/1/2018 17:31 64
29/12/2017 9:31 63	3/1/2018 16:01 63	9/1/2018 10:31 65	13/1/2018 17:01 65	19/1/2018 11:31 64	24/1/2018 18:01 63
29/12/2017 10:01 64 29/12/2017 10:31 65	3/1/2018 16:31 64 3/1/2018 17:01 64	9/1/2018 11:01 65 9/1/2018 11:31 65	13/1/2018 17:31 64 13/1/2018 18:01 64	19/1/2018 12:01 64 19/1/2018 12:31 65	24/1/2018 18:31 62 25/1/2018 7:01 61
29/12/2017 11:01 64	3/1/2018 17:31 63	9/1/2018 12:01 63	13/1/2018 18:31 63	19/1/2018 13:01 65	25/1/2018 7:31 64
29/12/2017 11:31 64 29/12/2017 12:01 62	3/1/2018 18:01 63 3/1/2018 18:31 62	9/1/2018 12:31 64 9/1/2018 13:01 65	15/1/2018 7:01 61 15/1/2018 7:31 62	19/1/2018 13:31 66 19/1/2018 14:01 66	25/1/2018 8:01 65 25/1/2018 8:31 64
29/12/2017 12:31 62	4/1/2018 7:01 61	9/1/2018 13:31 66	15/1/2018 8:01 63	19/1/2018 14:31 65	25/1/2018 9:01 64
29/12/2017 13:01 63 29/12/2017 13:31 65	4/1/2018 7:31 63 4/1/2018 8:01 63	9/1/2018 14:01 64 9/1/2018 14:31 64	15/1/2018 8:31 64 15/1/2018 9:01 63	19/1/2018 15:01 65 19/1/2018 15:31 64	25/1/2018 9:31 65 25/1/2018 10:01 65
29/12/2017 14:01 64	4/1/2018 8:31 64	9/1/2018 15:01 65	15/1/2018 9:31 63	19/1/2018 16:01 64	25/1/2018 10:31 65
29/12/2017 14:31 64 29/12/2017 15:01 63	4/1/2018 9:01 64 4/1/2018 9:31 65	9/1/2018 15:31 66 9/1/2018 16:01 65	15/1/2018 10:01 64 15/1/2018 10:31 64	19/1/2018 16:31 64 19/1/2018 17:01 64	25/1/2018 11:01 65 25/1/2018 11:31 65
29/12/2017 15:31 63	4/1/2018 10:01 66	9/1/2018 16:31 64	15/1/2018 11:01 64	19/1/2018 17:31 64	25/1/2018 12:01 64
29/12/2017 16:01 64 29/12/2017 16:31 64	4/1/2018 10:31 68 4/1/2018 11:01 65	9/1/2018 17:01 64 9/1/2018 17:31 64	15/1/2018 11:31 64 15/1/2018 12:01 64	19/1/2018 18:01 64 19/1/2018 18:31 63	25/1/2018 12:31 65 25/1/2018 13:01 65
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30/12/2017 17:31 62	5/1/2018 12:01 62	10/1/2018 18:31 61	16/1/2018 13:01 65	22/1/2018 7:31 63	26/1/2018 14:01 63
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31/12/2017 7:01 61	5/1/2018 13:31 66	11/1/2018 8:01 61	16/1/2018 14:31 64	22/1/2018 9:01 63	26/1/2018 15:31 61
31/12/2017 7:31 60 31/12/2017 8:01 61	5/1/2018 14:01 64 5/1/2018 14:31 63	11/1/2018 8:31 62 11/1/2018 9:01 61	16/1/2018 15:01 64 16/1/2018 15:31 65	22/1/2018 9:31 64 22/1/2018 10:01 63	26/1/2018 16:01 61 26/1/2018 16:31 62
31/12/2017 8:31 61	5/1/2018 15:01 63	11/1/2018 9:31 62	16/1/2018 16:01 64	22/1/2018 10:31 66	26/1/2018 17:01 62
31/12/2017 9:01 62 31/12/2017 9:31 62	5/1/2018 15:31 62 5/1/2018 16:01 63	11/1/2018 10:01 62 11/1/2018 10:31 63	16/1/2018 16:31 64 16/1/2018 17:01 63	22/1/2018 11:01 64 22/1/2018 11:31 63	26/1/2018 17:31 60 26/1/2018 18:01 59
31/12/2017 10:01 62	5/1/2018 16:31 64	11/1/2018 11:01 63	16/1/2018 17:31 62	22/1/2018 12:01 62	26/1/2018 18:31 59
31/12/2017 10:31 62 31/12/2017 11:01 63	5/1/2018 17:01 63 5/1/2018 17:31 62	11/1/2018 11:31 61 11/1/2018 12:01 61	16/1/2018 18:01 62 16/1/2018 18:31 62	22/1/2018 12:31 63 22/1/2018 13:01 64	
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31/12/2017 12:01 63 31/12/2017 12:31 62	5/1/2018 18:31 60 6/1/2018 7:01 61	11/1/2018 13:01 63 11/1/2018 13:31 65	17/1/2018 7:31 63 17/1/2018 8:01 63	22/1/2018 14:01 66 22/1/2018 14:31 66	
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Real time Naise Date	DTM (Courseway Boy Communit	v Control			
Real-time Noise Data Normal Day 19:00-23:00,	RTN4 (Causeway Bay Communit 29/12/2017 19:46 53	31/12/2017 20:51 61	1/1/2018 13:56 61	2/1/2018 19:01 61	4/1/2018 20:06 61
Sunday & Holiday	29/12/2017 19:51 49	31/12/2017 20:56 60	1/1/2018 14:01 62	2/1/2018 19:06 63	4/1/2018 20:11 62
07:00-23:00	29/12/2017 19:56 56	31/12/2017 21:01 60	1/1/2018 14:06 61	2/1/2018 19:11 61	4/1/2018 20:16 62
	29/12/2017 20:01 53	31/12/2017 21:06 60	1/1/2018 14:11 61	2/1/2018 19:16 61	4/1/2018 20:21 62
27/12/2017 19:01 61	29/12/2017 20:06 44	31/12/2017 21:11 60	1/1/2018 14:16 61	2/1/2018 19:21 62	4/1/2018 20:26 60
27/12/2017 19:06 60	29/12/2017 20:11 54	31/12/2017 21:16 61	1/1/2018 14:21 62	2/1/2018 19:26 61	4/1/2018 20:31 62
27/12/2017 19:11 63	29/12/2017 20:16 61	31/12/2017 21:21 60	1/1/2018 14:26 62	2/1/2018 19:31 62	4/1/2018 20:36 62
27/12/2017 19:16 62	29/12/2017 20:21 58	31/12/2017 21:26 60	1/1/2018 14:31 61	2/1/2018 19:36 61	4/1/2018 20:41 61
27/12/2017 19:21 62	29/12/2017 20:26 57	31/12/2017 21:31 60	1/1/2018 14:36 62	2/1/2018 19:41 61	4/1/2018 20:46 62
27/12/2017 19:26 62	29/12/2017 20:31 53	31/12/2017 21:36 52	1/1/2018 14:41 63	2/1/2018 19:46 61	4/1/2018 20:51 61
27/12/2017 19:31 62	29/12/2017 20:36 62	31/12/2017 21:41 60	1/1/2018 14:46 61	2/1/2018 19:51 61	4/1/2018 20:56 62
27/12/2017 19:36 61	29/12/2017 20:41 62	31/12/2017 21:46 60	1/1/2018 14:51 62	2/1/2018 19:56 62	4/1/2018 21:01 61
27/12/2017 19:41 62	29/12/2017 20:46 60	31/12/2017 21:51 62	1/1/2018 14:56 61	2/1/2018 20:01 61	4/1/2018 21:06 61
27/12/2017 19:46 61	29/12/2017 20:51 61	31/12/2017 21:56 63	1/1/2018 15:01 61	2/1/2018 20:06 61	4/1/2018 21:11 60
27/12/2017 19:51 62	29/12/2017 20:56 60	31/12/2017 22:01 61	1/1/2018 15:06 62	2/1/2018 20:11 61	4/1/2018 21:16 61
27/12/2017 19:56 61	29/12/2017 21:01 61	31/12/2017 22:06 61	1/1/2018 15:11 61	2/1/2018 20:16 61	4/1/2018 21:21 61
27/12/2017 20:01 62	29/12/2017 21:06 61	31/12/2017 22:11 54	1/1/2018 15:16 60	2/1/2018 20:21 61	4/1/2018 21:26 61
27/12/2017 20:06 62	29/12/2017 21:11 61	31/12/2017 22:16 61	1/1/2018 15:21 61	2/1/2018 20:26 61	4/1/2018 21:31 60
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29/12/2017 19:41 57	31/12/2017 20:46 61	1/1/2018 13:51 61	1/1/2018 22:56 59	4/1/2018 20:01 61	6/1/2018 21:06 61

Real-time Noise Data	RTN4 (Causeway Bay Commun				
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7/1/2018 12:56 62	7/1/2018 22:01 60	10/1/2018 19:06 60	12/1/2018 20:11 62	14/1/2018 9:16 61	14/1/2018 18:21 62
7/1/2018 13:06 62	7/1/2018 22:11 59	10/1/2018 19:11 61 10/1/2018 19:16 61	12/1/2018 20:16 61 12/1/2018 20:21 62	14/1/2018 9:26 63	14/1/2018 18:26 63 14/1/2018 18:31 61
7/1/2018 13:11 61	7/1/2018 22:16 60	10/1/2018 19:21 62	12/1/2018 20:26 62	14/1/2018 9:31 62	14/1/2018 18:36 62
7/1/2018 13:16 63	7/1/2018 22:21 60	10/1/2018 19:26 61	12/1/2018 20:31 62	14/1/2018 9:36 62	14/1/2018 18:41 61
7/1/2018 13:21 62	7/1/2018 22:26 60	10/1/2018 19:31 60	12/1/2018 20:36 62	14/1/2018 9:41 62	14/1/2018 18:46 60
7/1/2018 13:26 62	7/1/2018 22:31 60	10/1/2018 19:36 61	12/1/2018 20:41 61	14/1/2018 9:46 63	14/1/2018 18:51 61
7/1/2018 13:31 61	7/1/2018 22:36 60	10/1/2018 19:41 61	12/1/2018 20:46 61	14/1/2018 9:51 63	14/1/2018 18:56 61
7/1/2018 13:36 62	7/1/2018 22:41 60	10/1/2018 19:46 60	12/1/2018 20:51 62	14/1/2018 9:56 62	14/1/2018 19:01 61
7/1/2018 13:41 62	7/1/2018 22:46 59	10/1/2018 19:51 61	12/1/2018 20:56 62	14/1/2018 10:01 62	14/1/2018 19:06 61
7/1/2018 13:46 61	7/1/2018 22:51 59	10/1/2018 19:56 61	12/1/2018 21:01 61	14/1/2018 10:06 62	14/1/2018 19:11 62
7/1/2018 13:51 62	7/1/2018 22:56 59	10/1/2018 20:01 60	12/1/2018 21:06 61	14/1/2018 10:11 61	14/1/2018 19:16 61
7/1/2018 13:56 63	8/1/2018 19:01 61	10/1/2018 20:06 61	12/1/2018 21:11 61	14/1/2018 10:16 62	14/1/2018 19:21 62
7/1/2018 14:01 63	8/1/2018 19:06 61	10/1/2018 20:11 61	12/1/2018 21:16 61	14/1/2018 10:21 62	14/1/2018 19:26 61
7/1/2018 14:06 62	8/1/2018 19:11 61	10/1/2018 20:16 62	12/1/2018 21:21 61	14/1/2018 10:26 62	14/1/2018 19:31 61
7/1/2018 14:11 62	8/1/2018 19:16 61	10/1/2018 20:21 60	12/1/2018 21:26 61	14/1/2018 10:31 62	14/1/2018 19:36 62

Real-time Noise Data	RTN4 (Causeway Bay Communit			•	
14/1/2018 19:41 61	16/1/2018 20:46 63	18/1/2018 21:51 61	20/1/2018 22:56 61	21/1/2018 16:01 62	22/1/2018 21:06 61
14/1/2018 19:46 60	16/1/2018 20:51 61	18/1/2018 21:56 62	21/1/2018 7:01 53	21/1/2018 16:06 62	22/1/2018 21:11 62
14/1/2018 19:51 61	16/1/2018 20:56 62	18/1/2018 22:01 61	21/1/2018 7:06 53	21/1/2018 16:11 62	22/1/2018 21:16 61
14/1/2018 19:56 61	16/1/2018 21:01 62	18/1/2018 22:06 61	21/1/2018 7:11 53	21/1/2018 16:16 54	22/1/2018 21:21 61
14/1/2018 20:01 61	16/1/2018 21:06 63	18/1/2018 22:11 61	21/1/2018 7:16 55	21/1/2018 16:21 63	22/1/2018 21:26 63
14/1/2018 20:06 61	16/1/2018 21:11 62	18/1/2018 22:16 61	21/1/2018 7:21 54	21/1/2018 16:26 58	22/1/2018 21:31 61
14/1/2018 20:11 61	16/1/2018 21:16 62	18/1/2018 22:21 61	21/1/2018 7:26 53	21/1/2018 16:31 62	22/1/2018 21:36 61
14/1/2018 20:16 62	16/1/2018 21:21 62	18/1/2018 22:26 61	21/1/2018 7:31 53	21/1/2018 16:36 62	22/1/2018 21:41 61
14/1/2018 20:21 61	16/1/2018 21:26 61	18/1/2018 22:31 61	21/1/2018 7:36 54	21/1/2018 16:41 62	22/1/2018 21:46 63
14/1/2018 20:26 61	16/1/2018 21:31 61	18/1/2018 22:36 60	21/1/2018 7:41 54	21/1/2018 16:46 62	22/1/2018 21:51 61
14/1/2018 20:31 61	16/1/2018 21:36 62	18/1/2018 22:41 61	21/1/2018 7:46 54	21/1/2018 16:51 62	22/1/2018 21:56 62
14/1/2018 20:36 61	16/1/2018 21:41 63	18/1/2018 22:46 61	21/1/2018 7:51 54	21/1/2018 16:56 53	22/1/2018 22:01 61
14/1/2018 20:41 61	16/1/2018 21:46 62	18/1/2018 22:51 62	21/1/2018 7:56 56	21/1/2018 17:01 62	22/1/2018 22:06 61
14/1/2018 20:46 60	16/1/2018 21:51 62	18/1/2018 22:56 61	21/1/2018 8:01 55	21/1/2018 17:06 62	22/1/2018 22:11 61
14/1/2018 20:51 61	16/1/2018 21:56 63	19/1/2018 19:01 63	21/1/2018 8:06 56	21/1/2018 17:11 63	22/1/2018 22:16 61
14/1/2018 20:56 62	16/1/2018 22:01 61	19/1/2018 19:06 63	21/1/2018 8:11 54	21/1/2018 17:16 62	22/1/2018 22:21 61
14/1/2018 21:01 60	16/1/2018 22:06 61	19/1/2018 19:11 62	21/1/2018 8:16 57	21/1/2018 17:21 62	22/1/2018 22:26 61
14/1/2018 21:06 60 14/1/2018 21:11 61	16/1/2018 22:11 61	19/1/2018 19:16 63	21/1/2018 8:21 55 21/1/2018 8:26 58	21/1/2018 17:26 62	22/1/2018 22:31 62
14/1/2018 21:16 60	16/1/2018 22:21 63	19/1/2018 19:21 56 19/1/2018 19:26 49	21/1/2018 8:31 56	21/1/2018 17:31 62 21/1/2018 17:36 61	22/1/2018 22:41 61
14/1/2018 21:21 61	16/1/2018 22:26 61	19/1/2018 19:31 48	21/1/2018 8:36 55	21/1/2018 17:41 61	22/1/2018 22:46 60
14/1/2018 21:26 62	16/1/2018 22:31 61	19/1/2018 19:36 62	21/1/2018 8:41 56	21/1/2018 17:46 59	22/1/2018 22:51 62
14/1/2018 21:31 62	16/1/2018 22:36 61	19/1/2018 19:41 64	21/1/2018 8:46 57	21/1/2018 17:51 62	22/1/2018 22:56 61
14/1/2018 21:36 61	16/1/2018 22:41 62	19/1/2018 19:46 42	21/1/2018 8:51 55	21/1/2018 17:56 59	23/1/2018 19:01 62
14/1/2018 21:41 61	16/1/2018 22:46 61	19/1/2018 19:51 64	21/1/2018 8:56 56	21/1/2018 18:01 62	23/1/2018 19:06 63
14/1/2018 21:46 60	16/1/2018 22:51 61	19/1/2018 19:56 53	21/1/2018 9:01 56	21/1/2018 18:06 62	23/1/2018 19:11 62
14/1/2018 21:51 61	16/1/2018 22:56 61	19/1/2018 20:01 59	21/1/2018 9:06 57	21/1/2018 18:11 62	23/1/2018 19:16 62
14/1/2018 21:56 61	17/1/2018 19:01 62	19/1/2018 20:06 46	21/1/2018 9:11 59	21/1/2018 18:16 59	23/1/2018 19:21 62
14/1/2018 22:01 62	17/1/2018 19:06 61	19/1/2018 20:11 50	21/1/2018 9:16 57	21/1/2018 18:21 62	23/1/2018 19:26 62
14/1/2018 22:06 62	17/1/2018 19:11 63	19/1/2018 20:16 58	21/1/2018 9:21 57	21/1/2018 18:26 63	23/1/2018 19:31 62
14/1/2018 22:11 61	17/1/2018 19:16 61	19/1/2018 20:21 52	21/1/2018 9:26 56	21/1/2018 18:31 62	23/1/2018 19:36 62
14/1/2018 22:16 61	17/1/2018 19:21 63	19/1/2018 20:26 56	21/1/2018 9:31 56	21/1/2018 18:36 62	23/1/2018 19:41 63
14/1/2018 22:21 61	17/1/2018 19:26 61	19/1/2018 20:31 63	21/1/2018 9:36 56	21/1/2018 18:41 61	23/1/2018 19:46 62
14/1/2018 22:26 60	17/1/2018 19:31 60	19/1/2018 20:36 64	21/1/2018 9:41 56	21/1/2018 18:46 62	23/1/2018 19:51 62
14/1/2018 22:31 60	17/1/2018 19:36 63	19/1/2018 20:41 63	21/1/2018 9:46 58	21/1/2018 18:51 62	23/1/2018 19:56 63
14/1/2018 22:36 61	17/1/2018 19:41 61	19/1/2018 20:46 43	21/1/2018 9:51 57	21/1/2018 18:56 62	23/1/2018 20:01 63
14/1/2018 22:41 60	17/1/2018 19:46 62	19/1/2018 20:51 63	21/1/2018 9:56 57	21/1/2018 19:01 62	23/1/2018 20:06 62
14/1/2018 22:46 60	17/1/2018 19:51 62	19/1/2018 20:56 63 19/1/2018 21:01 63	21/1/2018 10:01 58 21/1/2018 10:06 58	21/1/2018 19:06 62	23/1/2018 20:11 62 23/1/2018 20:16 62
14/1/2018 22:51 60 14/1/2018 22:56 60	17/1/2018 19:56 62 17/1/2018 20:01 61	19/1/2018 21:06 64	21/1/2018 10:11 58	21/1/2018 19:11 62 21/1/2018 19:16 62	23/1/2018 20:21 62
15/1/2018 19:01 62	17/1/2018 20:06 62	19/1/2018 21:11 64	21/1/2018 10:16 58	21/1/2018 19:21 62	23/1/2018 20:26 62
15/1/2018 19:06 62	17/1/2018 20:11 63	19/1/2018 21:16 52	21/1/2018 10:21 62	21/1/2018 19:26 62	23/1/2018 20:31 61
15/1/2018 19:11 62	17/1/2018 20:16 61	19/1/2018 21:21 45	21/1/2018 10:26 58	21/1/2018 19:31 61	23/1/2018 20:36 62
15/1/2018 19:16 62	17/1/2018 20:21 62	19/1/2018 21:26 64	21/1/2018 10:31 57	21/1/2018 19:36 62	23/1/2018 20:41 62
15/1/2018 19:21 63	17/1/2018 20:26 62	19/1/2018 21:31 63	21/1/2018 10:36 57	21/1/2018 19:41 61	23/1/2018 20:46 61
15/1/2018 19:26 62	17/1/2018 20:31 61	19/1/2018 21:36 63	21/1/2018 10:41 57	21/1/2018 19:46 62	23/1/2018 20:51 61
15/1/2018 19:31 62	17/1/2018 20:36 61	19/1/2018 21:41 59	21/1/2018 10:46 58	21/1/2018 19:51 62	23/1/2018 20:56 62
15/1/2018 19:36 62	17/1/2018 20:41 63	19/1/2018 21:46 63	21/1/2018 10:51 60	21/1/2018 19:56 61	23/1/2018 21:01 62
15/1/2018 19:41 62 15/1/2018 19:46 62	17/1/2018 20:46 61 17/1/2018 20:51 61	19/1/2018 21:56 64	21/1/2018 10:56 62 21/1/2018 11:01 62	21/1/2018 20:06 61	23/1/2018 21:06 61 23/1/2018 21:11 62
15/1/2018 19:51 62	17/1/2018 20:56 61	19/1/2018 22:01 63	21/1/2018 11:06 61	21/1/2018 20:11 62	23/1/2018 21:16 61
15/1/2018 19:56 63	17/1/2018 21:01 61	19/1/2018 22:06 63	21/1/2018 11:11 64	21/1/2018 20:16 61	23/1/2018 21:21 62
15/1/2018 20:01 63	17/1/2018 21:06 62	19/1/2018 22:11 64	21/1/2018 11:16 63	21/1/2018 20:21 61	23/1/2018 21:26 53
	17/1/2018 21:11 61	19/1/2018 22:16 45	21/1/2018 11:21 62	21/1/2018 20:26 60	23/1/2018 21:31 61
15/1/2018 20:11 62	17/1/2018 21:16 61	19/1/2018 22:21 43	21/1/2018 11:26 63	21/1/2018 20:31 62	23/1/2018 21:36 62
15/1/2018 20:16 62	17/1/2018 21:21 61	19/1/2018 22:26 63	21/1/2018 11:31 63	21/1/2018 20:36 61	23/1/2018 21:41 62
15/1/2018 20:21 62	17/1/2018 21:26 62	19/1/2018 22:31 63	21/1/2018 11:36 62	21/1/2018 20:41 61	23/1/2018 21:46 62
15/1/2018 20:26 62	17/1/2018 21:31 61	19/1/2018 22:36 63	21/1/2018 11:41 62	21/1/2018 20:46 61	23/1/2018 21:51 47
15/1/2018 20:36 62	17/1/2018 21:41 61	19/1/2018 22:41 63 19/1/2018 22:46 63	21/1/2018 11:51 63	21/1/2018 20:56 61	23/1/2018 22:01 62
15/1/2018 20:41 63	17/1/2018 21:46 62	19/1/2018 22:51 63	21/1/2018 11:56 62	21/1/2018 21:01 61	23/1/2018 22:06 61
15/1/2018 20:46 61	17/1/2018 21:51 58	19/1/2018 22:56 63	21/1/2018 12:01 63	21/1/2018 21:06 61	23/1/2018 22:11 61
15/1/2018 20:51 62	17/1/2018 21:56 62 17/1/2018 22:01 61	20/1/2018 19:01 62	21/1/2018 12:06 62	21/1/2018 21:11 63 21/1/2018 21:16 61	23/1/2018 22:16 61
15/1/2018 21:01 61	17/1/2018 22:06 61	20/1/2018 19:11 62	21/1/2018 12:16 61	21/1/2018 21:21 61	23/1/2018 22:26 61
15/1/2018 21:06 61	17/1/2018 22:11 62	20/1/2018 19:16 62	21/1/2018 12:21 62	21/1/2018 21:26 62	23/1/2018 22:31 61
15/1/2018 21:11 61	17/1/2018 22:16 61	20/1/2018 19:21 63	21/1/2018 12:26 62	21/1/2018 21:31 61	23/1/2018 22:36 61
15/1/2018 21:16 62	17/1/2018 22:21 63	20/1/2018 19:26 63	21/1/2018 12:31 63	21/1/2018 21:36 61	23/1/2018 22:41 62
15/1/2018 21:21 61	17/1/2018 22:26 62	20/1/2018 19:31 62	21/1/2018 12:36 63	21/1/2018 21:41 61	23/1/2018 22:46 61
15/1/2018 21:26 61	17/1/2018 22:31 62	20/1/2018 19:36 63	21/1/2018 12:41 63	21/1/2018 21:46 60	23/1/2018 22:51 61
15/1/2018 21:31 62	17/1/2018 22:36 61	20/1/2018 19:41 62	21/1/2018 12:46 63	21/1/2018 21:51 61	23/1/2018 22:56 61
15/1/2018 21:36 61	17/1/2018 22:41 61	20/1/2018 19:46 62	21/1/2018 12:51 63	21/1/2018 21:56 60	24/1/2018 19:01 63
15/1/2018 21:41 61	17/1/2018 22:46 62	20/1/2018 19:51 61	21/1/2018 12:56 63	21/1/2018 22:01 62	24/1/2018 19:06 62
15/1/2018 21:46 62	17/1/2018 22:51 60	20/1/2018 19:56 62	21/1/2018 13:01 63	21/1/2018 22:06 51	24/1/2018 19:11 63
15/1/2018 21:51 61	17/1/2018 22:56 61	20/1/2018 20:01 62	21/1/2018 13:06 63	21/1/2018 22:11 61	24/1/2018 19:16 63
15/1/2018 21:56 61	18/1/2018 19:01 63	20/1/2018 20:06 62	21/1/2018 13:11 64	21/1/2018 22:16 61	24/1/2018 19:21 63
15/1/2018 22:01 61	18/1/2018 19:06 63	20/1/2018 20:11 62	21/1/2018 13:16 63	21/1/2018 22:21 61	24/1/2018 19:26 63
15/1/2018 22:06 61	18/1/2018 19:11 62	20/1/2018 20:16 62	21/1/2018 13:21 63	21/1/2018 22:26 61	24/1/2018 19:31 62
15/1/2018 22:11 61	18/1/2018 19:16 62	20/1/2018 20:21 61	21/1/2018 13:26 63	21/1/2018 22:31 61	24/1/2018 19:36 61
15/1/2018 22:16 61	18/1/2018 19:21 63	20/1/2018 20:26 62	21/1/2018 13:31 63	21/1/2018 22:36 60	24/1/2018 19:41 62
15/1/2018 22:21 61	18/1/2018 19:26 61	20/1/2018 20:31 62	21/1/2018 13:36 62	21/1/2018 22:41 61	24/1/2018 19:46 61
15/1/2018 22:26 61	18/1/2018 19:31 55	20/1/2018 20:36 62	21/1/2018 13:41 62	21/1/2018 22:46 61	24/1/2018 19:51 62
15/1/2018 22:31 61	18/1/2018 19:36 62	20/1/2018 20:41 62	21/1/2018 13:46 62	21/1/2018 22:51 60	24/1/2018 19:56 62
15/1/2018 22:36 61	18/1/2018 19:41 62	20/1/2018 20:46 62	21/1/2018 13:51 62	21/1/2018 22:56 60	24/1/2018 20:01 62
15/1/2018 22:41 61	18/1/2018 19:46 62	20/1/2018 20:51 61	21/1/2018 13:56 63	22/1/2018 19:01 62	24/1/2018 20:06 62
15/1/2018 22:46 60	18/1/2018 19:51 62	20/1/2018 20:56 62	21/1/2018 14:01 62	22/1/2018 19:06 62	24/1/2018 20:11 61
15/1/2018 22:51 55	18/1/2018 19:56 62	20/1/2018 21:01 61	21/1/2018 14:06 63	22/1/2018 19:11 62	24/1/2018 20:16 63
15/1/2018 22:56 61	18/1/2018 20:01 62	20/1/2018 21:06 61	21/1/2018 14:11 63	22/1/2018 19:16 63	24/1/2018 20:21 64
16/1/2018 19:01 61	18/1/2018 20:06 62	20/1/2018 21:11 61	21/1/2018 14:16 63	22/1/2018 19:21 62	24/1/2018 20:26 61
16/1/2018 19:06 62	18/1/2018 20:11 62	20/1/2018 21:16 61	21/1/2018 14:21 63	22/1/2018 19:26 63	24/1/2018 20:31 61
16/1/2018 19:11 61	18/1/2018 20:16 61	20/1/2018 21:21 61	21/1/2018 14:26 54	22/1/2018 19:31 62	24/1/2018 20:36 56
16/1/2018 19:16 63	18/1/2018 20:21 62	20/1/2018 21:26 63	21/1/2018 14:31 64	22/1/2018 19:36 63	24/1/2018 20:41 61
16/1/2018 19:21 62	18/1/2018 20:26 62	20/1/2018 21:31 61	21/1/2018 14:36 63	22/1/2018 19:41 62	24/1/2018 20:46 62
16/1/2018 19:26 62	18/1/2018 20:31 61	20/1/2018 21:36 61	21/1/2018 14:41 63	22/1/2018 19:46 62	24/1/2018 20:51 60
16/1/2018 19:31 63	18/1/2018 20:36 61	20/1/2018 21:41 62	21/1/2018 14:46 63	22/1/2018 19:51 62	24/1/2018 20:56 61
16/1/2018 19:36 63	18/1/2018 20:41 61	20/1/2018 21:46 61	21/1/2018 14:51 63	22/1/2018 19:56 62	24/1/2018 21:01 60
16/1/2018 19:41 63	18/1/2018 20:46 63	20/1/2018 21:51 62	21/1/2018 14:56 63	22/1/2018 20:01 62	24/1/2018 21:06 61
16/1/2018 19:46 63	18/1/2018 20:51 61	20/1/2018 21:56 61	21/1/2018 15:01 63	22/1/2018 20:06 62	24/1/2018 21:11 61
16/1/2018 19:51 62	18/1/2018 20:56 61	20/1/2018 22:01 61	21/1/2018 15:06 62	22/1/2018 20:11 62	24/1/2018 21:16 60
16/1/2018 19:56 63	18/1/2018 21:01 60	20/1/2018 22:06 62	21/1/2018 15:11 63	22/1/2018 20:16 62	24/1/2018 21:21 61
16/1/2018 20:01 62	18/1/2018 21:06 61	20/1/2018 22:11 61	21/1/2018 15:16 62	22/1/2018 20:21 61	24/1/2018 21:26 61
16/1/2018 20:06 61	18/1/2018 21:11 61	20/1/2018 22:16 61	21/1/2018 15:21 52	22/1/2018 20:26 62	24/1/2018 21:31 62
16/1/2018 20:11 62	18/1/2018 21:16 63	20/1/2018 22:21 62	21/1/2018 15:26 62	22/1/2018 20:31 62	24/1/2018 21:36 61
16/1/2018 20:16 62	18/1/2018 21:21 60	20/1/2018 22:26 61	21/1/2018 15:31 62	22/1/2018 20:36 62	24/1/2018 21:41 61
16/1/2018 20:21 62	18/1/2018 21:26 61	20/1/2018 22:31 61	21/1/2018 15:36 62	22/1/2018 20:41 62	24/1/2018 21:46 62
16/1/2018 20:26 63	18/1/2018 21:31 63	20/1/2018 22:36 63	21/1/2018 15:41 59	22/1/2018 20:46 63	24/1/2018 21:51 60
16/1/2018 20:31 62	18/1/2018 21:36 61	20/1/2018 22:41 61	21/1/2018 15:46 60	22/1/2018 20:51 61	24/1/2018 21:56 61
16/1/2018 20:36 61	18/1/2018 21:41 62	20/1/2018 22:46 61	21/1/2018 15:51 63	22/1/2018 20:56 62	24/1/2018 22:01 61
16/1/2018 20:41 62	18/1/2018 21:46 61	20/1/2018 22:51 61	21/1/2018 15:56 62	22/1/2018 21:01 61	24/1/2018 22:06 63
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Real-time Noise Data	RTN4 (Causeway Bay Community				
24/1/2018 22:11 61	Night time: 23:00-07:00	28/12/2017 0:56 57	29/12/2017 2:01 59	30/12/2017 3:06 56	31/12/2017 4:11 55
24/1/2018 22:16 61		28/12/2017 1:01 57	29/12/2017 2:06 58	30/12/2017 3:11 57	31/12/2017 4:16 57
24/1/2018 22:21 61	27/12/2017 0:01 58	28/12/2017 1:06 57	29/12/2017 2:11 59	30/12/2017 3:16 57	31/12/2017 4:21 55
24/1/2018 22:26 61	27/12/2017 0:06 59	28/12/2017 1:11 58	29/12/2017 2:16 58	30/12/2017 3:21 56	31/12/2017 4:26 56
24/1/2018 22:31 60	27/12/2017 0:11 58	28/12/2017 1:16 56	29/12/2017 2:21 58	30/12/2017 3:26 58	31/12/2017 4:31 56
24/1/2018 22:36 61	27/12/2017 0:16 59	28/12/2017 1:21 57	29/12/2017 2:26 59	30/12/2017 3:31 57	31/12/2017 4:36 56
24/1/2018 22:41 62	27/12/2017 0:21 58	28/12/2017 1:26 57	29/12/2017 2:31 58	30/12/2017 3:36 57	31/12/2017 4:41 56
24/1/2018 22:46 61	27/12/2017 0:26 58	28/12/2017 1:31 56	29/12/2017 2:36 58	30/12/2017 3:41 57	31/12/2017 4:46 55
24/1/2018 22:51 60	27/12/2017 0:31 57	28/12/2017 1:36 57	29/12/2017 2:41 59	30/12/2017 3:46 56	31/12/2017 4:51 55
24/1/2018 22:56 61	27/12/2017 0:36 58	28/12/2017 1:41 56	29/12/2017 2:46 58	30/12/2017 3:51 56	31/12/2017 4:56 55
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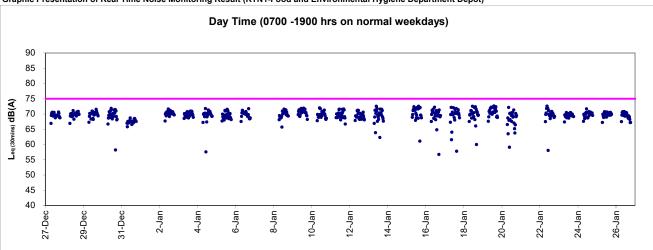
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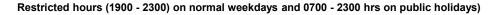
Real-time Noise Data	RTN4 (Causeway Bay Communit	v Centre)			
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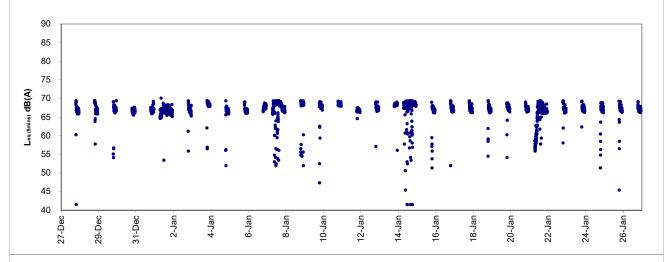
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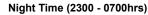


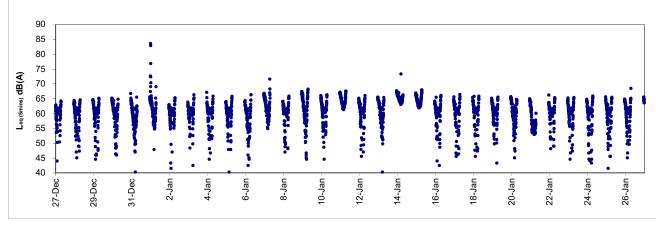
Graphic Presentation of Real Time Noise Monitoring Result (RTN1-Food and Environmental Hygiene Department Depot)





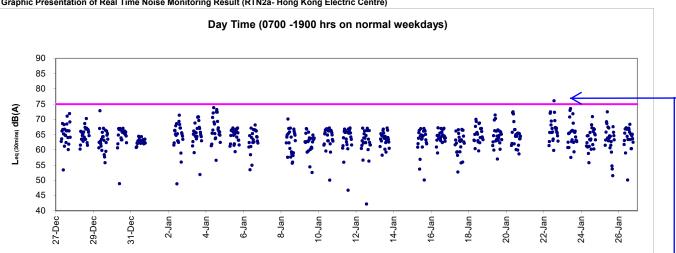


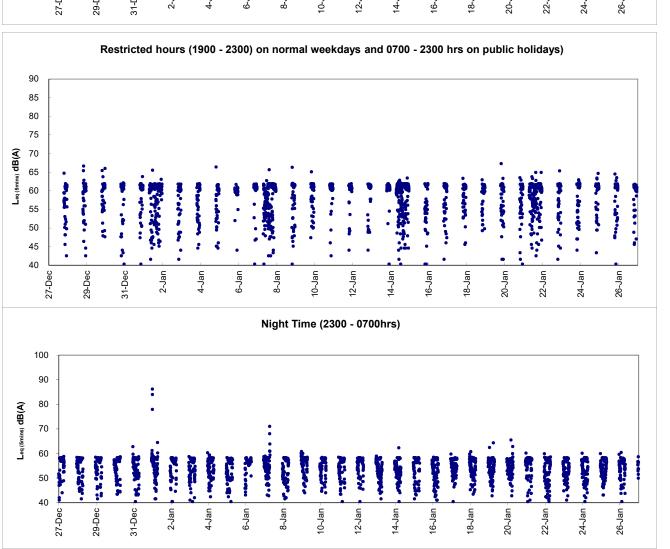








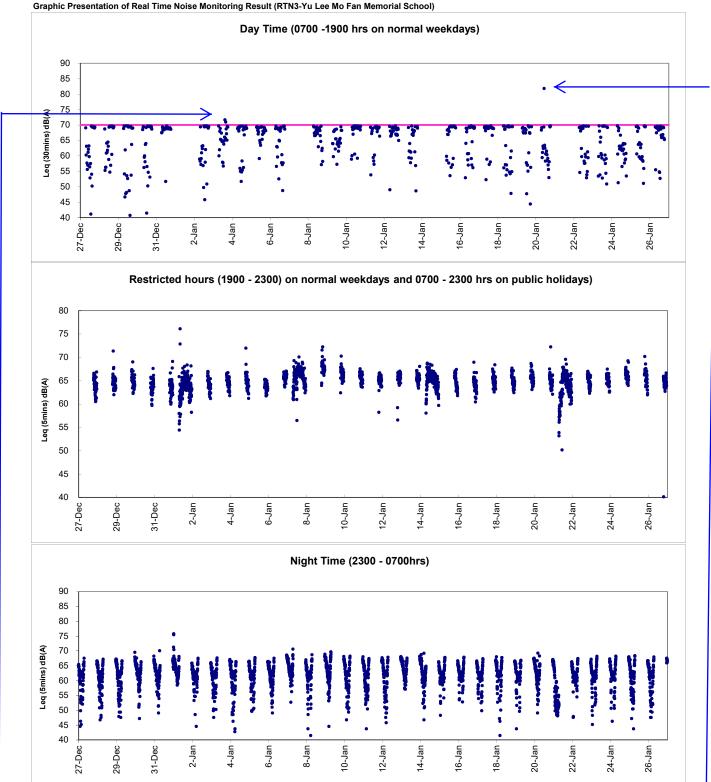




After checking with the Contractor, form work erection was conducted under Contract HY/2009/19 around the monitoring station and no particular noise was considered. After checking with the Contractor, Architectural Builders Works and Finishes and excavation works was conducted under Contract HY/2011/08 around the monitoring station and no particular noise was considered. Meanwhile, non-CWB construction works was observed around the monitoring location and may potentially contributed to the recorded noise level. As such, the exceedance was considered as non Project related.





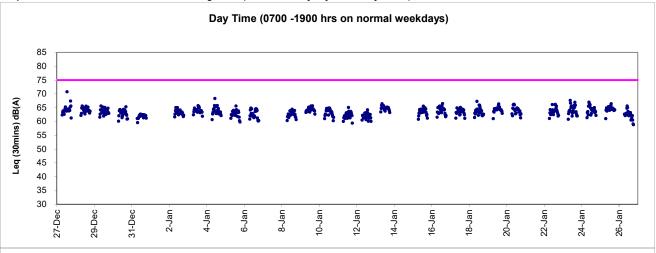


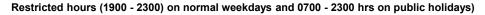
After checking with Contractor, road milling works was observed conducted beyond the noise enclosure and contributed as the major noise impact during the time of and the exceedance monitoring was considered as Project related.

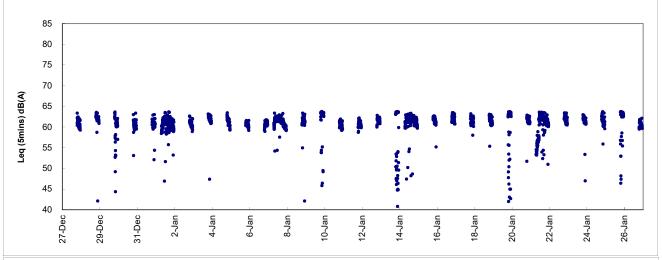
After checking with Contractor, concrete breaking was conducted within the noise enclosure. Meanwhile, school renovation works with mechanical operation was recorded next to the monitoring station and in view of the discrete exceedance recorded and duration of breaking works extended throughout the day, the exceedance was considered as non Project related.

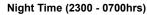


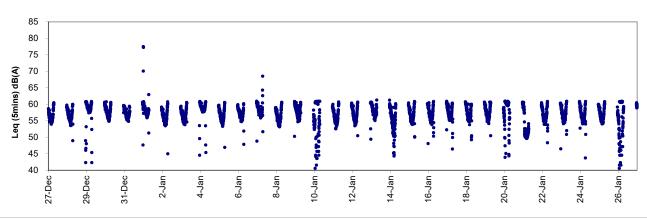
Graphic Presentation of Real Time Noise Monitoring Result (RTN4-Causeway Bay Community Centre)











## Appendix 6.1

**Event Action Plans** 

## **Event/Action Plan for Construction Noise**

EVENT	ACTION										
	ET	IEC	ER	CONTRACTOR							
Action Level being exceeded	<ol> <li>Notify ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures.  (The above actions should be taken within 2 working days after the exceedance is identified)	<ol> <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>Supervise the implementation of remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	Submit noise mitigation proposals to IEC and ER;     Implement noise mitigation proposals.     (The above actions should be taken within 2 working days after the exceedance is identified)							



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

## Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Measured TSP Level	Unit	Action Level	Limit Level	Follow-up action	
X_18A001	29-Dec-17	10:15	CMA5b- Pedestrian Plaza	430.0	1hr TSP (ug/m³)	332.0	500	Possible reason:	TSP level potentially in relate to the nearby traffic and ambient condition around the monitoring station at the time of monitoring.
			r raza					Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.
								Remarks / Other Obs:	No construction works was undertaken around the monitoring location on the monitoring date under Contractor of HK/2009/01 and no particular observation regarding dust emission was observed during sampling.
									Meanwhile, non WDII-CWB Project construction works was observed opposite to the monitoring station on the monitoring date.
									In view of the above, the exceedance was considered to not related to the Project work under HK/2009/01 and generally contributed by ambient air quality condition and nearby traffic exhaust. Nevertheless, the Contractor of HK/2009/01 was reminded to provide dust suppression measures for any potential dusty surface and dust generating operation if required around the concerned location to avoid any potential cumulative air quality impact.
X_18A002	29-Dec-17	10:15	CMA5b- Pedestrian Plaza	430.0	1hr TSP (ug/m <sup>3</sup> )	332.0	500	Possible reason:	TSP level potentially in relate to the nearby traffic and ambient condition around the monitoring station at the time of monitoring.
								Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.
								Remarks / Other Obs:	Installation of steel roof and architectural builders works and finishes at MVB were undertaken around the monitoring location under Contract HY/2011/08 on the monitoring date and no particular observation regarding air quality impact was observed during sampling and mitigation measure including dampening of haul road and provision of wheel washing were generally implemented.
									Meanwhile, non WDII-CWB Project construction works was observed opposite to the monitoring station on the monitoring date.
									In view of no particular dust emission is considered from the Project works, the exceedance was considered not related to Project works and potentially contributed by ambient air quality condition and nearby traffic exhaust. Nevertheless, the Contractor of HY/2011/08 was reminded to provided regularly dust suppression measures if any potential dust generating operation around the concerned location would be required to avoid any potential cumulative air quality impact.
X_18A003	29-Dec-17	10:15	CMA5b- Pedestrian Plaza	430.0	1hr TSP (ug/m <sup>3</sup> )	332.0	500	Possible reason:	TSP level potentially in relate to the nearby traffic and ambient condition around the monitoring station at the time of monitoring.
								Action taken / to be taken:	Reviewed the trend of air quality measurement across monitoring stations. Analysis of contractor's working procedures.
								Remarks / Other Obs:	Road and drain construction works was undertaken under Contract HK/2012/08 around the monitoring location on the monitoring date and no particular observation regarding dust emission was observed during sampling periods. Mitigation measure including water spraying for haul road and dusty surface were implmented by the Contractor of HK/2012/08.
									Meanwhile, non WDII-CWB Project construction works was observed opposite to the monitoring station on the monitoring date.
									In view of the above, the exceedance was considered to be not related to the Project works under Contract HK/2012/08 and potentially contributed by ambient air quality condition and nearby traffic exhaust. Nevertheless, the Contractor of HK/2012/08 was advised to strengthen the overall dust suppression control measures to ensure all dusty surface and stockpile are covered or dampened to avoid potential dust emission.

Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
			M1a-Footbridge at			when one documented		Possible reason:	Non WDII-CWB exccavation works next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position.
X_18N002	29-Dec-17	13:50	Ex Harbour Road Sports Centre	76	Leq(30min)	complaint was received.	75		contribution during monitoring with mechanical operation directly next to noise monitoring position.
								Action taken / to be taken:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.
								Remarks / Other Obs:	Excavation were conducted by Contract HK/2009/02 around the concerned location and no noise contribution was observed from the works. Meanwhile, non WDII-CWB excavation works immediately next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adopt noise mitigation measure, if necessary, around the concerned location to avoid potential cumulative impact.
X_18N003	29-Dec-17	13:50	M1a-Footbridge at Ex Harbour Road Sports Centre	76	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Non WDII-CWB exccavation works next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position.
								Action taken / to be taken:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.
								Remarks / Other Obs:	No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while non WDII-CWB excavation works immeidately next to the monitoring station was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.
X_18N005	16-Jan-18	13:45	M1a-Footbridge at Ex Harbour Road Sports Centre	78	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Non WDII-CWB steel frame erection works with hammering next to the monitoring station was observed as the major noise contribution during monitoring.
								Action taken / to be taken:	A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure.
								Remarks / Other Obs:	Despite backfilling work by excavator was conducted by Contract HK/2009/02 around the concerned location during the time of measurement, no major noise emanation from the works was observbed during monitoring. Meanwhile ,steel frame erection and hammering were conducted by non-WDII-CWB contractor next to the monitoring station and considered as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adopt noise mitigation measure, if necessary, around the concerned location to avoid potential cumulative impact.

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Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
X_18N006	16-Jan-18	13:45	M1a-Footbridge at Ex Harbour Road Sports Centre	78	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Non WDII-CWB steel frame erection works with hammering next to the monitoring station was observed as the major noise contribution during monitoring.
						received.		Action taken / to be taken: Remarks / Other Obs:	A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure.  No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while steel frame erection and hammering were conducted by non-WDII-CWB contractor next to the monitoring station and considered as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.
X_18N008	23-Jan-18	13:15	M1a-Footbridge at Ex Harbour Road Sports Centre	88	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Non WDII-CWB breaking works next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position.
						received.		Action taken / to be taken: Remarks / Other Obs:	A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure.  Despite trench excavation work was conducted by Contract HK/2009/02 around the concerned location during the time of measurement, no major noise emanation from the works was observed during monitoring. Meanwhile, breaking works by excavator mounted breaker was conducted under non-WDII-CWB contractor next to the monitoring station and observed as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2009/02.
X_18N009	23-Jan-18	13:15	M1a-Footbridge at Ex Harbour Road Sports Centre	88	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Non WDII-CWB breaking works next to the monitoring station was observed as the major noise contribution during monitoring with mechanical operation directly next to noise monitoring position.
						1000100		Action taken / to be taken: Remarks / Other Obs:	A repeat measurement was conducted to confirm result and reviewed the trend of previous noise monitoring and Contractor's working procedure.  No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while breaking works by excavator mounted breaker was conducted under non-WDII CWB contractor next to the monitoring station and observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/01.

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.	1) It was referred by AECOM to ET on 28 July 2011 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. 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. 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. 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.	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	1) It was referred by AECOM to ET on 8 August 2011 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. 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 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.	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	1) It was referred by AECOM to ET on 28 July 2011 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. 3) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 25 July and	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	4 August 2011 during daytime and evening time period 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	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.	
					Remarks: There will be counted as two complaints in this complaint log.	
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;	Closed
					Reduced in plant such that only have one vibration hammer operating at the west side near Four	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Seasons Hotel instead of 2 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	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01.     The Excavator mounted breaker at Convention Avenue	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				reclamation area.	and Drilling rig at HKCEC1 reclamation area were the 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 excluse 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 IECon 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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					occasionally outside the garbage defender. No conclusion 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 assess 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	Wan Chai	Complain about a tree near the	Dy the Contractor.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		LCSD complained via Contractor Complaint Hotline		site of pipe installation works 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.	<ul> <li>A tree near the site of pipe installation works outside Wan 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.</li> <li>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.</li> <li>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.</li> </ul>	
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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good 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. Futhermore, 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 IFCII'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 enought 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 vechicles. Reviewing the air qualiuty montioring 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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CWB project to the complainant and she was satisfied on the arrangement and no further complaint was received 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 Poad 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 vechicles. Reviewing the results of air qualiuty montioring 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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					by contractor on 19 January 2012. 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.	1) RSS notified ET on 5 March 2012. 2) ET confirmed with the Resident Site Staff that PME for diaphragm wall construction started to operate at about 7:30 am whilst the other PME, including those for land bored piling work, started to operate after 8 am. 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 7:00 am 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 8 am, 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. 4) Complainant called ICC on 8 March 2012 to confirm HyD has provided a response. No further complaint was received after the response.	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> <li>ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period.</li> </ol>	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					2012 via 1823. HyD replied that the current work CBTS were drilling, diaphragm wall construction deep excavations. In order to minimize the negenerated from the above works, the Contractor erected temporary noise barriers and provided negligible blankets on plants. RSS would continue to work the Contractor on the effectiveness of environmental mitigation measures implemented site. No further complaint was received after response.	nd se ad se
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.	2) ET confirmed with the Resident Site Staff that the was no operation of power generators for HY/2009 and HY/2009/17 (HY/2009/11 had no physical won site) during the concerned period. Although the were a few barges mooring at the seafront HY/2009/19, they were not in operation and hence the seafront seaf-the seafront HY/2009/19.	19 brk steel on hot of the bot of

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130308	06/03/2013	ICC Case#1- 407181502	Tin Hau	A complaint regarding the dropping of fine rock material 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.	<ol> <li>RSS notified ET on 8 Marc 2013</li> <li>ET confirmed with RSS that excavation works, 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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130606	30/5/2013	ICC Ref. No.: #1- 430164728	Central – Man Kat Street	A number of trees (approximately more than ten) 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.	1) RSS notify ET on 6 June 2013  2) ET confirmed with the Resident Site Staff that  According to the information provided by RSS, 13 no. of the trees - Roystonea regia (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- Khaya senegalensis (T1712) raised by the complainant was found to be in poor health condition.  No construction works was undertaken by Contract HY/2009/18 at the concerned planter area where the affected trees are located. 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.  3) A follow-up joint inspection with RSS and Landscape specialist was conducted on 10 June2013, it was	Closed
					considered that the witered 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 natrual 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)	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Mature of Complaint	During the follow-up inspection on 10 June 2013, It was observed that construction material and oil drum were 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.  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)  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.	Status

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130611	30 May 2013 and 1 June 2013	EPD Ref.:H04/RS/0001 1587-13	Area near Central Pier	Noise was emanated from the construction site near the Central Piers at around 0900 hrs on 30 May 2013 and other days and requested follow up action by relevant department.	1) RSS notify ET on 11 June 2013 2) ET confirmed with the Resident Site Staff that According the information confirmed by RSS, major noise generating construction activities undertaken at works area near Central Pier during the concerned time include  - Breaking up existing D-wall concrete and excavation at portion 4B and 4C - Sheet pilling works at Portion VI (Man Kat Street)  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.  Reviewing the noise monitoring data at monitoring stations (M7e- Internation 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.  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 of temporary noise barrier was observed in place.  As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified.  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.	Interim report submitted to EPD on 19 June 2013,  EPD advised no further comment on 5 Aug 2013and final report for case closing submitted on 6 Aug 2013.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
131010	03 Oct 2013	ICC Ref: No.1-467000768	Area between Central Pier and International Finance Centre	Noise and air quality impact was experienced at the area located between IFC and Central Pier during peak hours.	ET confirmed with the Resident Site Staff that  1) The major construction activities at the concerned location conducted over the past three months include;    - Formwork, rebar and concreting    - Backfilling    - Water-proofing    - Scaffolding erection  2) Mitgitation measures implemented by the Contractor for the above construction works include    - Select quiet plant and work methods;    - Check plant and equipment for condition;    - For use of powered mechanical equipment during restricted hours: Obtain necessary Construction Noise Permit and strictly comply with their conditions;    - Frequently spray water to major haul road and stockpiles to suppress dust generation; and    - Cover stockpiles with impervious sheets  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 vincinity 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.  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.	Closed

Complaint Log No. C	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
	·				Elevated noise level at monitoring station M7e (International Finance Centre East Podium) was noted 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.	
	16 Dec 2013	ICC Case Ref.: 1-484998552	Victoria Park near Hing Fat Street Exit	Sweeping of muddy water into public drains.	ET confirmed with the Resident Site Staff that  1)The major construction activities around the concerned location conducted on 16 Dec 2013 a.m.includes:  -Preparation work of rootball for tree transplanting  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.  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.  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.  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	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
131224	24 Dec 2013	(ICC Case Ref.: 1-486434321	Victoria Park Children Playground	Odour and large amount of dust particles affecting the public user of the Victoria Park near Children playground	ET confirmed with the Resident Site Staff that  1) The major construction activities around the concerned location conducted on 24 Dec 2013 include:  - Breaking up exisitng pillar box for new children playground Portion II  - Pressing of sheet pile at bowling green for ELS works Portion XII  - Welding work for preparation of sheetpilling work at bowling green Portion VI  - Demolition of existing pavilion for bowling green Portion VI  -Felling of tree TA50 at Victoria Park Zone  2) Mitgitation measures implemented by the Contractor for the above construction works include  -Water spraying for demolition and other dust generating works.  According to the relevant site records, breaking up of exisitng pillar box, pressing of sheet pile, welding work for preparation of sheetpilling demolition of exisitng pavilion and felling of tree TA50 at Victoria Park Zone 13 were conducted at the concerned location during the time of complaint.  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.  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.  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	Case closed 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
					for TA50 was immediately in front of the location of the 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.  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.	
140123	22 Jan 2014	ICC Case Ref.:1- 494077682	Causeway Bay Typhoon Shelter	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.	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.  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;  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	Case closed and full investigation report issued on 4 Feb 2014.

Log No.   Complaint   and Received By   Complainant	Outcome	Status
Log No. Complaint and Received By Complainant	According to the relevant site records, from 1900-0000hrs 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.  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.  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,  No acoustic installation was provided for the relevant PME(s) used as stated in CNP conditon 3.d.during the concerned concreting works.  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.  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.a. and condition 3.d. in CNP no.GW-RS1384-13.  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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140127	24 Jan 2014	ICC Case Ref.: 1-494612639	Works area adjacent to the Victoria Park Bowling Green	Noise generated from piling works conducted at the works area adjacent to the Victoria Park Bowling Green have created nuisance to the Bowling Green users.	ET confirmed with the Resident Site Staff that The major construction activities around the concerned location conducted on 23 Jan 2014 include:  Pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works on 23 Jan 2014. Splicing of sheetpile Ch.275-285 (LHS) for ELS works on 23 Jan 2014.  Mitigation measures implemented by the Contractor for the above construction works include: Installation of acoustic panels along hoarding line at East Bowling Green; Installation of addition noise barriers on top of hoarding at East Bowling Green; Display of publicity notices along hoarding line; and 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).  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.	Case closed and full investigation report issued on 6 Feb 2014.
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					East Bowling Green when there is any Bowling Green competition event to be held.	
					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 nonconformity was identified.	
140311	27 Feb 2014	EPD Complaint Case (Ref:H04/RS/00 04232-14) 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.	ET confirmed with the Resident Site Staff that  The major construction activities at the concerned location conducted on 27 Feb 2014 (Daytime) include:  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.  Mitigation measures implemented by the Contractor for the above construction works include:	Interim report submitted to EPD on 18 March 2014, EPD advised no further comment on 26 March 2014 and final report for case closing issued on 26 March 2014
					Use of quiet plants (air compressor with a Noise Emission Label of 99 dB(A)).	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					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 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.  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.	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140623	11 June 2014	EPD Complaint Case (Ref:H04/RS/00 013590-14) received by ET on 23 June 2014	Foot Bridge to Central Pier 7	Excessive Paint Spray Odour	A public complaint regarding odour concern referred by EPD was received by ET on 23 June 2014.  The complainant reported that excessive paint spray odour was detected at the foot-bridge to the Central Pier 7.  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  Screeding concrete placing from Ch1700 to Ch1683 was conducted at roof slab Bay12 on 11 June 2014 and  Backfilling and removal of concrete blocks was conducted at roof slab Bay 11 and Bay 10-north on 11 June 2014  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 and paint adhesives.  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.	Preliminary report issued on 25 June 2014.  Interim report submitted to EPD on 30 June 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
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	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:  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.  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.  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 dewatering pump were in	Final Investigation report (Issue1) issued on 31 July 2014.  Final investigation report (Issue 2) based on further follow- up issued on 12 Aug 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					operation at the above period.  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.  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.  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.  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 & machinery through cross harbour tunnel shall be conducted after mid-night.  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. 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).	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20140801	30 July 2014	ICC complaint (ICC Case Ref.: 2-360638977) received by ET on 01 August 2014	Area opposite to Habour 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.
					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).  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).	
					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.	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					above period).	
					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.	
					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 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.	
					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.  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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
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	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)  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.  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.  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 sofit of the permanent noise enclosure at the new Islannd Eastern Corridor Eastbound.  The lighting was necessary to provide sufficient illumination for the 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.	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
					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 cased 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.	
					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.	
					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 cased 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
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	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 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.  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.  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 sofit of the permanent noise enclosure at the new Islannd Eastern Corridor Eastbound.  The lighting was necessary to provide sufficient illumination for the 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.	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
Log No.	Complaint	and Received By	Complainant		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 cased 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.  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.  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 cased 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
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	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.	Final investigation report submitted on 14 Oct 2014.
					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 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.  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 cased 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  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.	
141016	14 Oct 2014	EPD complaint EPD Ref.:H05/RS/00 025795-14) 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.	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).  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 Ferry Pier and opposite to Wan Chai Sports Ground.	Updated interim investigation with supplementar y information submitted to EPD on 17 November 2014.
					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.  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.	EPD advised no further comment on the updated interim report and case closed on 27 Nov 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		-			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 implemented by the Contractor of HK/2009/02.	
					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.	
					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.	
					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.	
					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 implemented by the Contractor of HK/2009/02.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					In view of the above findings, no direct information associated with the noise concern was considered available.	
20141108	07 Nov 2014	EPD complaint (EPD Ref.: H05/RS/00027 815-14) 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.	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).  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.  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).  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.	Interim investigation report submitted to EPD on 17 November 2014.  EPD advised no comment on the interim report and case closed on 1 Dec 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)	
					Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated.	
					According to the relevant site records under Contract 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.	
					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.	
					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	
					The interim report would be submitted to EPD on 17 November 2014.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20141113	12 Nov 2014	EPD complaint (EPD Ref.: H05/RS/00028 253-14) 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.	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 thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pederarens. (Contract HK/2009/02)	Interim investigation report submitted to EPD on 19 November 2014.
					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.	EPD advised no comment on the interim report and case closed on 8
					According to the relevant site records under Contract HK/2009/02, demolition works was conducted 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.  In addition, investigation found that due to	Dec 2014.
					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.	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) 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.	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.  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 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  According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and 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.	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.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  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.  As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no nonconformity 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.  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	

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					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.	
					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.	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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/ 00008074-15 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	A public complaint regarding construction dust impact referred by EPD was received by ET on 09 April 2015 (EPD Ref.:H05/RS/00008074-15 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.	Interim repor submitted to EPD on 17 April 2015, EPD advisec no commen on 30 April 2015 on the interim repor submitted and case closed.
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					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 under Contract HK/2009/01 while on 9 April 2015 major vechicle 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.	
					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.	
					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 desposit to avoid further dust impact.	

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					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.	
					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.	
20150409A	03 April 2015 to 07 April 2015	EPD complaint (Ref.:H05/RS/ 00007861-15 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 Habour 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/00007861-15 dated 9 April 2015). The complainant reported that construction noise was emanated from the construction site at Convention Avenue near Renaissance Habour 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 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.	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.
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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. 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.	
					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.	
20150415	13 April 2015	ICC complaint case (ICC Case Ref.: 2- 885677297 dated 13 April 2015) recevied by ET on 15 April 2015	Construction Site at Causeway Bay Typhoon Bay Shelter	Unnecssary light nuisance from the construction site	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."	Final Investigation report issued on 20 April 2015 and case closed
					ET confirmed with the Resident Site Staff that the concerned lighting for the banners was maintained under Contract HY/2010/08.  The concerned lighting for the banners was maintained 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.	

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20150423	21 April 2015	EPD complaint case (EPD Case Ref: :H05/RS/ 00009456-15 dated 23 April 2015) recevied 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	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.  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.  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 period.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20150601	29 May 2015	EPD complaint case (EPD Case Ref: :H05/RS/ 00013254-15 dated 1 June 2015) recevied by ET on 23 April 2015	Construction site gates V2 and V3 near Expo Drive Central	Vehicle with plate no. TG2426 was found leaving the construction site at gate V2 near Expo Drive Central without wheel- washed	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). 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.  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.  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.  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. 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.	Interim report submitted to EPD on 08 June 2015, EPD advised no comment on 22 June 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
					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 construction site exits.	
20150608	04 June 2015	EPD Ref.:H05/RS/0 0013843-15 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.	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.  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.  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	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.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  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.  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-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	
150622	18 June 2015	EPD Ref.:H05/RS/0 0015054-15 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	potential noise nuisance to nearby public.  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.	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.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
	•		•		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 & 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 & 4 for	
					transportation of the excavated material away from	
					site.	
					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 & 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 was moored under	
					Contract HK/2009/02 near Portions 3 & 4 for	
					transportation of the excavated material from	
					Portions 3 & 4 away from site on 15 June 2015,17	
					June 2015 and 19 June 2015 respectively.	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					observed moored near Portions 3 & 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 maldour emission affecting nearby public.	
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	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:  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.  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.  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.  Follow-up inspection was conducted during weekly environmental inspection on 14 July 2015, no direct discharge connection was further observed on site.	Updated Final investigation report submitted on 27 July 2015.

				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.	
				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.	
20 July 2015	EPD Ref.:H05/RS/0 0018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	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).  The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02).  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.  According to the relevant site records under	Interim reposubmitted to EPD on 30 July 2015. EPD advise no commen on 17 Augu 2015 on the interim reposubmitted a case closed
		2015 Ref.:H05/RS/0 0018040-15 dated 23 July	2015 Ref.:H05/RS/0 Pier near 720 & & 722 Bus stop dated 23 July	2015 Ref.:H05/RS/0 Pier near 720 & & sediment 722 Bus stop dated 23 July	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.  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.  Per Ref.:H05/RS/0 0018040-15 dated 23 July 2015 per near 720 & 8 722 Bus stop  Malodour from marine sediment sediment sediment sediment reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02).  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.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  Nevertheless, the Contractor was reminded to review the 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	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 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 laoding of material	malodour impact to nearby public.  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)  ET confirmed with the Resident Site Staff that transferring of C&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.  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.	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.
					According to the relevant site records under Contract HK/2009/02, transferring of C&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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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&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&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.  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/0002 2385-15 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	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&D material at the site. (Contract HK/2012/08)	Interim report submitted to EPD on 14 September 2015. 2nd interim report submitted to EPD on 17 Dec 2015

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				transporting C&D material	ET confirmed with the Resident Site Staff that from	3 <sup>rd</sup> interim
				at the site.	0800 hrs to 1800 hrs on 30 August 2015, removal of	report
					scaffold and timber and installation of bulkhead was	submitted to EPD on 31
					undertaken by the Contractor of HK/2012/08 at the	Dec 2015
					concerned location. Total one generator and one	
					circular saw were in operation.	
					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.	
					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.	
					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.	
					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.	
					Based on the relevant site records, from 0800 hrs to	
					1800 hrs on 30 August 2015, removal of scaffold	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					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.	
					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. 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
151117	Not	EPD	Causeway Bay	Improper handling or	A public complaint regarding illegal disposal of	Interim
	specified	complaint	Typhoon Shelter	bentonite and marine	construction waste referred by EPD was received by	investigation
		received by ET on 17		sediment generated from construction works and	ET on 17 November 2015. The complainant	report submitted to
		Novmeber		contaminated discharge	reported that over 10,000 m3 of bentonite after	EPD on 24
		2015		from water treatment plant	usage for construction of diaphragm wall was	November
				into Victoria Habour	disposed of at Victoria Habour.	2015.
					The Contractor recently deployed mobile crane to	2 <sup>nd</sup> interim
					transfer the bentonite from mud pit on to works	investigation
		barge. The bentonite was then mixed with soil and	report submitted to			
					transported to the Public Fill. During the course,	EPD on 17
					seepage of slurry through grab generated drop off to	December
					marine waters and the soil mixing generated dust	2015.
					impact to nearby yacht club, typhoon shelter and	3 <sup>rd</sup> interim investigation report submitted to EPD on 31
					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	December
					sediment was covered by sand and soil and	2015.
					transported to the Public Fill.	Final
					White or greyish effluent was discharged directly	investigation
					into Victoria Habour marine waters from wastewater	report
					treatment plant on construction site.	submitted on 5 February 2016.
					In response to the complaint concern, additional	2010.
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 activities during the	
					concerned period and the quantities of inert C&D	
					material disposed.	
					Specific enhancement on site supervision was	
					undertake by the CWB RSS team to ensure the	
					properly 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	
					were monitored on daily basis to record of the	
					residue bentonite transferred for mixing and final	
					disposal.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					The Environmental Team will continue to keep in	
					view on the contractor environmental mitigation	
					measures during the routine inspections, with	
					specific attention at TS3 area on the effectiveness	
					of Contractor's remediation measures and check the	
					implementation of site measures in accordance with	
					the EIA and EM&A Manual recommendations.	
ICC	26 No	ICC complaint	Construction area	Noise nuisance due to	A public complaint regarding noise impact referred	Final
complaint	2015	received by	outside City	windblown slapping of a	by RSS was received by ET on 27 November 2015	investigation
case (ICC Ref: 2-		ET on 27 November	Garden Block 11	metal onto adjacent barrier at night time	(ICC Case Ref.: 2-1593165694 dated 26 November	report to be issued on 01
159316569		2015			2015). The complainant reported that noise was	December
4)					emanated from the IECL construction site outside	2015.
dated 26					City Garden Block 11 due to the windblown slapping	
November 2015					of a metal sheet onto adjacent barrier causing	
2015					nuisance to nearby residents at night time.	
					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.	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
EPD complaint case (EPD Ref: H04/RS/00 028924-15 dated 04 December 2015	12 Novemb er 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	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  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 backfilling was stored at the concerned location by Contract HY/2009/18 on 12 November 2015.  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.	1st interim report submitted to EPD on 14 December 2015  2nd interm report suibmitted to EPD on 4 January 2016  EPD advised no comment on 07 January 2015 on the report submitted and case closed.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					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 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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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	14	EPD	Construction area	Incessant noise emanating	A public complaint regarding noise impact referred	Final report
complaint	Decemb	complaint	outside City	from the construction site	by RSS was received by ET on 16 December 2015	was issued on 23 December
case (ICC Case Ref:	er 2015	received by ET on 04	Garden Block 10 and Block 11	of the Island East Corridor	(ICC Case Ref.: 2-1656689815 dated 14	2015 and
2- 165668981		December 2015	and block in	link that forms part of the Central Wanchai Bypass Project	December 2015). The complainant reported that:	case closed.
5		2010		11900	Incessant noise emanating from the construction	
dated 14					site of the Island Eastern Corridor Link that forms	
December 2015					part of the Central-Wanchai Bypass Project.	
					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	
					untill 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	

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					living in nearby blocks of our estate, especially	
					children and the elderly who have to stay at home	
					for longer hours.	
					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.	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 Environmnetal 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 accordance	
					with the Environmental Permit requirement opposite	
					to City Garden was substaintially 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/00 000570-16 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.	A public complaint regarding construction noise referred by EPD was received by ET on 14 January 2016 (EPD Ref.: H05/RS/00000570-16 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)  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.	Interim investigation report submitted to EPD on 22 January 2016. EPD advised on 17 February no comment on the interm report submitted and case closed.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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 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.	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).  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.  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	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
					surroundings.	
					The first complainant on 14 January 2016 reported that the situation was not improved and would escalate the case if not addressed.	
					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.	
					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.	
					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.	
					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.	
					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 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	
					indicating the association with the Contractor of HY/2009/15 is considered available.	
					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.	
complaint Jan	22 anuary 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	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).  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.  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.  Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016.  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.  According to relevant site records and information	Interim investigation report submitted to EPD on 01 February 2016. EPD advised on 17 February no comment on the interm report submitted and case closed.

Complaint Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
			Nature of Complaint	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.  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.  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.	Status
				surroundings.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 03169-16 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	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:  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.  ET confirmed with the Resident Site Staff that 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.  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.  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.	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
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	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.  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.  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.  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.  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	1st investigation report issued on 11 March 2016.  2nd investigation report issued on 23 March 2016 and case closed.
					environmental site inspection on 08 March 2016	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint	and no particular noise emanating works was observed.  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.  Nevertheless, in view of the public concern, the Contractor is recommended to maintain regular	Status
					March 2016.  Nevertheless, in view of the public concern, the	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 05206-16 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	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.  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.  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 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.  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	Interim investigation report submitted to EPD on 18 March 2016.  EPD advised no comment on 29 April 2016 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
	<u> </u>		-		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	
					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	1
					at the waterfront of Lung King Street by the	
					Contractor of HK/2012/08. Upon investigation, the	
					concerned observed floating foam at the waterfront	1
					of Lung King Street was found originating from the	
					diverted cooling mains discharge.	
					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	ĺ
					covering was implementing for excavator mounted	ĺ
					breaker. In addition, removal of floating refuse on	1
					site was observed implemented by the Contractor	
					of HK/2012/08 and no accumulation of floating	
					refuse was found. The concerned foam originating	ĺ
					from diverted cooling mains discharge was	ĺ
					observed during inspection and the dispersion of	
					the concerned foam of unknown chemical nature	
					was observed isolated from the nearby public area.	ĺ
					was observed isolated from the hearby public area.	
					Nevertheless, in view of the public concern, the	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
EPD Ref.: H05/RS/000 06732-16 dated 10 March 2016	H05/RS/000 2016 06732-16 dated 10	EPD complaint received by ET on 31 March 2016	Seafront opposite to City Garden	Muddy water discharge from construction site outside City Garden	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:	The interim investigation report was submitted to EPD on 11 April 2016.
					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 Habour via a drain hole.  ET confirmed with the Resident Site Staff that pipe	EPD advised no comment on 02 September 2016 on the interim report
				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.	submitted and case closed.	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  i)Plugging the inlet point of the concerned manhole (connecting to the abandoned U-channel) with concrete;  ii)Plugging the outlet of the concerned manhole (connecting to the observed drain hole) with	
					concrete;	
					<ul><li>iii)Filling the concerned manhole with rubbles;</li><li>iv)Shifting the unused wastewater treatment plant around the concerned location to other site location for use.</li></ul>	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					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.	
					In addition, it was noticed that water was discharged from a piping extending from City Garden and the discharged 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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					of the observed pipping with discharge to prevent further seepage water into the construction site.	
H08/RS/000 07662-16	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	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).  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  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.  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.	The interim report was submitted to the EPD on 14 April 2016.  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.  EPD advised no comment on 02 September 2016 on the interim report submitted and case closed.

int and Received By	Complainant		Outcome	Status
			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 HY/2009/19 for starter bars drilling works.	
ICC complaint case received by ET on 11 April 2016	Victoria Park Road Pedestrian Pathway	Toppling of tree	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.  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.  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	Investigation Report issued on 15 April 2016 and case closed
	case received by ET on 11	case received by ET on 11 Pedestrian Pathway	case received by ET on 11 Pedestrian Pathway	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 HY/2009/19 for starter bars drilling works.  Ch. ICC complaint case received by ET on 11 April 2016  Ch. ICC complaint case received by ET on 11 April 2016  Ch. 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.  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.  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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
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).	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).  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. Surface runoff control measures including provision of concrete bund at the concerned location was implemented by Contract HK/2009/02. No soil & silt deposition along the seawall at the concerned location on 12 April 2016. No discharge point located in the vicinity of the concerned location under Contract HK/2009/02. Silt curtain with buoyancy floats acting as anchor points was installed at Monitoring Station RW21-P789 for Water intakes.	Investigation report issued on 19 April 2016 and case closed

Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				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.  Follow-up inspection was conducted on 14 April 2016, no surface runoff from the construction site nor discharge of 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref.: H05/RS/000 08367-16 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	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.  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.  Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.  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 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.	Interim investigation report was submitted to the EPD on 21 April 2016.  EPD advised no further comment on 06 June 2016 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
					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.	
					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.	
EPD Ref: H05/RS/000 12646-16 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	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). 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.	Interim investigation report submitted to EPD on 7 June 2016.  EPD advised no further comment on 05 August 2016 on the report submitted and case closed.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					RSS, 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. 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.  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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD Ref: H08/RS/000 14627-16 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.	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.  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 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.  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.  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.  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.	The interim report submitted to the EPD on 29 June 2016. EPD advised no comment on the interim report submitted and 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
					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. 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 surroundings.	
EPD Ref: H08/RS/000 16213-16 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.	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. 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.  Noise mitigation measures including equipping the crawler crane with noise barrier was implemented	The interim report submitted to the EPD on 22 July 2016

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					by the Contractor of HY/2010/08.	
					Dust mitigation measures including manual spraying of water and mist nozzles are deployed on the ground level and at the cofferdam.	
					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.	
					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 water and mist nozzles were deployed on the ground level and at the cofferdam.	
					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.	
					In view of the above, the Contractor of HY/2010/08 was advised to review the site control system for	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
EPD Ref: H08/RS/000 22448-16 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	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.  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.  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 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 and 1 no. of grout pump were in operation.	The interim report submitted to EPD on 20 September 2016.  EPD advised no comment on 31 October 2016 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
					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.	
					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. 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 grout mixer, 1 no. of agitator and 1 no. of grout mixer, 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.	
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				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.  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	The interim investigation report was submitted to EPD on 18 October 2016.
					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).	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					GW-RS0434-16 and GW-RS0407-16 were in place for the construction works conducted during the above concerned periods.	
					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.	
EPD Ref: H05/RS/0002 9722-16 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.	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.	Interim investigation report submitted to EPD on 29 November 2016.
					ET confirmed with the Resident Site Staff that 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, 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  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 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD ref: H08/RS/0003 0890-16 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.	report submitted to EPD on 16 December 2016.

EPD complaint 10 January 2017 2017 2017 2016 2016 2016 2016 2017 2016 2016 2016 2016 2016 2017 2016 2016 2016 2016 2016 2016 2016 2016

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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 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 standby within TS3 Works area.	
					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 standby within TS3 Works area.	
					From 2030hrs to 2300hrs, total 1 no. of Lorry Mounted Concrete Pump and 2 nos. of Concrete Lorry Mixers were operated at TS3.	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.  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.	
ICC complaint case (Ref: #2- 321884477 6) dated 23 December 2017	22 Dec 2016	ICC complaint case referred by RSS received by ET on 18 January 2017	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 flush to the communal drain by Chun Wo-China Railway JV HK/2009/02.	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 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. 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.	Final investigation report issued on 23 January 2017.
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Log No.	Complaint	and Received By	Complainant		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.  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.  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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC complaint case (Ref: #2-351203393 6) 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.	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.  No works was conducted under Contract HY/2010/08near 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.  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.	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: #2-351547483 1) 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.	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.	Final Investigation Report issued on 07 March 2017 and case closed.
					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.	
					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.	
					Based on the site records confirmed by RSS, no works was conducted under Contract HY/2010/08	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 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.	
					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.	

Complaint Date of Complain	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				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.  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.	
				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.  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	

ICC complaint case (Ref. #22 2017)  1S2 109757   General Complaint (ase referred by RSS) are received by ET on 27 February 2017 (CASE#2-3521097579)   dated 22 February 2017   Oxford Harbour (ase due to 2017)   The complainant reported that noise was emanated from the construction Site at Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was observed on scene.    Final (investigation)   Final (inve	Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
	ICC complaint case (Ref: #2-352109757 9) dated 22 February	22 February	ICC complaint case referred by RSS received by ET on 27 February	Construction Site at Victoria Harbour	the construction Site at Victoria Harbour near Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was	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.  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.  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 21 February 2017 and between 0000hrs to 0200hrs on 22 February 2017.  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	Investigation Report issued on 02 March 2017 and

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
ICC Complaint Case (CASE #2- 357615753 8 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.	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.	Investigation report issued on 10 March 2017 and case closed.
2017)					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.	
					Tunnel backfilling and construction of temporary walls at Portions 3&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.	
					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&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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					ground level. Relevant Construction Noise Permit GW-RS1305-16 was in place.	
					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.	
EPD complaint (Case Ref: H05/RS/00 06240-17)	05 March 2017	EPD complaint referred by RSS was received by ET on 14 March 2017. EPD clarified the complaint case shall be was 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.	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.  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.  Tunnel backfilling and construction of temporary walls at Portions 3&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.	Interim Investigation report issued on 10 March 2017 and case closed.  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
					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&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.  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	
ICC complaint Case (CASE#2- 360318289 0) 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.	to avoid potential nuisance to the nearby public.  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.  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.	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
					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.	
					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.	
EPD complaint Case (CASE Ref: H05/RS/00 014415-17(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	Construction work was found on 10 May 2017 (~03:52) that caused noise nuisance.  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.	An EPD complaint was referred to the ET on 18 May 2017 (CASE Ref: H05/RS/00014415-17(14448-17). The complainant reported that:  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.	Interim Investigation report submitted to EPD on 26 May 2017.  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
				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.	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.  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.	
					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 13 May 2017 around 00:40 hrs. No construction operation and no PME deployment was observed at the time of inspection.	
					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	

Log No.   Complaint   and Received By   Complainant	Outcome	Status
	2017 around 22:20hrs. 2 nos. of concrete truck, 1 no. of concrete pump tuck were observed in operation at the time of inspection and relevant CNP GW-RS0334-17 was in place.  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.  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.	

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).	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).  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.  According to the RSS site information, the following PMEs were operated at intervals between the time period of 0730hrs to 1740hrs; ii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0730hrs to 1740hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0730hrs to 1740hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos	Investigation report submitted to EPD on 02 June 2017.  EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed

	operated at intervals between the time period of	
ite	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.	
C C Tree 22 E E 22 Tree 1 Tree	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 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint  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.	An EPD complaint was referred to the ET on 13 July 2017 (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.  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.  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	Interim investigation report submitted to EPD on 21 July 2017.  EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed
					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.	
					No construction activity and site operation was carried out under Contract HK/2009/01 from 2300hrs to 2400hrs on 26 June 2017.	
					According to the RSS site information, manual rebar 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)	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					remedial measures to ensure the strict construction noise permit compliance including:- 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.	
					To assign delegated and competent personnel onsite 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.	
					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 workers awareness and understanding on relevant Construction Noise Permit(s) requirement during restricted hours.	
					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.	
					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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Construction Noise Permit Compliance. A detailed implementation plan would be prepared by the Contractor of HK/2009/02 and further supplemented.	
EPD complaint Case (CASE Ref: H05/RS/00 022136-17) dated 17 July 2017  ICC complaint case (Ref: 2-412202158 9) dated 14 July 2017	14 July 2017	EPD complaint referred to ET on 17 July 2017  ICC complaint referred to ET on 25 July 2017	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.	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.  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.  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.  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 2017. Total 1 no. of hand held breaker and 1 no. of hand held drill for grout mixing were operated.  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 0000 was carried out under Contract HY/2009/19 around the concerned location from the concerned l	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Eog No.	Companie	and Necewed by	Complamant		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.  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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
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.	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.  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.  Dust mitigation measures including water spraying was implemented for the above construction activities on 25 July 2017 at the concerned location.  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	Investigation report issued on 04 August 2017 and case closed.
					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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Subsequently, Contractor of HK/2009/02 was reminded to enhance the dust suppression measure for the dust generating works.	
					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.	
EPD complaint Case (CASE Ref: N/A) dated 06 September 2017	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 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.	Investigation report issued on 15 September 2017. EPD advised no comment on 09 Oct 2017 on the interim report submitted and case closed
					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:-	
		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;  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;  Construction site surface with dusty materials should be sprayed with water to maintain entire surface wet to avoid potential dust impact to the surroundings.	
			construction dust mitigation measures, as appropriate, to avoid potential dust impact to the surroundings:-  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;  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;  Construction site surface with dusty materials should be sprayed with water to maintain entire surface wet to avoid potential dust impact to the

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint  On recent Sundays during midnight hours, noise were emanated from road construction works and excavators for consecutive hours without any noise mitigation measures.	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.  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.  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.	Final Investigation report issued on 30 September 2017 and case closed.
					xix. 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	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
					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.	
					In view of the above findings, the Contractor of HY/2010/08 was requested to immediately	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 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: #2-4320996036) dated 08 November 2017	08 Novemb er 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	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.  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	Investigation Report issued on 23 November 2017 and case closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					with relevant Construction Noise Permit GW-RS0837-17.  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 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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
EPD complaint (Case ref: H08/RS/0003 7826-17) dated 24 November 2017	21 November 2017	An EPD complaint (Case ref: H08/RS/0003782 6-17) 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 HY/2011/08 on 20 November 2017 between 2130hrs to 2230hrs.  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.  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.	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
complaint	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	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.  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 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.	Interim investigation report submitted to EPD on 21 December 2017.  EPD advised on 08 Jan 2018 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
EPD complaint (H08/RS/000 00972-18) dated 11 January 2018	08 January 2018	An EPD complaint (Case Ref: H08/RS/0000097 2-18) 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 operation.  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 pokers were operated without a valid Construction Noise Permit.  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	Interim investigation report submitted to EPD on 23 January 2018.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					noise permit(s) requirement during restricted hours.  Follow up inspection during restricted hours was conducted by the Environmnetal Team on 18 January 2018, no construction operations was observed around the concerned location	
EPD complaint (H08/RS/000 01430-18) dated 17 January 2018	15 January 2018	An EPD complaint (Case Ref: H08/RS/0000143 0-18) 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	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.  ET confirmed with the Resident Site Staff that cable laying was conducted under Contract HY/2011/08 within the site area near Watson Road on 15 January 2018.  No construction works was conducted under Contract HY/2009/19 near Watson Road on 15 January 2018.  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.  Follow up inspection was conducted by the Environmnetal 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. Seperately, 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.	

	 Location of Complainant	Nature of Complaint	Outcome	Status
			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.	

#### Appendix 10.1

Construction Programme of Individual Contracts

Contract No. HK/2009/01 Wan Chai Development Phase II – Central -Wan Chai Bypass at Hong Kong Convention and Exhibition Centre

### **Construction Activities for Three Months Rolling**

Construction Activities	November 2017	December 2017	January 2018
Reinstatement of Amenity Area			

Page 1 of 5

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ning Installation of the Corrosion Monitoring System - Backfilling and final reinstatement  ing Installation of the Corrosion Monitoring System - Expose and inspect the reserved CMS cables ning Installation of the Corrosion Monitoring System - Construct draw pit and ductings ning Installation of the Corrosion Monitoring System - Cable connection and testing the connectivity ning Installation of the Corrosion Monitoring System - Backfilling and final reinstatement  ocks in Tunnel Portion 3 & 4  Seawall Block Schedule in the area of TP34  tion Yard and Formwork for Precast Seawall Blocks  te for Precast Seawall Blocks (175 nos.@ 7nos./day)  cast Seawall Blocks (175nos.@ 9nos./day)	12 6 6	14 6 6	27-Nov-17 31-Aug-17 A 04-Nov-17	30-Nov-17		,	1 1 1 1			the Corrosion Monitoring System - Ca
ning Installation of the Corrosion Monitoring System - Expose and inspect the reserved CMS cables ning Installation of the Corrosion Monitoring System - Construct draw pit and ductings ning Installation of the Corrosion Monitoring System - Cable connection and testing the connectivity ning Installation of the Corrosion Monitoring System - Backfilling and final reinstatement    Ocks in Tunnel Portion 3 & 4	12 6 6	6	31-Aug-17 A 04-Nov-17			HK Working Day	1 1 1			of the Corrosion Monitoring System -
ning Installation of the Corrosion Monitoring System - Construct draw pit and ductings ning Installation of the Corrosion Monitoring System - Cable connection and testing the connectivity ning Installation of the Corrosion Monitoring System - Backfilling and final reinstatement    Ocks in Tunnel Portion 3 & 4	6	6	04-Nov-17	03-Nov-17			<del> </del>			
ning Installation of the Corrosion Monitoring System - Construct draw pit and ductings ning Installation of the Corrosion Monitoring System - Cable connection and testing the connectivity ning Installation of the Corrosion Monitoring System - Backfilling and final reinstatement    Ocks in Tunnel Portion 3 & 4	6	6	04-Nov-17	03-1404-17	-58	HK Working Day	1 1 1		/CR3, Remaining Installation of the Corrosion Monitoring Sy	vstem - Expose and inspect the reser
ning Installation of the Corrosion Monitoring System - Cable connection and testing the connectivity ning Installation of the Corrosion Monitoring System - Backfilling and final reinstatement  ocks in Tunnel Portion 3 & 4  Beawall Block Schedule in the area of TP34  ion Yard and Formwork for Precast Seawall Blocks  te for Precast Seawall Blocks (175 nos.@ 7nos./day)  cast Seawall Blocks (175nos.@ 9nos./day)	6	6		10-Nov-17	-58	HK Working Day	-	T1 1 1	WCR3, Remaining Installation of the Corrosion Monito	
ocks in Tunnel Portion 3 & 4 Seawall Block Schedule in the area of TP34 ion Yard and Formwork for Precast Seawall Blocks ter for Precast Seawall Blocks (175 nos. @ 7nos./day) cast Seawall Blocks (175nos. @ 9nos./day)		-	10-Nov-17	16-Nov-17	-58	HK Working Day	-	TI I T	WCR3, Remaining Installation of the Corrosion	
ocks in Tunnel Portion 3 & 4 Seawall Block Schedule in the area of TP34 ion Yard and Formwork for Precast Seawall Blocks te for Precast Seawall Blocks (175 nos. @ 7nos./day) cast Seawall Blocks (175nos.@ 9nos./day)	4		16-Nov-17	21-Nov-17	-58	HK Working Day	-		WCR3, Remaining Installation of the Con	
Seawall Block Schedule in the area of TP34 ion Yard and Formwork for Precast Seawall Blocks te for Precast Seawall Blocks (175 nos. @ 7nos./day) cast Seawall Blocks (175nos. @ 9nos./day)			10-1100-17	21-1100-17	-30	TIK WOLKING Day	<del>- </del>		WCR3, Refraining installation of the con	TOSION WIGHTONING SYSTEM, - BACKINING
Seawall Block Schedule in the area of TP34 ion Yard and Formwork for Precast Seawall Blocks te for Precast Seawall Blocks (175 nos. @ 7nos./day) cast Seawall Blocks (175nos. @ 9nos./day)										
ion Yard and Formwork for Precast Seawall Blocks te for Precast Seawall Blocks (175 nos. @ 7nos./day) cast Seawall Blocks (175nos. @ 9nos./day)			40.0 : 47.4							
te for Precast Seawall Blocks (175 nos.@ 7nos./day) cast Seawall Blocks (175nos.@ 9nos./day)	18	17	18-Oct-17 A	07-Nov-17	-683	HK Working Day	1	1 1 1	Finalization of Seawall Block Schedule in the area of TP3	
cast Seawall Blocks (175nos.@ 9nos./day)	14	14	08-Nov-17	22-Nov-17	-683	HK Working Day			Set up Fabrication Yard and Formwork to	
, ,,	30	30	22-Nov-17	23-Dec-17	-683	HK Working Day	ļļ.		Placi	ong concrete for Precast Seawall Bloc
Repariring Works (35nos. @ 20nos./day)	21	21	23-Dec-17	17-Jan-18	-683	HK Working Day				Delivery of Pr
	21	21	18-Dec-17	12-Jan-18	-678	HK Working Day				Seawall Blocks Re
on CH 3710 to CH 3790 (East)										
emp D-Wall - Remove ELS S1 Grid 9 - Grid 15	10	10	24-Dec-17	03-Jan-18	-714	Calen dar Day			_	Works within Temp D-Wall -
emp D-Wall - Place Levelling Stones for Permanent Seawall Blocks (260m3 @ 50m3/day)	12	12	06-Jan-18	18-Jan-18	-684	HK Working Day				Works within
emp D-Wall - Install Permanent Seawall Blocks (563 nos. @ 20 nos./day)	30	30	19-Jan-18	26-Feb-18	-684	HK Working Day				
Temp D-Wall - Remove concrete parapet of at-grade road	12	12	23-Oct-17	06-Nov-17	-664	HK Working Day	1		Works outside Temp D-Wall - Remove concrete parapet	of at-grade road, Works outside Tem
Temp D-Wall - Remove run-in of at-grade road	5	5	06-Nov-17	10-Nov-17	-664	HK Working Day			Works outside Temp D-Wall - Remove run-in of at-gr	rade road, Works outside Temp D-W
Temp D-Wall - Remove 10m free zone behind the northern D-Wall (900m3@300m3/day)	3	3	09-Dec-17	13-Dec-17	-684	HK Working Day	1		Works outside T	Temp D-Wall - Remove 10m free zon
on CH 3630 to CH 3710 (West)										
emp D-Wall - Remove ELS S1 Grid 0 - Grid 4	11	0	25-Sep-17 A	03-Oct-17 A		HK Working Day	Works within	emp D-Wall;- Remove	ELS S1 Grid 0 - Grid 4	
emp D-Wall - Place Sorted Public Fill from -3.0mPD to +1.5mPD with 35 deg fill slope (2,800m3@200m3/d)	14	14	24-Oct-17	09-Nov-17	-636	HK Working Day			Works within Temp D-Wall - Place Sorted Public Fill from	om -3.0mPD to +1.5mPD with 35 der
emp D-Wall - Complete the Removal of Temp Bridge No. 1	0	0		13-Nov-17	-546	HK Working Day	1		♦ Works within Temp D-Wall - Complete the Remove	val of Temp Bridge No. 1
emp D-Wall - Place Levelling Stones for Permanent Seawall Blocks	7	7	04-Jan-18	11-Jan-18	-590	HK Working Day	1			Works within Temp
emp D-Wall - Install Permanent Seawall Blocks in dry condition (1st to 3rd) (563 nos.@20 nos./d)	29	29	12-Jan-18	12-Feb-18	-590	HK Working Day	1			
emp D-Wall - Complete the Removal of Temp Bridge No. 1	0	0		13-Nov-17	-685	HK Working Day	<del> </del>		♦ Works within Temp D-Wall - Complete the Remove	val of Temp Bridge No. 1
n-West corner - Site Preparation for forming an access at SW of TP34	32	32	14-Nov-17	16-Dec-17	-685	HK Working Day	1 1 1			outh-West corner - Site Preparation fo
corner of Tunnel Portion 3 and 4				10 200 11		······································				
all - Site formation and lowering soil to existing ground level at west	6	6	05-Dec-17	11-Dec-17	-685	HK Working Day	-		Tie back SP Wall	- Site formation and lowering soil to e
all - Form temporary 1:5 cut slope and excavate to +1.5mPD at west (360 m3@50 m3/day)	8	8	08-Dec-17	16-Dec-17	-685	HK Working Day	1			Wall - Form temporary 1:5 cut slope
all - Install brackets and waling to sheet pile wall (2nos.@4 days/no.)	8	8	16-Dec-17	27-Dec-17	-685	HK Working Day	<del></del>			Tie back \$P Wall; Install; brackets ar
	4	4					1			Tie back SP Wall - Install tie b
all - Install tie back (4nos. @1no./day)	5	- 4	27-Dec-17 20-Oct-17	02-Jan-18	-685 -458	HK Working Day	-	Tio back SE	Wall - Remove tie back and waling at +4.1mPD bet existin	
all - Remove tie back and waling at +4.1mPD bet existing box section and TP1 Dwall		5		25-Oct-17		HK Working Day	-	1 1 1	ack SP Wall - Backfill to +3.5mPD at west of box section, T	
all - Backfill to +3.5mPD at west of box section	5	5	25-Oct-17	31-Oct-17	-458	HK Working Day	-	Tiero		III - Extract sheet bile at north-west co
all - Extract sheet pile at north-west corner and remove D-wall and site cleaning	44	44	27-Oct-17	12-Dec-17	-458	HK Working Day	<del>-</del>		TIE Dack SP vvai	
3630 to CH 3710									W II 24	
D-Wall Cutting - Advance Coring inside D Wall (64 out of 72 nos.for lifting;3 machines@1no./machine/day)	22	_	29-Aug-17 A	15-Sep-17 A		HK Working Day	tion for D-vvail Gutting - Ac	ance Coring Inside D	Wall (64 out of 72 nos.for lifting;3 machines@1no./machine.	
D-Wall Cutting - Finalisation of D Wall Cutting Alignment	45	45	20-Oct-17	06-Dec-17	-618	HK Working Day	1 1 1	1 1 1		Cutting - Finalisation of D Wall Cutting
D-Wall Cutting - Remaining Coring inside D Wall (8 out of 72 nos.for lifting,1 machine @1no./machine/day)	8	8	07-Dec-17	15-Dec-17	-618	HK Working Day				or D-Wall Cutting - Remaining Coring
D-Wall Cutting - Excavation within tunnel cofferdam for cutting holes (350m3 @ 100m3/day)	4	4	15-Dec-17	19-Dec-17	-618	HK Working Day	4		Préparati	tion for D-Wall Cutting - Excavation wi
D-Wall Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)	13	13	19-Dec-17	05-Jan-18	-618	HK Working Day				Preparation for D-Wall Cutt
ement										
of HHP Elvoyer - Installation of Moyement, loint for the bridge	7	0	11-Oct-17 A	17-Oct-17 A		HK Working Day	_	Reinstatement of HH	R Flyover - Installation of Movement Joint for the bridge	
or it in a rigover - installation of Movement John for the Dridge			7							
est Side) CH 3709-3732	6	0	08-Sep-17 A	19-Sep-17 A		HK Working Day	nstatement of HHR Flyove	- Lay pipes and filling	inside structure with granular fill	
est Side) CH 3709-3732 of HHR Flyover - Lay pipes and filling inside structure with granular fill			1	1				.11		
est Side) CH 3709-3732  of HHR Flyover - Lay pipes and filling inside structure with granular fill  ddle) CH 3732-3747			-			HK Working Day			stripping for the walls of bay 2 of HHR	
est Side) CH 3709-3732  of HHR Flyover - Lay pipes and filling inside structure with granular fill  ddle) CH 3732-3747  of HHR Flyover - Formwork stripping for the walls of bay 2 of HHR	2	0	07-Sep-17 A	14-Sep-17 A		HK Working Day	ment of HHR Flyover - Ap	ly miradrain	<u> </u>	<u>.i l l l l</u>
est Side) CH 3709-3732  of HHR Flyover - Lay pipes and filling inside structure with granular fill  ddle) CH 3732-3747										
D-W	/all Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)  ont  HR Flyover - Installation of Movement Joint for the bridge  Side) CH 3709-3732  HR Flyover - Lay pipes and filling inside structure with granular fill  O CH 3732-3747  HR Flyover - Formwork stripping for the walls of bay 2 of HHR	/all Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)  the HR Flyover - Installation of Movement Joint for the bridge  7  5ide) CH 3709-3732  HR Flyover - Lay pipes and filling inside structure with granular fill  6  1) CH 3732-3747  HR Flyover - Formwork stripping for the walls of bay 2 of HHR  4	/all Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)  the HR Flyover - Installation of Movement Joint for the bridge  7 0  Side) CH 3709-3732  HR Flyover - Lay pipes and filling inside structure with granular fill  6 0  1) CH 3732-3747  HR Flyover - Formwork stripping for the walls of bay 2 of HHR  4 0	Vall Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)  13 13 19-Dec-17  15 17 19-Dec-17  16 19-Dec-17  17 19-Dec-17  18 19-Dec-17  19 19 19 19 19 19 19 19 19 19 19 19 19 1	Vall Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)       13       13       19-Dec-17       05-Jan-18         tent         HR Flyover - Installation of Movement Joint for the bridge       7       0       11-Oct-17 A       17-Oct-17 A         Side) CH 3709-3732         HR Flyover - Lay pipes and filling inside structure with granular fill       6       0       08-Sep-17 A       19-Sep-17 A         OCH 3732-3747         HR Flyover - Formwork stripping for the walls of bay 2 of HHR       4       0       19-Aug-17 A       28-Sep-17 A	All Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)   13   13   19-Dec-17   05-Jan-18   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -618   -	All Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)   13   13   19-Dec-17   05-Jan-18   -618   HK Working Day and tent	rall Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)  13 13 19-Dec-17 05-Jan-18 -618 HK Working Day  14 HR Flyover - Installation of Movement Joint for the bridge  7 0 11-Oct-17 A 17-Oct-17 A HK Working Day  15 Gide) CH 3709-3732  HR Flyover - Lay pipes and filling inside structure with granular fill  16 0 08-Sep-17 A 19-Sep-17 A HK Working Day  18 IN The Sep-17 A HK Working Day  18 IN The Sep-17 A HK Working Day  19 IN The Sep-17 A BR Working Day  10 IN The Sep-17 A BR Working Day  11 IN THE Sep-17 A BR Working Day  12 IN THE Sep-17 A BR Working Day  13 IN THE Sep-17 A BR Working Day  15 IN THE Sep-17 A BR Working Day  16 IN THE Sep-17 A BR Working Day  17 IN THE Sep-17 A BR Working Day  18 IN THE Sep-17	rall Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)  13 13 19-Dec-17 05-Jan-18 -618 HK Working Day  14	rall Cutting - Full Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)  13 13 19-Dec-17 05-Jan-18 -618 HK Working Day  14 17-Oct-17 A 17-Oct-17

◆ Critical Milestones

Current Works

Critical Works

Remaining Level of Effort

CHUN WO - CRGL
JOINT VENTURE

#### CEDD CONTRACT NO. HK/2009/02

vity ID	Activity Name	Ori	Rer	m Scheduled/	Scheduled/	Total	Calendar	2017         2018           October         November         December         January
		Dur	Du	ur Actual Start	Actual Finish	Float		24 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21
S11-HH-5077	Reinstatement of HHR Flyover - Filling inside structure with granular fill (approx. 470 m3) and install sub-soil drain	6	0	15-Sep-17 A	21-Sep-17 A		HK Working Day	einstatement of HHR Flyover Filling inside structure with granular fill (approx. 470 m3) and install sub-soil drain
S11-HH-5079	Reinstatement of HHR Flyover - Backfill selected filter material	4	0	22-Sep-17 A	25-Sep-17 A		HK Working Day	Reinstatement of HHR Flyover - Backfill selected filter material
S11-HH-5080	Reinstatement of HHR Flyover - Lay blinding layer for the transition slab	1	0	26-Sep-17 A	26-Sep-17 A		HK Working Day	I Reinstatement of HHR Fyover - Lay blinding layer for the transition slab
S11-HH-5085	Reinstatement of HHR Flyover - Erect formwork & prepare CJ for the transition slab	2	0	27-Sep-17 A	28-Sep-17 A		HK Working Day	■ Reinstatement of HHR Flyover - Erect formwork & prepare CJ for the transition slab
S11-HH-5086	Reinstatement of HHR Flyover - Fix Re-bars for the transition slab	2	0	29-Sep-17 A	02-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Fix Re-bars for the transition slab
S11-HH-5087	Reinstatement of HHR Flyover - Concreting for the transition slab	1	0	03-Oct-17 A	03-Oct-17 A		HK Working Day	I Reinstatement of HHR Flyover - Concreting for the transition slab
Hung Hing Road Fl	lyover - Bay 3 (East Side) CH 3747-3770							
S11-HH-5182	Reinstatement of HHR Flyover - Fix Re-bars, including end wall	4	0	07-Sep-17 A	29-Sep-17 A		HK Working Day	Reinstatement of HHIR Flyover - Fix Re-bars, including end walf
S11-HH-5184	Reinstatement of HHR Flyover - Install drainage pipe inside wall between gullies	1	0	30-Sep-17 A	30-Sep-17 A		HK Working Day	I Reinstatement of HHR Flyover - Install drainage pipe inside wall between gullies
S11-HH-5186	Reinstatement of HHR Flyover - Formwork for the end wall and internal wall of east abutment	2	0	01-Oct-17 A	02-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Formwork for the end wall and internal wall of east abutment
S11-HH-5188	Reinstatement of HHR Flyover - Erect falsewok for the top slab	2	0	03-Oct-17 A	04-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Erect falsewok for the top slab
S11-HH-5190	Reinstatement of HHR Flyover - Erect formwork for the top slab	2	0	28-Sep-17 A	02-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Erect formwork for the top slab
S11-HH-5192	Reinstatement of HHR Flyover - Fix Re-bars for the top slab	4	0	· ·	05-Oct-17 A		HK Working Day	■ Reinstatement of HHR Flyover - Fix Re-bars for the top stab
S11-HH-5194	Reinstatement of HHR Flyover - Install holding down bolt	3	0		04-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Install holding down bolt
S11-HH-5196	Reinstatement of HHR Flyover - Formwork for the bridge deck upstand	2	0		05-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Form work for the bridge deck upstand
S11-HH-5198	Reinstatement of HHR Flyover - Concreting for the remaining walls/slab/deck upstand	1	0		06-Oct-17 A		HK Working Day	I Reinstatement of HHR Flyover - Concreting for the remaining walls/slab/deck upstand
S11-HH-5200	Reinstatement of HHR Flyover - Curing of slab	6	0		12-Oct-17 A		Calendar Day	Reinstatement of HHR Flyover - Curing of slab
S11-HH-5202	, ,		0				•	Reinstatement of HHR Flyover - Curing of wall
	Reinstatement of HHR Flyover - Curing of wall	1	-		08-Oct-17 A		Calendar Day	
S11-HH-5203	Reinstatement of HHR Flyover - Construction and concreting for kerb	4	0		17-Oct-17 A	070	HK Working Day	Reinstatement of HHR Flyover - Construction and concreting for kerb
S11-HH-5204	Reinstatement of HHR Flyover - Dismantle falsework and formwork inside Bay 3 (after road diversion)	8	8		13-Nov-17	-678	HK Working Day	Reinstatement of HHR Flyover - Dismantle falsework and formwork inside Bay 3 (
S11-HH-5206	Reinstatement of HHR Flyover - Dismantle falsework and formwork external of Bay 3	5	0	***************************************	13-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Dismantle falsework and formwork external of Bay 3
S11-HH-5208	Reinstatement of HHR Flyover - Rectify external wall defect (if any)	5	0	14-Oct-17 A	18-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Rectify external wall defect (if any)
	lyover - Reinstatement of Utilities and Drainage				1	_		
S11-HH-4052	Reinstatement of HHR Flyover - Cover up all utilities and complete paving blocks along footpath	0	-		18-Oct-17 A		HK Working Day	◆ Reinstatement of HHR Flyover - Cover up all utilities and complete paving blocks along footpath
S11-HH-4062	Reinstatement of HHR Flyover - Construct manhole MH1 & MH2	2	0		· ·		HK Working Day	Reinstatement of HHR Flyover - Construct manhole MH1 & MH2
S11-HH-4064	Reinstatement of HHR Flyover - Lay drainage works G2 to MH2, including testing	3	0		· ·		HK Working Day	Reinstatement of HHR Flyover + Lay drainage works G2 to MH2, including testing
S11-HH-4066	Reinstatement of HHR Flyover - Lay drainage works MH2 to MH1, including testing	3	0	25-Sep-17 A	27-Sep-17 A		HK Working Day	Reinstatement of HHR flyover - Lay drainage works MH2 to MH1; including testing
S11-HH-4068	Reinstatement of HHR Flyover - Lay drainage works G1 to MH1, including testing	3	0	21-Sep-17 A	23-Sep-17 A		HK Working Day	Reinstatement of HHR: Flyover: - Lay drainage works G1 to MH1, including testing
S11-HH-4069	Reinstatement of HHR Flyover - Manhole Final Works after acceptance of pipes	3	0	24-Sep-17 A	26-Sep-17 A		HK Working Day	Reinstatement of HHR Fyciver - Manhole Final Works after acceptance of pipes
S11-HH-4070	Reinstatement of HHR Flyover - Backfill on top of drainage pipe at Bay 1 & 2	2	0	27-Sep-17 A	28-Sep-17 A		HK Working Day	Reinstatement of HHR Flyover - Backfill on top of drainage pipe at Bay 1 & 2
S11-HH-4071	Reinstatement of HHR Flyover - Laying drainage pipe (300mm dia. pipe - MH2 to MH20), 10 m long including testing	10	0	24-Sep-17 A	03-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Laying drainage pipe (300mm dia. pipe - MH2 to MH20), 10 m long including testing
S11-HH-4072	Reinstatement of HHR Flyover - Backfill on top of drainage pipe outside Bay 1 & 2 - Layer 1	2	0	29-Sep-17 A	01-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Backfill on top of drainage pipe outside Bay 1 & 2 - Layer 1
Hung Hing Road Fl	lyover - Road Works and Street Furniture							
S11-HH-4078	Reinstatement of HHR Flyover - Trimming road formation	4	0	20-Sep-17 A	23-Sep-17 A		Calendar Day	Reinstatement of HHR Flyover - Trimming road formation
S11-HH-4079	Reinstatement of HHR Flyover - Road Kerb (390m @ 100m/day)	4	0	03-Oct-17 A	07-Oct-17 A		Calendar Day	Reinstatement of HHR Flyover - Road Kerb (390m @ 100m/day)
S11-HH-4080	Reinstatement of HHR Flyover - Lay sub-base and compaction	5	0	07-Oct-17 A	12-Oct-17 A		Calendar Day	Reinstatement of HHR Flyover - Lay sub-base and compaction
S11-HH-4081	Reinstatement of HHR Flyover - Testing of sub-base (Govt. Lab & Result)	1	0	13-Oct-17 A	13-Oct-17 A		HK Working Day	I Reins atement of HHR Flyover - Testing of sub-base (Govt. Lab & Result)
S11-HH-4082	Reinstatement of HHR Flyover - MJ Installation at Bay 3	6	0	11-Oct-17 A	17-Oct-17 A		Calendar Day	Reinstatement of HHR Flyover - M) Installation at Bay 3
S11-HH-4083	Reinstatement of HHR Flyover - Lay 1st layer of Asphalt (Road base)	1	0		13-Oct-17 A		Calendar Day	I Reinstatement of HHR Flyover - Lay 1st layer of Asphalt (Road base)
S11-HH-4084	Reinstatement of HHR Flyover - Lay 2nd layer of Asphalt (Base Course)	1	0		13-Oct-17 A		Calendar Day	Reinstatement of HHR Flyover - Lay 2nd layer of Asphalt (Base Course)
S11-HH-4086	Reinstatement of HHR Flyover - Lay 3rd layer of Asp halt (Wearing Course)	1	0		17-Oct-17 A		Calendar Day	Reinstatement of HHR Flyover - Lay 3rd layer of Asphalt (Wearing Course)
S11-HH-4088	Reinstatement of HHR Flyover - Install manhole and gully covers	3	0				HK Working Day	Reinstatement of HHR Flyover - Install manhole and gully covers
S11-HH-4089	Reinstatement of HHR Flyover - Road Marking	1	0			-759	Calendar Day	Reinstatement of HHR Flyover - Road Marking, Reinstatement of HHR Flyover - Road Marking
S11-HH-4090	Reinstatement of HHR Flyover - Traffic sign, road furniture & street lighting	7	0		20-Oct-17 A	7.55	HK Working Day	Reinstatement of HHR Flyover - Traffic sign, road furniture & street lighting
			-					Reinstatement of HHR Flyover - Works by Highways Lighting (including cabling & street lights)
S11-HH-4091	Reinstatement of HHR Flyover - Works by Highways Lighting (including cabling & street lights)	8	0		18-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Install steel parapet (130m @18m/day)
S11-HH-4092	Reinstatement of HHR Flyover - Install steel parapet (130m @18m/day)	7	0		19-Oct-17 A	005	HK Working Day	
S11-HH-4093	Reinstatement of HHR Flyover - READY FOR ROAD DIVERSION	1	1		21-Oct-17	-685	HK Working Day	Reinstatement of HHR Flyover - READY FOR ROAD DIVER\$ION, Reinstatement of HHR Flyover - READ  Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Ster
S11-HH-4095	Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges	24	24		18-Nov-17	-683	HK Working Day	_
S11-HH-4096	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1	19	19		13-Nov-17	-685	HK Working Day	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1, Reinstateme
S11-HH-4097	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2	20	20		02-Dec-17	-684	HK Working Day	Reinstatement of HHR Flyover - Remove Temp Steel Bridg
S11-HH-4098	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3	25	25	5 23-Oct-17	18-Nov-17	-684	HK Working Day	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3, Reinsta
S11-HH-4102	Remove the bituminous pavement of at-grade road	7	7	02-Dec-17	09-Dec-17	-684	HK Working Day	Remove the bituminous pavement of at-grade road.
S11-HH-4105	Demolition of RC Decking 'X' above Bay 17A ((150m3 @15m3/day)	10	10	09-Dec-17	20-Dec-17	-413	HK Working Day	Demolition of RC Decking 'X' above Ba
S11-HH-4120	Reinstatement of HHR Flyover - Construction of footing and associated utility diversion for the directional sign	3	0	13-Oct-17 A	15-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Construction of footing and associated utility diversion for the directional sign
S11-HH-4122	Reinstatement of HHR Flyover - Installation of the directional sign	3	0	16-Oct-17 A	18-Oct-17 A		HK Working Day	Reinstatement of HHR Flyover - Installation of the directional sign
Reinstatement of E	Box Culvert O							

<b>•</b>	<b>\rightarrow</b>	Critical Milestones
		Current Works
		Critical Works
		Remaining Level of Effort

CHUN WO - CRGL
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#### CEDD CONTRACT NO. HK/2009/02

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ctivity ID	Activity Name	Ori	Rem	Scheduled/	Scheduled/	Total	Calen dar	2017 2018
		Dur	Dur	Actual Start	Actual Finish	Float		October         November         December         January           24         01         08         15         22         29         05         12         19         26         03         10         17         24         31         07         14         21         2
S11-BCO-2016	Box Culvert O Reinstatement - Design of Box Culvert 'O' by designer and reviewed by CW-CRGLJV	45	16	18-Aug-17 A	06-Nov-17	-357	HK Working Day	Box Culvert O Reinstatement - Design of Box Culvert 'O' by designer and reviewed by CW;C
S11-BCO-2020	Box Culvert O Reinstatement - Design Submission of Box Culvert 'O' for comment and approval by AECOM	35	35	07-Nov-17	13-Dec-17	-357	HK Working Day	Box Culvert O Reinstatement - Design Submission
S11-BCO-2022	Box Culvert O Reinstatement - Precast Units Fabrication and Delivery (Total = 107 units @1.5no/day + 20d delivery)	79	79	14-Dec-17	15-Mar-18	-352	HK Working Day	1
S11-BCO-2027	Box Culvert O Reinstatement - Installation of Bulkhead at Bay 19 (Outfall) of Box Culvert 'O'	33	33	18-Dec-17	24-Jan-18	-362	HK Working Day	Box
	nstruction (Tunnel Section) - Bay 15A and Bay 16A							
S11-BCO-2066	Box Culvert O Reinstatement - Bay 16A Base formwork	2	2	30-Nov-17	02-Dec-17	-98	HK Working Day	■ Box Culvert O Reinstätement - Bay 16A Base formwork, Box Cu
S11-BCO-2067	Box Culvert O Reinstatement - Bay 16A Base rebar	3	3	02-Dec-17	06-Dec-17	-98	HK Working Day	Box Culvert O Reinstatement - Bay 16A Base rebar, Box Cc
S11-BCO-2068	Box Culvert O Reinstatement - Bay 16A Base kicker and end formwork	2	2	06-Dec-17	07-Dec-17	-98	HK Working Day	■ Box Culvert O Reinstatement - Bay 16A Base kicker and e
S11-BCO-2069	Box Culvert O Reinstatement - Bay 16A Base concrete	1	1	08-Dec-17	08-Dec-17	-98	HK Working Day	■ Box Culvert O Reinstatement - Bay 16A Base concrete, t
S11-BCO-2070	Box Culvert O Reinstatement - Bay 16A Remove Base formwork	1	1	08-Dec-17	09-Dec-17	-98	HK Working Day	■ Box Culvert O Reinstatement - Bay 16A Remove Base
S11-BCO-2071	Box Culvert O Reinstatement - Bay 16A Mid Wall rebar	3	3	09-Jan-18	11-Jan-18	-98	HK Working Day	■ Box Culvert O Reir
S11-BCO-2072	Box Culvert O Reinstatement - Bay 16A Wall int formwork	3	3	11-Jan-18	15-Jan-18	-98	HK Working Day	Box;Culvert;O
S11-BCO-2072	Box Culvert O Reinstatement - Bay 16A External Wall rebar	3	3	15-Jan-18	17-Jan-18	-98	HK Working Day	■ Box Culvert
S11-BCO-2074	Box Culvert O Reinstatement - Bay 16A Wall External formwork	3	3	18-Jan-18	20-Jan-18	-98	HK Working Day	■ Box Cul
S11-BCO-2074	Box Culvert O Reinstatement - Bay 15A Base formwork	2	2	20-Nov-17	21-Nov-17	-98	HK Working Day	■ Box Culvert O Reinstatement - Bay 15A Base formwork, Box Culvert O Rein
	·			-				
S11-BCO-2080	Box Culvert O Reinstatement - Bay 15A Base rebar	3	3	21-Nov-17	24-Nov-17	-98	HK Working Day	Box Culvert O Reinstatement - Bay 15A Base rebar, Box Culvert O Reinstatement - Bay 15A Base rebar, Box Culvert O Reinstatement - Bay 15A Base kicker and end formwor
S11-BCO-2081	Box Culvert O Reinstatement - Bay 15A Base kicker and end formwork	2	2	24-Nov-17	27-Nov-17	-98	HK Working Day	
S11-BCO-2082	Box Culvert O Reinstatement - Bay 15A Base concrete	1	1	27-Nov-17	28-Nov-17	-98	HK Working Day	■ Box Culvert O Reinstatement - Bay 15A Base concrete, Box Culvert ■ Box Culvert O Reinstatement - Bay 15A Remove Base formwork B
S11-BCO-2084	Box Culvert O Reinstatement - Bay 15A Remove Base formwork	1	1	29-Nov-17	29-Nov-17	-98	HK Working Day	
S11-BCO-2086	Box Culvert O Reinstatement - Bay 15A Mid Wall rebar	3	3	09-Dec-17	13-Dec-17	-98	HK Working Day	Box Culvert O Reinstatement - Bay 15A Mid Wall re
S11-BCO-2088	Box Culvert O Reinstatement - Bay 15A Wall int formwork	3	3	13-Dec-17	16-Dec-17	-98	HK Working Day	Box Culvert O Reinstatement - Bay 15A Wall int
S11-BCO-2089	Box Culvert O Reinstatement - Bay 15A External Wall rebar	3	3	16-Dec-17	19-Dec-17	-98	HK Working Day	Box Culvert O Reinstatement - Bay 15A Exte
S11-BCO-2091	Box Culvert O Reinstatement - Bay 15A Wall External formwork	3	3	19-Dec-17	22-Dec-17	-98	HK Working Day	Box Culvert O Reinstatement - Bay 15A V
S11-BCO-2091a	Box Culvert O Reinstatement - Bay 15A falsework and formwork for Roof	3	3	22-Dec-17	28-Dec-17	-98	HK Working Day	Box Culvert O Reinstatement - Bay
S11-BCO-2092	Box Culvert O Reinstatement - Bay 15A Roof rebar	3	3	28-Dec-17	30-Dec-17	-98	HK Working Day	■ Box Culvert O Reinstatement - I
S11-BCO-2093	Box Culvert O Reinstatement - Bay 15A End formwork	3	3	30-Dec-17	04-Jan-18	-98	HK Working Day	Box Culvert O Reinstateme
S11-BCO-2094	Box Culvert O Reinstatement - Bay 15A Roof and Wall concrete	1	1	04-Jan-18	05-Jan-18	-98	HK Working Day	■ Box Culvert O Reinstaten
S11-BCO-2095	Box Culvert O Reinstatement - Bay 15A Remove End formwork	2	2	05-Jan-18	08-Jan-18	-98	HK Working Day	<b>i B</b> ox Culvert O Reinsta
Box Culvert O Con	nstruction (Outfall Section) - Bay 17A							
S11-BCO-2026	Box Culvert O Reinstatement - Demolition of RC Decking above Bay 17A of Box Culvert 'O'	7	7	09-Dec-17	16-Dec-17	-413	HK Working Day	Box Culvert O Reinstatement - Demolition of RC
S11-BCO-2112	Mobilisation for Pre-Bored plant for installing Sheetpiling at Bay 17A	6	6	18-Dec-17	23-Dec-17	-413	HK Working Day	Mobilisation for Pre-Bored plant for insta
S11-BCO-2114	Pre-Bored Sheetpiling Works (36 nr. 12m deep@24m/day) at Bay 17A	21	21	23-Dec-17	18-Jan-18	-413	HK Working Day	Pre-Bored
S11-BCO-2116	Install Sheetpiles FSP IV 12m deep (30m @ 1.2m linear length /day) at Bay 17A	28	28	18-Jan-18	23-Feb-18	-413	HK Working Day	1
Box Culvert O Con	nstruction - Bay 14A			'				
S11-BCO-2152	Mobilisation for Pre-Bored plant for installing Sheetpiling at Bay 14A	7	7	20-Nov-17	25-Nov-17	-378	HK Working Day	Mobilisation for Pre-Bored plant for installing sheetpiling at Bay 14A, Mo
S11-BCO-2154	Pre-Bored Sheetpiling Works (10 nr. 12m dee p@24m/day) at Bay 14A	5	5	27-Nov-17	01-Dec-17	-378	HK Working Day	Pre-Bored Sheetpiling Works (10 nr. 12m deep@24m/day) at Ba
Box Culvert O Con	nstruction (South Portion) - Bay 14 to Bay 13							
S11-BCO-2316	Box Culvert O Reinstatement - Bay 14 Pre-Bored Sheetpiling Works (50 nr. 12m deep@24m/day)	25	25	02-Dec-17	30-Dec-17	-378	HK Working Day	Box Culvert O Reinstatement - E
S11-BCO-2366	Box Culvert O Reinstatement - Bay 13 Pre-Bored Sheetpiling Works (50 nr. 12m deep@24m/day)	36	36	02-Jan-18	08-Feb-18	-378	HK Working Day	1
Reinstatement for	r Traffic Diversion							
S11-HH-5010	Reinstatement for the Traffic Diversion at Hung Hing Road Flyover [Summary]	144	2	08-Mar-17 A	21-Oct-17	-685	HK Working Day	
S11-HH-5048	Rectification of road defects identified at Convention Avenue	5	5	20-Oct-17	25-Oct-17	13	HK Working Day	Rectification of road defects identified at Convention Avenue
Wan Shing Street	t Sewerage Works				J			
S11-SW-1081	UU detection and excavate trial pit TP-HHR-05 at Wan Shiing Street	4	18	19-Jun-17 A	08-Nov-17	652	HK Working Day	UU detection and excavate trial pit TP-HHR-05 at Wan Shiing Street
S11-SW-1083	Trench excavation and shoring installation at Wan Shiing Street	12	25	31-Aug-17 A	15-Nov-17	-181	HK Working Day	Trench excavation and shoring installation at Wan Shiing Street, Trench excavation
S11-SW-1084	Divert existing DN500 and removal of D500 pvc pipe at the Wan Shiing Street	6	6	28-Nov-17	04-Dec-17	-192	HK Working Day	Divert existing DN500 and removal of D500 pvc pipe at the W
S11-SW-1084a	Excavate trial pit to locate existing 132kV cables adjacent to the proposed DN750 pipe at the Wan Shiing Street	6	21	11-Aug-17 A	11-Nov-17	-202	HK Working Day	Excayate trial pit to locate existing 132kV cables adjacent to the proposed DN750 pipe a
S11-SW-1084b	Excavate trial trench TT-WWS-01 at the Wan Shiing Street	8	8	23-Sep-17 A	18-Nov-17	-202	HK Working Day	Excavate trial trench TT-WWS-01 at the Wan Shiing \$treet, Excavate trial trench
S11-SW-1084c	Check the status of existing manhole at MH4.15 location and submit the finding to the ER	6	6	18-Nov-17	24-Nov-17	-202	HK Working Day	Check the status of existing manhole at MH4.15 location and submit the
S11-SW-1085		5	5			-202		Demolition of existing manhole at MH4.15 location, Demolition of existing manhole at MH4.15 location, Demolition of existing manhole at MH4.15 location, Demolition of existing manhole at MH4.15 location and subtinuities
	Demolition of existing manhole at MH4.15 location	16	-	24-Nov-17	30-Nov-17		HK Working Day	Constituction of manhole MH4:17
S11-SW-1086	Construction of manhole MH4.17 (Type I) including DN600 inlet		16	11-Dec-17	30-Dec-17	-199	HK Working Day	Laying DN600 sewer pipes (near MH4.17 with 8m length approx
S11-SW-1087	Laying DN600 sewer pipes (near MH4.17 with 8m length approx.)	3	3	30-Nov-17	02-Dec-17	-202	HK Working Day	
S11-SW-1088	Laying DN750 sewer pipes and connection to MH4.19	27	27	30-Nov-17	30-Dec-17	-199	HK Working Day	Laying DN750/sewer pipes and o
S11-SW-1089	Backfill (300mm/layer), removal sheet piles and reinstate the pavement	27	27	02-Dec-17	03-Jan-18	-202	HK Working Day	Backfill (300mm/layer), rem
S11-SW-1090	Implement TTA Stage 3	1	1	03-Jan-18	04-Jan-18	-202	HK Working Day	■ Implement TTA \$tage 3, In
S11-SW-1091	Trench excavation and shoring installation at Wan Shiing Street	12	12	04-Jan-18	17-Jan-18	-202	HK Working Day	Trench exca

◆ Critical Milestones

Current Works

Critical Works

Remaining Level of Effort

CHUN WO - CRGL
JOINT VENTURE

#### CEDD CONTRACT NO. HK/2009/02

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P	ctivity ID	Activity Name	Ori	Rem	Scheduled/	Scheduled/	Total	Calendar									2017									2018	
			Dur	Dur	Actual Start	Actual Finish	Float				(	Octobei	r				Novem	ber			Dec	ember			J	January	
L									24	01	08	15	5	22	29	05	12	19	26	03	10	17	24	31	07	14	21 28
I	S11-SW-1092	Laying DN600 clay pipes in the middle of MH4.15 & MH4.17 (3m approx.)	5	5	17-Jan-18	22-Jan-18	-202	HK Working Day																			Laying D
	S11-SW-1093	Check the status of existing DN600 clay pipes and submit a proposal to the ER for testing	6	6	16-Jan-18	22-Jan-18	-202	HK Working Day	1 '	i																	■ Check th

•	•	Milestone
<b>♦</b>	<b>•</b>	Critical Milestones
		Current Works
		Critical Works
_		Remaining Level of Effort

CHUN WO - CRGL
JOINT VENTURE

CEDD CONTRACT NO. HK/2009/02

Date	Revision	Checked	Approved



### 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

#### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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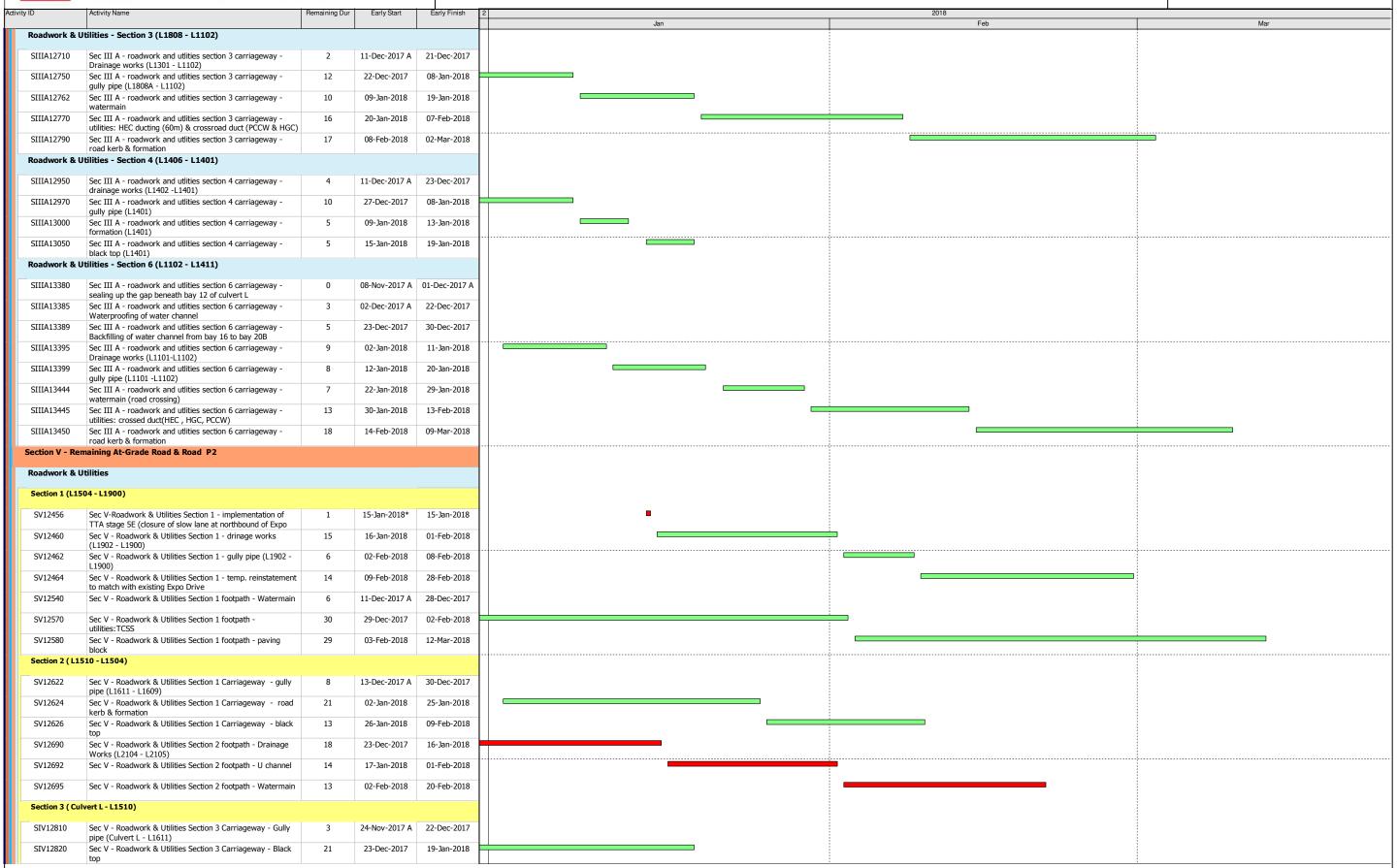
HK/2012/08 Revised Works Programme Rev.12.0(DD 20 November 2017) **Dredging and Reclamation Marine Work Construction** Seawall Construction - Zone D MAR20630 Zone D - Seawall 10 & 11: Install remaining seawall block 21-Jan-2018 MAR20650 Zone D - Seawall 10 & 11: Backfill Type A 22-Jan-2018 28-Jan-2018 Zone D - Seawall 10 & 11: Lay geotextile and filter 04-Feb-2018 MAR20670 29-Jan-2018 Works for Section Completion Section III A - Road A2, A4 & A5 Roadwork & Utilities - Section 1 (L1806 - L1801) SIIIA10270 Sec III A - section 1 carriageway - Construct M/H F9 20-Dec-2017 29-Dec-2017 SIIIA10272 Sec III A - section 1 carriageway - connect M/F F9 to 30-Dec-2017 08-Jan-2018 SIIIA10274 Sec III A - section 1 carriageway - construct M/H F8C 20-Dec-2017 29-Dec-2017 Sec III A - section 1 carriageway - sewerage pipe from M/H 03-Jan-2018 SIIIA10276 30-Dec-2017 SIIIA10278 Sec III A - section 1 carriageway - sewerage pipe from M/H 30-Dec-2017 17-Jan-2018 SIIIA10279b Sec III A - section 1 carriageway - sewerage pipe from M/H 13-Dec-2017 A 28-Dec-2017 8C to F8B (night time): construct M/H F8B 03-Feb-2018 SIIIA10279c Sec III A - section 1 carriageway - sewerage pipe from M/H 02-Jan-2018 8C to F8B (night time): construct sewerage pipe SIIIA10292 Sec III A - section 1 carriageway - construct M/H F8A 09-Jan-2018 16-Jan-2018 10-Feb-2018 SIIIA10293 Sec III A - section 1 carriageway - sewerage pipe from M/H 05-Feb-2018 F8B - F8A (night time) Sec III A - section 1 carriageway - sewerage pipe from M/H SIIIA10294 17-Jan-2018 29-Jan-2018 F8A - F8 SIIIA10295 Sec III A - carriageway - works prrior TTA stage 5: 18-Jan-2018 25-Jan-2018 excavation and duct laying of TCSS and public lighting SIIIA10296 Sec III A - section 1 carriageway - works prrior TTA stage 08-Jan-2018 20-Dec-2017 5: reinstate damaged manhole and pipeline SIIIA10297 Sec III A - section 1 carriageway - works prrior TTA stage 09-Jan-2018 16-Jan-2018 5: construct 225mm storm drain from D5.2 to existing 31-Jan-2018 SIIIA10298 Sec III A - section 1 carriageway - works prrior TTA stage 26-Jan-2018 5: road kerb SIIIA10301 Sec III A - section 1 carriageway - works prrior TTA stage 01-Feb-2018 02-Feb-2018 5: road formation Sec III A - section 1 carriageway - works prrior TTA stage 08-Feb-2018 SIIIA10302 03-Feb-2018 5: laying asphalt SIIIA10303 Sec III A - section 1 carriageway - works prrior TTA stage 12-Feb-2018 14-Feb-2018 5: road marking & preparation works SIIIA10310 Sec III A - section 1 carriageway - TTA stage 5: 15-Feb-2018 15-Feb-2018 Implementation of TTA Stage 5 Roadwork & Utilities - Section 2 (L1810 - L1807) SIIIA12550 Sec III A - roadwork and utilities section 2 carriageway -25-Nov-2017 A 29-Dec-2017 Utilities: HEC along carriageway & Crossroad duct (HEC & Sec III A - roadwork and utilities section 2 carriageway -30-Dec-2017 19-Jan-2018 road kerb & formation SIIIA12590 Sec III A - roadwork and utilities section 2 carriageway 20-Jan-2018 Revision Checked Date Approved Current Milestone Data Date: 20-Dec-2017 | 12 Actual Work 3 Months Rolling Programme for Non-CRIII Area (January 2018 - March 2018) 20-Dec-2017 Critical Remaining Work (Ref. to Revised Works Programme Rev.12) Remaining Work Remaining Level of Effort



### 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

#### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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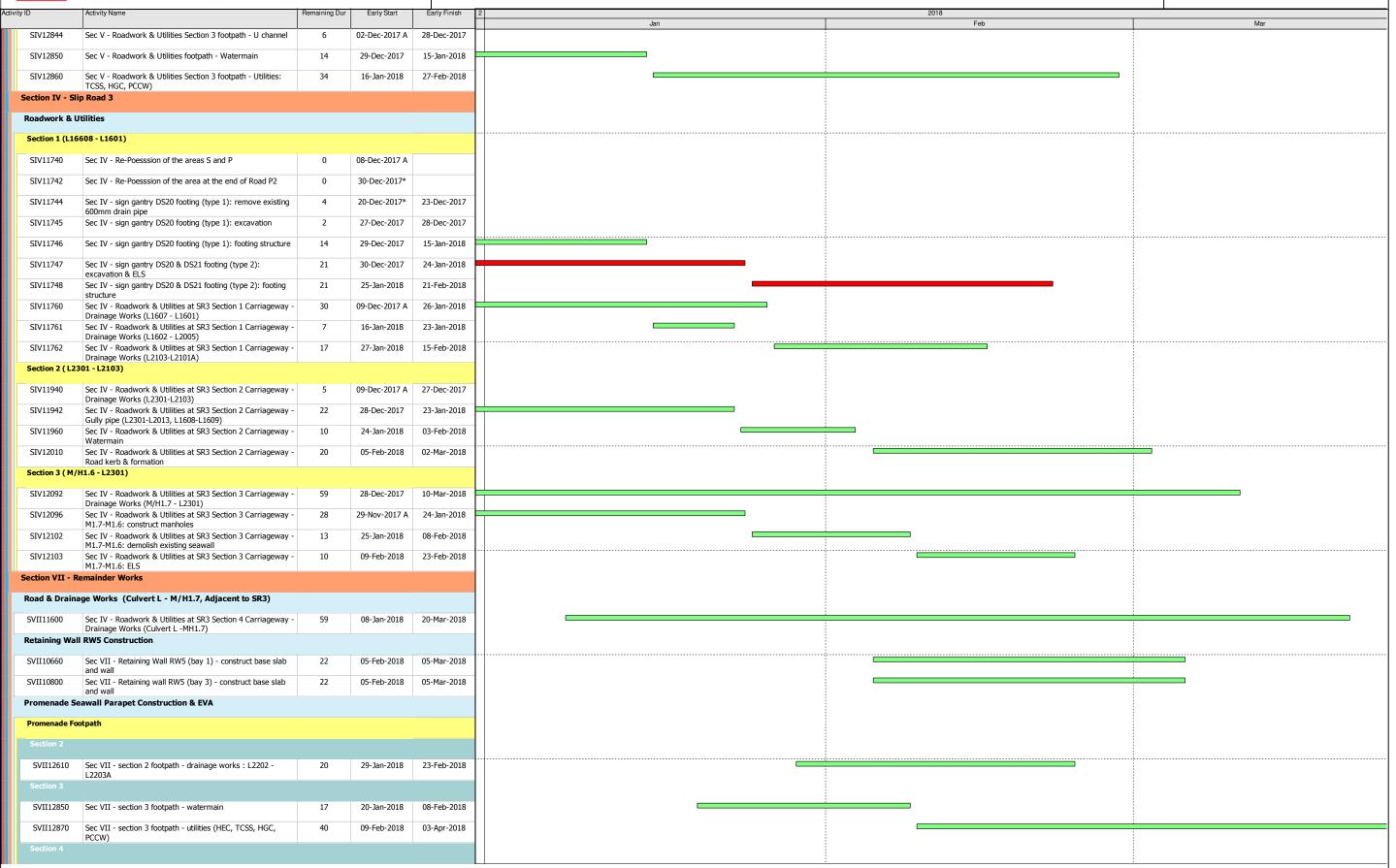




## H LEADER 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

#### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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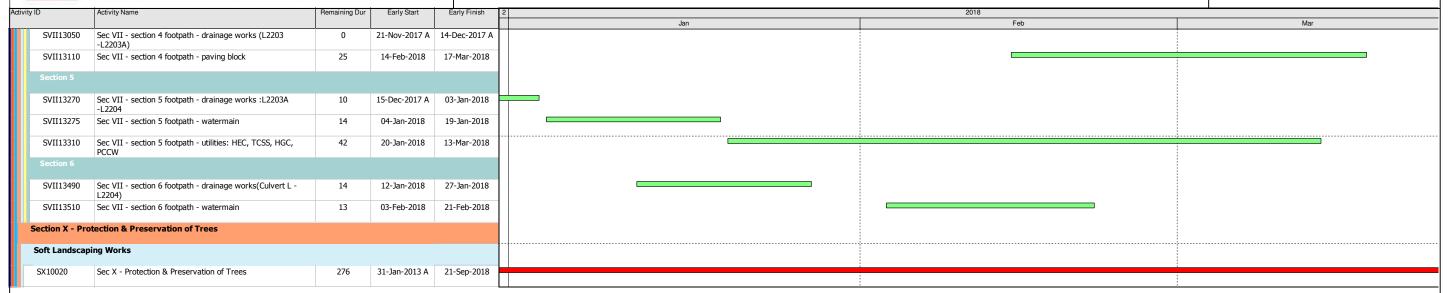


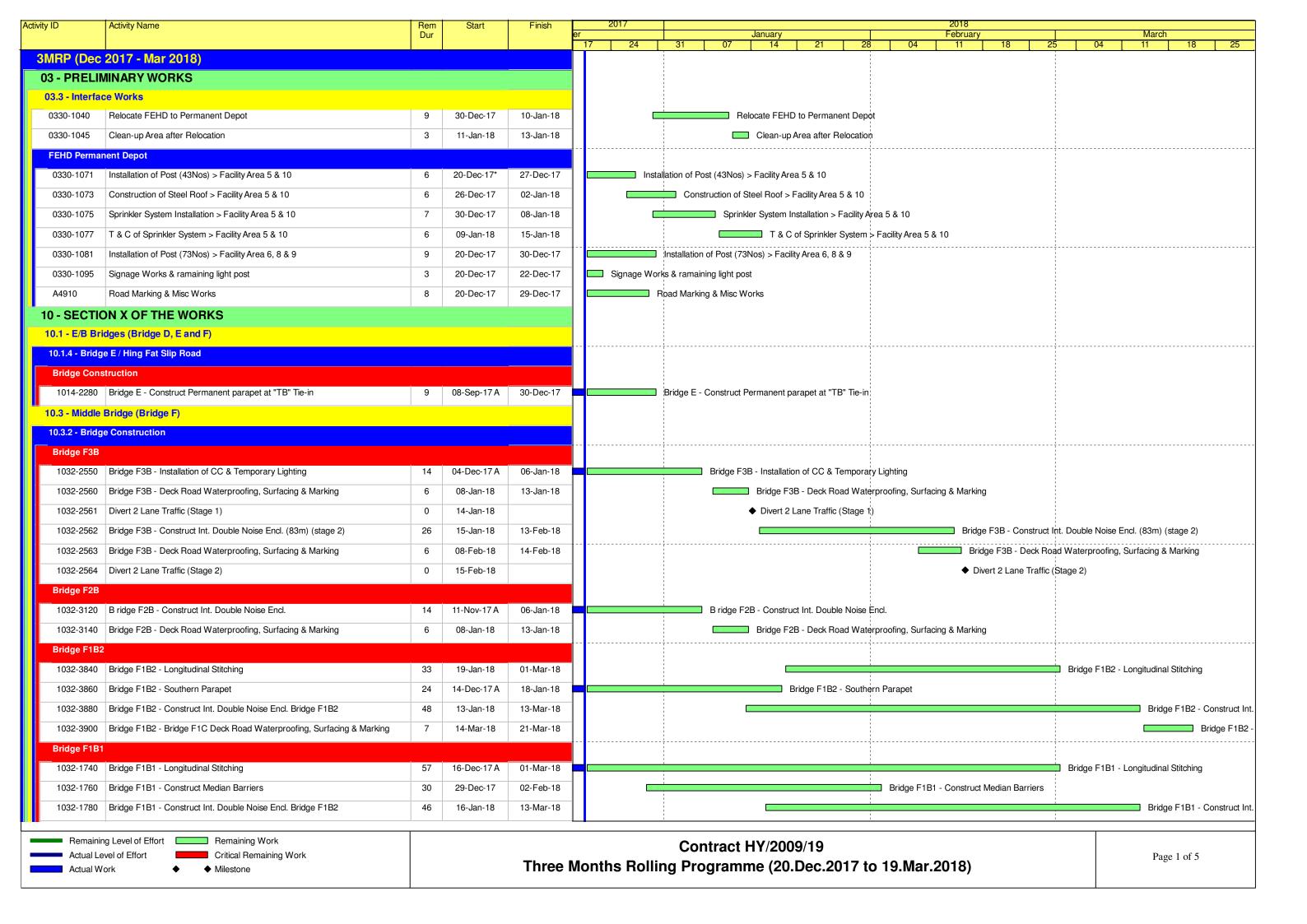


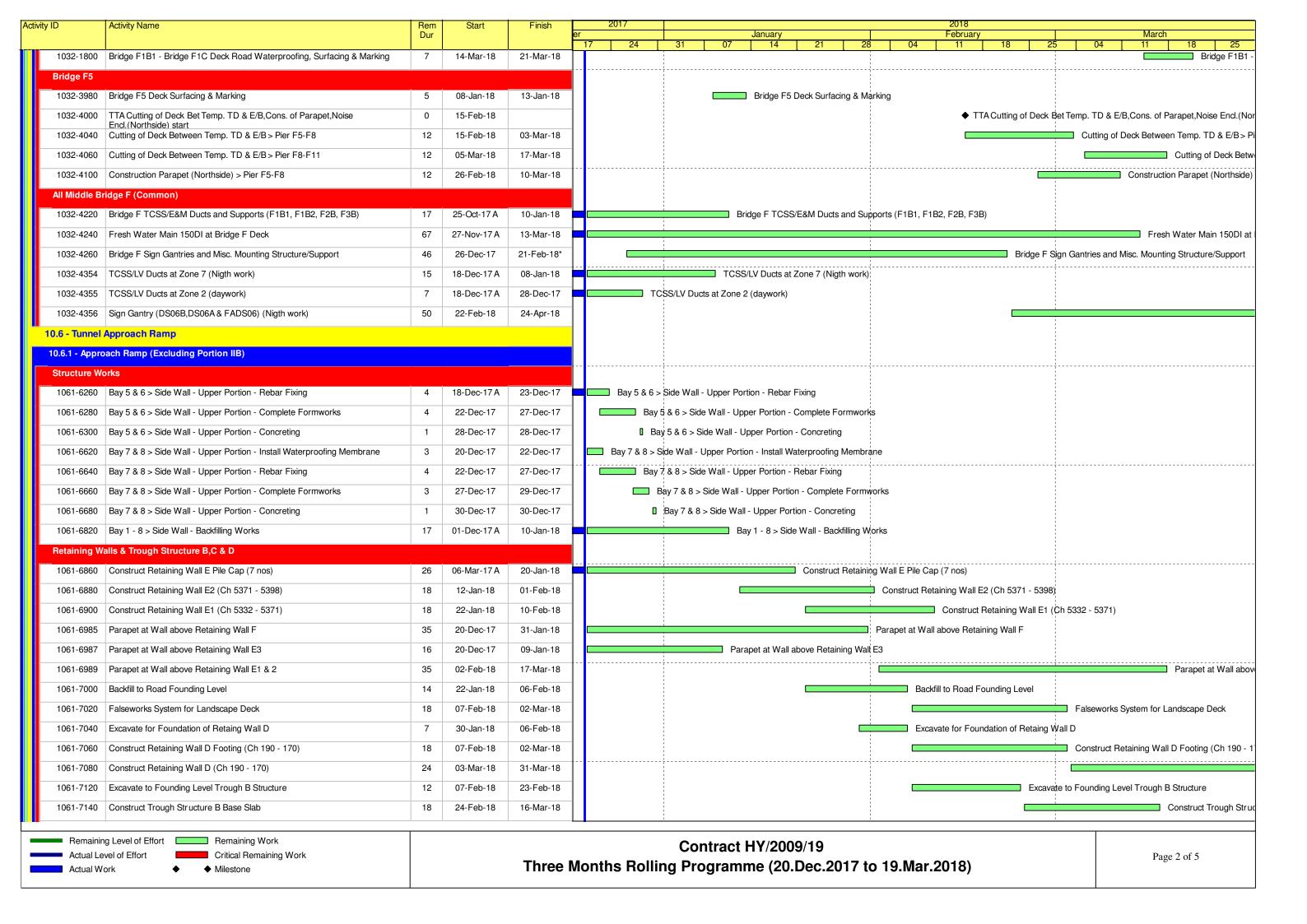
# 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

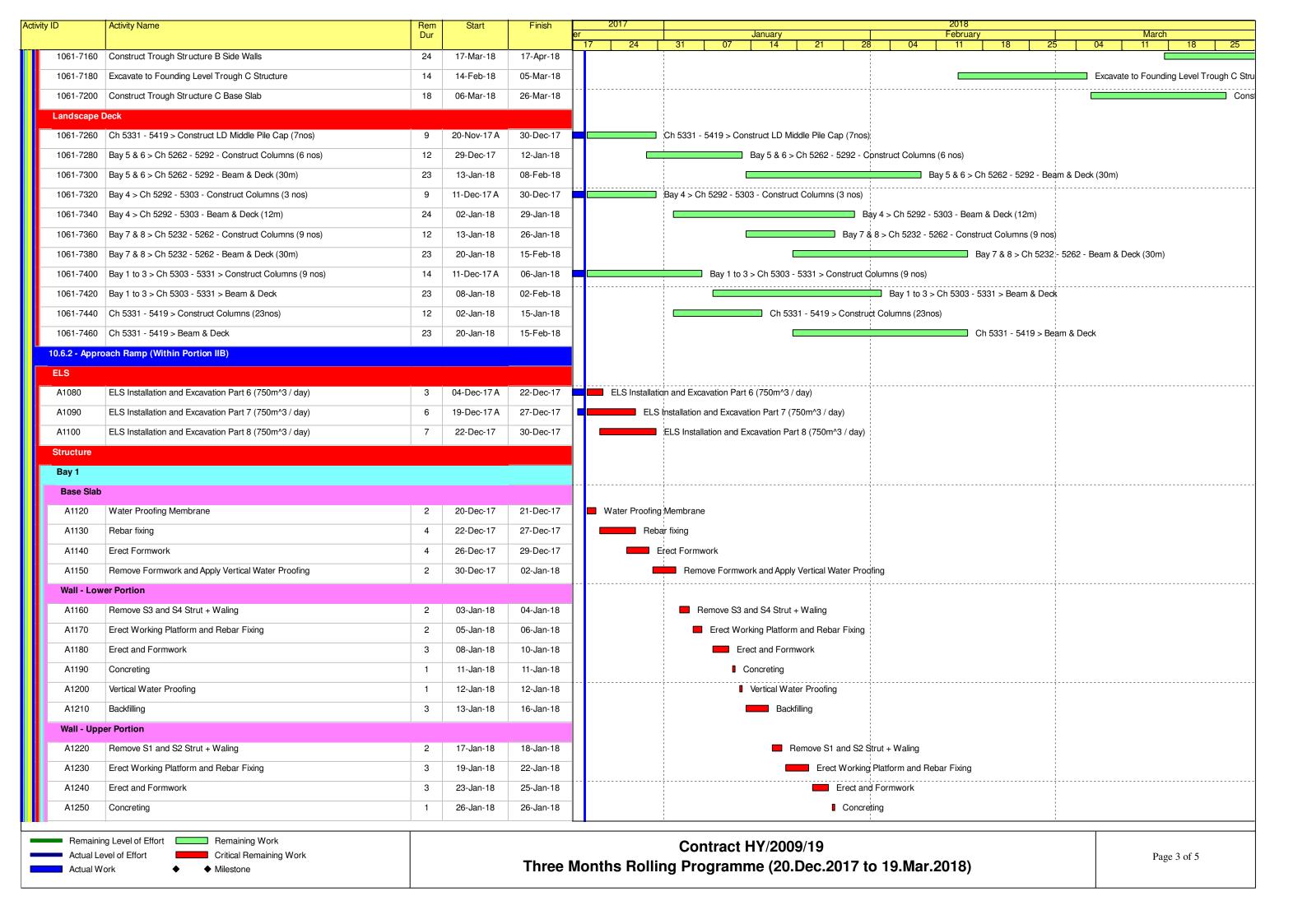
#### CEDD Contract No. HK/2012/08 **Wan Chai Development Phase II** Central - Wan Chai Bypass at Wan Chai West

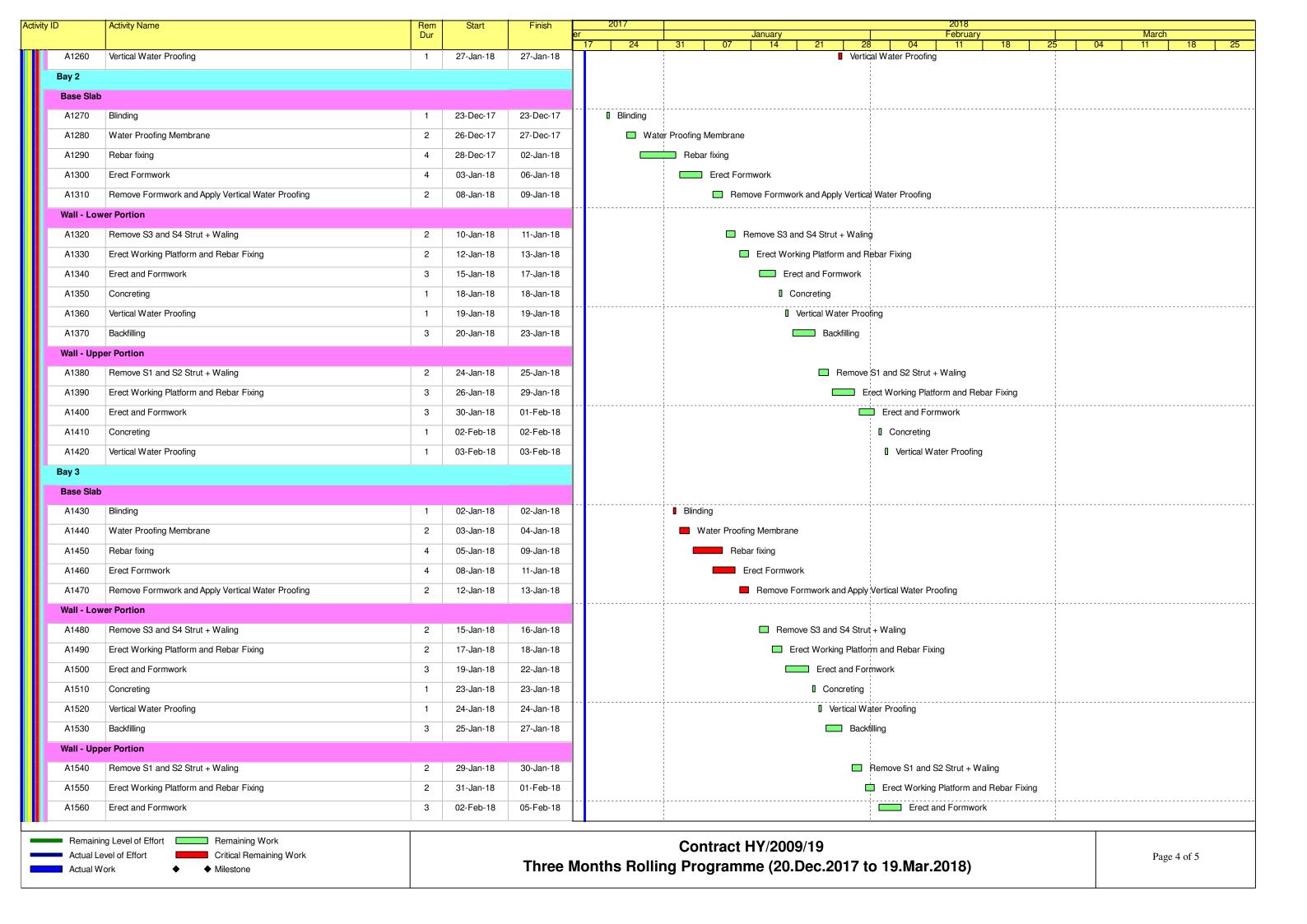
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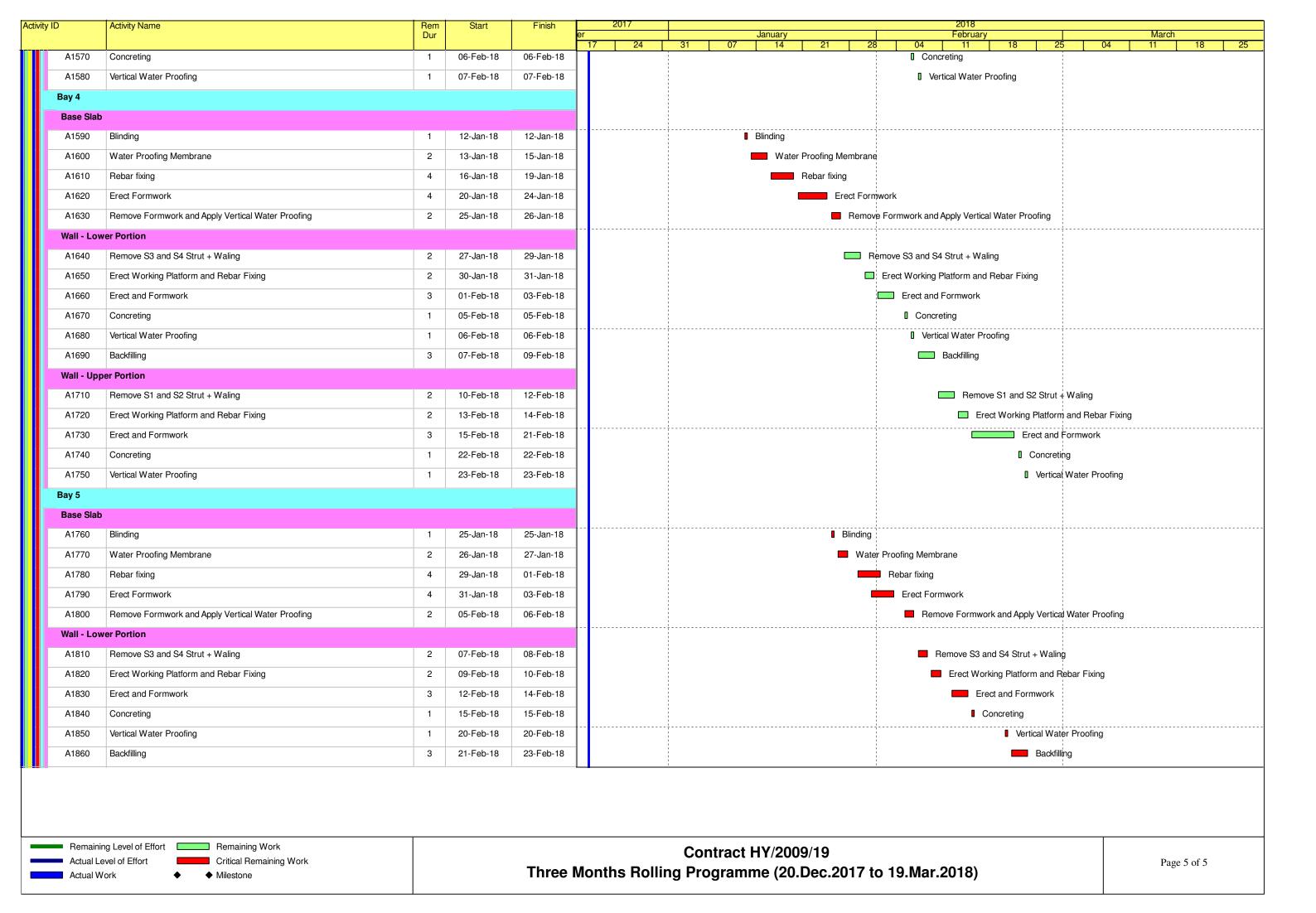


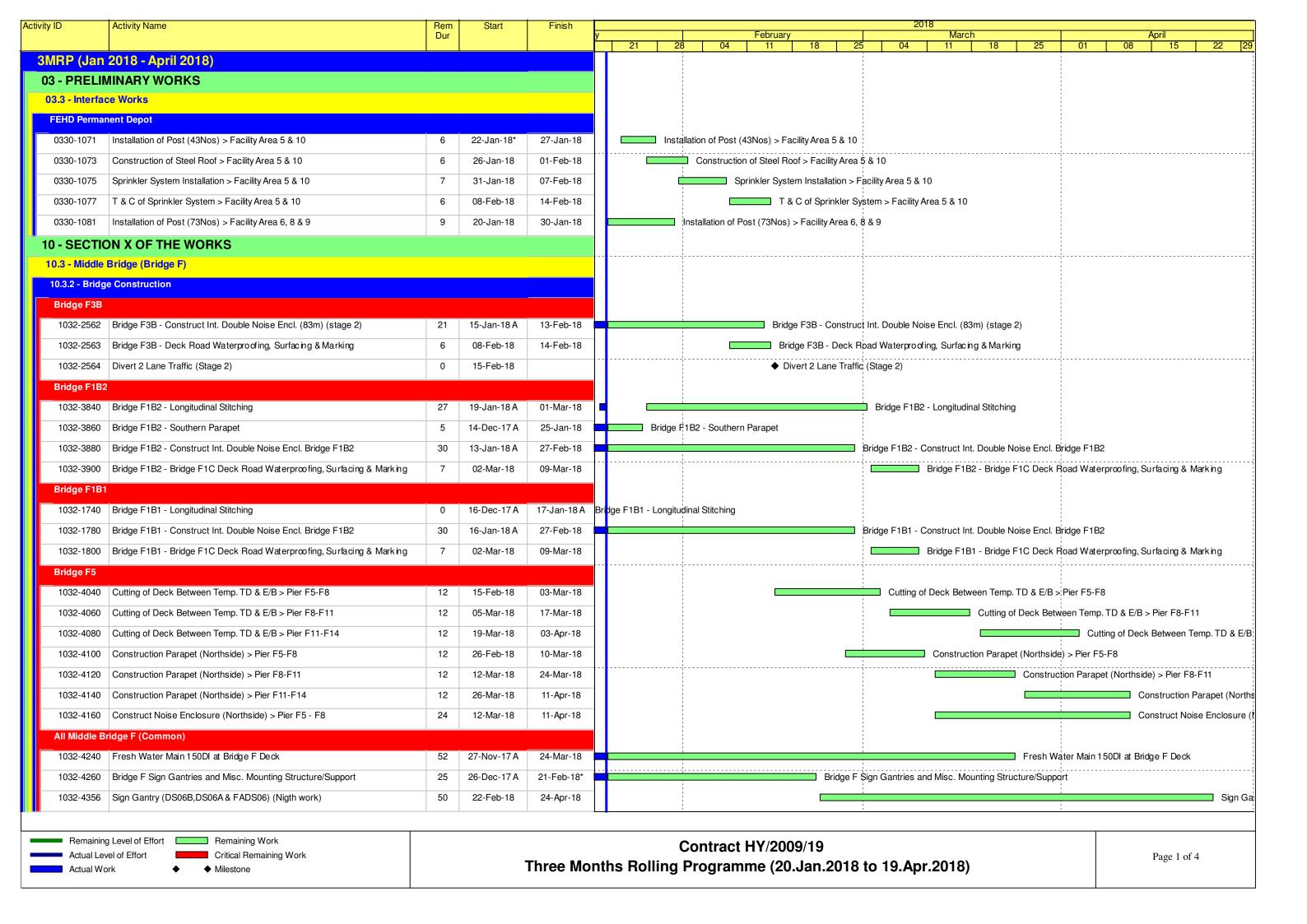


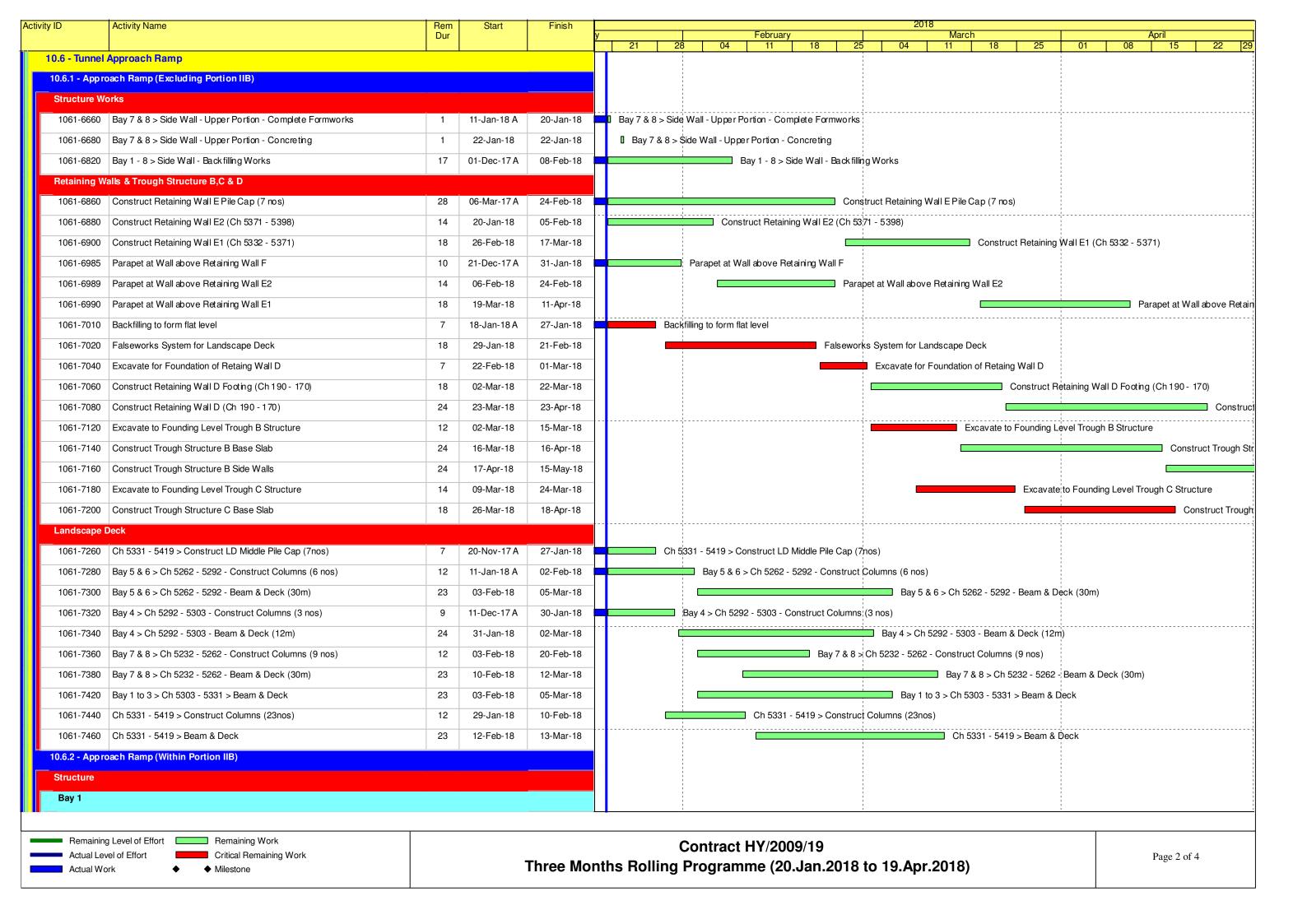


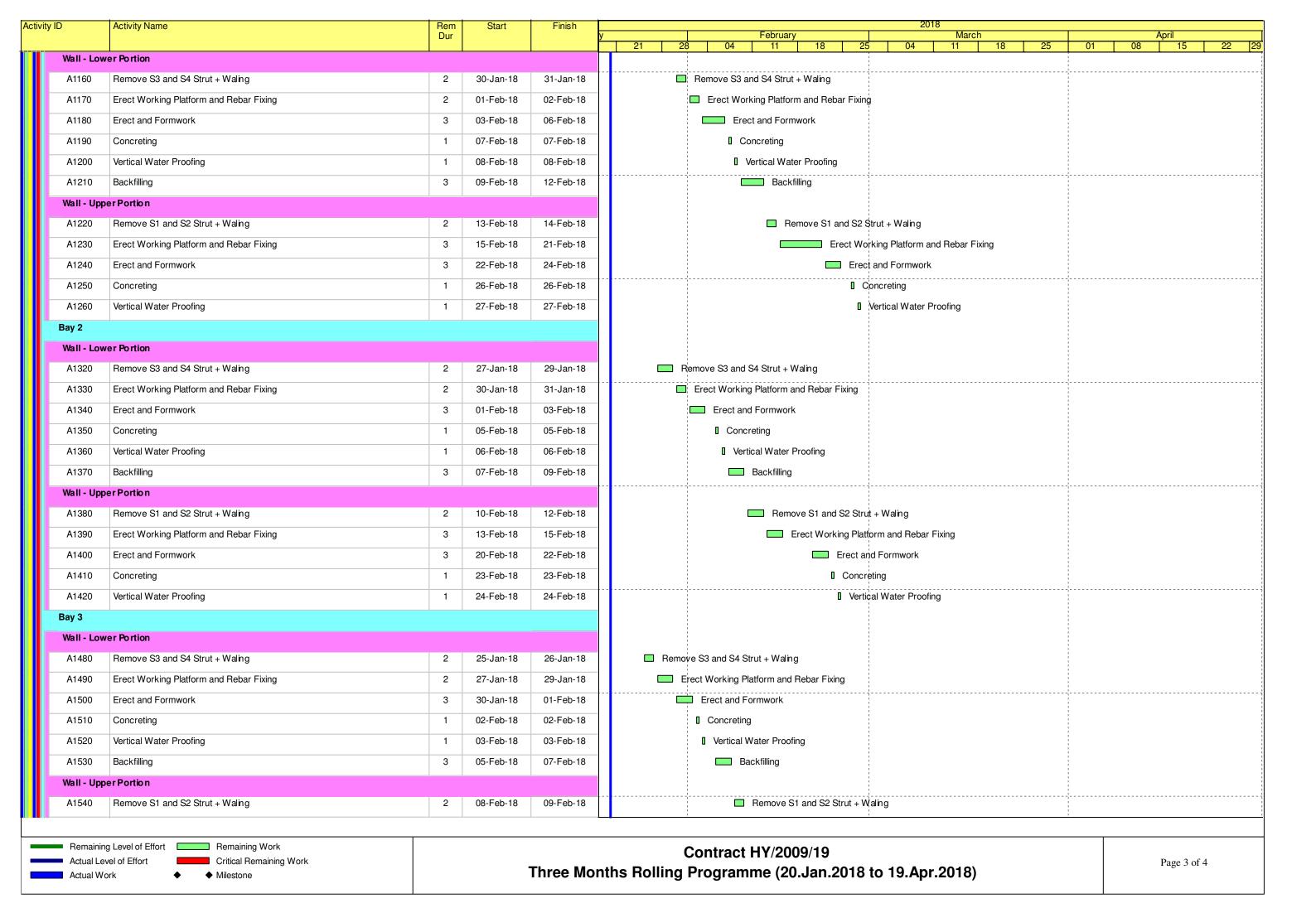


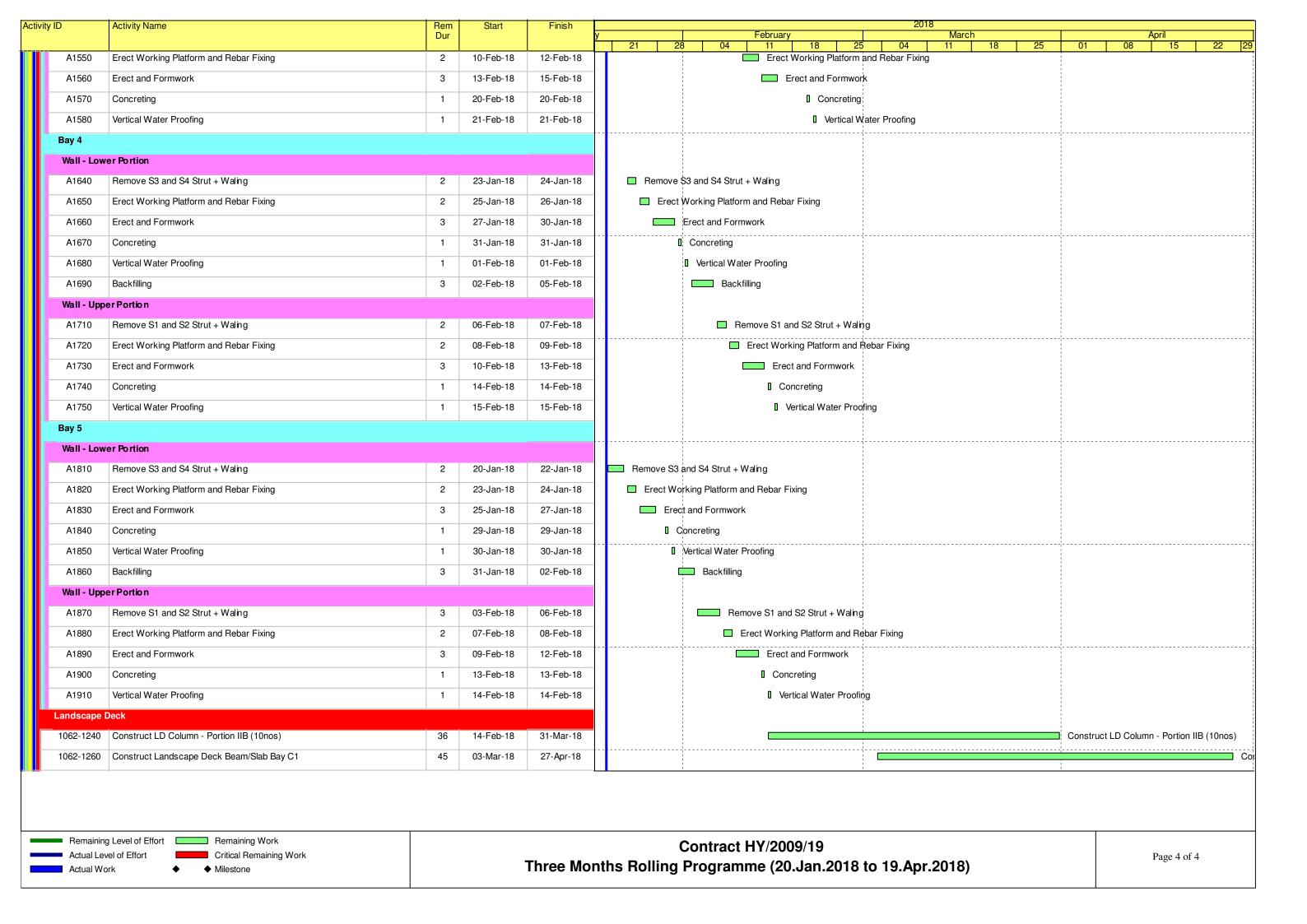


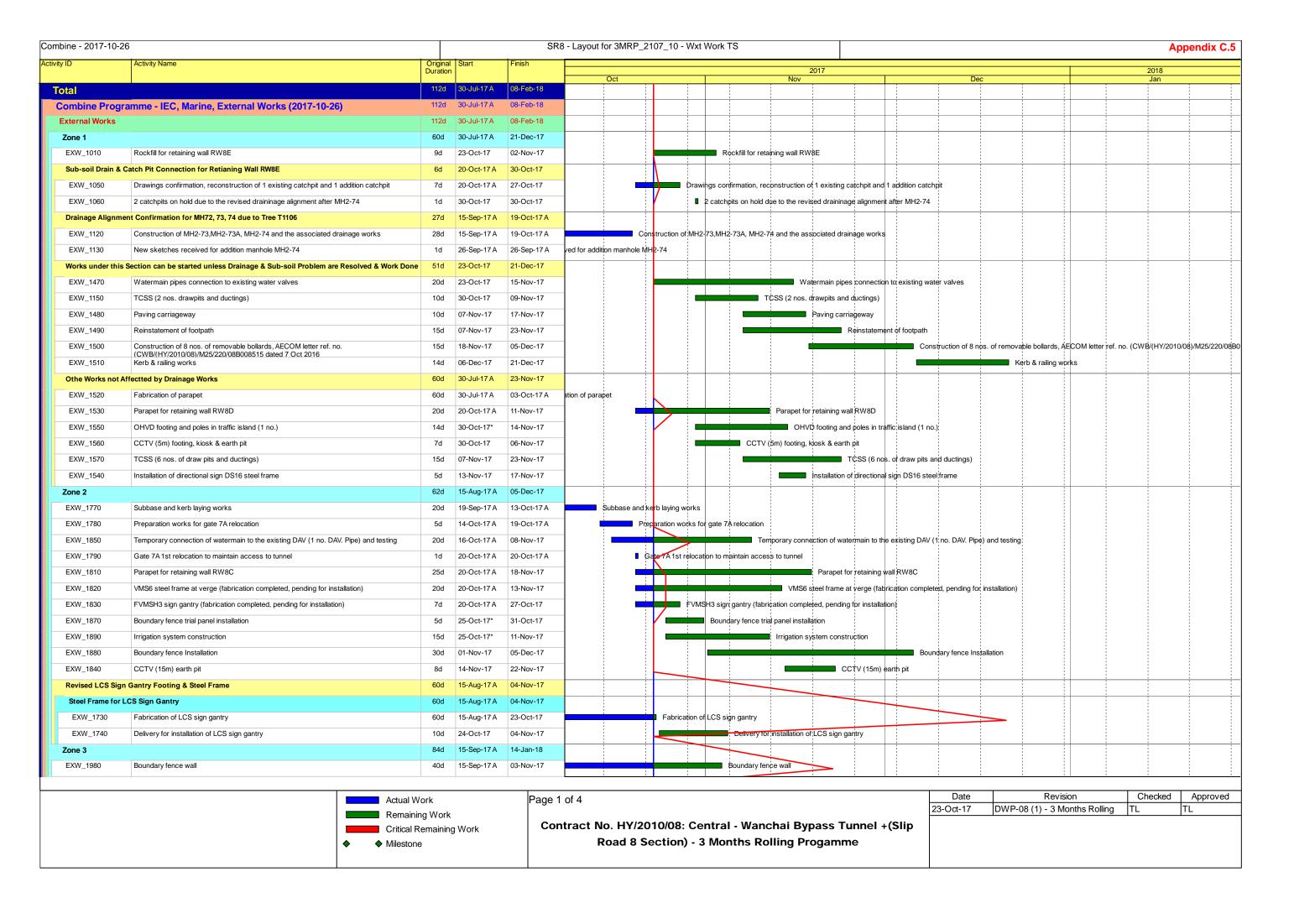


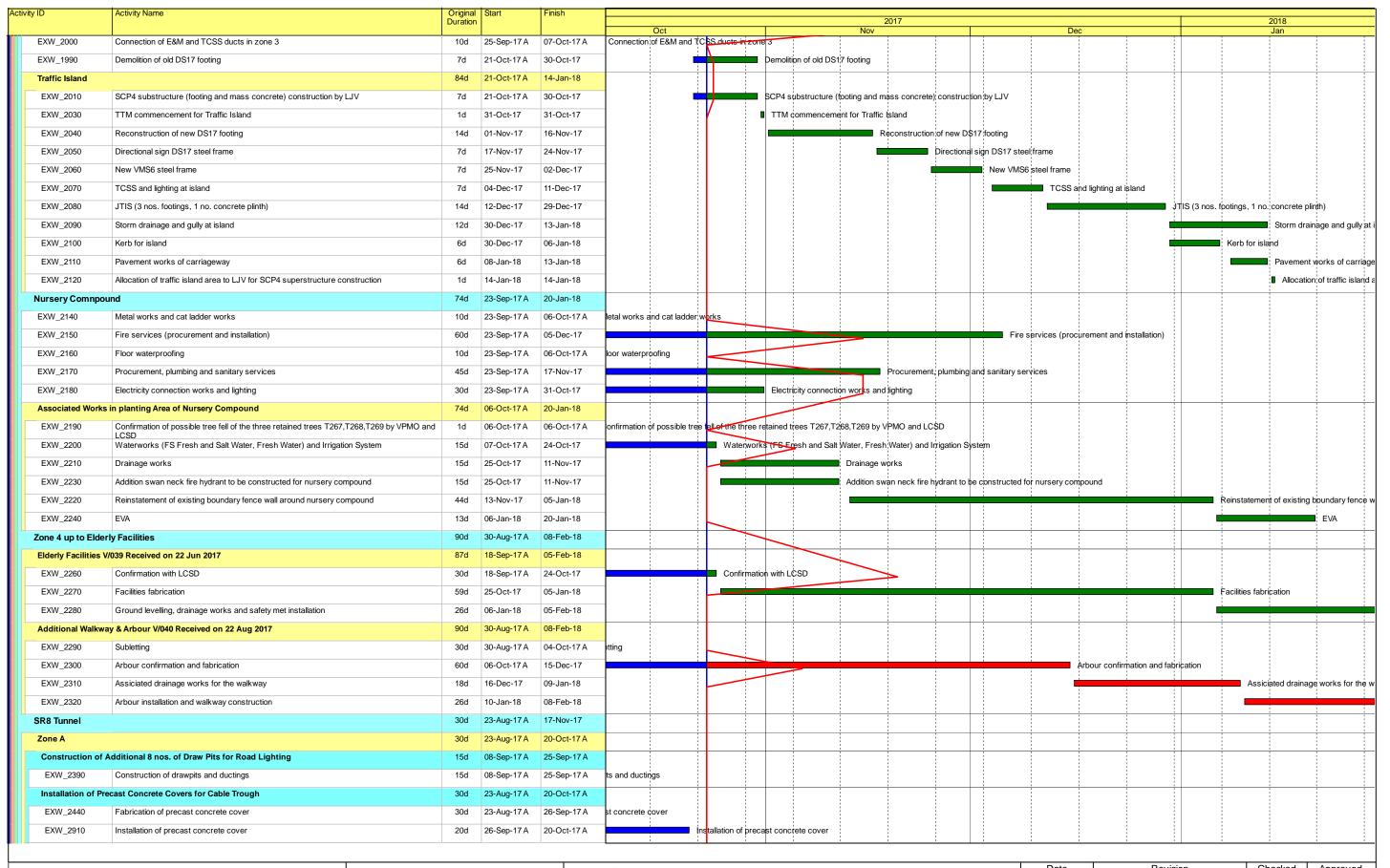










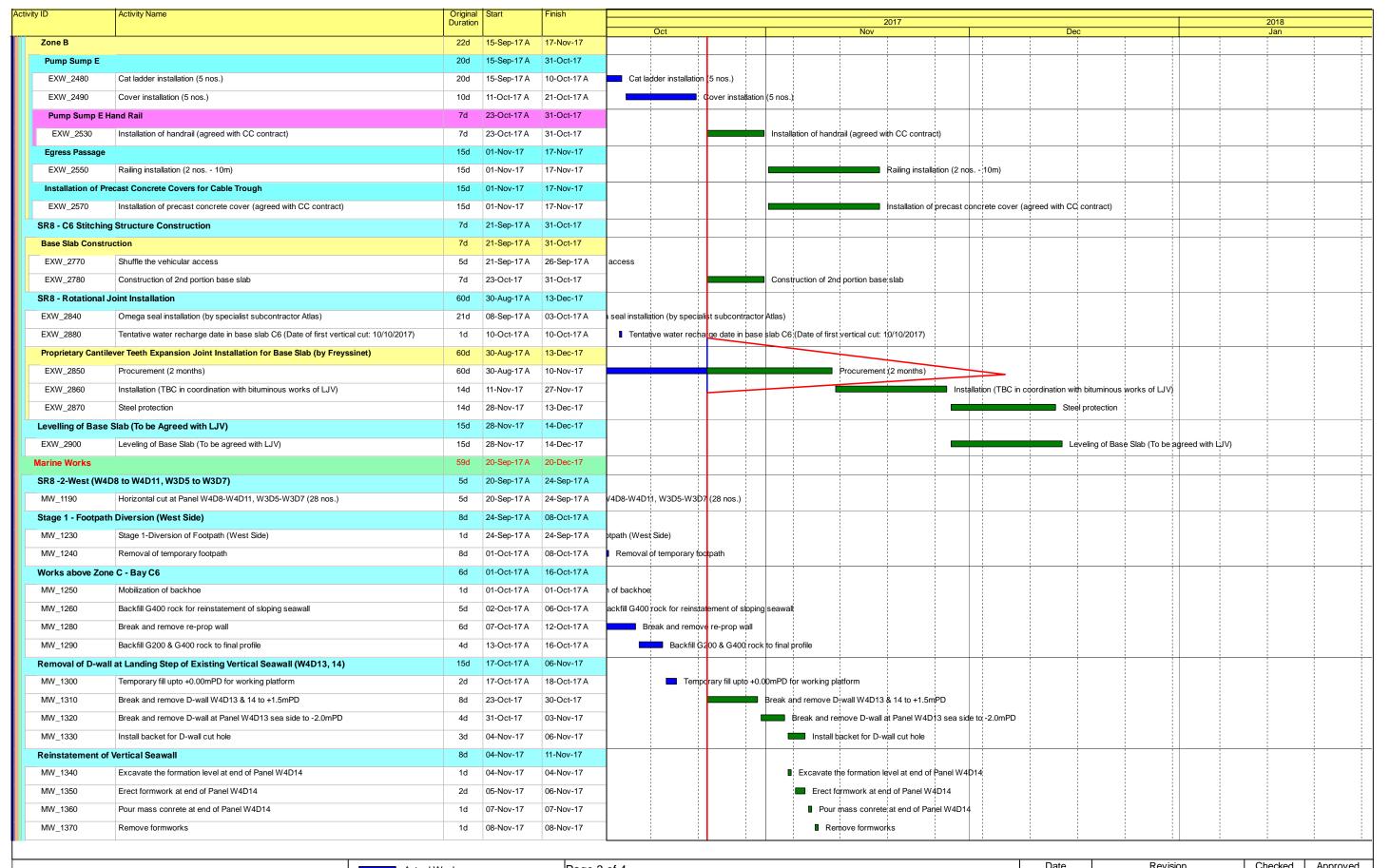




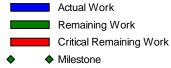


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Date	Revision	Спескеа	Approved
23-Oct-17	DWP-08 (1) - 3 Months Rolling	TL	TL





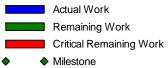


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DWP-08 (1) - 3 Months Rollin	ng TL	TL	
		DWP-08 (1) - 3 Months Rolling TL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

vity ID	Activity Name	Original Duration	Start	Finish		2017	2018
		Duration			Oct	Nov Dec	Jan
MW_1380	Install granite facing stone 1st layer	2d	09-Nov-17	10-Nov-17		Install granite facing stone 1st layer	
MW_1390	Pour concrete behind 1st layer of facing stone	1d	11-Nov-17	11-Nov-17	1	Pour concrete behind 1st layer of facing stone	
Stage 2 - Footp	path Diversion (East Side)	8d	24-Oct-17	31-Oct-17			
MW_1400	Stage 2-Diversion of Footpath (East Side)	1d	24-Oct-17*	24-Oct-17	■ Stage 2-Di	version of Footpath (East Side)	
MW_1410	Remove temp. footpath & break footpath footing	7d	25-Oct-17	31-Oct-17		Remove temp. footpath & break footpath footing	
Removal of Pip	pe Pile Wall	18d	01-Nov-17	18-Nov-17			
MW_1420	Break the mass concrete at end of Bay 1 adjacent to land side	3d	01-Nov-17	03-Nov-17		Break the mass concrete at end of Bay 1 adjacent to land side	
MW_1430	Remove filled materials behind seawall bay 1 to +1.00mPD	3d	04-Nov-17	06-Nov-17		Remove filled materials behind seawall bay 1 to +1.00mPD	
MW_1440	Cut and remove the pipe pile wall	7d	12-Nov-17	18-Nov-17		Cut and remove the pipe pile wall	
Cut Remaining	g d-wall (W4D12, W4D15 to 16)	17d	19-Nov-17	05-Dec-17			
MW_1470	Remove remaining filled materials behind Bay 1	3d	19-Nov-17	21-Nov-17		Remove remaining filled materials behind Bay 1	
MW_1480	Remove half of seawall blocks at Bay 1 (80os.)	2d	22-Nov-17	23-Nov-17		Remove half of seawall blocks at Bay 1 (80os.)	
MW_1490	Vertical cut at W3D8-11, W4D12, W4D15-16 (14 nos.)	5d	24-Nov-17	28-Nov-17		Vertical cut at W3D8-11, W4D12, W4D15-16 (14 nos.)	
MW_1500	Horizontal cut at W3D8-11, W4D12, W4D15-16 (20 nos.)	5d	29-Nov-17	03-Dec-17		Horizontal cut at W3D8-11, W4D12, W4D15-16 (20 nos.)	
MW_1510	Remove remaining seawall blocks at Bay 1 (100 nos.)	2d	04-Dec-17	05-Dec-17		Remove remaining seawall blocks at Bay 1 (100 nos.)	
Removal of Sh	eet Pile Wall	3d	06-Dec-17	08-Dec-17			
MW_1520	Removal of Sheet Pile Wall	3d	06-Dec-17	08-Dec-17		Removal of Sheet Pile Wall	
Stage 3 - Diver	rsion of Victoria Park Road	1d	15-Nov-17	15-Nov-17			
MW_1530	Stage 3 - Diversion of Victoria Road	1d	15-Nov-17*	15-Nov-17		Stage 3 - Diversion of Victoria Road	
Reinstatement	t of Remaining Vertical Seawall by Land Plants	35d	16-Nov-17	20-Dec-17			
MW_1540	Install granite facing stone 2nd layer	2d	16-Nov-17	17-Nov-17		Install granite facing stone 2nd layer	
MW_1550	Pour concrete behind 2nd layer of facing stone	1d	18-Nov-17	18-Nov-17		Pour concrete behind 2nd layer of facing stone	
MW_1560	Install granite facing stone 3rd layer	2d	19-Nov-17	20-Nov-17		Install granite facing stone 3rd layer	
MW_1570	Pour concrete behind 3rd layer of facing stone	1d	21-Nov-17	21-Nov-17		■ Pour concrete behind 3rd layer of facing stone	
MW_1580	Install granite facing stone 4th layer	2d	22-Nov-17	23-Nov-17		Install granite facing stone 4th layer	
MW_1590	Pour concrete behind 4th layer of facing stone	1d	24-Nov-17	24-Nov-17		■ Pour concrete behind 4th layer of facing stone	
MW_1600	Install granite facing stone 5th layer	2d	25-Nov-17	26-Nov-17		Install granite facing stone 5th layer	
MW_1610	Pour concrete behind 5th layer of facing stone	1d	27-Nov-17	27-Nov-17		■ Pour concrete behind 5th layer of facing stone	
MW_1620	Break the damage coping concrete	2d	28-Nov-17	29-Nov-17		■ Break the damage coping concrete	
MW_1630	Erect Formwork for coping	3d	30-Nov-17	02-Dec-17		Erect Formwork for coping	
MW_1640	Pour concrete for coping	1d	03-Dec-17	03-Dec-17		■ Pour concrete for coping	
MW_1650	Backfill up to formation level (6 layers)	13d	04-Dec-17	16-Dec-17		Backfill up to formation level (6 layers)	
MW_1660	Lay footpath paving blocks	4d	17-Dec-17	20-Dec-17	1	Lay footpath paving blocks	

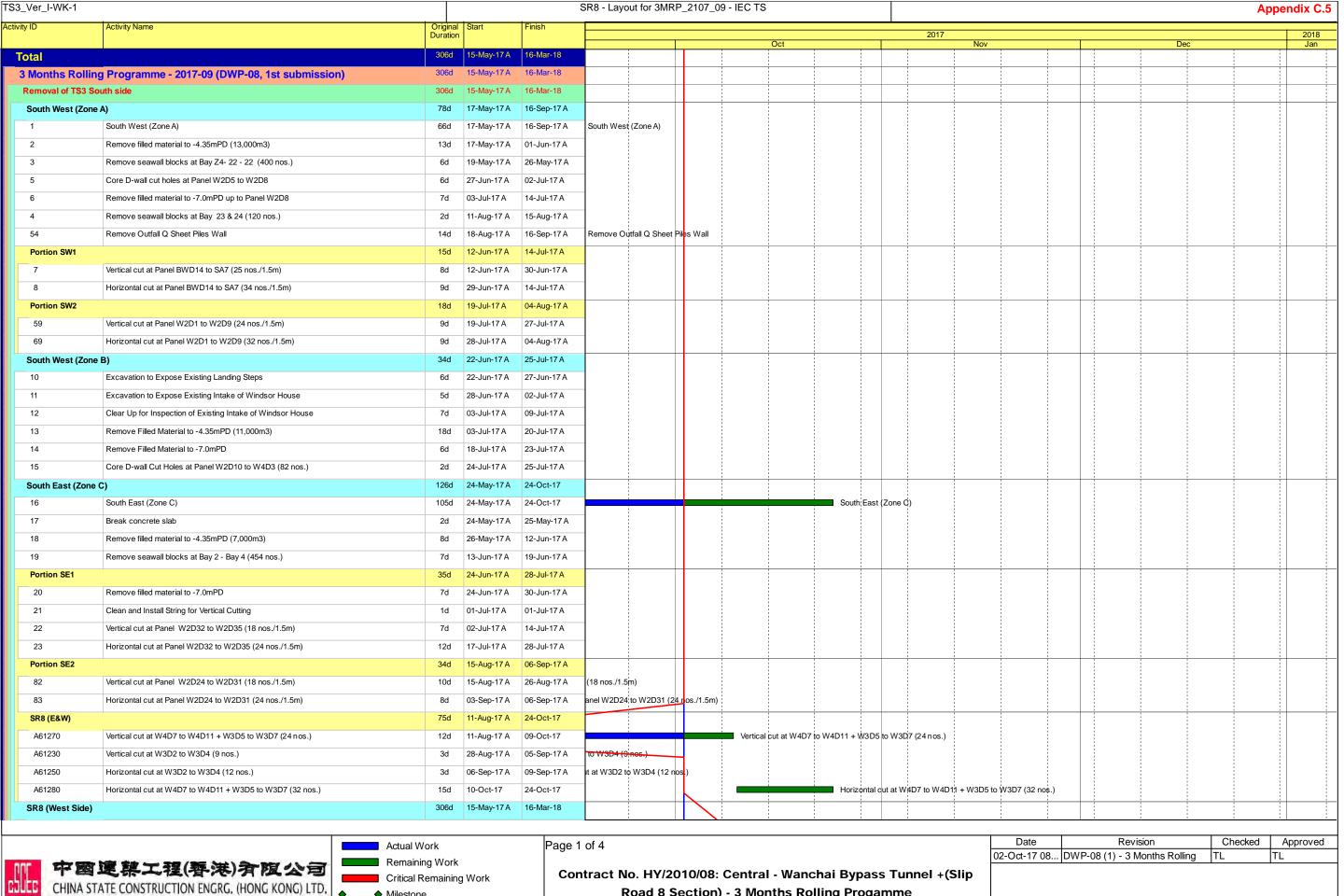


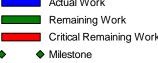


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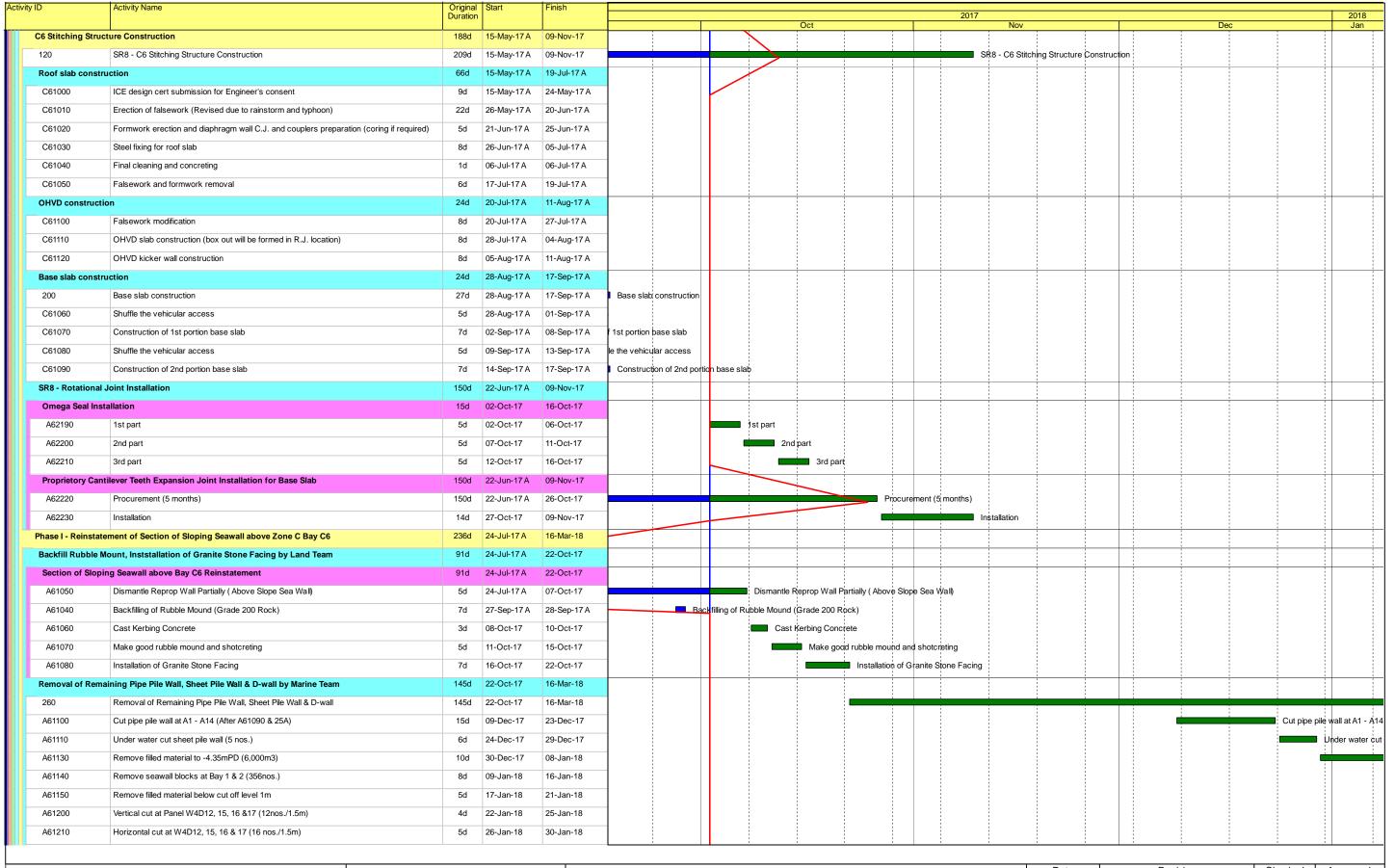
Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip
Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
23-Oct-17	DWP-08 (1) - 3 Months Rolling	TL	TL

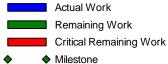




Road 8 Section) - 3 Months Rolling Progamme

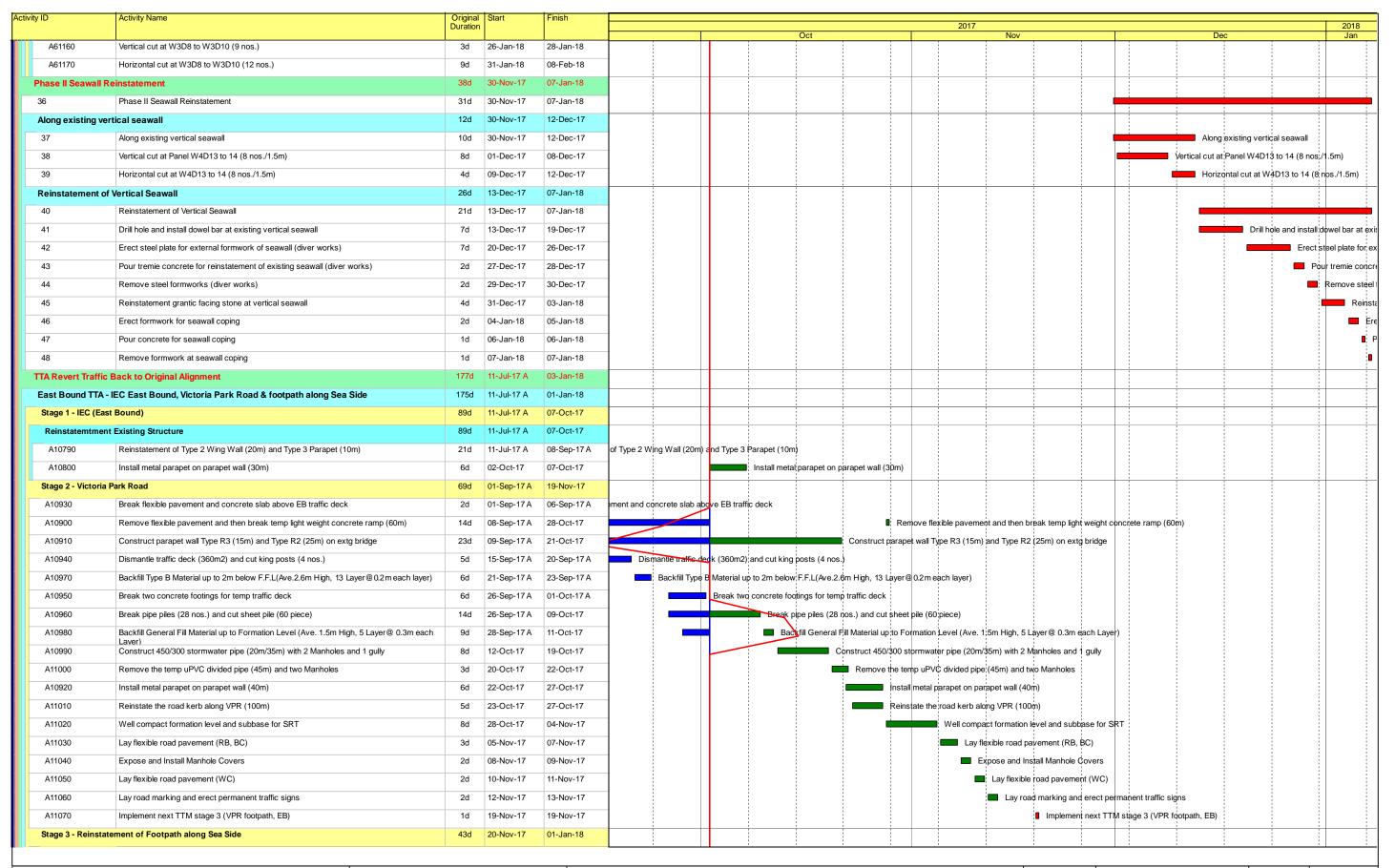




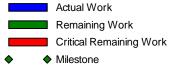


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Date	Revision	Спескеа	Approvea
02-Oct-17 08	DWP-08 (1) - 3 Months Rolling	TL	TL

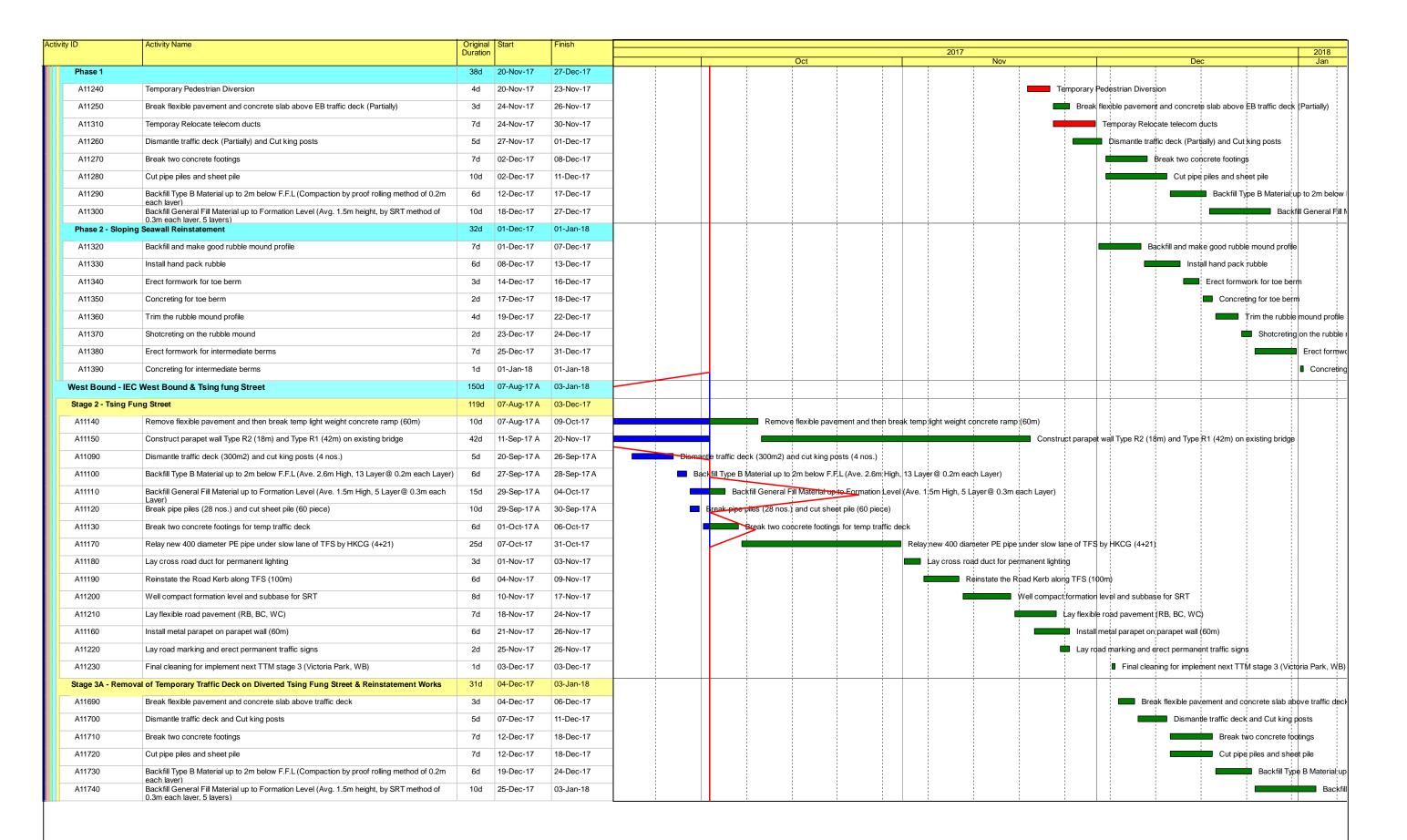




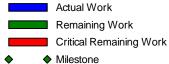


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Date	Revision	Checked	Approved
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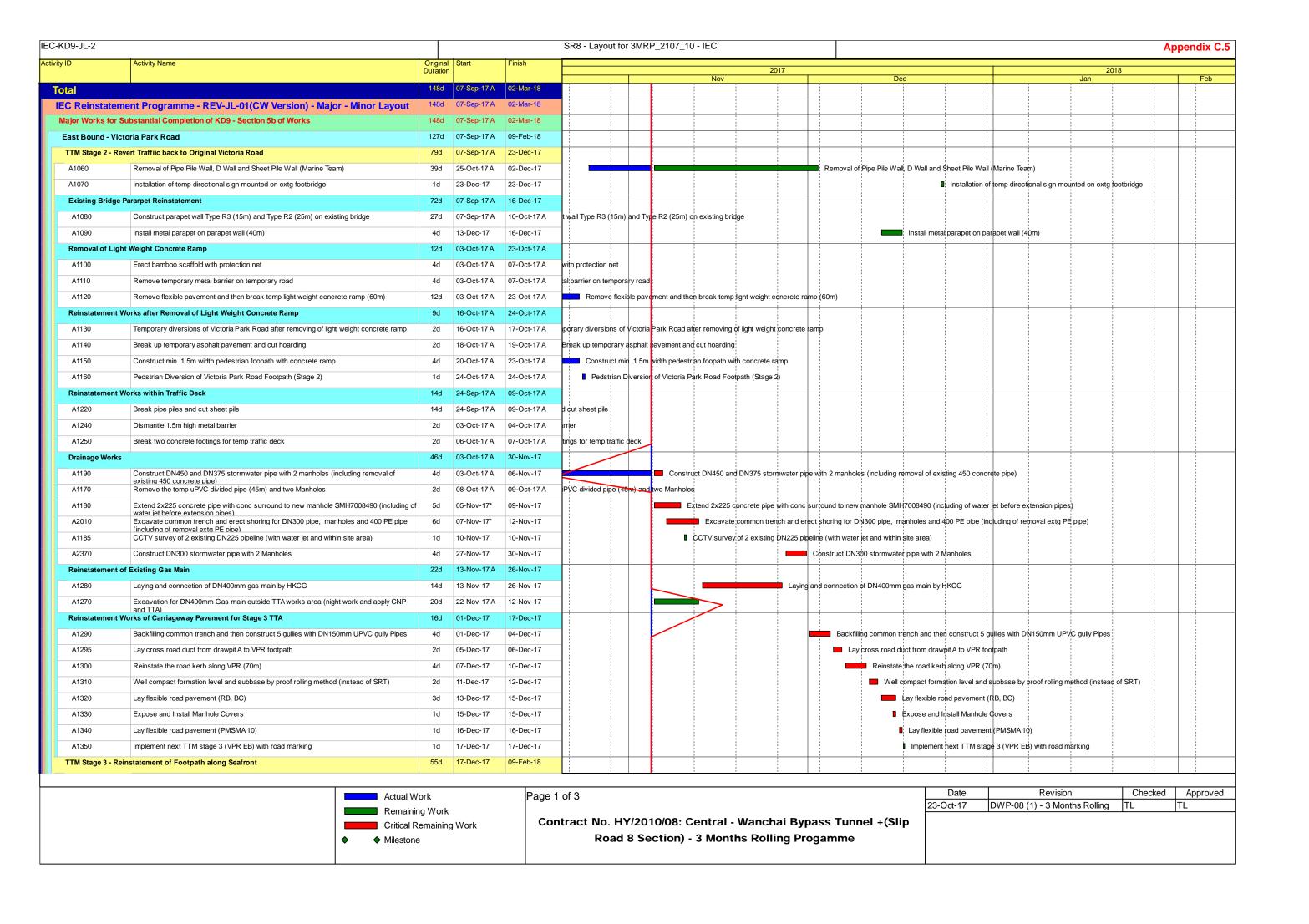


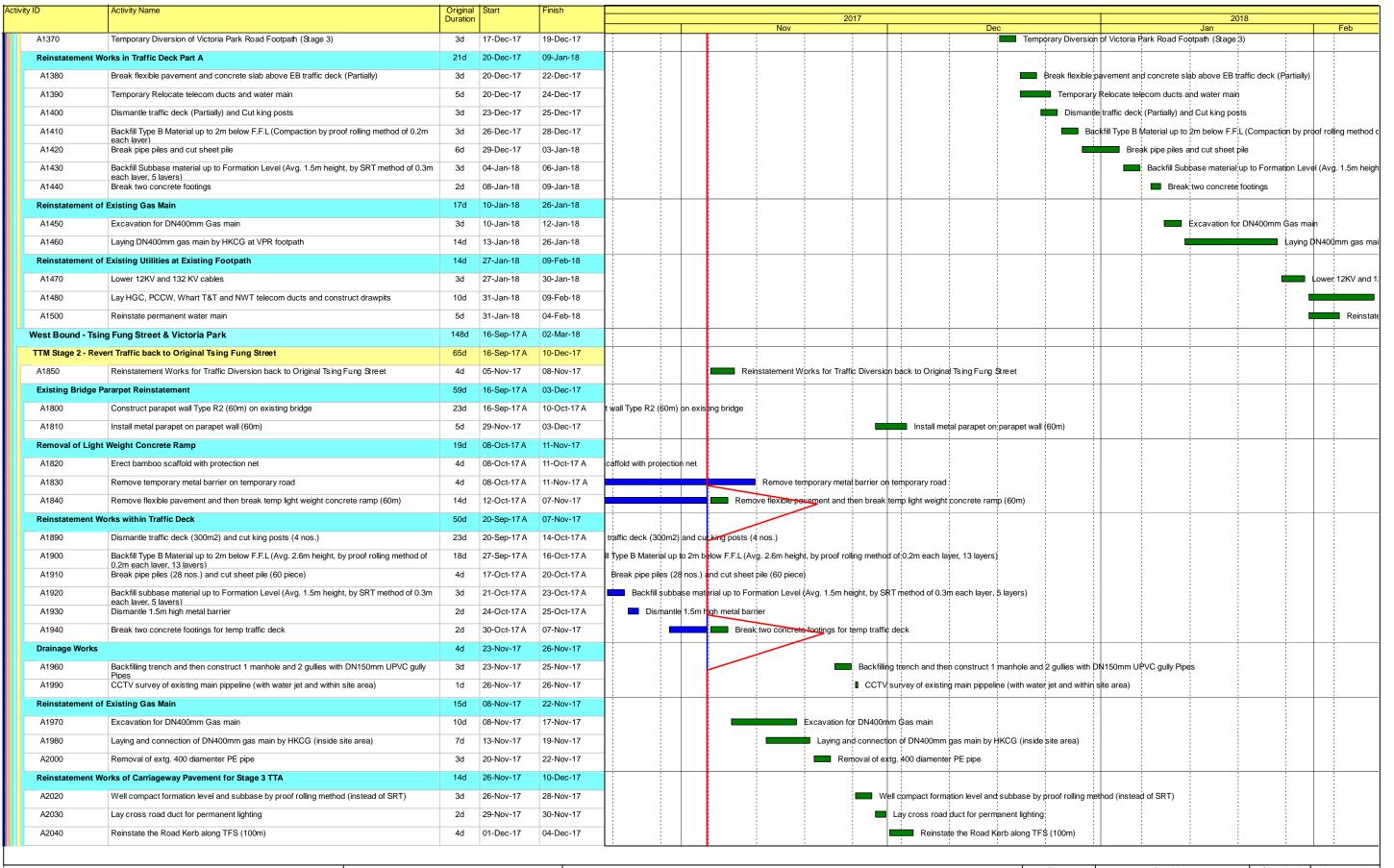




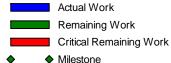
Page 4 of 4

Date	Revision	Checked	Approved
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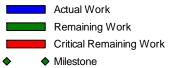


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Date	Revision	Checked	Approved
23-Oct-17	DWP-08 (1) - 3 Months Rolling	TL	TL

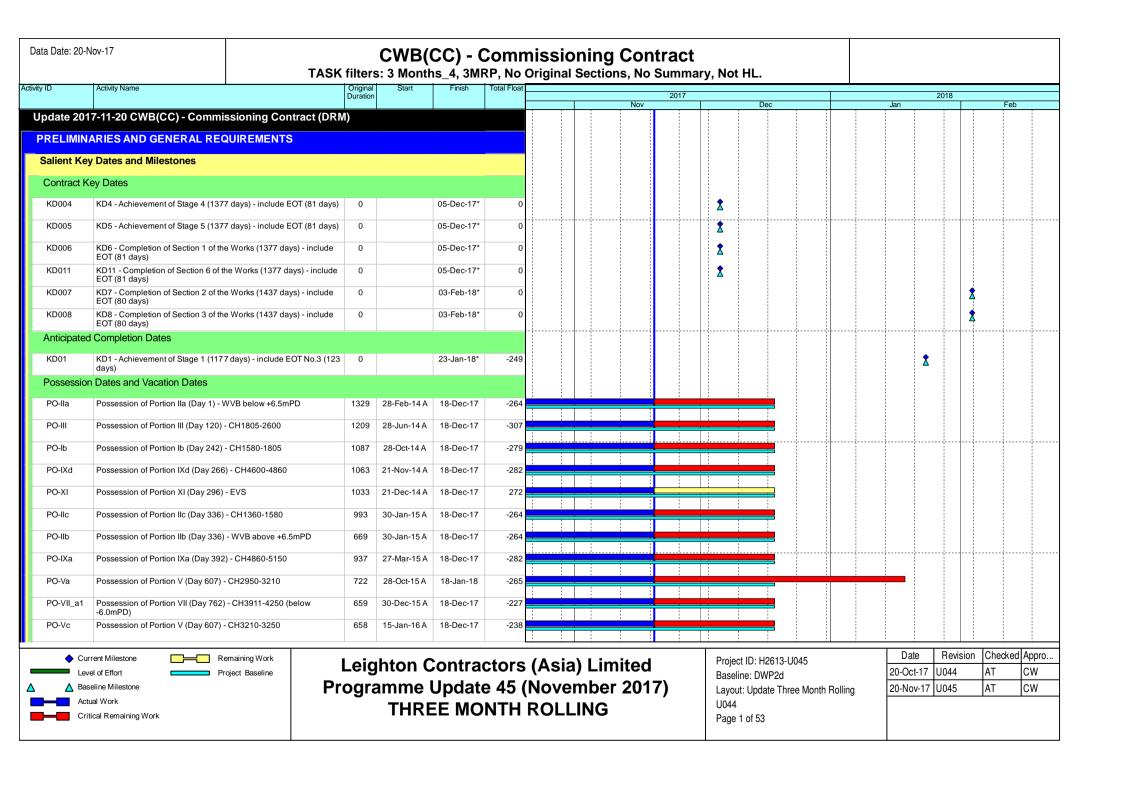
vity ID	Activity Name	Original Duration		Finish	2017	2018
		Duration			Nov Dec	Jan Feb
A2050	Lay flexible road pavement (RB, BC)	3d	05-Dec-17	07-Dec-17	Lay flexible road pavement (RB, BC)	
A2060	Expose and Install Manhole Covers	1d	07-Dec-17	07-Dec-17	■ Expose and Install Manhole Covers	
A2070	Lay flexible road pavement (PMSMA 10)	1d	08-Dec-17	08-Dec-17	Lay flexible road pavement (PMSMA10)	
A2080	Lay road marking and erect permanent traffic signs	1d	08-Dec-17	08-Dec-17	■ Lay road marking and erect permanent traffi	c signs
A2090	Implement next TTM stage 3 (Tsing Fung Street, WB)	1d	10-Dec-17	10-Dec-17	■ Implement next TTM stage 3 (Tsing Fund	Street, WB)
TTM Stage 3 -	Reinstatement of Victoria Park	103d	20-Nov-17	02-Mar-18		
	nt Works in Traffic Deck	24d	10-Dec-17	02-Jan-18		
						WB. #
A2100	Break flexible pavement and concrete slab above WB traffic deck	3d	10-Dec-17	12-Dec-17	Break flexible pavement and concre	
A2110	Dismantle traffic deck and Cut king posts	5d	13-Dec-17	17-Dec-17	Dismantle traffic deck and	
A2120	Break two concrete footings	3d	18-Dec-17	20-Dec-17	Break two concrete	ootings
A2130	Backfill Type B Material up to 2m below F.F.L (Compaction by proof rolling method of 0.2m each layer)	3d	21-Dec-17	23-Dec-17	Backfill Type B	Material up to 2m below F.F.L (Compaction by proof rolling method of 0.2
A2140	Cut pipe piles and sheet pile	5d	24-Dec-17	28-Dec-17	Cut b	pe piles and sheet pile
A2150	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	3d	29-Dec-17	31-Dec-17		Backfill General Fill Material up to Formation Level (Avg. 1 5m height, by
A2160	Dismantle 1.5m high metal barrier	2d	01-Jan-18	02-Jan-18		■ Dismantle 1.5m high metal barrier
Reinstatemen	nt Works inside Victoria Park	103d	20-Nov-17	02-Mar-18		
A2180	Removal of Temporary 400 diameter Gas main	7d	20-Nov-17	26-Nov-17	Removal of Temporary 400 diameter G as main	
A2170	Reinstatement of Boundary Fence	21d	02-Jan-18	25-Jan-18		Reinstatement of Bound
A2190	Cutting sheet pile to 1.5m below finish slope profile (MS 169B)	10d	26-Jan-18	06-Feb-18		
A2200	Slope Reinstatement of Victoria Park	21d	03-Feb-18	02-Mar-18		
Completion of N	Minor Outstanding / Remaining Works for KD9	97d	05-Nov-17	09-Feb-18		
West Bound - (	Completion of Minor Outstanding / Remaining Works for KD9	97d	05-Nov-17	09-Feb-18		
	tement Works for Tsing Fung Street	13d	26-Jan-18	07-Feb-18		
A2240	Laying Public Lighting duct	6d	26-Jan-18	31-Jan-18		Laying Publi
A2250	Installation of public lighting post and connection by HyD	7d	01-Feb-18	07-Feb-18		
A2260	Well compact road formation level and subbase for SRT	6d	01-Feb-18	06-Feb-18		
Minor Reinstat	tement Works in IEC West Bound	97d	05-Nov-17	09-Feb-18		
A2300	Replacement of new movement joint at IEC W/B (Sun midnight only)	8d	05-Nov-17	12-Nov-17	Replacement of new movement joint at IEC W/B (Sun midnight only)	
A2330	Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC W/B	2d	05-Nov-17*	06-Nov-17	Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC W/B	
A2310	Repairing of extg conc deck surface after milling of temp asphalt at IEC W/B and E/B (Sun midnight only)	59d	13-Nov-17	10-Jan-18		Repairing of extg conc deck surface after milling of to
A2320	Repairing of concrete defects on extg concrete deck and abutment M	30d	11-Jan-18	09-Feb-18		
A2340	Erection of new precast concrete panels (12 nos.) at abutment M facing to VPR	2d	11-Jan-18	12-Jan-18		Erection of new precast concrete panels (12 nos
A2350	Reinstatement of fire hydrant mounted on external face of edge barrier at IEC W/B	3d	13-Jan-18	15-Jan-18		Reinstatement of fire hydrant mounted on e



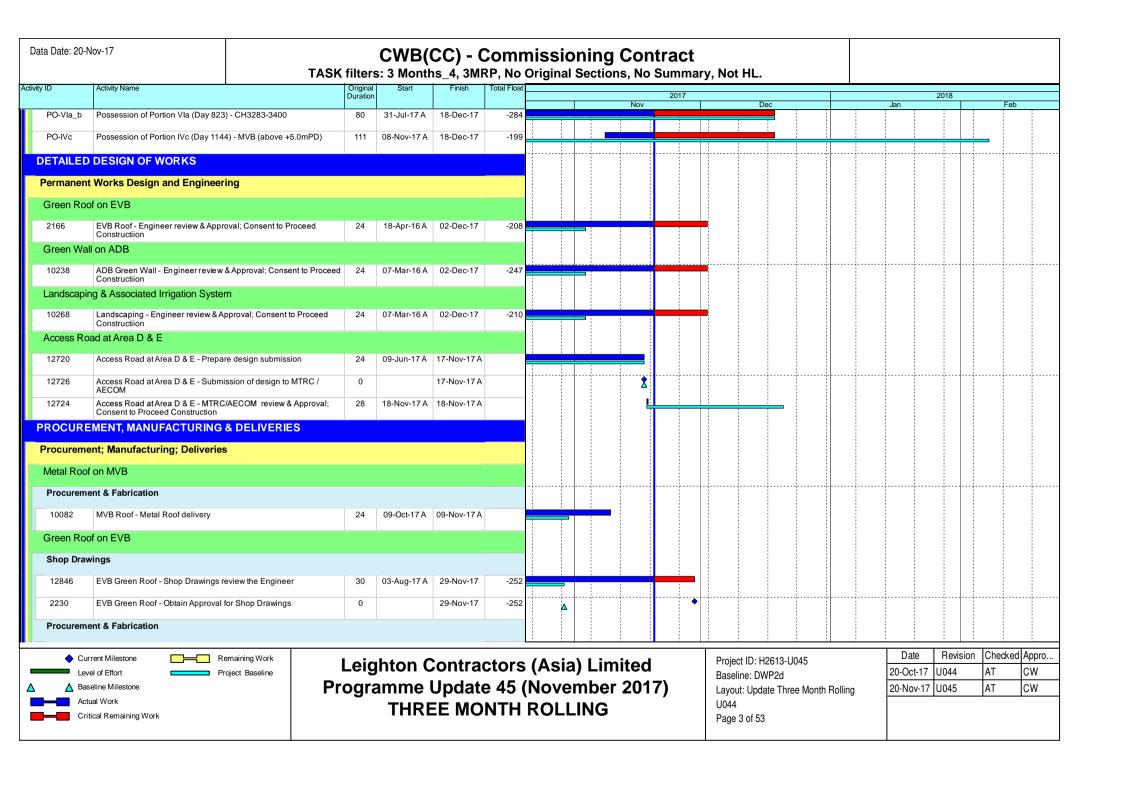


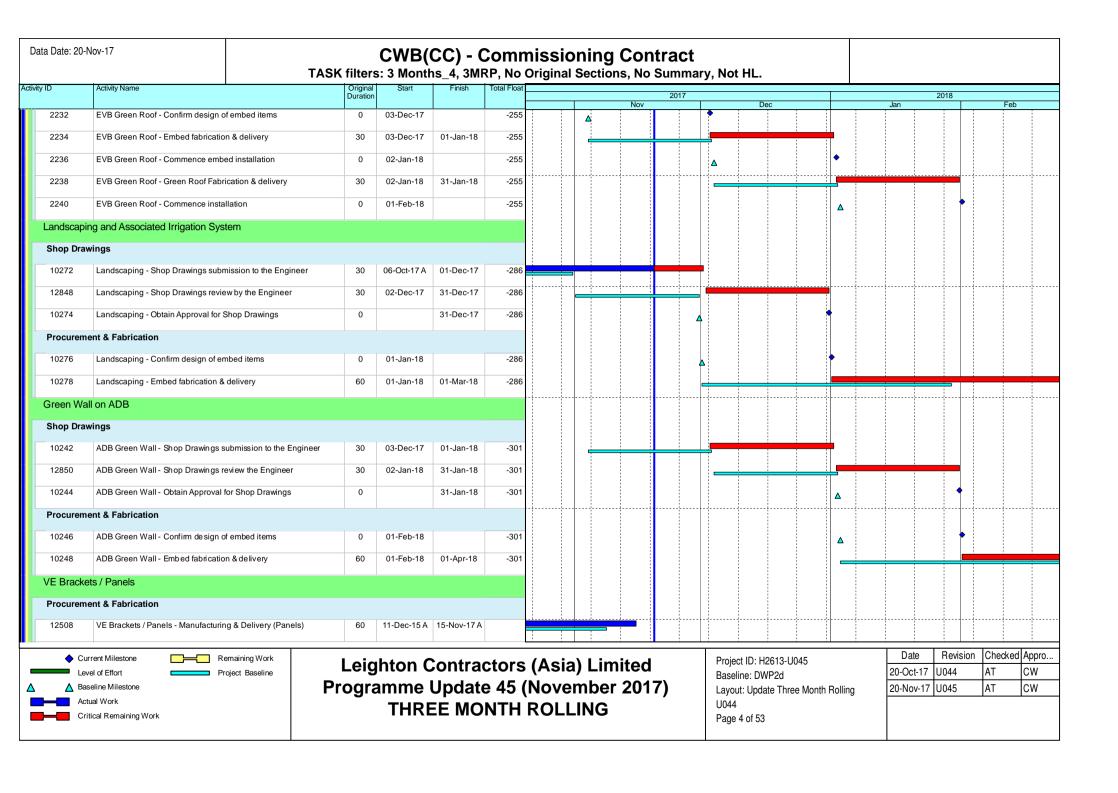
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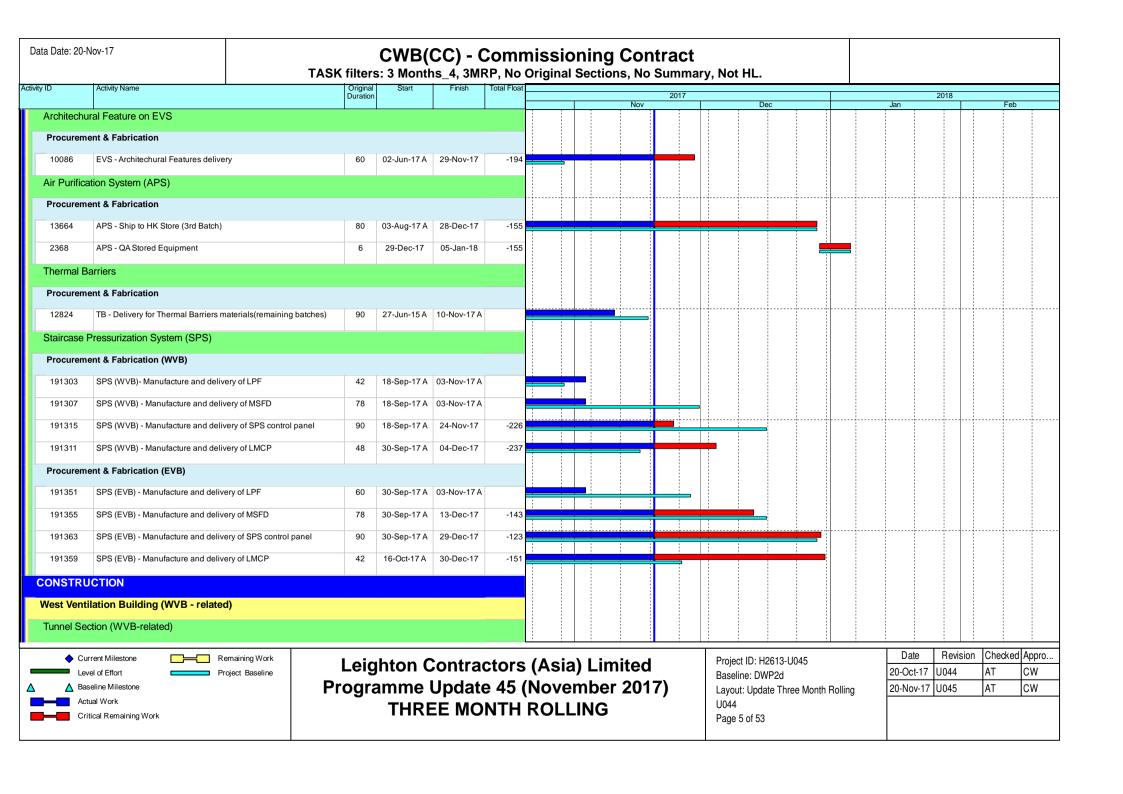
Date	Revision	Спескеа	Approved
23-Oct-17	DWP-08 (1) - 3 Months Rolling	TL	TL
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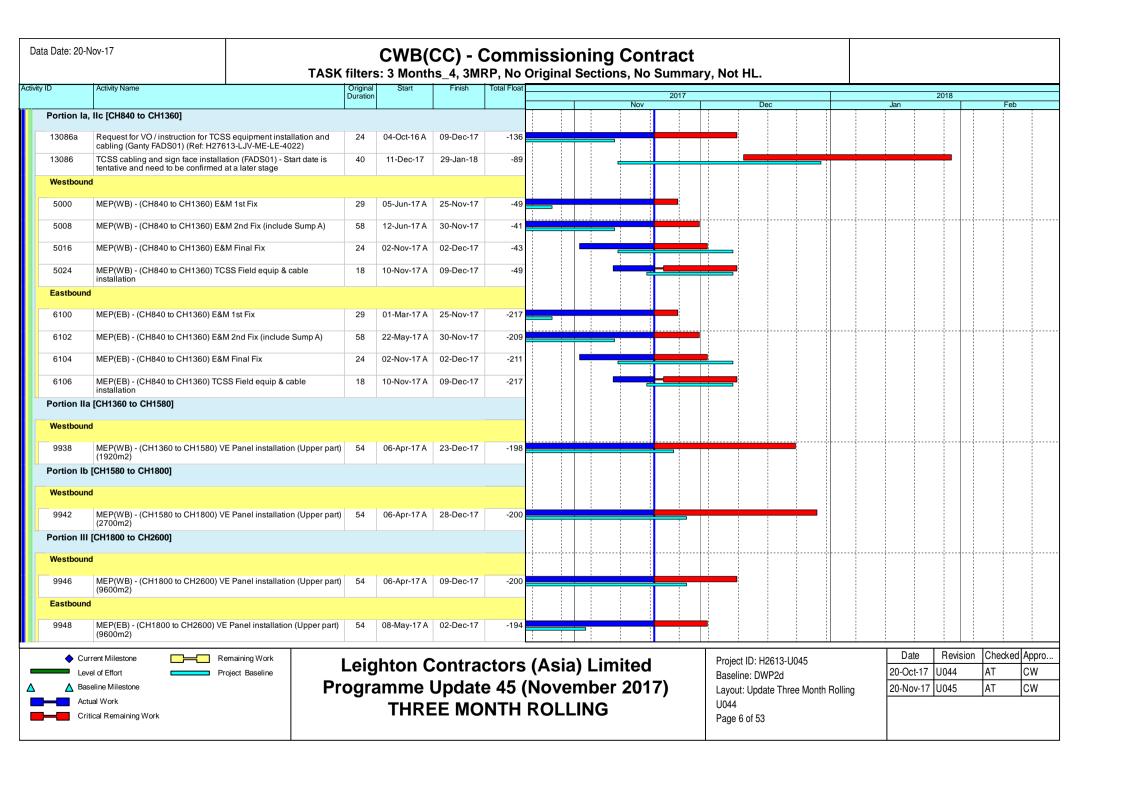


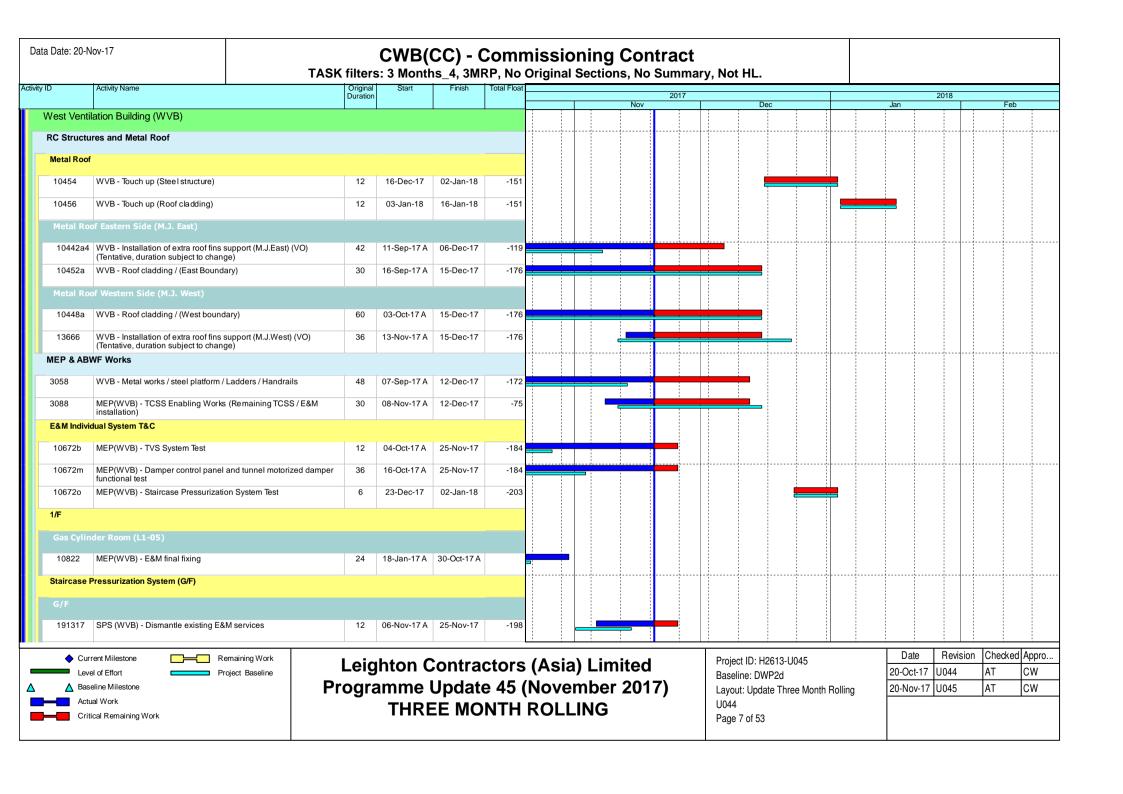
Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Feh PO-VIb\_b1 Possession of Portion VIb (Day 761) - CH3428-3625 (E/B) 18-Feb-16 A 18-Dec-17 -300 PO-VIb\_b2 Possession of Portion VIb (Day 761) - CH3428-3625 (W/B) 29-Feb-16 A 18-Dec-17 -279 Possession of Portion Xa (Day 650) - ADB Southern Portion PO-Xa 1 589 07-Mar-16 A 18-Dec-17 -318 (AECOM letter ref: 2015007890T) PO-Xb 1 Possession of Portion Xb (Day 804) - ADB Northern Portion 07-Mar-16 A 18-Dec-17 -318 589 PO-Vb1 Possession of Portion V (Day 607) - SR3 241 11-Mar-16 A 18-Jan-18 PO-la Possession of Portion Ia (Day 789) - SCB / SCP1 / SCP2 / Rumsey -270 600 28-Mar-16 A 18-Dec-17 PO-VII\_a2 Possession of Portion VII (Day 762) - CH3800-3911 (below 31-Mar-16 A 18-Dec-17 -182 -6.0mPD) Possession of Portion IXc (Day 712) - EVB above 3.6mPD -PO-IXc 1 445 29-Jul-16 A 18-Dec-17 -308 Relinguished on 12 Apr 2016 Possession of Portion IXb (Day 712) - EVB (below +3.6mPD to PO-IXb 1 445 05-Aug-16 A 18-Dec-17 -308 tunnel top slab) - Relinguished on 12 Apr 2016 PO-Vla a Possession of Portion VIa (Day 823) - CH3250-3283 15-Aug-16 A 18-Dec-17 -233 PO-Vb2 a Possession of Portion V (Day 607) - SR2 18-Dec-17 -304 15-Aug-16 A PO-Vlc\_a Possession of Portion VIc (Day 761) - CH3770-3800 (Access Shaft 23-Sep-16 A 18-Dec-17 -264 PO-VIb c Possession of Portion VIb (Day 761) - CH3625-3770 391 23-Sep-16 A 18-Dec-17 -283 PO-IVa1 Possession of Portion IVa (Day 930) - CH2600-2720 18-Dec-17 -238 323 30-Nov-16 A Possession of Portion IVb (Day 930) - MVB (GL D-H) PO-IVb2 233 28-Feb-17 A 18-Dec-17 -314 PO-VIIIa a Possession of Portion VIIIa (Day 929) - CH4530-4591 W/B 28-Feb-17 A 18-Dec-17 -227 PO-VIIIa Possession of Portion VIIIa (Day 929) - CH4250-4600 (Remaining) 18-Dec-17 -227 241 12-Mar-17 A PO-VIIIb Possession of Portion VIIIb (Day 929) - SR8 (CH700-350) 12-Mar-17 A 18-Dec-17 PO-VIIIc Possession of Portion VIIIc (Day 1039) - SR8 (CH350-310) / SCP4 233 12-Mar-17 A 18-Dec-17 -138 PO-IVa2 a Possession of Portion IVa (Day 930) - CH2720-2950 18-Dec-17 12-Mar-17 A -238 PO-IVb1 Possession of Portion IVb (Day 930) - MVB (GL A-C) 14-Mar-17 A 18-Dec-17 -314 PO-IVa2\_b Possession of Portion IVa (Day 930) - SR1 30-Mar-17 A 18-Dec-17 -238 203 PO-Vb2\_b Possession of Portion V (Day 607) - SCP3 03-Jul-17 A 18-Dec-17 -304 Possession of Portion VIb (Day 761) - CH3400-3428 PO-VIb a 31-Jul-17 A 18-Dec-17 -268 Date Revision Checked Appro.. Current Milestone Remaining Work Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 CW U044 Level of Effort Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** Baseline Milestone cw Layout: Update Three Month Rolling 20-Nov-17 U045 THREE MONTH ROLLING 11044 Critical Remaining Work Page 2 of 53





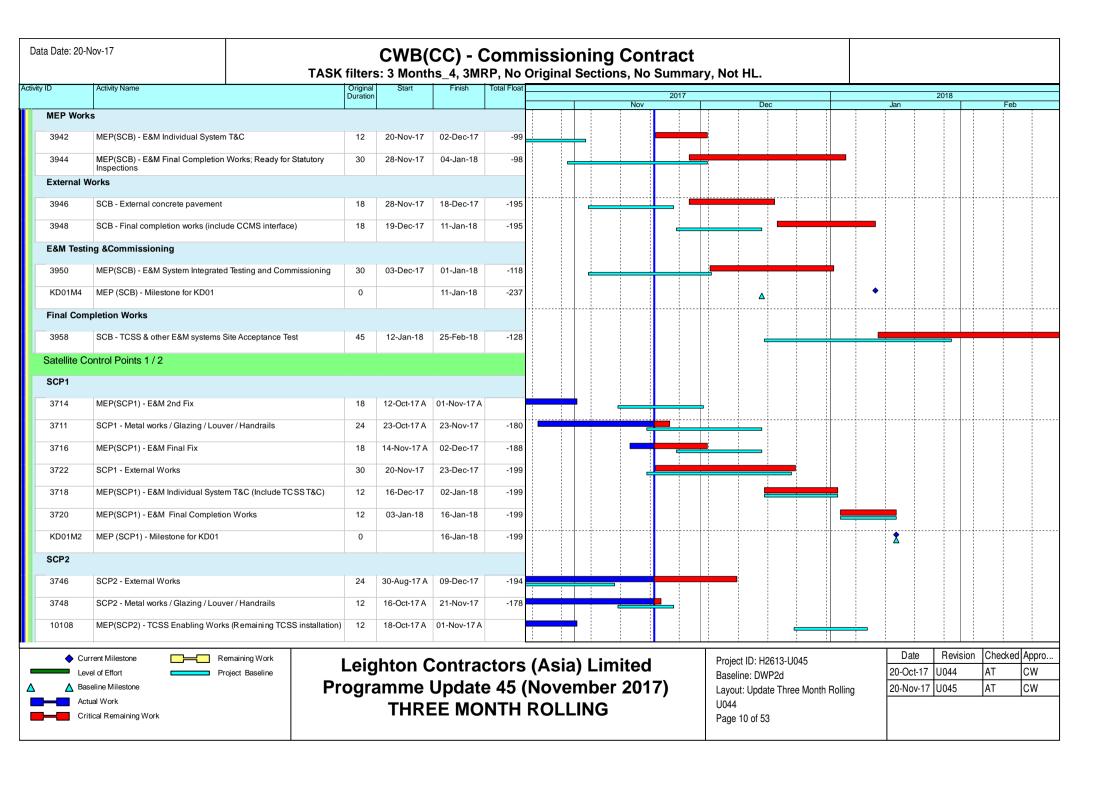


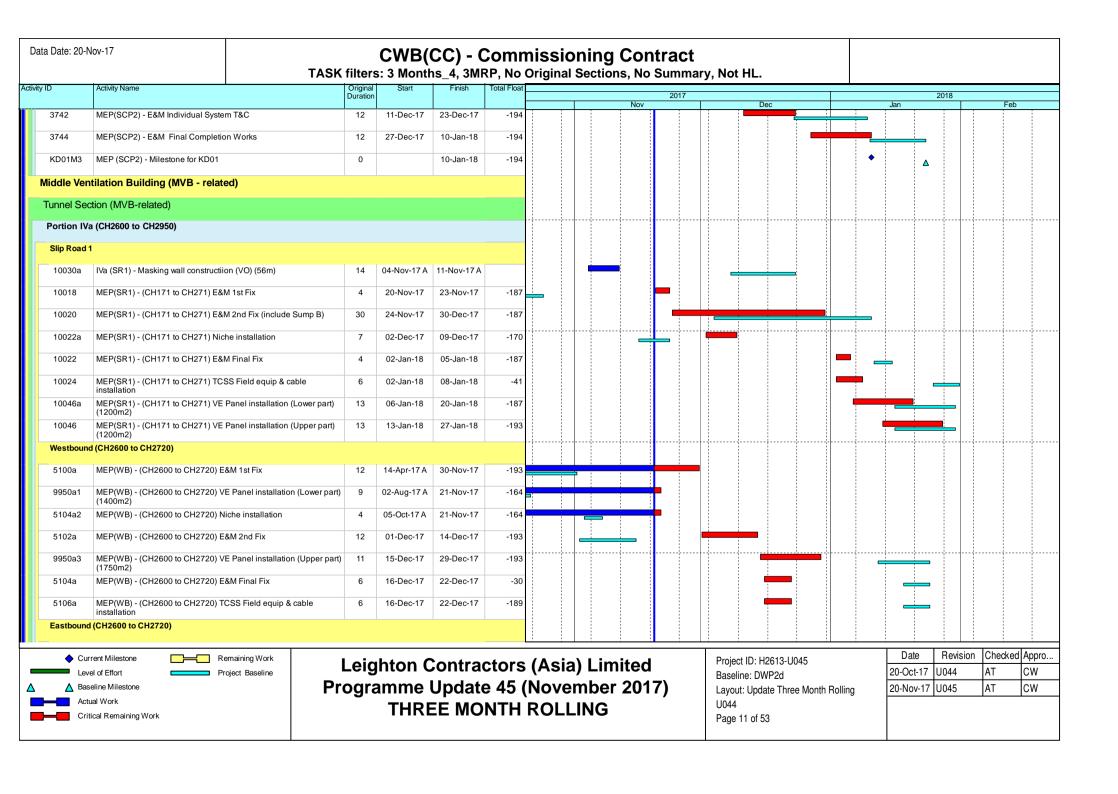




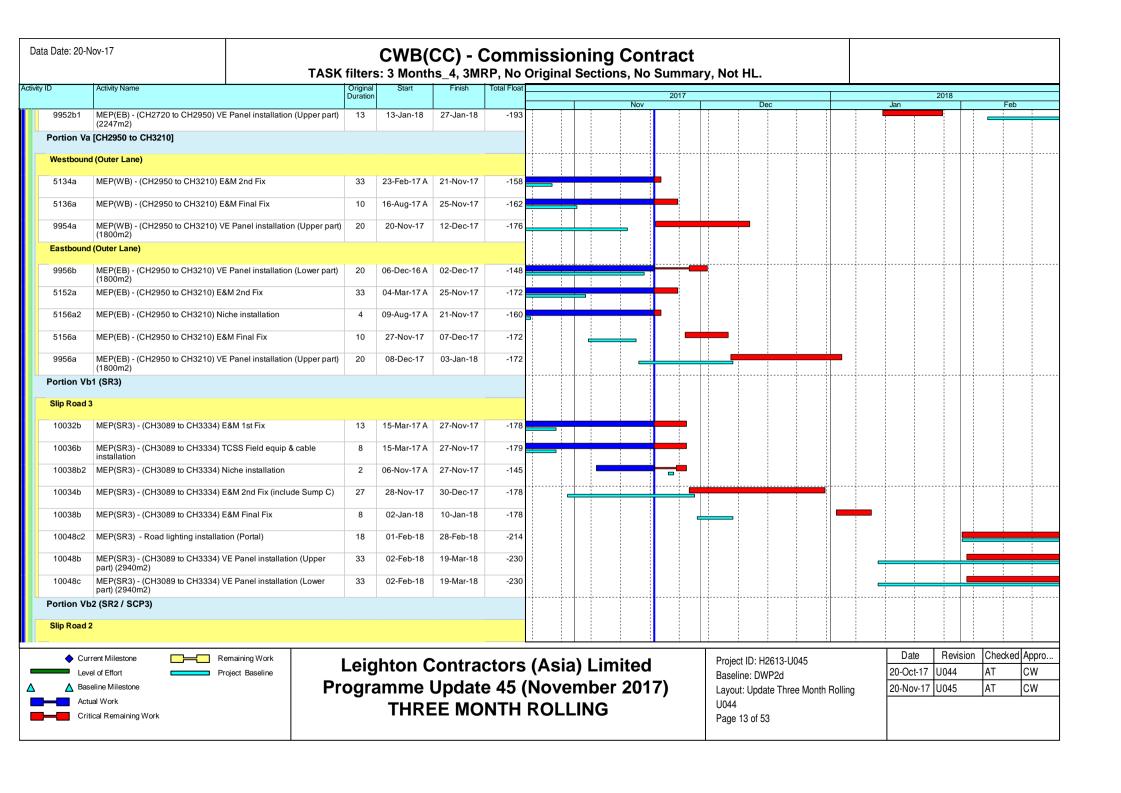
Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months\_4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Feh SPS (WVB) - Power termination for LMCP 191321 20-Nov-17 25-Nov-17 -174 191323 SPS (WVB) - Conduit and wiring works for SPS control 16-Dec-17 20-Nov-17 -198 SPS (WVB) - LPF installation 25-Nov-17 191325 20-Nov-17 -198 SPS (WVB) - Airduct work and FRP enclosure 22-Dec-17 191329 20-Nov-17 -203 SPS (WVB) - LMCP installation 05-Dec-17 11-Dec-17 -193 191319 191327 SPS (WVB) - MSFD installation 16-Dec-17 -198 11-Dec-17 191331 SPS (WVB) - SPS control panel installation 12-Dec-17 16-Dec-17 -198 APS 3166a APS(WVB) - Delivery of HV power supply 0 15-Jan-18\* -44 3166b APS(WVB) - Installation of HV power supply (including transformer 16-Jan-18 22-Jan-18 -44 and controller for WVB) APS(WVB) - Testing of HV power supply for WVB 3166c 23-Jan-18 -44 29-Jan-18 **External Works** 28-Aug-17 A 28-Oct-17 A 3104 WVB - External Fence Wall (VO/131) 3100a WVB - Podium deck construction 18-Sep-17 A 17-Nov-17 A WVB - Extension of parapet wall (VO/131) 18-Sep-17 A 30-Oct-17 A 3100c 3100b WVB - waterproofing between building and tunnel roof interface 60 03-Oct-17 A 16-Nov-17 A WVB - External concrete pavement (include EVA) (include EVA -200 3102 66 16-Oct-17 A 28-Dec-17 3106 WVB - Final completion works (include CCMS interface) 17-Jan-18 20-Mar-18 -119 10884 WVB - External lamp pole, bollard & recess wall lighting installation 17-Jan-18 20-Mar-18 -119 E&M Testing &Commissioning / Statutory Inspection MEP(WVB) - Fire Services & CCMS System Integrated Testing and 3120c 36 04-Oct-17 A 17-Nov-17 A Commissioning (include TFS System Test) 3120a2 MEP(WVB) - TVS E-mode Test (Stage 1) 06-Nov-17 A 15-Dec-17 -245 3120a MEP(WVB) - TVS & CCMS System Integrated Testing and 26-Nov-17 31-Dec-17 -226 MEP(WVB) - Tunnel Lighting & CCMS System Integrated Testing -214 3120b 26-Nov-17 19-Dec-17 and Commissioning Checked Appro.. Date Revision Remaining Work Current Milestone Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 U044 Level of Effort Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** cw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 11044 THREE MONTH ROLLING Critical Remaining Work Page 8 of 53

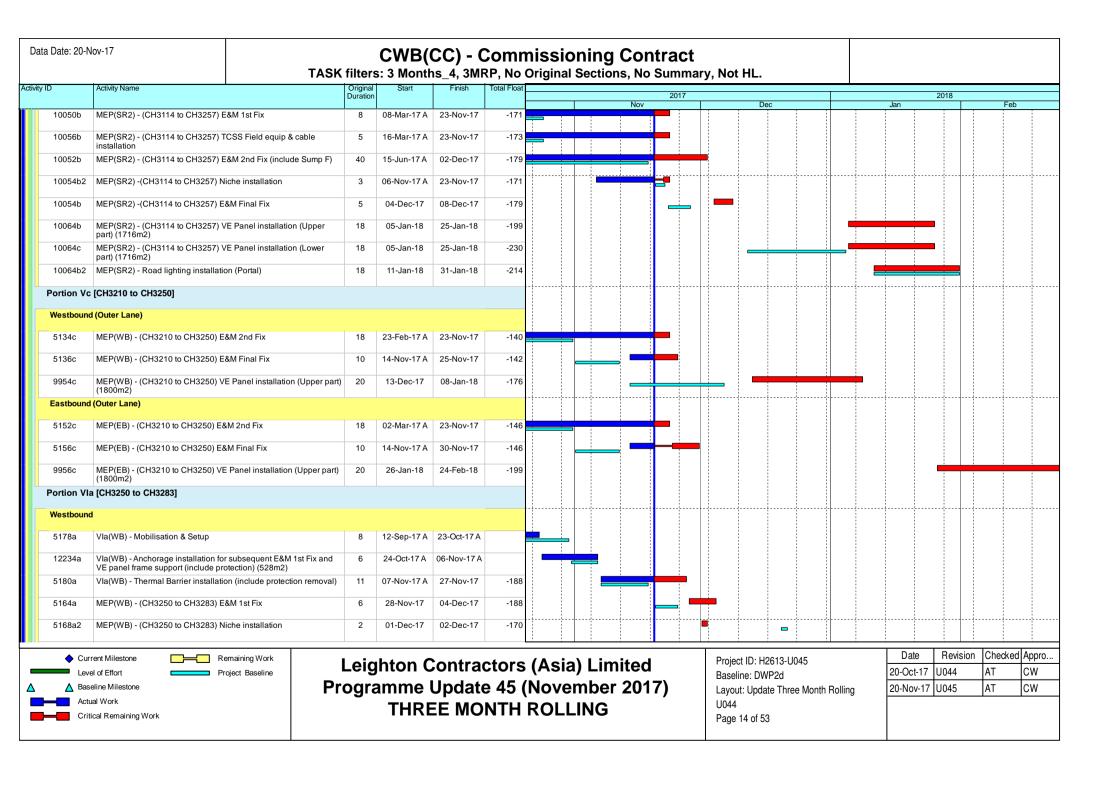
Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Feh 12620 MEP(WVB) - Submission of Form 501 to FSD 20-Dec-17 -249 12642 MEP(WVB) - Submission of WWO46 (Part IV) to WSD 20-Dec-17 -249 MEP(WVB) - Submission of Form 314 to FSD 20-Dec-17 -249 12652 **X** MEP(WVB) - LUX measurement for tunnel lighting 20-Jan-18 -46 3120d 23 29-Dec-17 MEP(WVB) - Ready for Statutory Inspection 03-Jan-18 -249 3122 3124 MEP(WVB) - Statutory Inspection & Certificates (include EMSD & 03-Jan-18 23-Jan-18 -249 21 FSD inspection) 12644 MEP(WVB) - Submission of WWO46 (Part V) to Client 0 03-Jan-18 -249 MEP (WVB) - Milestone for KD01 0 23-Jan-18 -249 KD01M1 **Final Completion Works** 3130 WVB - Final Completion works for APS (Charcoal installation) 20-Jan-18 18-Feb-18 -159 3132 WVB - APS Site Acceptance Test (Air monitoring station) 24-Jan-18 10-Feb-18 -103 WVB - TCSS & other E&M systems Site Acceptance Test 3134 18 08-Feb-18 25-Feb-18 -118 KD04M2 APS SAT (WVB) - Milestone for KD04 0 10-Feb-18 -67 Landscaping and Irrigation Systems WVB - Final completion test for irrigation systems in Portion IIb 3136 16-Dec-17 13-Feb-18 -211 Tunnel Flexible Pavement (WVB-related) 5800 Road(WB) - (CH1480 to CH2600) Flexible Pavement 24-Nov-17 09-Dec-17 -200 Road(EB) - (CH1480 to CH2600) Flexible Pavement 5804 11-Dec-17 28-Dec-17 -200 Satellite Control Building (SCB) **ABWF Works** SCB - ABWF (Wet Trade) 3922 18-Jan-17 A 27-Nov-17 3928 SCB - Metal works / steel platform / Ladders / Handrails 16-Oct-17 A 31-Oct-17 A **External Facade** SCB - External facing tiles / Louvre 12-Oct-17 A 27-Nov-17 Checked Appro.. Revision Remaining Work Current Milestone Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 U044 Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** cw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 U044 THREE MONTH ROLLING Critical Remaining Work Page 9 of 53



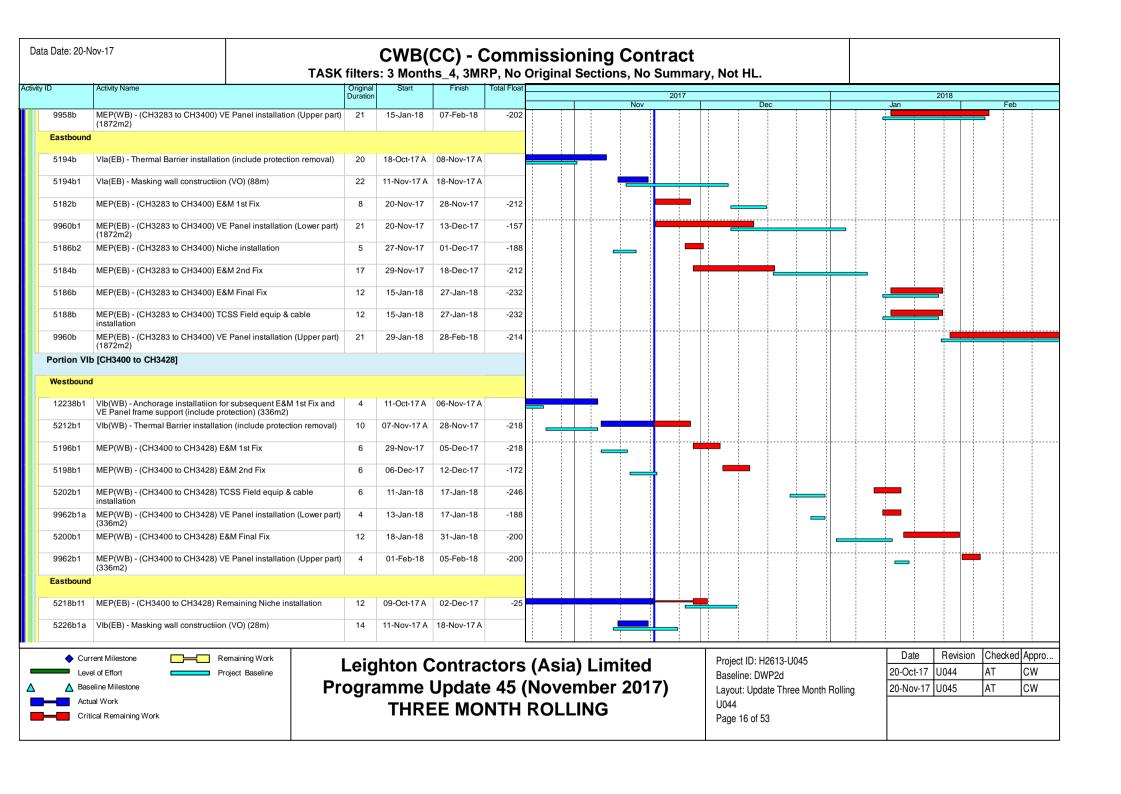


Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original 2018 Feh 5118a MEP(EB) - (CH2600 to CH2720) E&M 1st Fix 12-Apr-17 A 30-Nov-17 MEP(EB) - (CH2600 to CH2720) Niche installation 05-Oct-17 A 5122a2 21-Nov-17 -164 IVa(EB) - Masking wall construction (VO) (23m) 5130a1 16-Oct-17 A 11-Nov-17 A MEP(EB) - (CH2600 to CH2720) VE Panel installation (Lower part) 9952a1 22-Nov-17 01-Dec-17 -160 MEP(EB) - (CH2600 to CH2720) E&M 2nd Fix 08-Dec-17 5120a 01-Dec-17 -189 MEP(EB) - (CH2600 to CH2720) E&M Final Fix -183 5122a 09-Dec-17 15-Dec-17 5124a MEP(EB) - (CH2600 to CH2720) TCSS Field equip & cable 09-Dec-17 15-Dec-17 -189 MEP(EB) - (CH2600 to CH2720) VE Panel installation (Upper part) 9952a3 30-Dec-17 12-Jan-18 -193 (1750m2) Westbound (CH2720 to CH2950) 5104b2 MEP(WB) - (CH2720 to CH2950) Niche installation 05-Oct-17 A 21-Nov-17 5100b MEP(WB) - (CH2720 to CH2950) E&M 1st Fix 20-Nov-17 11-Dec-17 -193 19 9950b MEP(WB) - (CH2720 to CH2950) VE Panel installation (Lower part) 20-Nov-17 04-Dec-17 -162 5102b MEP(WB) - (CH2720 to CH2950) E&M 2nd Fix 12 12-Dec-17 27-Dec-17 -193 5106b MEP(WB) - (CH2720 to CH2950) TCSS Field equip & cable 19-Dec-17 04-Jan-18 -189 12 MEP(WB) - (CH2720 to CH2950) E&M Final Fix 5104b 28-Dec-17 11-Jan-18 -44 9950b1 MEP(WB) - (CH2720 to CH2950) VE Panel installation (Upper part) 13 28-Dec-17 12-Jan-18 -193 (2247m2) Eastbound (CH2720 to CH2950) MEP(EB) - (CH2720 to CH2950) Niche installation 5122b2 05-Oct-17 A 21-Nov-17 -128 5130b1 IVa(EB) - Masking wall construction (VO) (283m) 16-Oct-17 A 11-Nov-17 A MEP(EB) - (CH2720 to CH2950) E&M 1st Fix 02-Dec-17 5118b 20-Nov-17 -171 MEP(EB) - (CH2720 to CH2950) VE Panel installation (Lower part) 02-Dec-17 16-Dec-17 5120b 13 -160 9952b MEP(EB) - (CH2720 to CH2950) E&M 2nd Fix 04-Dec-17 16-Dec-17 -171 5122b MEP(EB) - (CH2720 to CH2950) E&M Final Fix 04-Jan-18 17-Jan-18 -172 MEP(EB) - (CH2720 to CH2950) TCSS Field equip & cable 5124b 05-Jan-18 17-Jan-18 -189 installation Checked Appro.. Revision Current Milestone Remaining Work Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 U044 Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** cw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 11044 THREE MONTH ROLLING Critical Remaining Work Page 12 of 53

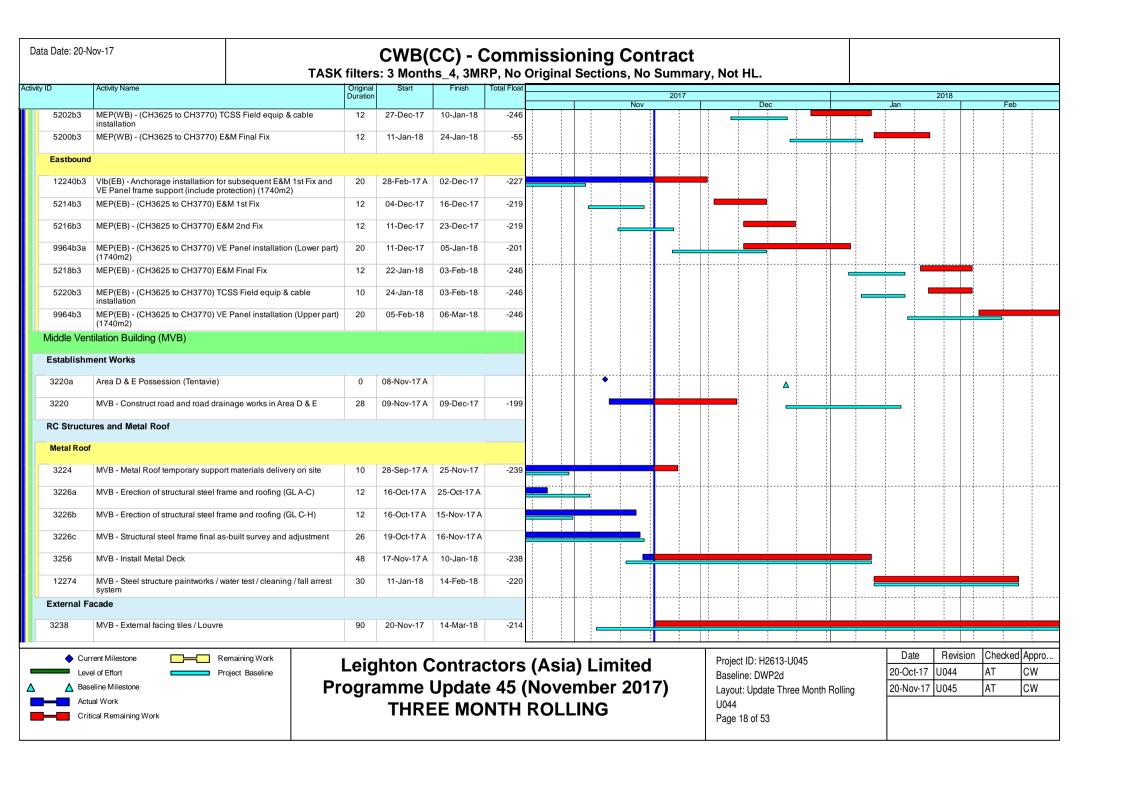


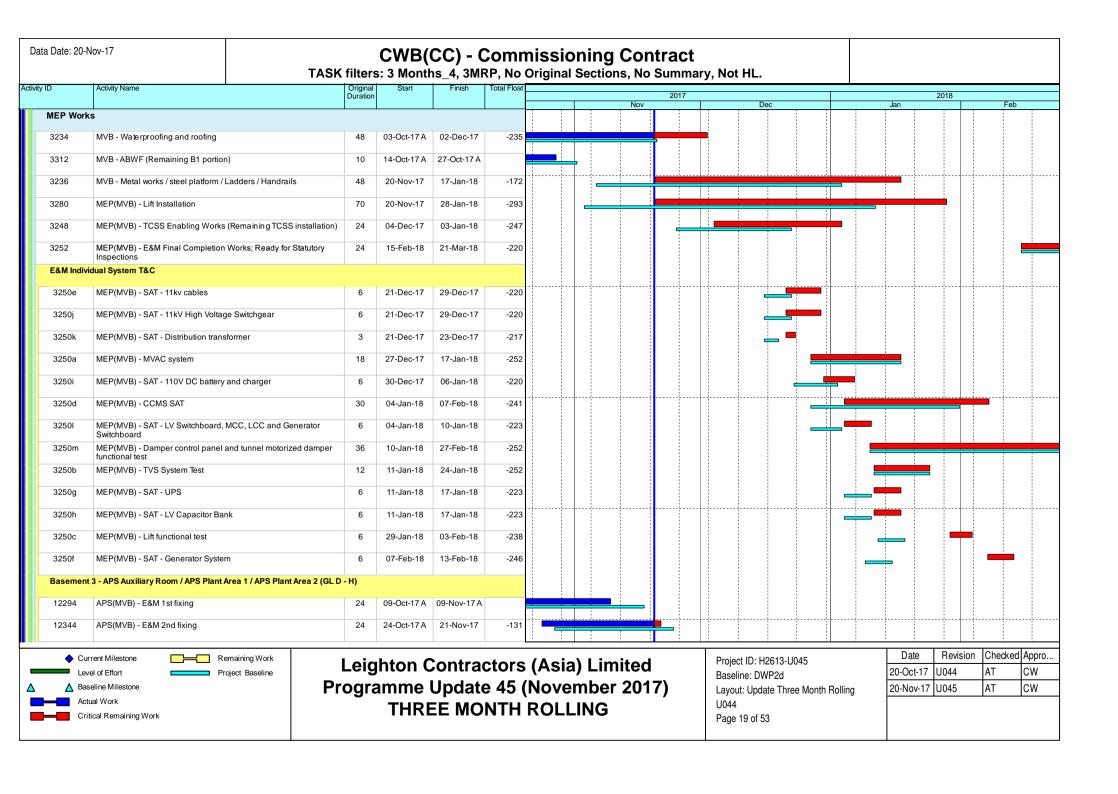


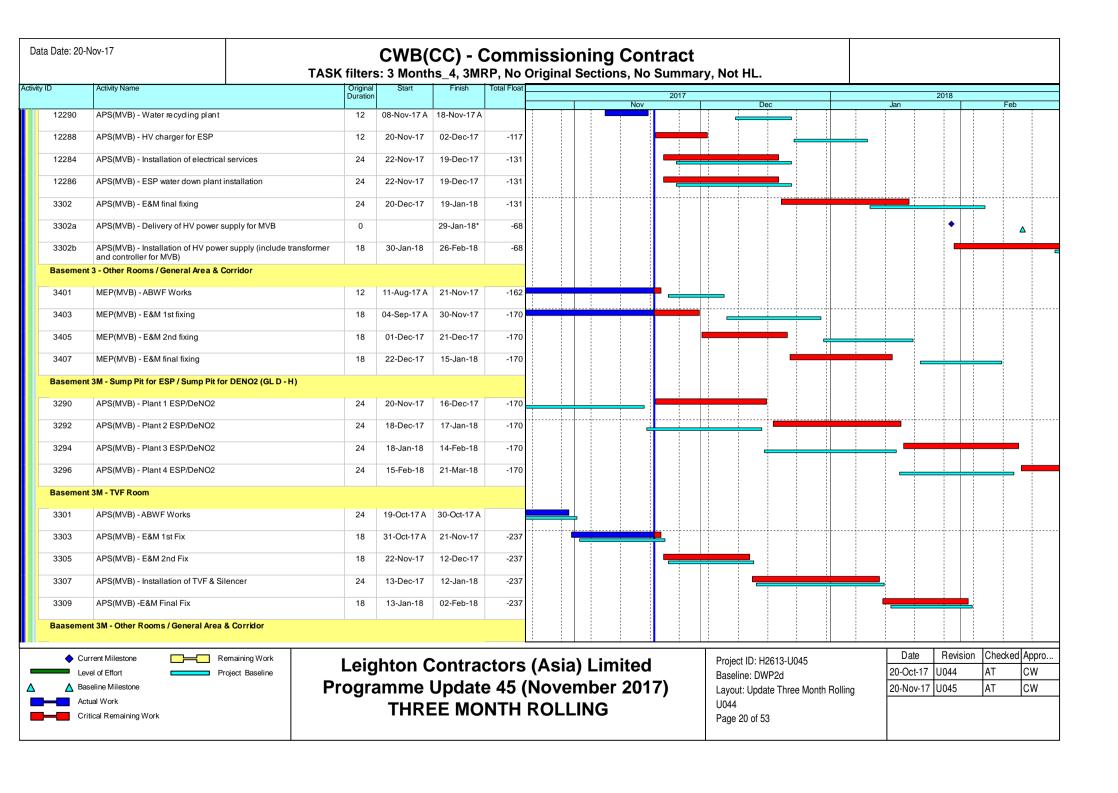
Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 5166a MEP(WB) - (CH3250 to CH3283) E&M 2nd Fix 05-Dec-17 11-Dec-17 -188 MEP(WB) - (CH3250 to CH3283) TCSS Field equip & cable 16-Dec-17 5170a 12-Dec-17 -188 MEP(WB) - (CH3250 to CH3283) E&M Final Fix 22-Dec-17 5168a 18-Dec-17 -182 9958a MEP(WB) - (CH3250 to CH3283) VE Panel installation (Upper part) 26-Jan-18 01-Feb-18 -197 9958a1 MEP(WB) - (CH3250 to CH3283) VE Panel installation (Lower part) 01-Feb-18 -230 26-Jan-18 (528m2) Eastbound 5194a VIa(EB) - Thermal Barrier installation (include protection removal) 10-Dec-16 A 04-Nov-17 A MEP(EB) - (CH3250 to CH3283) Niche installation 5186a2 24-Nov-17 25-Nov-17 -188 MEP(EB) - (CH3250 to CH3283) E&M 1st Fix 5182a 23-Dec-17 02-Jan-18 -182 5184a MEP(EB) - (CH3250 to CH3283) E&M 2nd Fix 03-Jan-18 09-Jan-18 -182 9960a1 MEP(EB) - (CH3250 to CH3283) VE Panel installation (Lower part) 06-Jan-18 12-Jan-18 -188 (528m2) 9960a MEP(EB) - (CH3250 to CH3283) VE Panel installation (Upper part) 17-Jan-18 23-Jan-18 -189 (528m2) 5186a MEP(EB) - (CH3250 to CH3283) E&M Final Fix 18-Jan-18 23-Jan-18 -189 5188a MEP(EB) - (CH3250 to CH3283) TCSS Field equip & cable 23-Jan-18 -189 18-Jan-18 Portion VIa [CH3283 to CH3400] Westbound VIa(WB) - Anchorage installation for subsequent E&M 1st Fix and 12234b 11-Oct-17 A 06-Nov-17 A VE panel frame support (include protection) (1872m2) 5180b VIa(WB) - Thermal Barrier installation (include protection removal) 07-Nov-17 A 28-Nov-17 -232 5164b MEP(WB) - (CH3283 to CH3400) E&M 1st Fix 29-Nov-17 07-Dec-17 -232 MEP(WB) - (CH3283 to CH3400) Niche installation 08-Dec-17 5168b2 04-Dec-17 -20 MEP(WB) - (CH3283 to CH3400) E&M 2nd Fix 08-Dec-17 29-Dec-17 -232 5166b 9958b1 MEP(WB) - (CH3283 to CH3400) VE Panel installation (Lower part) 21 15-Dec-17 11-Jan-18 -191 5170b MEP(WB) - (CH3283 to CH3400) TCSS Field equip & cable 30-Dec-17 13-Jan-18 -232 MEP(WB) - (CH3283 to CH3400) E&M Final Fix -58 15-Jan-18 27-Jan-18 Checked Appro.. Date Revision Current Milestone Remaining Work Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 U044 Level of Effort Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** lcw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 11044 THREE MONTH ROLLING Critical Remaining Work Page 15 of 53

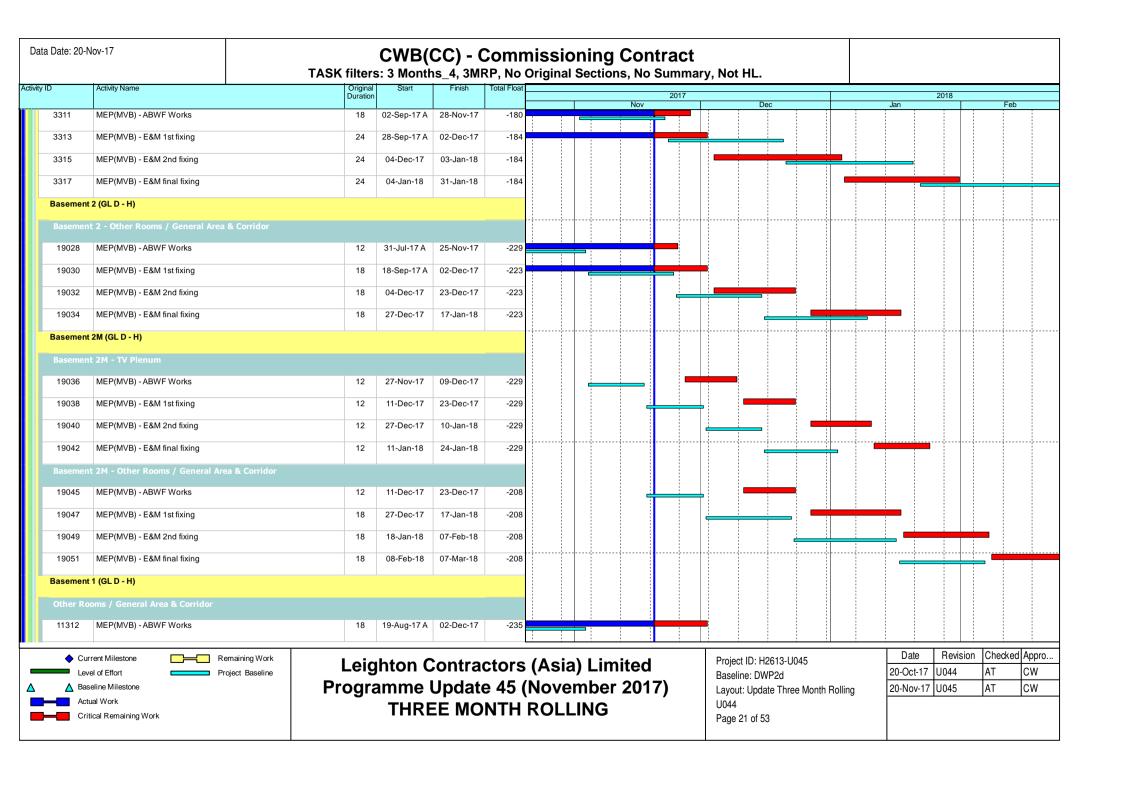


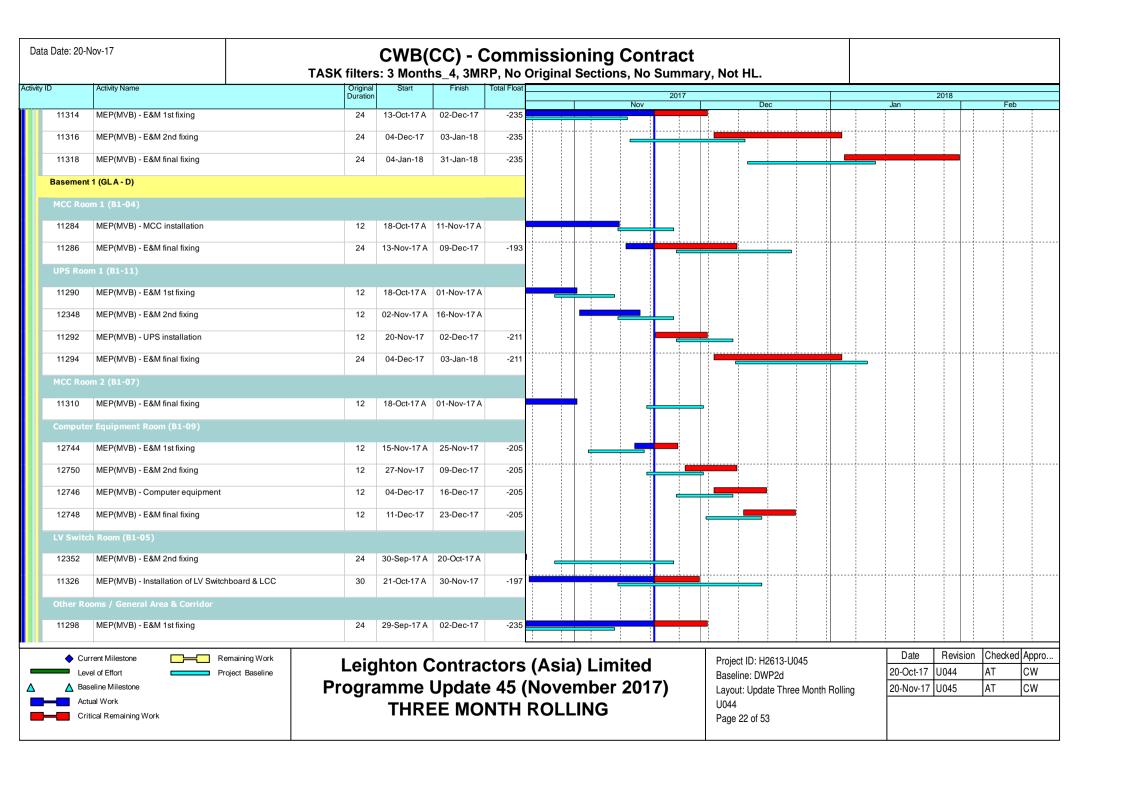
Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Nov Feh 5214b1 MEP(EB) - (CH3400 to CH3428) E&M 1st Fix 04-Dec-17 09-Dec-17 -37 MEP(EB) - (CH3400 to CH3428) E&M 2nd Fix 16-Dec-17 5216b1 11-Dec-17 -37 MEP(EB) - (CH3400 to CH3428) VE Panel installation (Upper part) 9964b1 18-Jan-18 22-Jan-18 -188 (4800m2) 9964b1a MEP(EB) - (CH3400 to CH3428) VE Panel installation (Lower part) 18-Jan-18 22-Jan-18 -188 (4800m2) MEP(EB) - (CH3400 to CH3428) E&M Final Fix 03-Mar-18 -82 5218b1 12-Feb-18 Portion VIb [CH3428 to CH3625] Westbound MEP(WB) - (CH3428 to CH3625) E&M 1st Fix 09-Dec-17 -246 5196b2 07-Dec-16 A 5198b2 MEP(WB) - (CH3428 to CH3625) E&M 2nd Fix 09-Dec-17 15-Mar-17 A -246 5202b2 MEP(WB) - (CH3428 to CH3625) TCSS Field equip & cable 18-Mar-17 A 09-Dec-17 -240 installation 5200b2 MEP(WB) - (CH3428 to CH3625) E&M Final Fix 23-Dec-17 -240 12 11-Dec-17 9962b2 MEP(WB) - (CH3428 to CH3625) VE Panel installation (Upper part) 27 27-Dec-17 27-Jan-18 -240 Eastbound 12240b2 VIb(EB) - Anchorage installation for subsequent E&M 1st Fix and 09-Dec-17 -246 27 29-Jul-16 A VE Panel frame support (include protection) (2364m2) Vlb(WB) - Masking wall construction (VO) (197m) 5226b2a 14-Oct-17 A 25-Nov-17 -246 5214b2 MEP(EB) - (CH3428 to CH3625) E&M 1st Fix 12 11-Dec-17 23-Dec-17 -217 MEP(EB) - (CH3428 to CH3625) E&M 2nd Fix 5216b2 12 10-Jan-18 -217 27-Dec-17 5218b2 MEP(EB) - (CH3428 to CH3625) E&M Final Fix 05-Feb-18 24-Feb-18 -238 5220b2 MEP(EB) - (CH3428 to CH3625) TCSS Field equip & cable 12 05-Feb-18 24-Feb-18 -238 Portion VIb [CH3625 to CH3770] Westbound MEP(WB) - (CH3625 to CH3770) E&M 1st Fix -231 5196b3 02-Mar-17 A 22-Nov-17 9962b3 MEP(WB) - (CH3625 to CH3770) VE Panel installation (Upper part) 20-Nov-17 12-Dec-17 -235 (1740m2) MEP(WB) - (CH3625 to CH3770) E&M 2nd Fix -246 5198b3 11-Dec-17 23-Dec-17 Date Revision Checked Appro. Current Milestone Remaining Work Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 Level of Effort Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** lcw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 11044 THREE MONTH ROLLING Critical Remaining Work Page 17 of 53

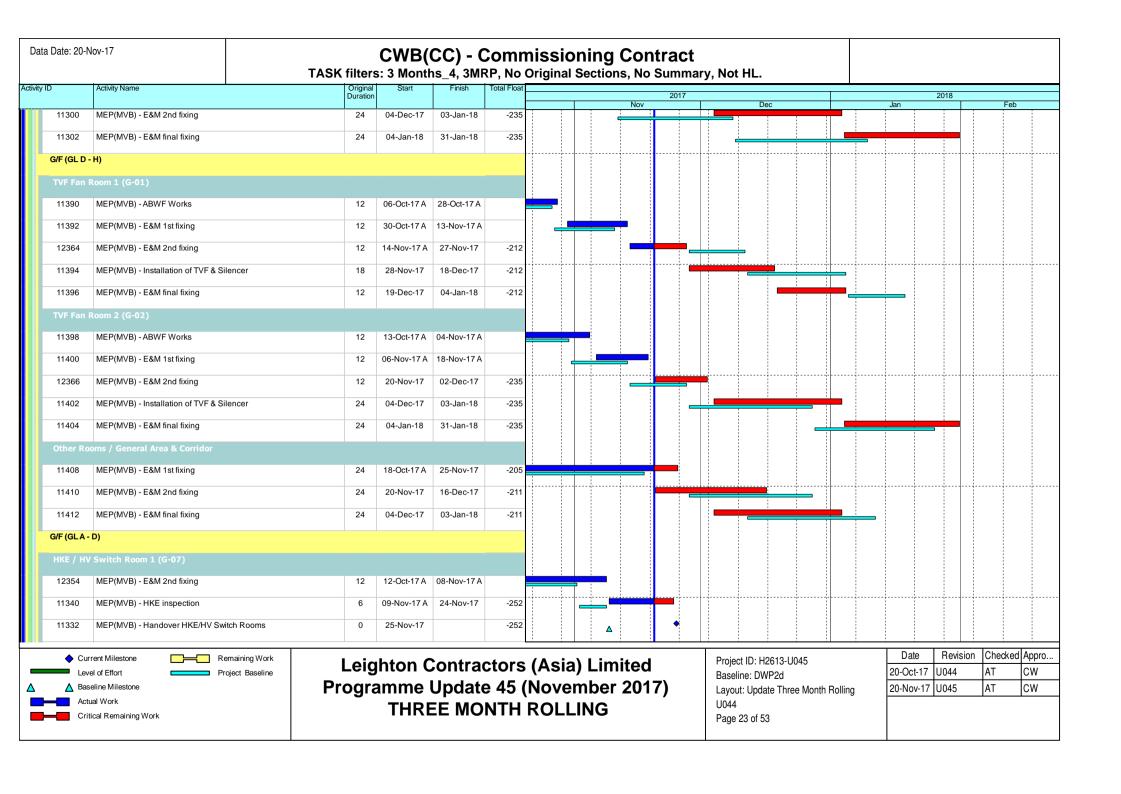


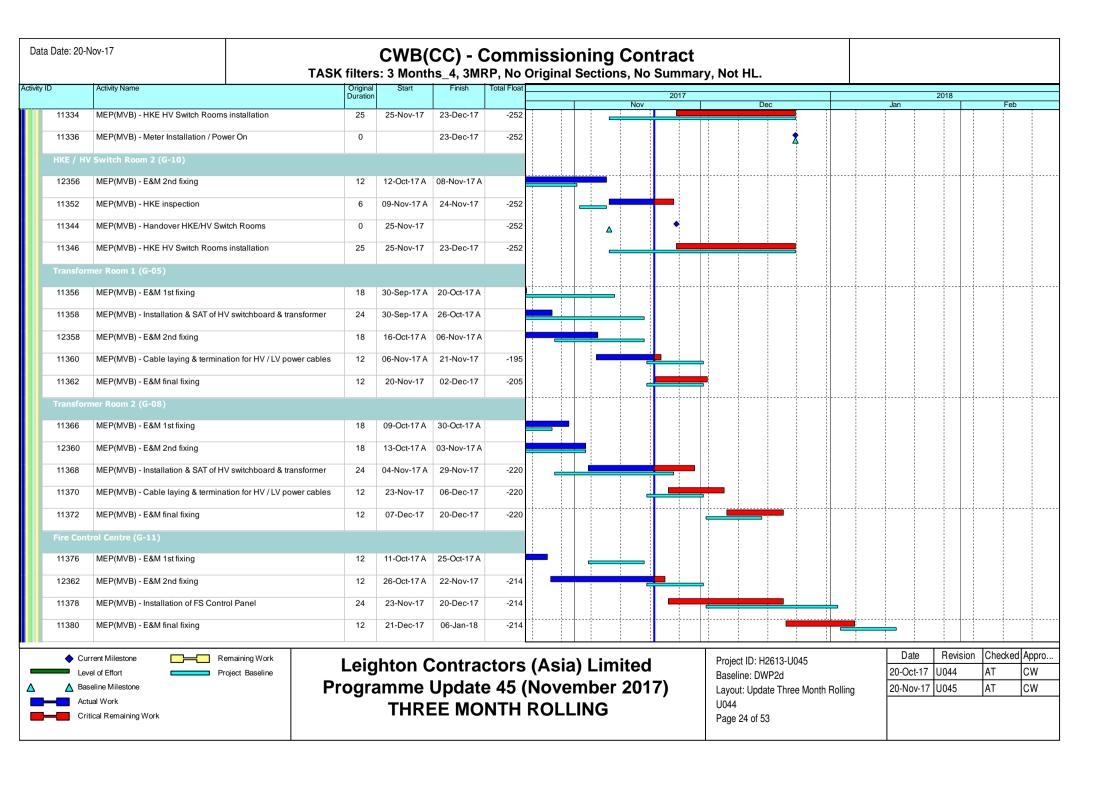


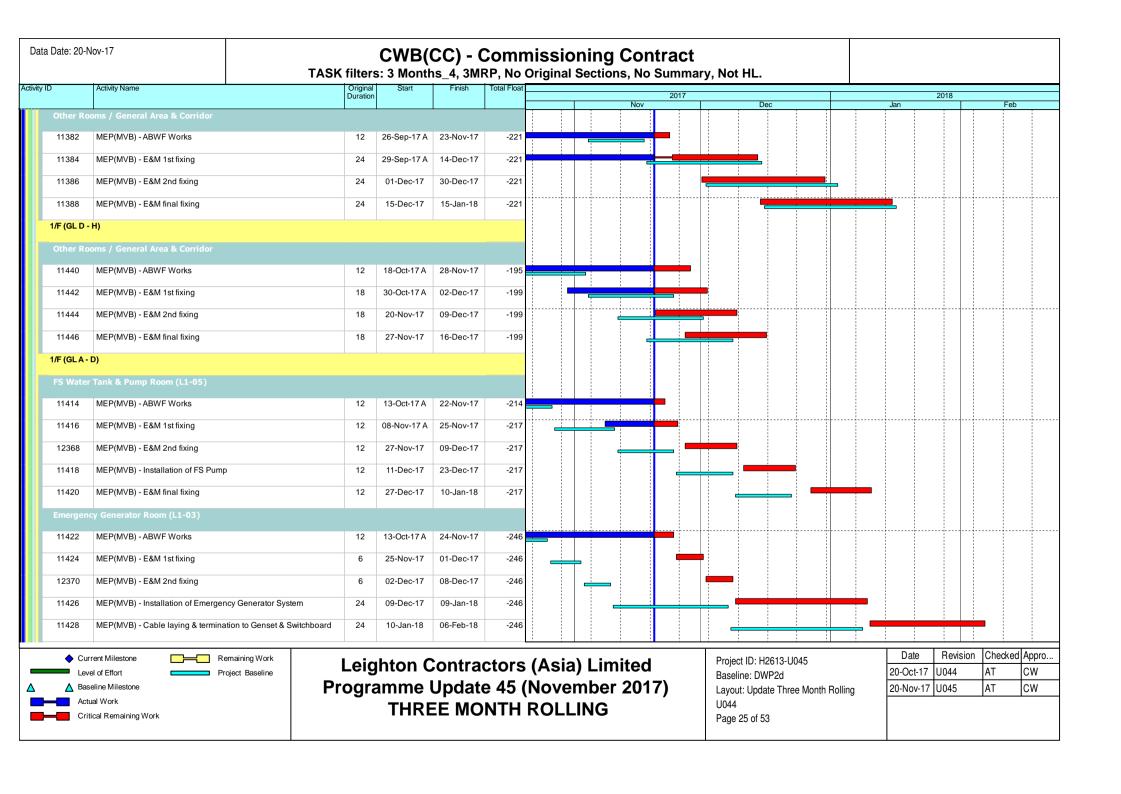


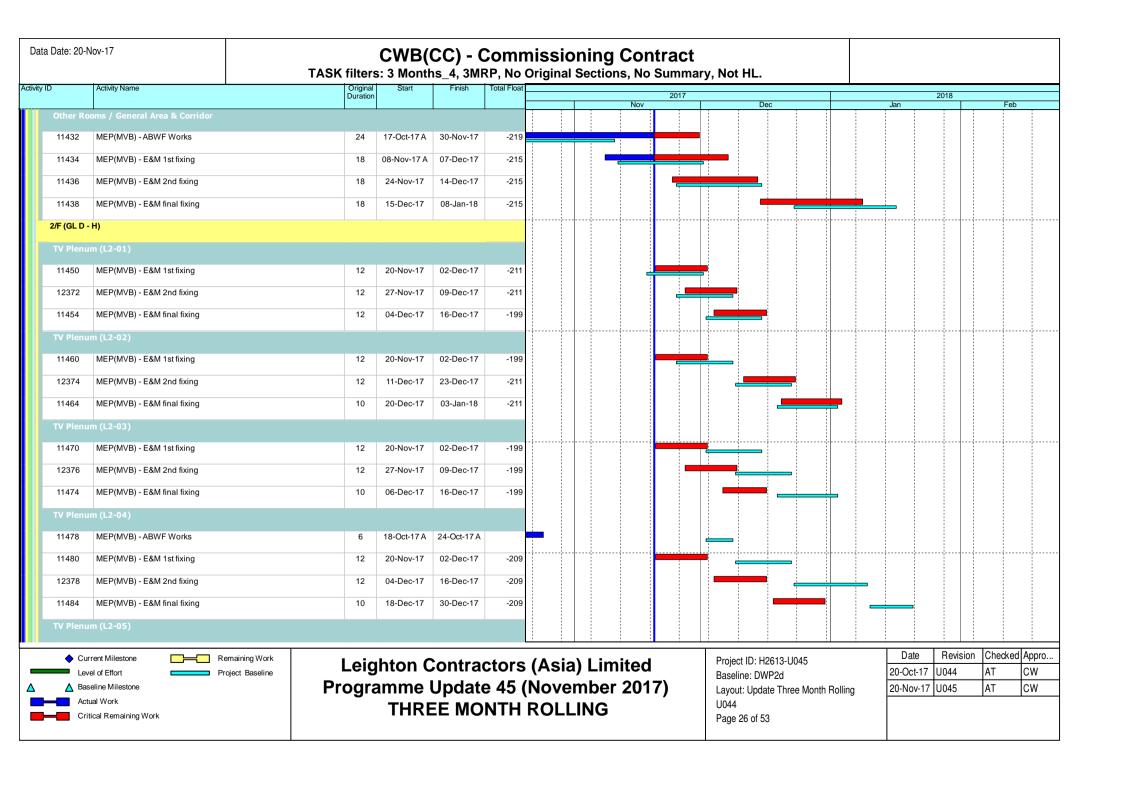


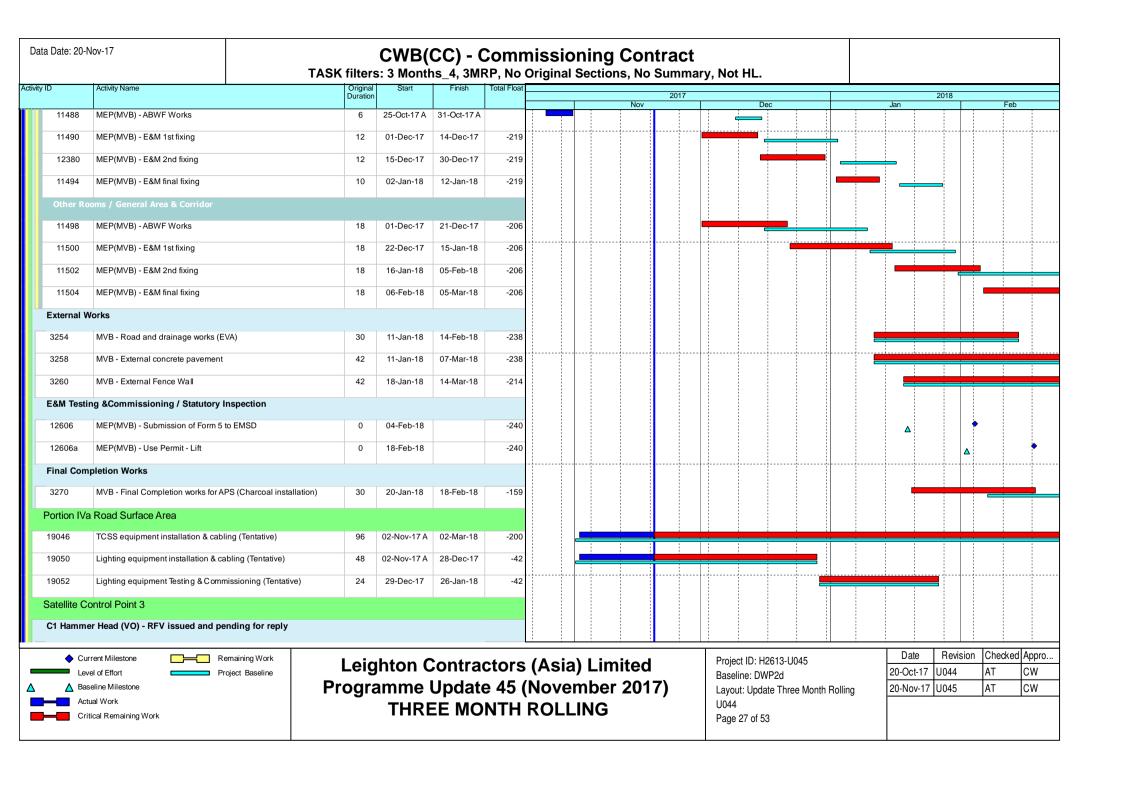


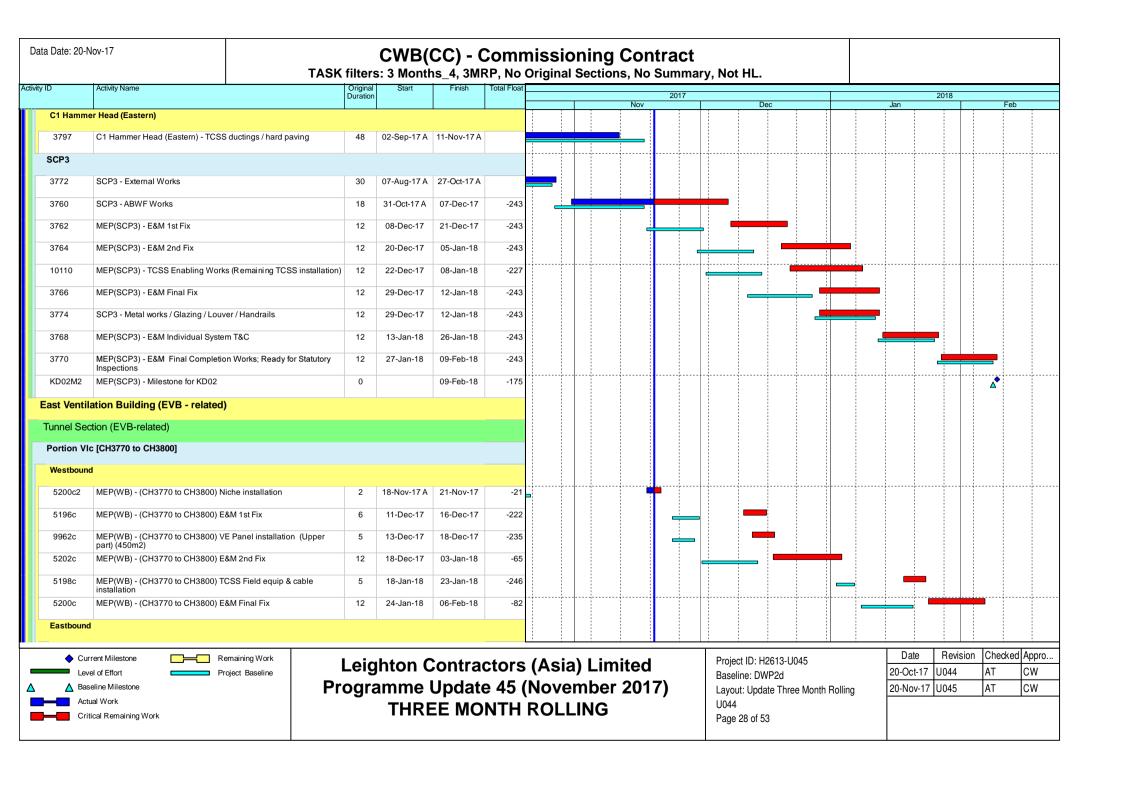


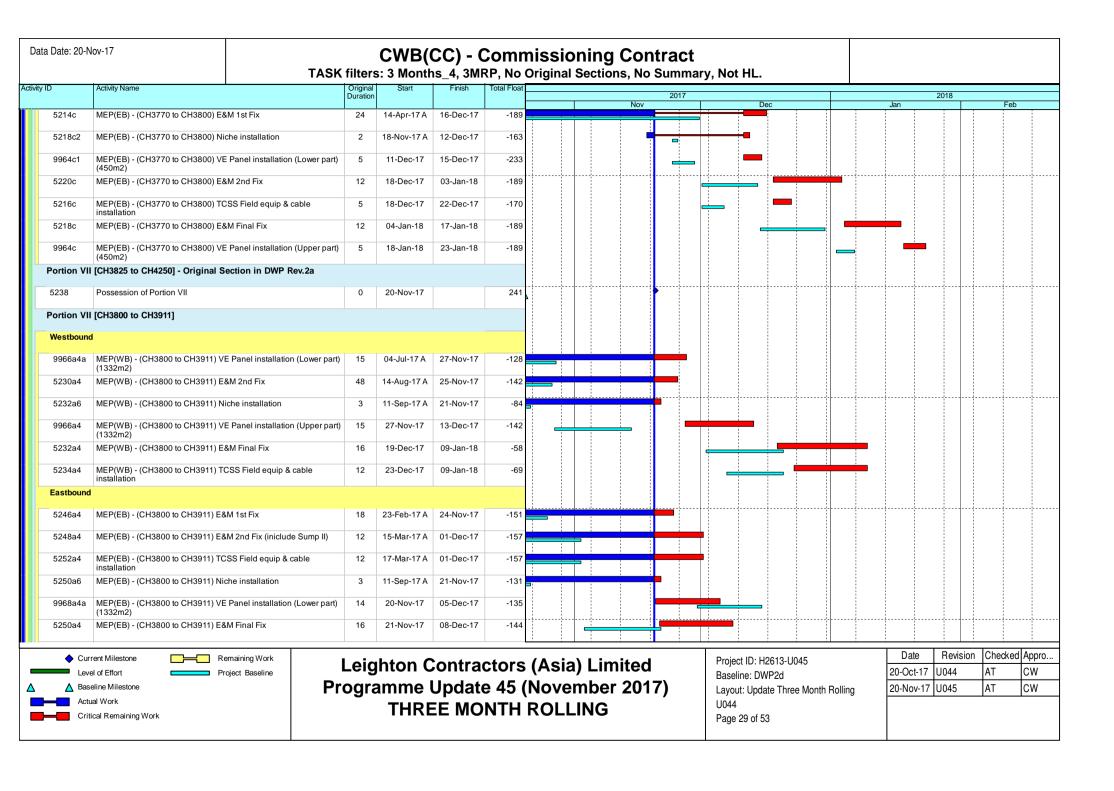


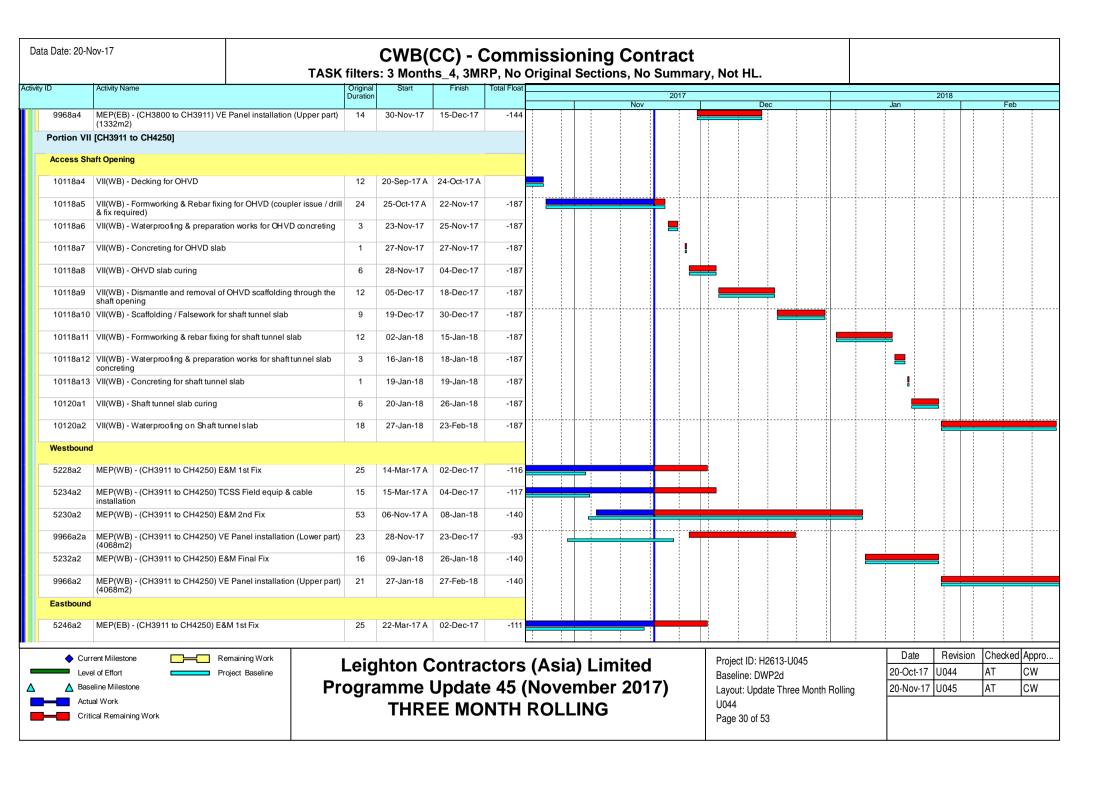




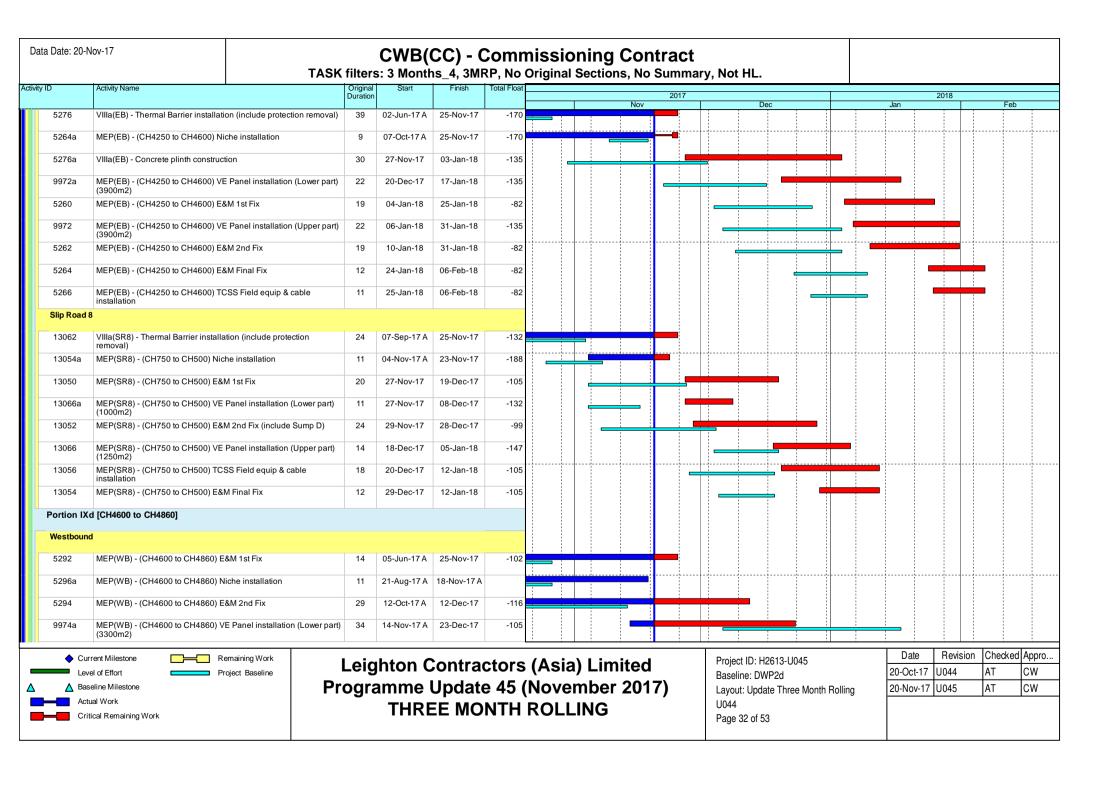




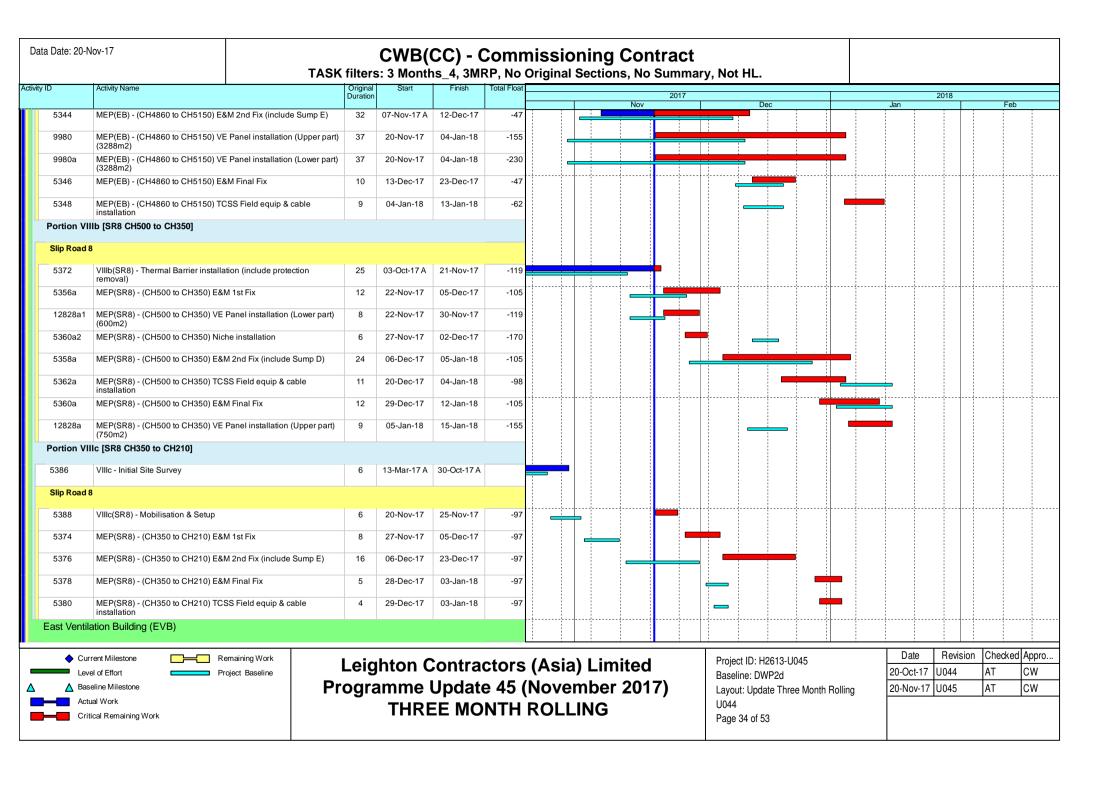


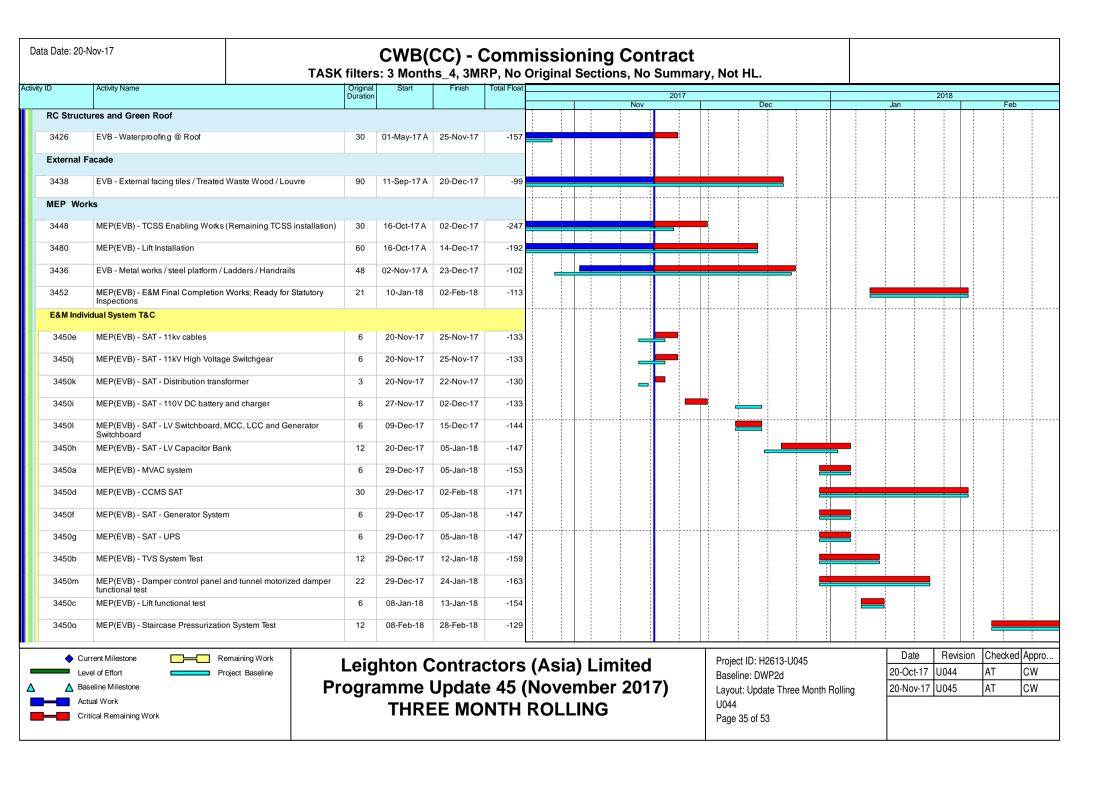


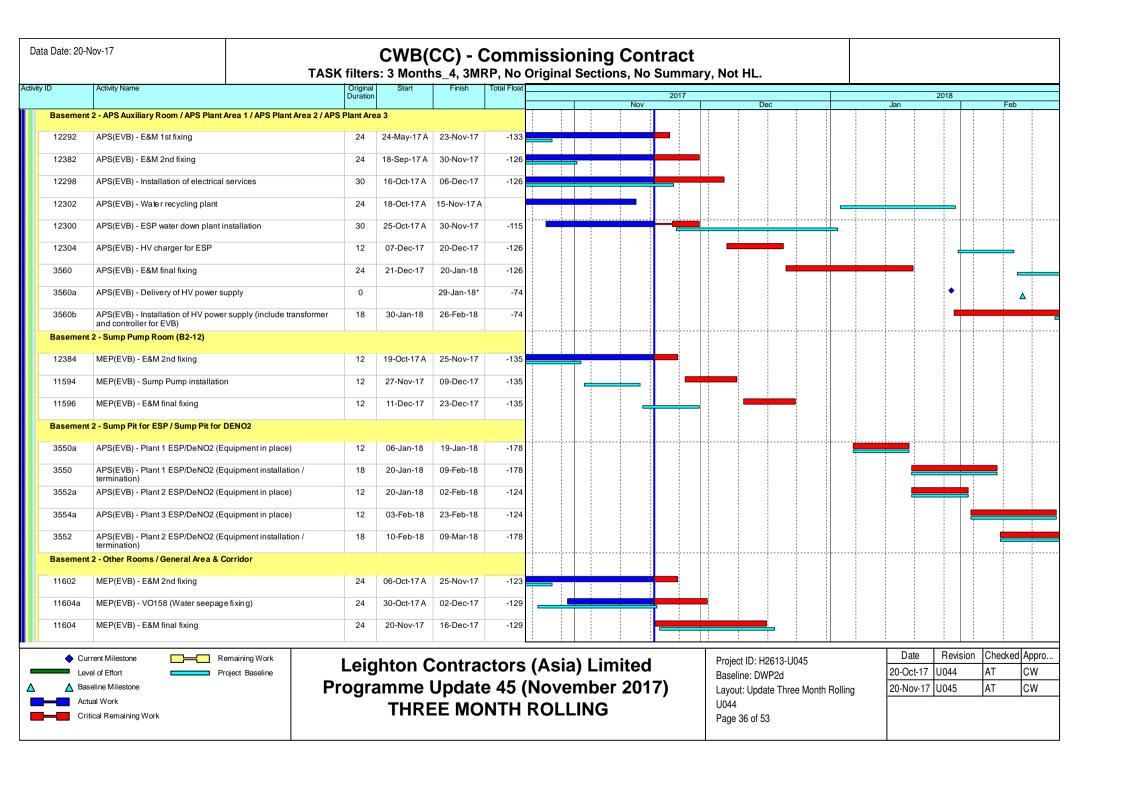
Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Feh 9968a2a MEP(EB) - (CH3911 to CH4250) VE Panel installation (Lower part) 17-May-17 A 09-Dec-17 -127 5248a2 MEP(EB) - (CH3911 to CH4250) E&M 2nd Fix (iniclude Sump II) 09-Dec-17 27-Nov-17 -111 MEP(EB) - (CH3911 to CH4250) E&M Final Fix 16-Dec-17 5250a2 16 29-Nov-17 -111 MEP(EB) - (CH3911 to CH4250) TCSS Field equip & cable 5252a2 30-Nov-17 16-Dec-17 -111 15 9968a2 MEP(EB) - (CH3911 to CH4250) VE Panel installation (Upper part) 12 04-Dec-17 16-Dec-17 -111 (4086m2) Slip Road 8 13082a VII(SR8) - Anchorage installation for subsequent E&M 1st Fix and 09-Jan-17 A 28-Dec-17 -159 VE Panel frame support (include protection) (1500m2) MEP(SR8) - (CH1000 to CH750) VE Panel installation (Lower part) 13084a1 27-Jun-17 A 05-Jan-18 -153 (550m2) VII (SR8) - Masking wall construction (VO) (202m) 13080a1 20-Nov-17 19-Dec-17 -159 13068a MEP(SR8) - (CH1000 to CH750) E&M 1st Fix 13-Dec-17 28-Dec-17 -159 13070a MEP(SR8) - (CH1000 to CH750) E&M 2nd Fix (include Sump D) 20-Dec-17 05-Jan-18 -159 12 13072a MEP(SR8) - (CH1000 to CH750) E&M Final Fix 29-Dec-17 12-Jan-18 -159 13074a MEP(SR8) - (CH1000 to CH750) TCSS Field equip & cable 12 29-Dec-17 12-Jan-18 -159 13084a MEP(SR8) - (CH1000 to CH750) VE Panel installation (Upper part) -159 13-Jan-18 19-Jan-18 (550m2) Portion VIIIa [CH4250 to CH4600] Westbound 9970a MEP(WB) - (CH4250 to CH4600) VE Panel installation (Lower part) 20-Sep-17 A 25-Nov-17 -81 5282a MEP(WB) - (CH4250 to CH4600) Niche installation 02-Oct-17 A 18-Nov-17 A 5278 MEP(WB) - (CH4250 to CH4600) E&M 1st Fix 14-Oct-17 A 21-Nov-17 -77 MEP(WB) - (CH4250 to CH4600) E&M 2nd Fix 09-Dec-17 5280 20-Nov-17 -87 MEP(WB) - (CH4250 to CH4600) VE Panel installation (Upper part) 24-Nov-17 16-Dec-17 20 -87 MEP(WB) - (CH4250 to CH4600) E&M Final Fix -87 5282 12 04-Dec-17 16-Dec-17 5284 MEP(WB) - (CH4250 to CH4600) TCSS Field equip & cable 05-Dec-17 16-Dec-17 -41 Eastbound Checked Appro.. Date Revision Current Milestone Remaining Work Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 Level of Effort Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** lcw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 U044 THREE MONTH ROLLING Critical Remaining Work Page 31 of 53

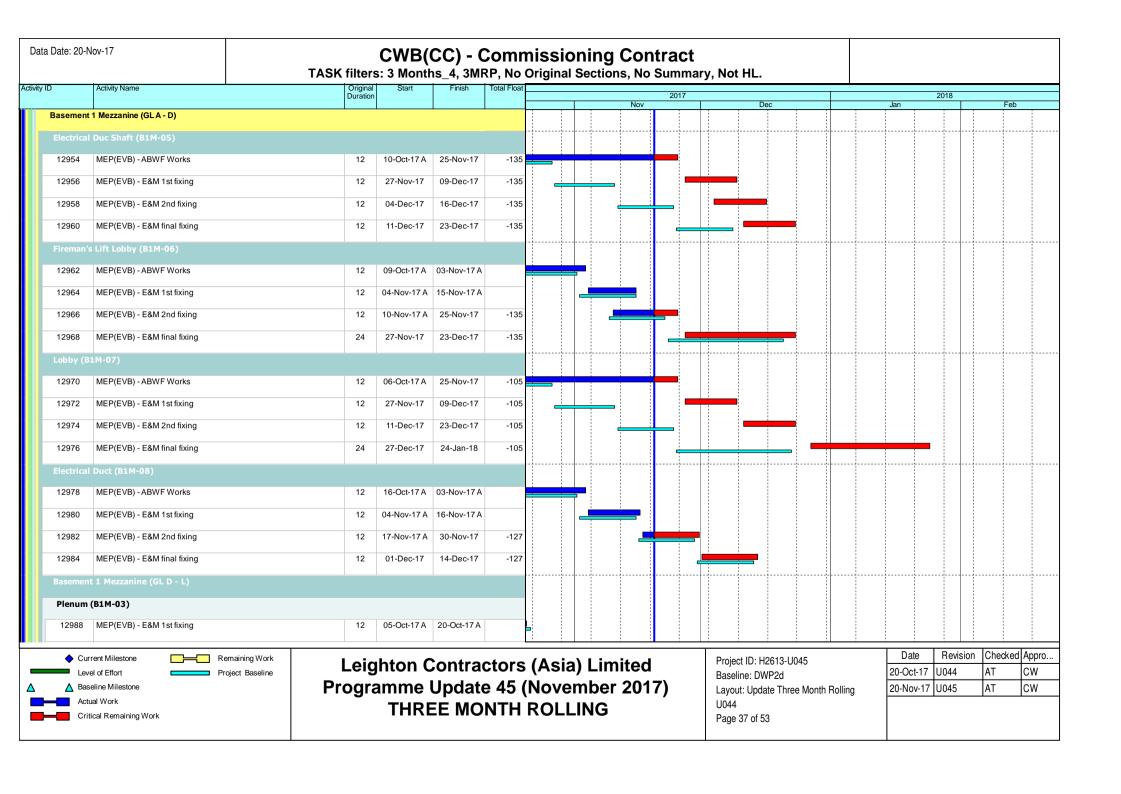


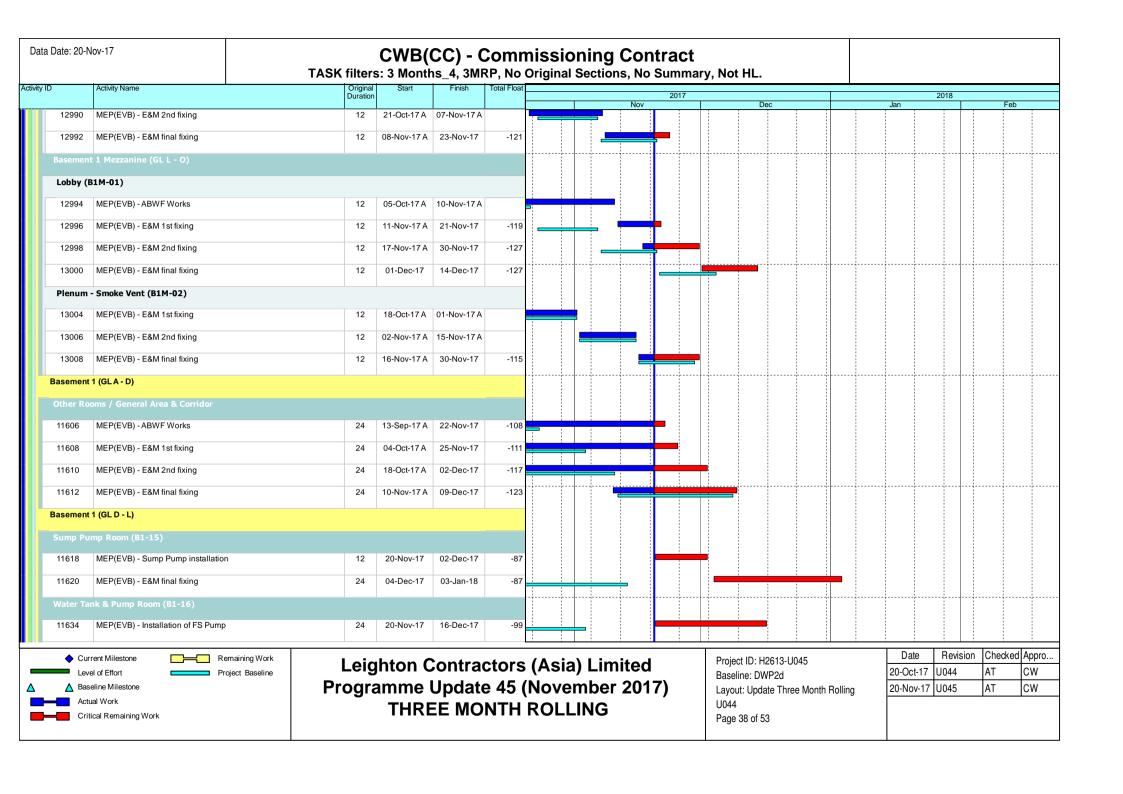
Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Feh MEP(WB) - (CH4600 to CH4860) VE Panel installation (Upper part) 29-Nov-17 10-Jan-18 -117 MEP(WB) - (CH4600 to CH4860) E&M Final Fix 23-Dec-17 -117 5296 14-Dec-17 MEP(WB) - (CH4600 to CH4860) TCSS Field equip & cable 23-Dec-17 5298 15-Dec-17 -117 Eastbound 12252 IXd(EB) - Anchorage installation for subsequent E&M 1st Fix and 27-Nov-17 -109 24-Aug-15 A VE Panel frame support (include protection) (3300m2) MEP(EB) - (CH4600 to CH4860) Niche installation 21-Aug-17 A 18-Nov-17 A 191291 5310 MEP(EB) - (CH4600 to CH4860) E&M 1st Fix 11-Oct-17 A 27-Nov-17 -109 MEP(EB) - (CH4600 to CH4860) E&M 2nd Fix 09-Dec-17 5312 03-Nov-17 A -120 MEP(EB) - (CH4600 to CH4860) VE Panel installation (Lower part) 9976a 08-Nov-17 A 16-Dec-17 -111 (3300m2) MEP(EB) - (CH4600 to CH4860) VE Panel installation (Upper part) 9976 20-Nov-17 04-Jan-18 -124 (3300m2) 5314 MEP(EB) - (CH4600 to CH4860) E&M Final Fix 20-Dec-17 -120 11-Dec-17 MEP(EB) - (CH4600 to CH4860) TCSS Field equip & cable 5316 11-Dec-17 19-Dec-17 -119 Portion IXa [CH4860 to CH5150] Westbound MEP(WB) - (CH4860 to CH5150) E&M 1st Fix 5324 05-May-17 A 27-Oct-17 A 5326 MEP(WB) - (CH4860 to CH5150) E&M 2nd Fix (include Sump E) 22-May-17 A 02-Dec-17 -117 MEP(WB) - (CH4860 to CH5150) VE Panel installation (Lower part) -141 9978a 07-Jun-17 A 09-Dec-17 191287 MEP(WB) - (CH4860 to CH5150) Niche installation 14-Aug-17 A 18-Nov-17 A 9978 MEP(WB) - (CH4860 to CH5150) VE Panel installation (Upper part) 03-Nov-17 A 16-Dec-17 -147 (3288m2) MEP(WB) - (CH4860 to CH5150) E&M Final Fix 14-Dec-17 5328 04-Dec-17 -117 MEP(WB) - (CH4860 to CH5150) TCSS Field equip & cable 14-Dec-17 -117 5330 05-Dec-17 Eastbound 5342 MEP(EB) - (CH4860 to CH5150) E&M 1st Fix 13-Jun-17 A 06-Nov-17 A MEP(EB) - (CH4860 to CH5150) Niche installation 14-Aug-17 A 07-Nov-17 A 5346a Checked Appro.. Date Revision Current Milestone Remaining Work Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 U044 Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** cw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 11044 THREE MONTH ROLLING Critical Remaining Work Page 33 of 53

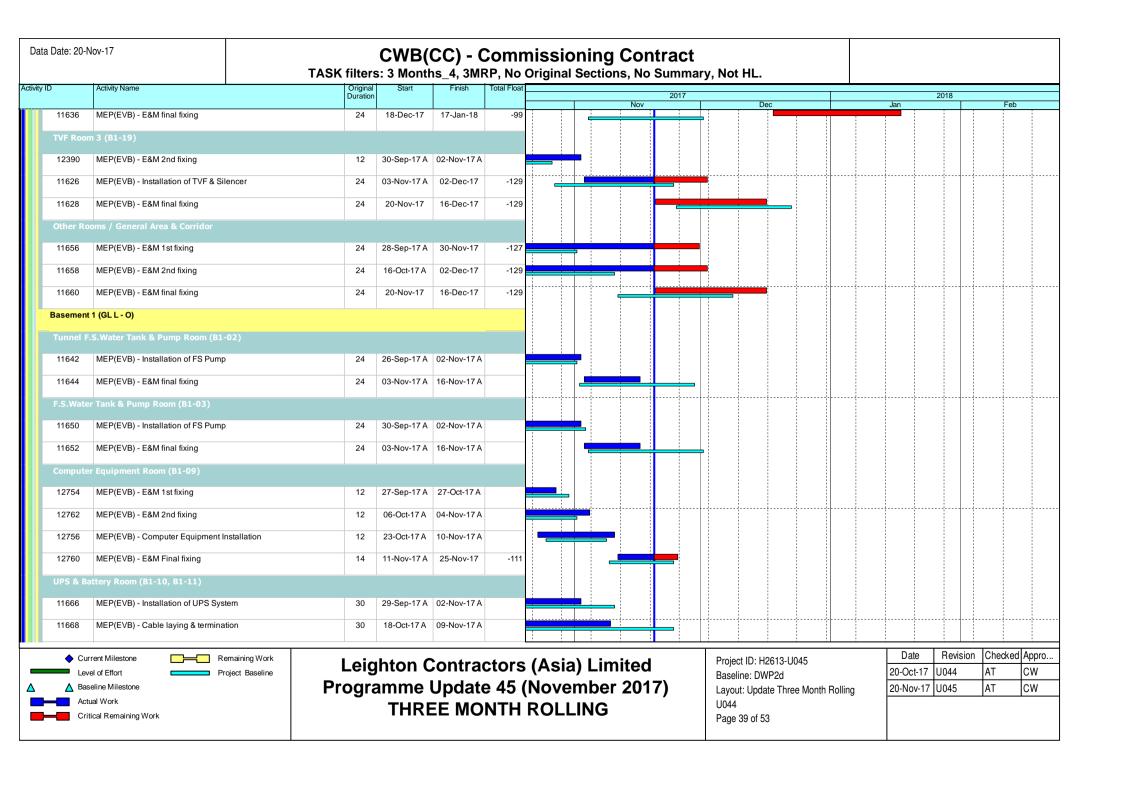


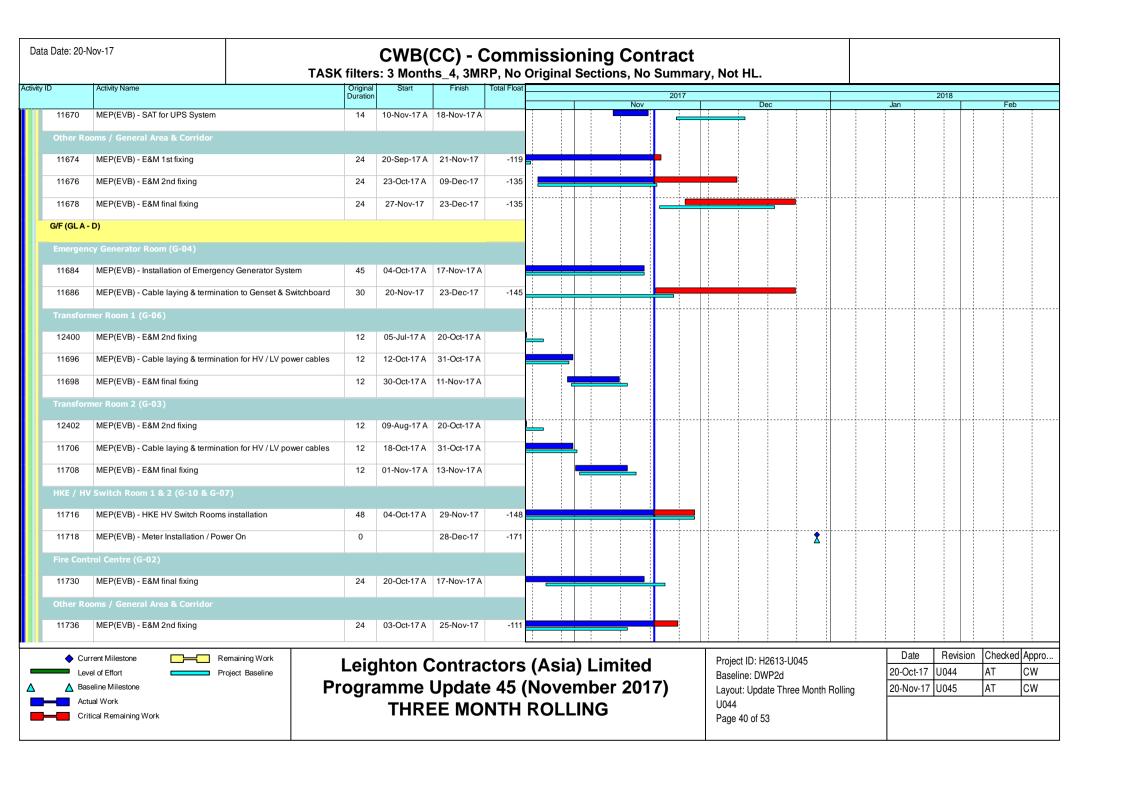


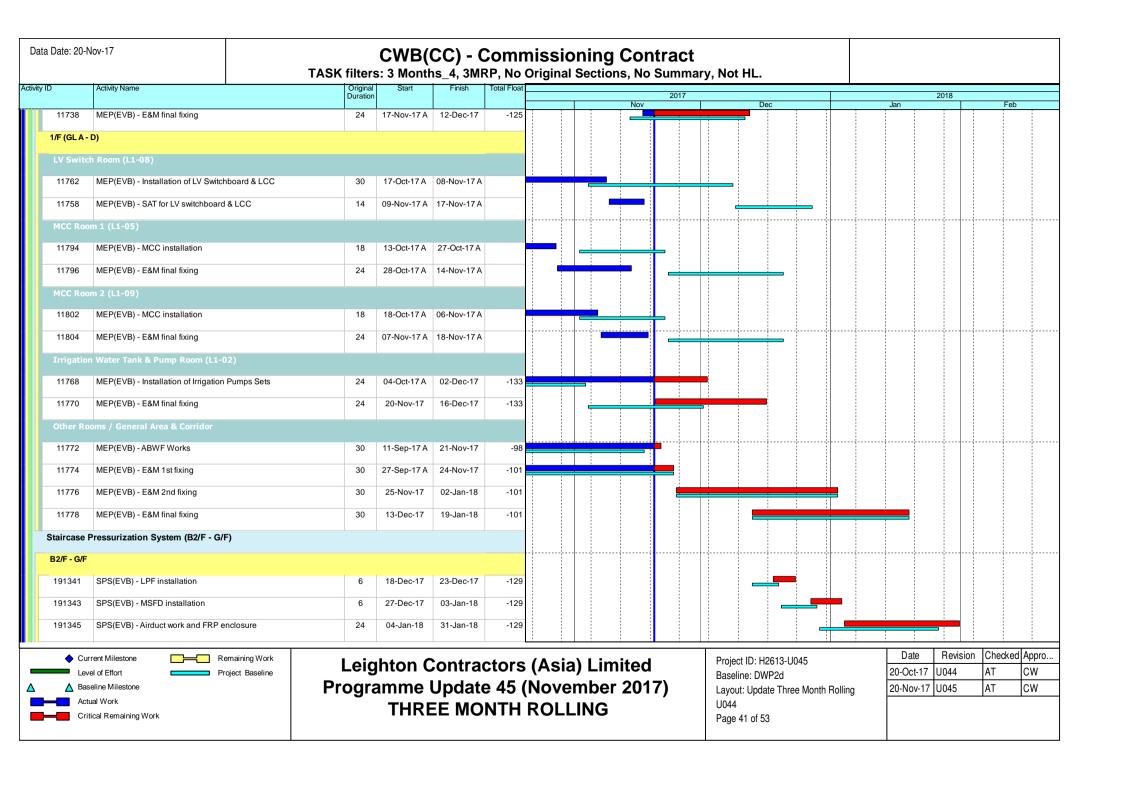


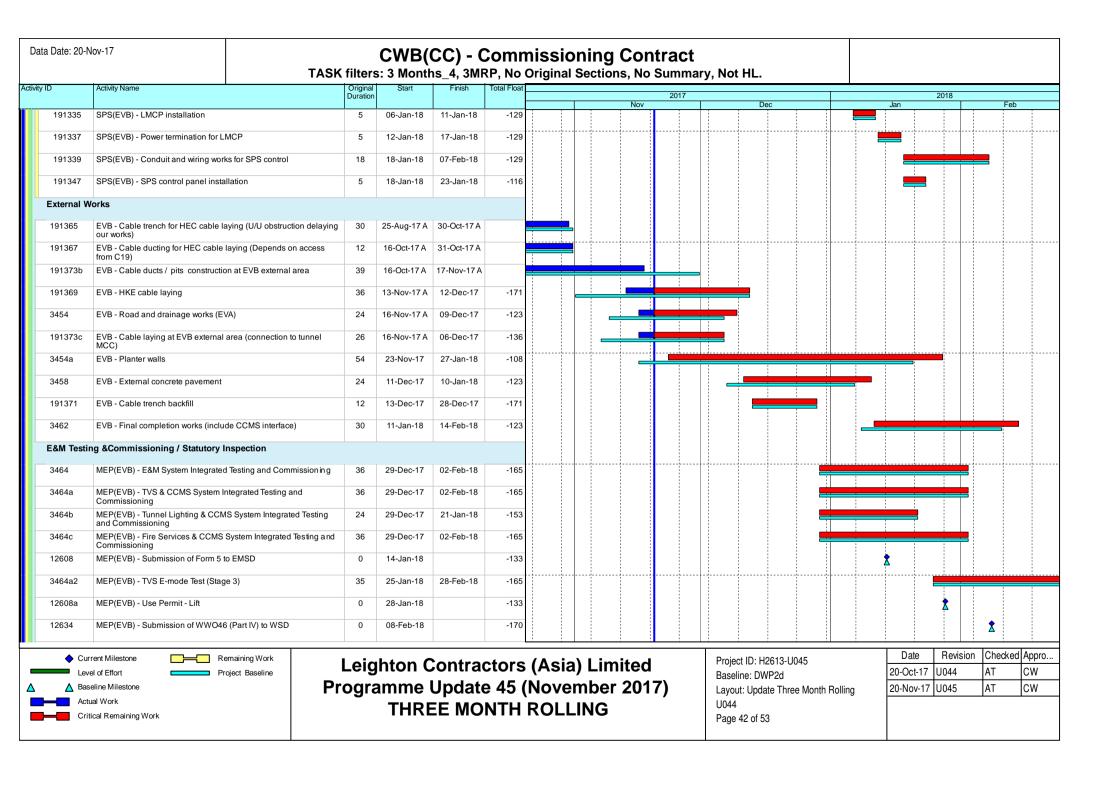


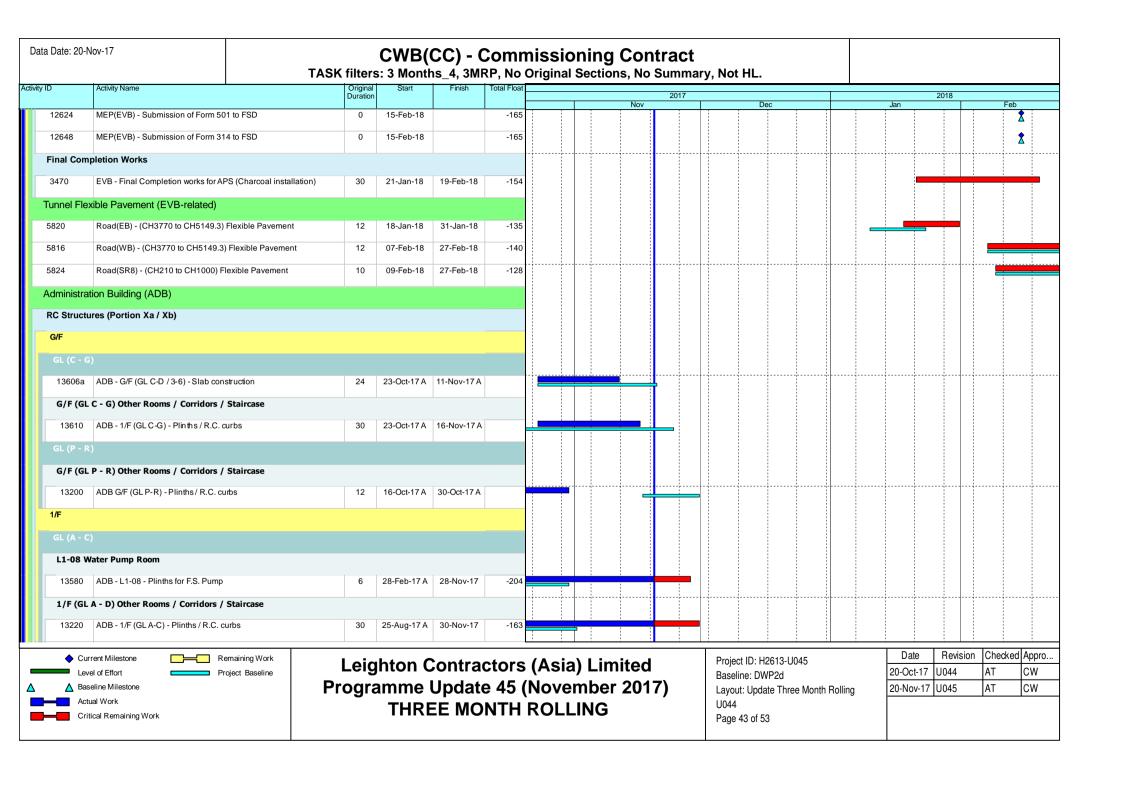


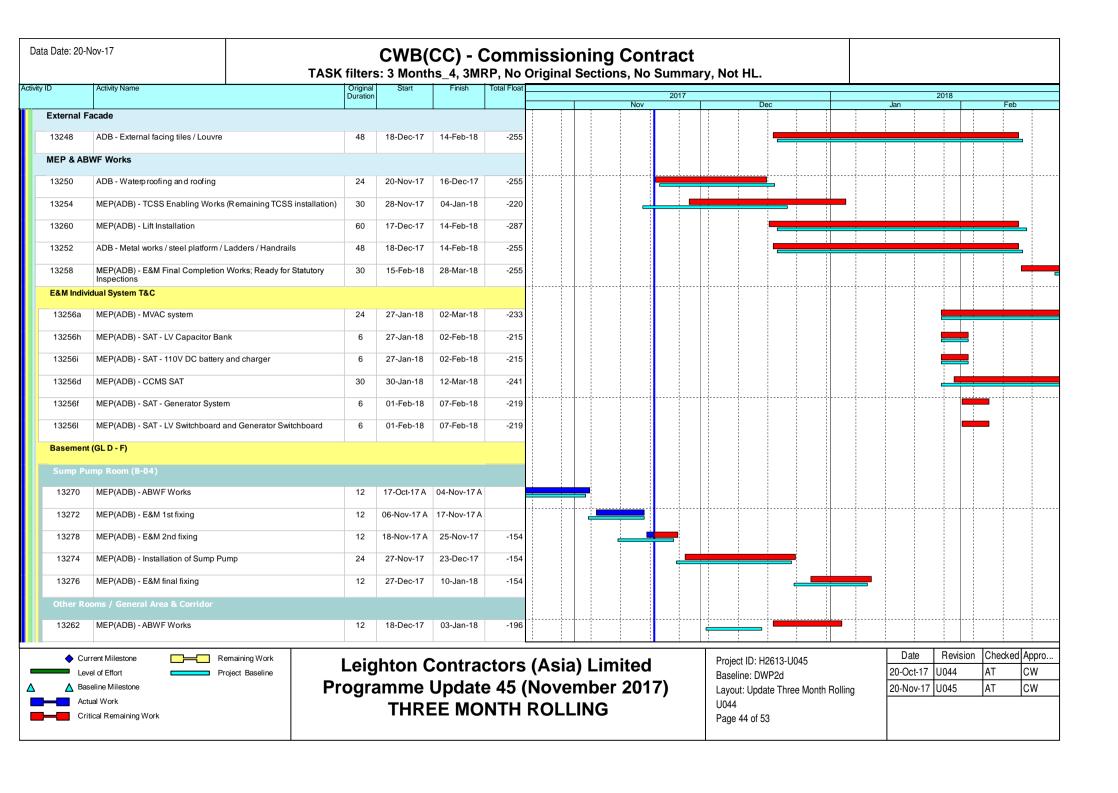


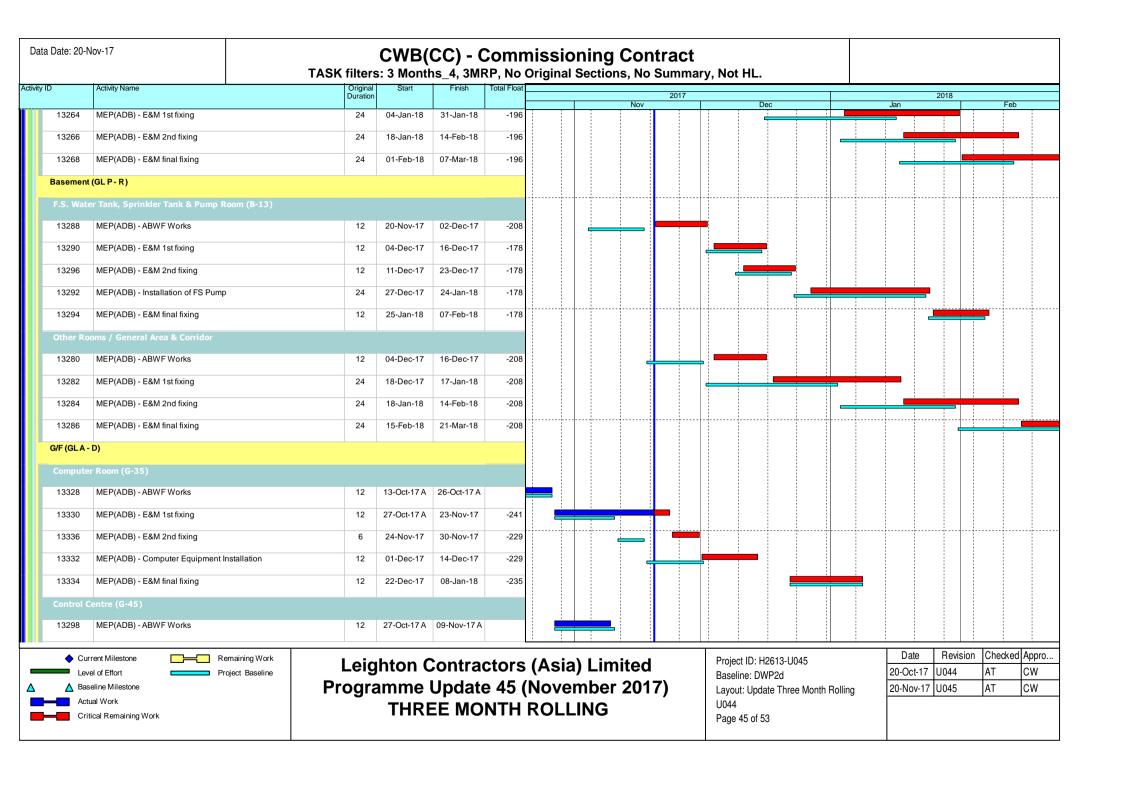


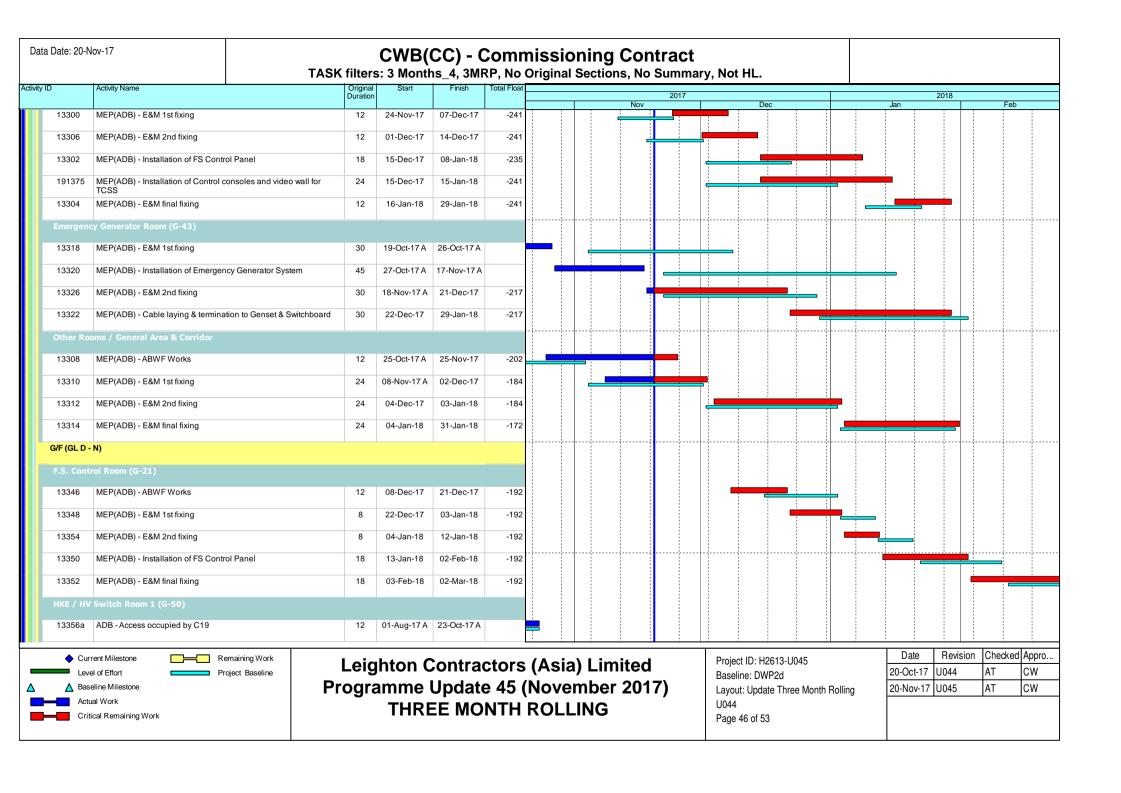


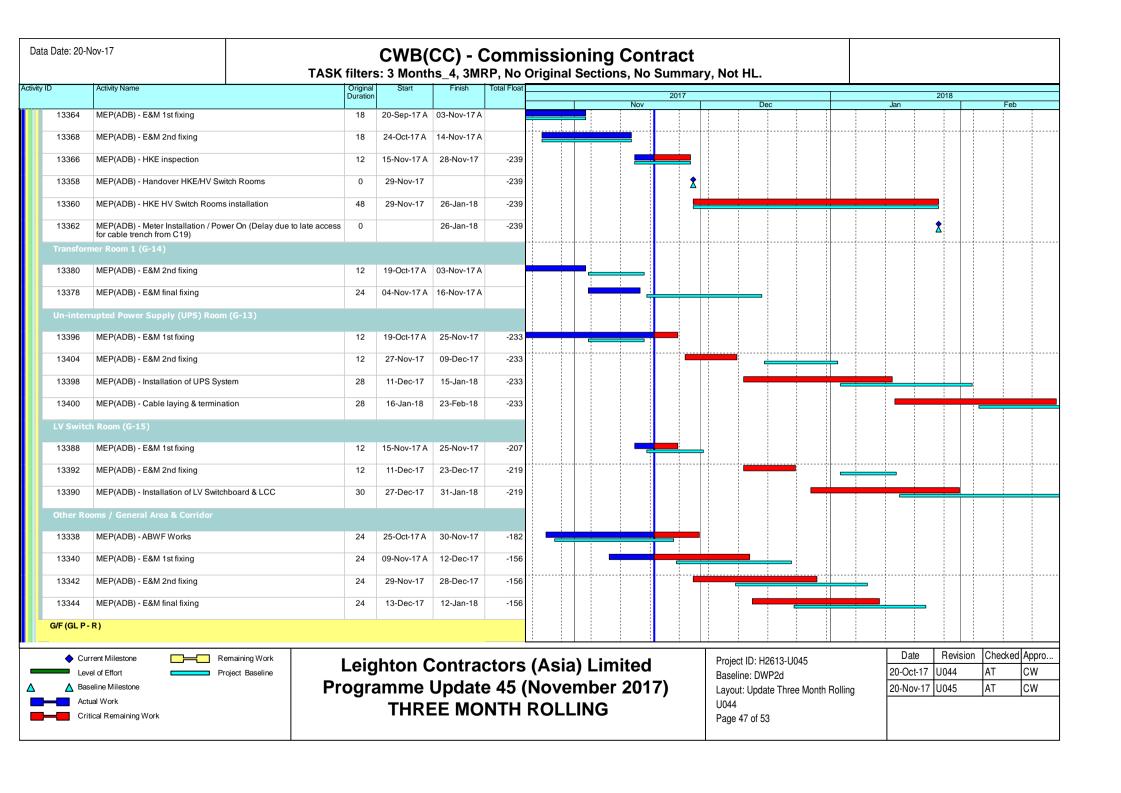


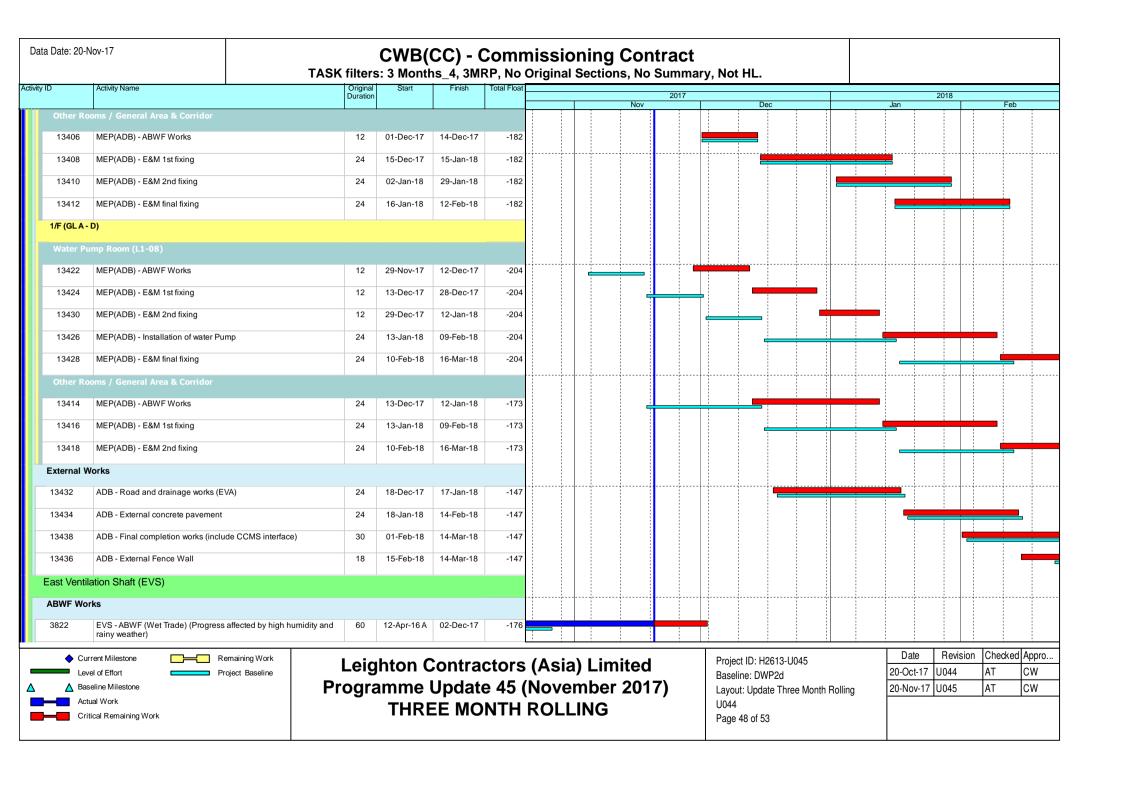


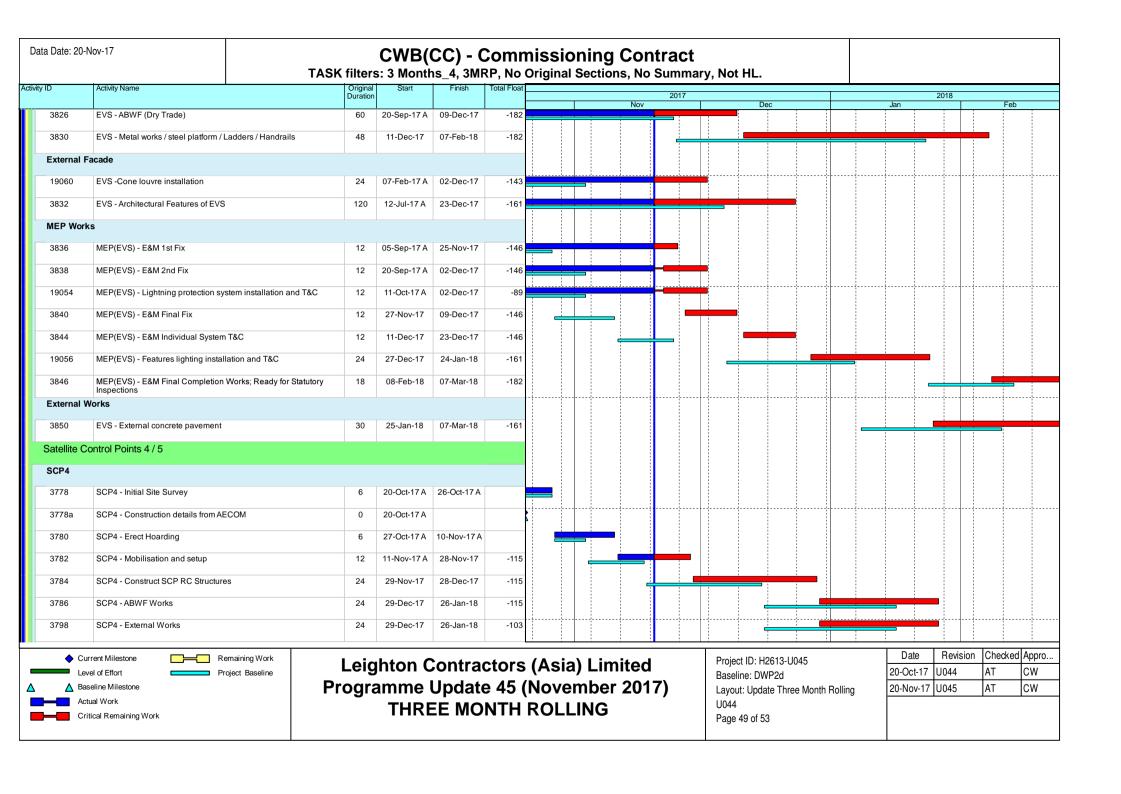




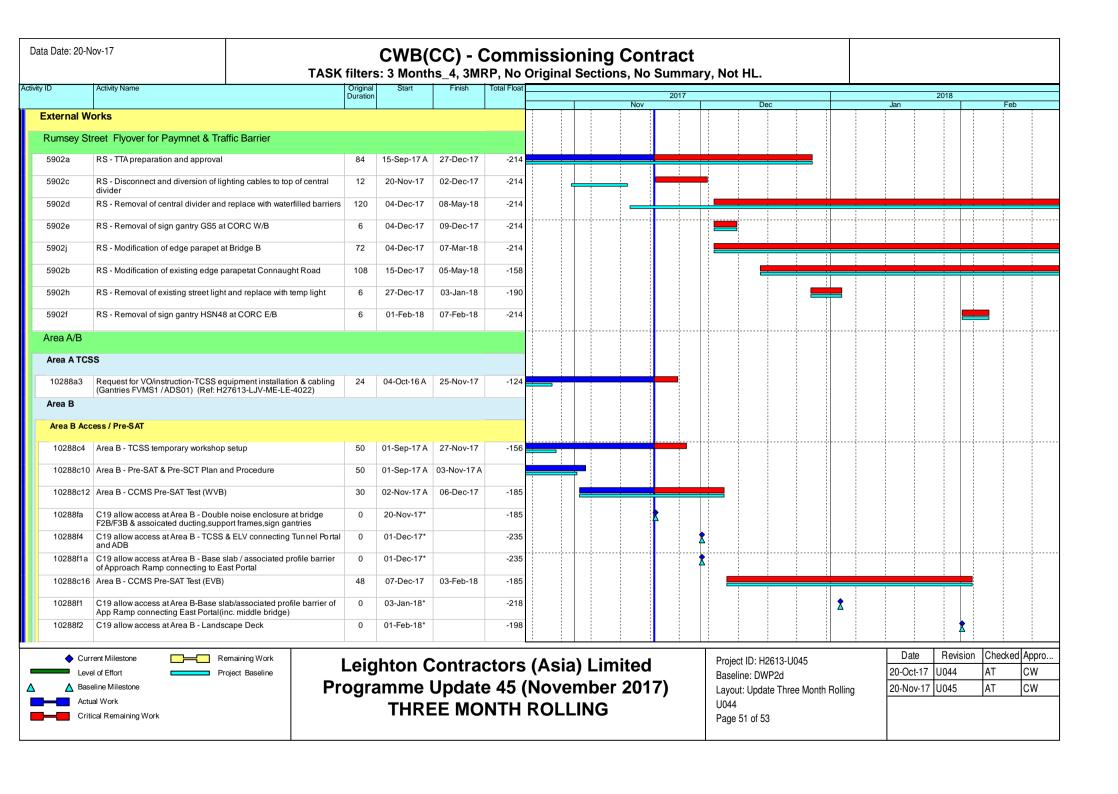








Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months 4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Feh 3788 MEP(SCP4) - E&M 1st Fix 22-Jan-18 -115 02-Jan-18 10112 MEP(SCP4) - TCSS Enabling Works (Remaining TCSS installation) 22-Jan-18 02-Jan-18 -107 MEP(SCP4) - E&M 2nd Fix 31-Jan-18 3790 11-Jan-18 -115 SCP4 - Metal works / Glazing / Louver / Handrails 02-Feb-18 3824 13-Jan-18 -109 3792 MEP(SCP4) - E&M Final Fix 09-Feb-18 -115 20-Jan-18 MEP(SCP4) - E&M Individual System T&C 3794 03-Feb-18 23-Feb-18 -109 12 3796 MEP(SCP4) - E&M Final Completion Works; Ready for Statutory 12 10-Feb-18 02-Mar-18 -115 SCP5 SCP5 - Mobilization for Area B 3828 31-Oct-17 A 3848 SCP5 - Initial Site Survey 31-Oct-17 A 04-Nov-17 A 3827 C19 allow access for SCP5 construction 31-Oct-17 A Construction details from AECOM 3827a 31-Oct-17 A 3852 SCP5 - Erect Hoarding 06-Nov-17 A 11-Nov-17 A 3868 SCP5 - Mobilisation and setup 13-Nov-17 A 24-Nov-17 -172 SCP5 - Construct walls upto R/F - Falseworks & Formwork 3870a 25-Nov-17 30-Nov-17 -172 3870b SCP5 - Construct walls upto R/F - Rebar fixing 01-Dec-17 04-Dec-17 -172 SCP5 - Construct walls upto R/F - Close formwork 09-Dec-17 3870c 05-Dec-17 -172 3870d SCP5 - Construct beams & slab upto R/F - Scaffolding, falsework & 11-Dec-17 18-Dec-17 -172 3870e SCP5 - Construct beams & slab upto R/F - Rebar fixing 19-Dec-17 21-Dec-17 -172 SCP5 - Construct beams & slab upto R/F - Concreting 3870f 22-Dec-17 22-Dec-17 -172 3872 SCP5 - ABWF Works 23-Dec-17 16-Jan-18 -166 3886 SCP5 - External Works -172 23-Dec-17 23-Jan-18 3874 MEP(SCP5) - E&M 1st Fix 24-Jan-18 06-Feb-18 -172 MEP(SCP5) - TCSS Enabling Works (Remaining TCSS installation) 07-Feb-18 27-Feb-18 -172 10114 Date Checked Appro.. Revision Remaining Work Current Milestone Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 U044 Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** cw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 11044 THREE MONTH ROLLING Critical Remaining Work Page 50 of 53



Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months\_4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Dec Feh 10288c14 Area B - CCMS Pre-SAT Test (MVB) 05-Feb-18 12-Apr-18 -185 C19 allow access at Area B - Remaining area at IEC bridge East to 08-Feb-18\* -203 Double Noise Enclosure Area B TCSS 10288b36 Area B cabling along existing IECL sign gantries/bridge F2B/F3B 20-Nov-17 09-Dec-17 -185 (C19 civil provision must be ready for cabling) 10288b14 Area B TCSS cable connection from CWB main tunnel to ADB 21-Dec-17 -235 01-Dec-17 control rooms (C19 civil provision must be ready for cabling) 10288b16 Area B TCSS cabling (Base slab / approach ramp connecting to 03-Jan-18 23-Jan-18 -202 East Portal with civil provision) 10288b32 Area B TCSS Pre-test (East Portal to ADB) 24-Jan-18 30-Jan-18 -182 10288b1 Area B TCSS equipment installation and cable termination (on 26-Feb-18 30-Jan-18 -207 IEC's Westbound) - GT3, GT2, Sm CCTV at Grade 10288b20 Area B TCSS cabling (Noise Enclosure with civil provision - No 08-Feb-18 07-Mar-18 -203 Area B Tunnel Lighting 10288c1 Area B Tunnel Lighting (Landscape Deck) - Brackets / Cable 01-Feb-18 28-Feb-18 -198 Containment / Conduit / Junction Box installation 10288d2 Area B Tunnel Lighting (Landscape Deck) - Bracket installation 01-Feb-18 28-Feb-18 -198 (Cable Trench) Area B - C19 Handover of completed route of cable ductings from 08-Feb-18\* -197 SCP-5 to CH 5420 / Bridge F1B1 / F1B2 / F3A Area B - Mobilization 18016 08-Feb-18 -197 08-Feb-18 Area B (Remaining No TTA) - Cable laying along cable duct 09-Feb-18 28-Feb-18 -197 **EastBound** Area B (Remaining need TTA) - Lighting power cable laying (High 12 18-Sep-17 A 27-Oct-17 A Area B (Remaining need TTA) - Cable termination (High Level) 19010 28-Oct-17 A 16-Nov-17 A Area B (Remaining need TTA) - Testing & Energization 20-Nov-17 25-Nov-17 -40 WestBound Date Revision Checked Appro.. Remaining Work Current Milestone Project ID: H2613-U045 **Leighton Contractors (Asia) Limited** 20-Oct-17 Level of Effort Project Baseline Baseline: DWP2d **Programme Update 45 (November 2017)** cw Baseline Milestone Layout: Update Three Month Rolling 20-Nov-17 U045 11044 THREE MONTH ROLLING Critical Remaining Work Page 52 of 53

Data Date: 20-Nov-17 **CWB(CC) - Commissioning Contract** TASK filters: 3 Months\_4, 3MRP, No Original Sections, No Summary, Not HL. Activity ID Activity Name Original Duration 2018 Feb Jan Area B (Remaining need TTA) - Noise enclosure lighting brackets 04-Aug-17 A 18-Dec-17 -136 Area B (Remaining need TTA) - Cable containment installation 24-Jan-18 -136 19018 19-Dec-17 Area B (Remaining need TTA) - Noise enclosure lighting 26-Feb-18 -136 22 25-Jan-18 Training / Plan / Manual for Project Completion Operation Manual for CWB Opening 10198 Operation Manual for CWB opening - Draft submission (Cost 30-Jan-18 -218 03-Jan-18 Centre 9A. 9B) 10198a Operation Manual for CWB opening - Draft submission (Cost 31-Jan-18 06-Mar-18 -164 191281 Operation Manual for CWB opening - Draft (Cost Centre 9A. 9B) 06-Mar-18 -212 31-Jan-18 Approval Training Plan for CWB Opening 10206 Training Plan for CWB opening - Draft submission 20-Nov-17 09-Dec-17 -189 10206a Training Plan for CWB opening - Draft approval 03-Jan-18 -189 11-Dec-17 Training Plan for CWB opening - Final submission 10208 04-Jan-18 24-Jan-18 -189 10208a Training Plan for CWB opening - Final approval 18 25-Jan-18 14-Feb-18 -189 Training Material for CWB Opening 10210 Training Material for CWB opening - Draft submission 04-Jan-18 24-Jan-18 -189



Training Material for CWB opening - Draftapproval

Training Material for CWB opening - Final submission

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25-Jan-18

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**Leighton Contractors (Asia) Limited Programme Update 45 (November 2017)** THREE MONTH ROLLING

roject ID: H2613-U045	
laseline: DWP2d	

Layout: Update Three Month Rolling

U044	
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Date	Revision	Checked	Appro
20-Oct-17	U044	AT	CW
20-Nov-17	U045	AT	CW