#### **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**

- JULY 2017 -

**CLIENTS:** 

**Civil Engineering and Development Department** 

and

**Highways Department** 

PREPARED BY:

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Raymond Dai

**Environmental Team Leader** 

DATE:

11 August 2017



Ref.: AACWBIECEM00 0 9651L.17

14 August 2017

By Post and Fax (2691 2649)

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

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 (July 2017) 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 & 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 July 2017 received by e-mail on 11 August 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

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#### Lam Geotechnics Limited

#### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report July 2017 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 June 2017 to 26 July 2017.
- 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 month, 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

- Drainage works
- Road works
- 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
- Road and Drain works

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

- Rectification works for the defects recorded in the inspection for the end of maintenance period of Observation Deck and Staircase ST-01
- Rectification works for cracks/joints with water leakage inside OHVD cells
- Concreting of Hung Hing Road Flyover approach ramp bay 3 base slab
- Rebar fixing and formwork at Hung Hing Road Flyover approach ramp bay 1 base slab
- Rebar fixing and formwork at Hung Hing Road Flyover approach ramp bay 2 wall
- Backfilling works up to +4.0mPD inside cofferdam
- Remedial work for cross road duct



- Rectification works against water leakage and remedial works against concrete defects of the tunnel structure
- Outstanding works inside tunnel
- Concreting for roadside barrier
- Removal of scaffolding and formwork inside tunnel
- Removal of silo tank
- · Waterproofing and screeding works on top of tunnel
- · Removal of strut and removal of waling
- Reinstatement of temporary access opening at Bay 7
- Breaking of D-Wall panel
- Backfilling work for the area to be handed over to MTR SCL 1123
- Sewage works at Wan Shing Street
- Rectification works for uneven road surface at Hung Hing Road

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

- Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW
- Reinstatement work at the PRE Office car park area

### <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 sheet piling, pre-bored piling and top soil removal works
- Approach ramp structure Construction.
- Bridge Construction
- Pier 30-32 Cap Construction
- Excavation / Construction of retaining wall
- FEHD Metal Roof Construction
- Pre-bored H-piles for Approach Ramp Phase 2 Construction
- · Hing Fat Street road and drainage works

### <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 of A2 Road

### 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 month.
- 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. Four limit level exceedances were recorded at M1a Footbridge for Ex-Harbor Road Sports Centre on 07, 13, 20 and 26 July 2017 in the reporting month. The exceedances recorded on 07 and 13 July 2017 were concluded as non Project related while the exceedances recorded on 20 and 26 July 2017 were concluded as Project related.
- viii. One limit level exceedance was recorded at M6 HK Baptist Church Henrietta Secondary School on 18 July 2017 in the reporting month. The exceedance was concluded as non Project related.
- ix. 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.
- x. 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 month.
- xi. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.
- xii. 24-hour real time noise monitoring was conducted at RTN3 Yu Lee Mo Fan Memorial School. No project related exceedance was recorded in the reporting month.
- xiii. 24-hour real time noise monitoring was conducted at RTN4 Causeway Bay Community Centre. No limit level exceedance was recorded in the reporting month.

#### Air Quality Monitoring

- xiv. 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.
- xv. 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.



- xvi. With respect to the proposed demolition of the Oil Street Site Office, the respective air quality monitoring station CMA1b Oil Street Site Office was finely adjusted from the Oil Street Site Office to Harbor Grand Hotel Boundary Wall from 05 June 2017 onwards.
- xvii. No action or limit level exceedance was recorded in the reporting month.
- xviii. Due to electricity interruption, the TSP monitoring in the reporting month are rescheduled as follow:-
  - The 24hr TSP monitoring at CMA1b was rescheduled from 17 July 2017 and 22 July 2017 to 18 July 2017 and 24 July 2017 respectively.
- xix. Due to access restriction of the monitoring location with respect to public event at Wanchai area, the TSP monitoring in the reporting month are rescheduled as follow:

  The 24hr TSP monitoring at CMA5b was rescheduled from 29 June 2017 to 03 July 2017.

The 1hr TSP monitoring at CMA5b was rescheduled from 30 June 2017 to 03 July 2017.

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

- **xx**. Four environmental complaints were received in the reporting month.
- xxi. First 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 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 re-bar fixing works was carried out under Contract HK/2009/02 from 2300hrs to 2330hrs on 26 June 2017 at Portion 5 Bay 15 (Non - Designated Area) top slab area adjacent to the covered walkway of the Wan Chai Ferry Pier. 1 no. of generator was operated at ground level and 2 nos. of generators were operated below ground level from 2300hrs to 2400hrs on 26 June 2017 while 16 electric water pump were operated below ground level at Portion 5 Bay from 2300hrs to 2400hrs on 26 June 2017 and the relevant Construction Noise Permit GW-RS0527-17 for the above operation was in place. However, site record on the model of generators deployed on the concerned night was not available.

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 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 on-site to conduct checking on the deployment of PMEs on-site prior and during restricted hours to ensure only PMEs allowed under relevant Construction Noise Permit would be operated.

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 Construction Noise Permit Compliance. A detailed implementation plan would be prepared by the Contractor of HK/2009/02 and further supplemented.

xxii. Second 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 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.

xxiii. An EPD complaint was referred to the ET on 21 July 2017 (CASE Ref: H05/RS/00022835-17). The complainant reported that mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.

ET confirmed with the Resident Site Staff that unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works. No construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.

According to the RSS site information, unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works and relevant Construction Noise Permit GW-RS0348-17 was in place and noise barrier with surface mass density of not less than 5kg/m2 was provided to the power generating part of the grab dredger operated from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017.



Meanwhile, no construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.

In view of the public concern, the Contractor of HK/2009/02 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.

xxiv. 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 implemented for the above construction activities on 25 July 2017 at the concerned location. During Environmental Team ad hoc inspection conducted on 26 July 2017, water spraying was found insufficient to mitigate the extended area of breaking operation and construction dust impact to surroundings public area was observed. Subsequently, Contractor of HK/2009/02 was reminded to enhance the dust suppression measure for the dust generating works.

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.

xxv. No Notification of Summons and Successful Prosecutions was received in the reporting month.

#### Site Inspections and Audit

- xxvi. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/15, 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.
- xxvii. 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.
- xxviii. 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.



- xxix. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.
- xxx. An inspection report (under WPCO) regarding suspected non-compliance construction site discharge and acknowledgement of Receipt of a Legal Sample were issued by the EPD to the Contractor of HY/2009/19 after inspection conducted by the EPD on 29 June 2017 at Watson Road.



#### Future Key Issues

i. In the coming reporting month, 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>

- Drainage works
- Road works
- Landscaping works
- Maintenance works

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

- Reinstatement of amenity area
- Road and Drain works

<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

- Rectification works for the defects for the end of maintenance period of Observation Deck and Staircase ST-01.
- Formwork, rebar fixing and concreting of HHR Flyover Approach Ramp.
- Ground investigation works for Box Culvert O re-provision.
- · Advance works for removal of D-Wall panel adjacent to temporary reclamation area
- Remedial works for cross road ducts inside tunnel.
- Partial lowering of temporary reclamation and removal of Strut S1 (West corner) TBC
- · Concreting of roadside barrier.
- Dismantling of scaffolding inside tunnel.
- Reinstatement of temporary access opening.
- Breaking of D-Wall panel.
- Backfilling.
- Remedial works of tunnel wall, base slab and OHVD inside tunnel.
- Sewage works at Wan Shing Street.
- Repair of clay pipe inside WSD Pumping Station
- Synthetic wood completion inside Works Area B

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

- Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW
- Reinstatement work at the PRE Office car park area
- Re-surfacing work at Hung Hing Road



### <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 sheet piling, pre-bored piling and top soil removal works
- Approach ramp structure Construction.
- Bridge Construction
- Pier 30-32 Cap Construction
- Excavation / Construction of retaining wall
- FEHD Metal Roof Construction and drainage works
- Pre-bored H-piles for Approach Ramp Phase 2 Construction
- Hing Fat Street road and drainage works
- Oil Street drainage works
- Installation of skin parapet on TB bridge

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

- Construction of Slip Road 1
- · Construction of drainage
- Asphalt paving of A2 Road

### 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
- Construction of Tunnel Thermal Barrier
- 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 June 2017 to 26 July 2017.

#### 1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2 Project Background** summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- **Section 3 Status of Regulatory Compliance** summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- **Section 4** *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.



- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.
- **Section 8** *Environmental Site Audit* summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



#### 2 PROJECT BACKGROUND

#### 2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

#### 2.2 Scope of the Project and Site Description

- 2.2.1. Design and Construction of Central Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:
  - A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately
    3.7 km in length defined from the connection with the existing Rumsey Street Flyover
    in Central, through to a connection with the existing Island Eastern Corridor to the
    east of the Causeway Bay Typhoon Shelter (CBTS);
  - The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
  - · Tunnel control buildings and ventilation buildings;
  - Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
  - · Associated road lighting, road signing, traffic control and surveillance system; and
  - · Other associated works.



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

Table 2.1 Schedule 2 Designated Projects under this Project

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

#### 2.3 Division of the Project Responsibility

- 2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.
- 2.3.2. The details of individual contracts are summarized in *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 Section)	DP1,DP3	13 July 2011
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2010/06	Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)
HK/2012/08 Wan Chai Development Phase II- Central-Wan Chai Bypass at Wan Chai West		DP1,DP2, DP3	10 March 2014
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 under Contract no. HK/2009/01	Project Manager	Mr. Simon Liu	2162 9909	2587 1878
Leader Joint Venture		Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Environmental Officer	Mr. Terry Tsang	6683 9394	



Party	Role	Post	Name	Contact No.	Contact Fax
Chun Wo – CRGL Joint	Contractor under Contract no. HK/2009/02	Site Agent	Mr. K.K. Yuen	3658-3002	2827 9996
Venture		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	0570 0040
		Environmental Manager /	Mr. M.H. Isa	3757 8218	2570 8013
		Environmental Officer			
		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 Officer	Mr. Chris Chan	3973 0885	
China State	Contractor	Project Director	Mr. Chris Leung	3557 6393	2865 5229
Construction Engineering	under Contract no. HY/2009/15	Site Manager	Mr. Y. Huo	3557 6368	2566 2192
(HK) Ltd.		Contractor's Representative	Mr. Rex Lau	3557 6405	
		Environmental Officer	Mr. Andy Mak	3557 6347	
China State-	Contractor	Project Director	Mr. C.N. Lai	9137 1811	2877 1522
Build King JV	under Contract no. HK/2012/08	Project Manager	Mr. Eddie Chung	9193 8871	
		Site Agent	Mr. Keith Tse	9095 7922	
		Environmental Officer	Mr. James MA	9130 9549	
		Environmental Supervisor	Mr. Y.L. Ho	6050 4919	
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	
		Environmental Supervisor	Mr. Desmond Ho	3557 6465	
Leighton Joint Venture	Contractor under Contract	Site Agent	Mr. Colman Wong	2823 1410	21406799



Party	Role	Post	Name	Contact No.	Contact Fax
	no. HY/2011/08	Environmental Officer	Mr. Malcolm Leung	3973 0850	
		Environmental Supervisor	Ms. Christy So	3973 1065	
Ramboll Environ Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331



2.4.3. In this reporting month, 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

- Drainage works
- Road works
- 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
- Road and Drain works

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

- Rectification works for the defects recorded in the inspection for the end of maintenance period of Observation Deck and Staircase ST-01
- Rectification works for cracks/joints with water leakage inside OHVD cells
- Concreting of Hung Hing Road Flyover approach ramp bay 3 base slab
- Rebar fixing and formwork at Hung Hing Road Flyover approach ramp bay 1 base slab
- Rebar fixing and formwork at Hung Hing Road Flyover approach ramp bay 2 wall
- Backfilling works up to +4.0mPD inside cofferdam
- · Remedial work for cross road duct
- Rectification works against water leakage and remedial works against concrete defects
  of the tunnel structure
- Outstanding works inside tunnel
- Concreting for roadside barrier
- Removal of scaffolding and formwork inside tunnel
- Removal of silo tank
- Waterproofing and screeding works on top of tunnel
- Removal of strut and removal of waling
- Reinstatement of temporary access opening at Bay 7
- Breaking of D-Wall panel
- Backfilling work for the area to be handed over to MTR SCL 1123
- Sewage works at Wan Shing Street
- Rectification works for uneven road surface at Hung Hing Road



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

- Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW
- Reinstatement work at the PRE Office car park area

### 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 sheet piling, pre-bored piling and top soil removal works
- Approach ramp structure Construction.
- Bridge Construction
- Pier 30-32 Cap Construction
- Excavation / Construction of retaining wall
- FEHD Metal Roof Construction
- Pre-bored H-piles for Approach Ramp Phase 2 Construction
- Hing Fat Street road and drainage works

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

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving of A2 Road

### 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

### <u>Contract no. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems</u> 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 month, 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

- Drainage works
- Road works
- 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
- Road and Drain works

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

- Rectification works for the defects for the end of maintenance period of Observation Deck and Staircase ST-01.
- Formwork, rebar fixing and concreting of HHR Flyover Approach Ramp.
- Ground investigation works for Box Culvert O re-provision.
- Advance works for removal of D-Wall panel adjacent to temporary reclamation area
- · Remedial works for cross road ducts inside tunnel.
- Partial lowering of temporary reclamation and removal of Strut S1 (West corner) TBC
- Concreting of roadside barrier.
- Dismantling of scaffolding inside tunnel.
- · Reinstatement of temporary access opening.
- · Breaking of D-Wall panel.
- · Backfilling.
- Remedial works of tunnel wall, base slab and OHVD inside tunnel.
- Sewage works at Wan Shing Street.
- Repair of clay pipe inside WSD Pumping Station
- Synthetic wood completion inside Works Area B

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

- Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW
- Reinstatement work at the PRE Office car park area
- Re-surfacing work at Hung Hing Road



### <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 sheet piling, pre-bored piling and top soil removal works
- Approach ramp structure Construction.
- Bridge Construction
- Pier 30-32 Cap Construction
- Excavation / Construction of retaining wall
- FEHD Metal Roof Construction and drainage works
- Pre-bored H-piles for Approach Ramp Phase 2 Construction
- Hing Fat Street road and drainage works
- Oil Street drainage works
- Installation of skin parapet on TB bridge

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

- Construction of Slip Road 1
- Construction of drainage
- Asphalt paving of A2 Road

### 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
- Construction of Tunnel Thermal Barrier
- 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 Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Superseded
Environmental Permit	EP-364/2009/D	24 Nov 2015	Superseded
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/A	25 Feb 2011	Superseded
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/B	2 May 2014	Superseded
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 Advanced piling works under FEP-03/364/2009</u>
- 3.1.3. The construction works was completed and the FEP-03/364/2009 was surrendered by the Contractor on 28 March 2013.
  - <u>Contract no. 04/HY/2006 Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A</u>
- 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. 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>

3.1.6. 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
Discharge License	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.4)	8 July 2015



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

3.1.7. 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 Environmental	FEP-03/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	GW-RS0289-17	31 Mar 2017	02 Apr 2017 to 02 Jul /2017	Expired
	GW-RS0314-17	07 Apr 2017	11 Apr 2017 to 04 Oct 2017	Valid
	GW-RS0338-17	13 Apr 2017	28 May 2017 to 27 Aug 2017	Valid
Construction Noise Permit (CNP) for non-pilling equipment	GW-RS0334-17	18 Apr 2017	21 Apr 2017 to 06 Oct 2017	Cancelled
	GW-RS0348-17	18 Apr 2017	25 Apr 2017 to 24 Oct 2017	Valid
	GW-RS0527-17	16 Jun 2017	17 Jun 2017 to 20 Sep 2017	Valid
	GW-RS0535-17	16 Jun 2017	17 Jun 2017 to 20 Sep 2017	Valid
	GW-RS0584-17	19Jul 2017	20 Jul 2017 to 19 Oct 2017	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



Permits and/or Licenses	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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>

3.1.8. 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	Permit issued	Valid
Notification of Works Under APCO	322293	07 Oct 2010	Notified	Valid
	GW-RS0362-17	21 Apr 2017	30 Apr 2017 to 31 Aug 2017	Cancelled
Construction Noise	GW-RS1338-16	28 Dec 2016	01 Jan 2017 to 30 Jun 2017	Expired
Permit (CNP) for non-piling equipment	GW-RS0343-17	19 Apr 2017	21 Apr 2017 to 17 Jul 2017	Expired
	GW-RS0433-17	16 May 2017	18 May 2017 to 31 Aug 2017	Valid
	GW-RS0532-17	15 Jun 2017	1 Jul 2017 to 31 Dec 2017	Valid
	WT00013967-2012	17 Sep 2012	30 Sep 2017	Cancelled
Discharge Licenses	WT00014966-2013	08 Jan 2013	31 Jan 2018	Cancelled
Discharge Licenses	WT00020725-2015	14 Jan 2015	30 Jul 2017	Valid
	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	Registration completed
Billing Account under Waste Disposal Ordinance (Land)	Account No.: 7011587	11 Oct 2010	Account approved	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>

3.1.9. 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 3.8* and *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	GW-RS0586-17	06 July 2017	10 July 2017 to 05 Dec 2017	Valid
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	8 Jul 2016 to 31 Dec 2017	Valid

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

EP Condition	Submission	Date of Submission
Condition 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.3)	30 Jan 2015



<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>

3.1.10. 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	FEP- 07/364/2009/A	25 Feb 2011	N/A	Valid
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-RS1327-16	29-Dec-16	29 Dec 2016 to 27 Jun 2017	Expired
Construction Noise Permits	GW-RS0482-17	02 Jun 2017	08 Jun 2017 to 07 Sep 2017	Valid
(CNP) for non- piling equipment	GW-RS0562-17	28-Jun-17	30 Jun 2017 to 27 Dec 2017	Valid
	GW-RS0552-17	22-Jun-17	28 Jun 2017 to 27 Dec 2017	Valid
Water Discharge License	WT00025282- 2016	15 Sep 2016	30 Sep 2021	Valid
Dumping Permit (Approach Ramp) (Type 1 – Open Sea Disposal)	EP/MD/17-078	01 Oct 2016	31 Mar 2017	Valid



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.5)	09 December 2016
Condition 2.9	Noise Management Plan (Rev.4)	15 February 2016

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

3.1.11. 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
Further Environmental Permit	FEP-09/364/2009/B	5 Mar 2013	N/A	Valid
	FEP-12/364/2009/D	1 Aug 2016	N/A	Valid
	FEP-06/356/2009	5 March 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
Construction Noise Permit (CNP) for non- piling equipment	GW-RS1336-16	29 Dec 2016	13 Jan 2017 to 12 Jul 2017	Expired
	GW-RS1371-16	5 Jan 2017	9 Jan 2017 to 08 Jul 2017	Expired
	GW-RS0098-17	1 Feb 2017	26 Feb 2017 to 25 Aug 2017	Valid
	GW-RS0593-17	11 Jul 2017	13 Jul 2017 to 12 Jan 2018	Valid
	GW-RS0509-17	8 Jun 2017	08 Jul 2017 to 07 Jan 2018	Valid
Water Discharge License	WT00018223-2014	28 Jan 2014	31 Jan 2019	Cancelled
	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

#### Contract no. HY/2010/08 - Central - Wanchai Bypass Tunnel - Tunnel (Slip Road 8)

3.1.12. 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 Permit	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Future Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2013-04-02	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147- C1169-44	2013-03-27	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	2013-03-27	NIL	Valid
Water Discharge License	WT0001651-2013	2013-07-09	2018-07-28	Cancelled
Water Discharge License	WT00020468-2014	2014-12-03	2018-07-31	Valid
	GW-RS0086-17	31 Jan 2017	31 Jan 2017 to 30 Jul 2017	Valid
	GW-RS0092-17	31 Jan 2017	31 Jan 2017 to 31 Jul 2017	Valid
Construction Noise Permit (CNP)	GW-RS0290-17	08 Apr 2017	08 Apr 2017 to 30 Sep 2017	Valid
for non-piling equipment	GW-RS0201-17	18 Mar 2017	18 Mar 2017 to 17 Sep 2017	Cancelled
	GW-RS0347-17	27 Apr 2017	27 Apr 2017 to 18 Oct 2017	Valid
	GW-RS0360-17	20 Apr 2017	20 Apr 2017 to 19 Oct 2017	Cancelled

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0368-17	19 Apr 2017	21 Apr 2017 to 18 Oct 2017	Valid
	GW-RS0499-17	08 Jun 2017	09 Jun 2017 to 28 Nov 2017	Valid
	GW-RS0514-17	13 Jun 2017	18 Jun 2017 to 16 Sep 2017	Valid
	GW-RS0515-17	13 Jun 2017	18 Jun 2017 to 16 Sep 2017	Valid
	GW-RS0518-17	13 Jun 2017	26 Jun 2017 to 25 Nov 2017	Valid
	GW-RW0197-17	19 Apr 2017	24 Apr 2017 to 20 Oct 2017	Valid

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	Landscape Plan (Rev.2)	19 May 2014
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

3.1.13. 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	FEP-11/364/2009/B	2 May 2014	N/A	Valid
Permit	FEP-11/364/2009/E	22 Dec 2014	N/A	Valid
Notification of Works Under APCO	LCAC-EN-LE-00017	7 Mar 2014	N/A	Valid
	5213-121-L2837-01	19 Apr 2016	N/A	Registered
Registration as a Chemical Waste	5213-151-L2837-02	24 May 2016	N/A	Registered
Producer	5213-134-L2898-01	16 Nov 2015	N/A	Registered
	5213-134-L2952-01	12 May 2017	N/A	Registered
Billing Account under Waste Disposal Ordinance	Waste Disposal 7019640 27 Mar 2014 N/A		N/A	Valid
	GW-RS1134-16	28 Dec 2016	01 Jan 2017 to 30 Jun 2017	Expired
	GW-RS1137-16	28 Dec 2016	01 Jan 2017 to 30 Jun 2017	Expired
	GW-RS0100-17	1 Feb 2017	03 Feb 2017 to 31 Jul 2017	Valid
	GW-RS0139-17	23 Feb 2017	01 Mar 2017 to 31 Aug 2017	Valid
	GW-RS0146-17	23 Feb 2017	01 Mar 2017 to 31 Aug 2017	Valid
Construction Noise Permit (CNP) for non- piling equipment	GW-RS0294-17	31 Mar 2017	06 Apr 2017 to 30 Sep 2017	Valid
piinig oquipinon	GW-RS0359-17	25 Apr 2017	01 May 2017 to 31 Oct 2017	Valid
	GW-RS0375-17	25 Apr 2017	01 May 2017 to 31 Oct 2017	Valid
	GW-RS0381-17	26 Apr 2017	01 May 2017 to 31 Oct 2017	Valid
	GW-RS0460-17	18 May 2017	01 Jun 2017 to 31 Oct 2017	Valid
	GW-RS0463-17	18 May 2017	01 Jun 2017 to 31 Oct 2017	Valid





Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0465-17	18 May 2017	01 Jun 2017 to 31 Oct 2017	Valid
	GW-RS0523-17	15 Jun 2017	01 Jul 2017 to 31 Dec 2017	Valid
	GW-RS0528-17	15 Jun 2017	01 Jul 2017 to 31 Dec 2017	Valid
	GW-RS0591-17	07 Jul 2017	09 Jul 2017 to 31 Dec 2017	Valid
Water Discharge Licence	WT00020242-2014	04 Nov 2014	30 Nov 2019	Cancelled
	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
	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



### 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 November 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 March 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 April 2017
Condition 2.13 e)	Operational Air Quality Management Plan for ventilation system of Eastern Portal of the CWB Tunnel (Rev.0)	23 October 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
МЗа	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 month, 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 month 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 month.
- 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 Four limit level exceedances were recorded at M1a – Footbridge for Ex-Harbour Road Sports Centre on 07, 13, 20 and 26 July 2017 in the reporting month.



- 5.1.7 After checking with Contractor of HK/2009/01, no construction works was conducted under Contract HK/2009/01 around the monitoring station on 07, 13, 20 and 26 July 2017 in the reporting month, non WDII-CWB Projects construction works were observed on 07 and 13 July 2017 during the monitoring period as the major noise contribution while breaking works under Contract HK/2009/02 were observed during the monitoring period on 20 and 26 July 2017 as the major noise contribution. Hence, the exceedances were considered as non-Project related under Contract HK/2009/01.
- 5.1.8 After checking with Contractor of HK/2009/02, despite loading and unloading conducted by crane was carried out under Contract HK/2009/02 on 07 July 2017 with breaking works conducted momentarily around the concerned location during the time of measurement, the continuous sheet piling works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. In view of the momentary noise emanated from breaking works was observed having no influential effect on the noise level during the measurement, the exceedance was considered as non-Project related.
- 5.1.9 After checking with Contractor of HK/2009/02, despite concreting, loading and unloading conducted by crane was carried out under Contract HK/2009/02 on 13 July 2017, no major noise emanation was observed while breaking works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. In view of the above, the exceedance was considered as non-Project related.
- 5.1.10 After checking with Contractor of HK/2009/02, backfilling works, breaking works and unloading of C&D material from barge to land were conducted under Contract HK/2009/02 on 20 July 2017 around the monitoring location during the time of measurement while bored pile works was observed conducted around the monitoring location under non WDII-CWB Project at the time of measurement. Despite the breaking works was considered as the major noise contribution during the measurement hence the exceedance is considered as Project related, the noise impact to the nearest NSR is further assessed considering the boundary location of the monitoring station and no adverse noise impact to the nearest NSR is identified. Nevertheless, in view of the recorded boundary condition, the Contractor of HK/2009/02 is suggested to adopt additional noise mitigation measures to avoid potential cumulative impact to nearby stakeholders.
- 5.1.11 After checking with Contractor of HK/2009/02, backfilling works, breaking works and unloading of C&D material from barge to land were conducted under Contract HK/2009/02 on 26 July 2017 around the monitoring location during the time of measurement while bored pile works was observed conducted around the monitoring location under non WDII-CWB Project at the time of measurement. The breaking works under Contract HK/2009/02 was observed as the major noise contribution during the measurement hence the exceedance is considered as Project related and the adverse noise impact to the nearest NSR was resulted. The Contractor of HK/2009/02 was requested to submit a remedial action plan according to the Event and Action Plan. Remedial actions including i) reduction in no. of breakers operating in parallel ii) operate breakers intermittently and iii) covering of breaker head with acoustic material were implemented by the Contractor on 03 August 2017.



5.1.12 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.

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

5.1.13 The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A was on 13 July 2011. Noise monitoring was commenced on 13 July 2011. The proposed divisions of noise monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Noise Monitoring Stations for Contract no. HY/2009/15

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

- 5.1.14 No action or limit level exceedance was recorded in this reporting month.
- 5.1.15 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>.

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

5.1.16 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

- 5.1.17 One limit level exceedance was recorded at M6 HK Baptist Church Henrietta Secondary School on 18 July 2017 in this reporting month.
- 5.1.18 Despite installation of launching girder was conducted under Contract HY/2009/19 on 18 July 2017, nearby IEC traffic noise was observed as the major noise contribution during monitoring period. Hence, the exceedances were considered as non-Project related.
- 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>
  5.2. Details of the Notification of Exceedance can be referred in <u>Appendix</u> 6.2.



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

5.1.20 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
МЗа	Tung Lo Wan Fire Station

- 5.1.21 No action or limit level exceedance was recorded in this reporting month.
- 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>

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

5.1.23 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

- 5.1.24 No action or limit level exceedance was recorded in this reporting month.
- 5.1.25 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.

#### 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.
  - <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>
- 5.2.6. 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 was recorded in the reporting month.
- 5.2.8. Limit level exceedances were recorded at RTN2a- Hong Kong Electric Centre was recorded during daytime on 24 July 2017 in the reporting month. After checking with Contractor of HY/2009/19, trimming bored pile head and sheet pile installation was conducted behind Administration Building Structure while external wall maintenance work at HK Electric Centre was recorded across the monitoring date and potentially contributed to the recorded noise. In view of the above, the exceedances were considered as non-Project related.
- 5.2.9. Limit level exceedances were recorded at RTN3- Yu Lee Mo Fan Memorial School was recorded during daytime on 08 July 2017 in the reporting month. After checking with Contractor of HY/2009/19, no construction works was conducted during the monitoring period and the exceedance is potentially contributed by nearby IEC traffic. Hence, 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 month.
- 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.* 
  - Contract no. HY/2011/08 Central Wan Chai Bypass (CWB) Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning
- 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

Locatio n 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 was recorded in the reporting month.
- 5.2.14. Limit level exceedances were recorded at RTN2a- Hong Kong Electric Centre was recorded during daytime on 24 July 2017 in the reporting month. After checking with Contractor of HY/2011/08, despite concreting, rebar fixing, formwork erection and



excavation were conducted at Administration works area, no particular noise impact was considered while external wall maintenance work at HK Electric Centre was observed across the monitoring date and potentially contributed to the recorded noise. In view of the above, the exceedances were 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 month.



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 month.
- 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 No exceedance was recorded in the reporting month.
- 5.3.6 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in <u>Appendix 5.3</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

5.3.7 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
CMA4a	Society for the Prevention of Cruelty to Animals

- 5.3.8 No exceedance was recorded in the reporting month.
- 5.3.9 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/2009/15 - Central-Wanchai Bypass - Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A</u>

5.3.10 The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A was on 13 July 2011. Air quality monitoring was commenced on 14 July 2011. The proposed division of air quality monitoring stations are summarized in *Table 5.12* below.

Table 5.12 Air Quality Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

- 5.3.11 No exceedance was recorded in the reporting month.
- 5.3.12 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/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/D</u>

5.3.13 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



- 5.3.14 No exceedance was recorded in the reporting month.
- 5.3.15 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/2012/08- Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai West

5.3.16 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

- 5.3.17 No exceedance was recorded in the reporting month.
- 5.3.18 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/2010/08 - Central-Wanchai Bypass -Wanchai Bypass Tunnel (Slip Raod 8 Section) under FEP-12/364/2009/D</u>

5.3.19 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

- 5.3.20 No exceedance was recorded in the reporting month.
- 5.3.21 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>

5.3.22 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

- **5.3.23** No exceedance was recorded in the reporting month.
- 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.



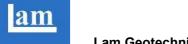
#### 5.4 Waste Monitoring Results

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

5.4.1. Inert C&D wastes and non-inert C&D wastes were disposed in this reporting month. 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	107988.315	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>	3.08	5294.8	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) , <b>m3</b>	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 month. 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, <b>m</b> <sup>3</sup>	96	522300.412	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	368	4848.32	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) , <b>m</b> <sup>3</sup>	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 month. 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>	22.4	1415407.69	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, m³	11.42	4397.23	SENT Landfill
Non-inert C&D materials recycled, ton	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 month. 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> <sup>3</sup>	Nil	358660.77	WDII
,			Lun Ku Tan
			WENT
			HY/2010/08
Non-inert C&D	Nil	4673.91	SENT Landfill
materials disposed, <b>m</b> <sup>3</sup>	Nil	1.58	WENT Landfill
Non-inert C&D materials recycled, <b>m</b> <sup>3</sup>	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 month. Details of the waste flow table are summarized in *Table 5.21*.

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

Waste Type*	Quantity this month	Cumulative-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, <b>ton</b>	10795.12	701261.13	TM38
Inert C&D materials recycled, <b>ton</b>	Nil	82349.7	N/A
Non-inert C&D materials disposed, <b>ton</b>	71.17	6059.48	SENT Landfill
Non-inert C&D materials recycled, <b>ton</b>	Nil	565.63	N/A
Chemical waste disposed, <b>kg</b>	Nil	10.15	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), <b>m</b> <sup>3</sup>	Nil	20556	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



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

5.4.6. No inert and Non-inert C&D wastes were disposed of in this reporting month. 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	77	183267	TKO 137
disposed, m <sup>3</sup>	Nil	116668	TM38
Inert C&D materials recycled, <b>m</b> <sup>3</sup>	63	Nil	N/A
Non-inert C&D materials disposed, <b>m</b> <sup>3</sup>	200	8017	SENT
Non-inert C&D materials recycled, m³	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 July 2017.



<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 month. 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
	265.44	584201.28	TM 38/ CW
Inert C&D materials	Nil	262656.6	WENT
disposed, <b>m</b> <sup>3</sup>	Nil	82911.8	SENT
	10.69	72699.21	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>	293.78	5209.57	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> <sup>3</sup>	Nil	16368.4	East Sha Chau/ South Brothers Island
Type 2 – Confined Marine disposal, m³	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 month. 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>	218.33	952.52	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>	328.17	3236.13	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 month.

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. Four limit level exceedances were recorded at M1a Footbridge for Ex-Harbour Road Sports Centre on 07, 13, 20 and 26 July 2017 in the reporting month.
- 6.1.3. No construction works was conducted under Contract HK/2009/01 around the monitoring station on 07, 13, 20 and 26 July 2017 in the reporting month, non WDII-CWB Projects construction works were observed on 07 and 13 July 2017 during the monitoring period as the major noise contribution while breaking works under Contract HK/2009/02 were observed during the monitoring period on 20 and 26 July 2017 as the major noise contribution. Hence, the exceedances were considered as non-Project related under Contract HK/2009/01.

<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

- 6.1.4. Four limit level exceedances were recorded at M1a Footbridge for Ex-Harbour Road Sports Centre on 07, 13, 20 and 26 July 2017 in the reporting month.
- 6.1.5. Despite loading and unloading conducted by crane was carried out under Contract HK/2009/02 on 07 July 2017 with breaking works conducted momentarily around the concerned location during the time of measurement, the continuous sheet piling works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. In view of the momentary noise emanated from breaking works was observed having no influential effect on the noise level during the measurement, the exceedance was considered as non-Project related.
- 6.1.6. Despite concreting, loading and unloading conducted by crane was carried out under Contract HK/2009/02 on 13 July 2017, no major noise emanation was observed while breaking works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. In view of the above, the exceedance was considered as non-Project related.
- 6.1.7. Backfilling works, breaking works and unloading of C&D material from barge to land were conducted under Contract HK/2009/02 on 20 July 2017 around the monitoring location during the time of measurement while bored pile works was observed conducted around the monitoring location under non WDII-CWB Project at the time of measurement. Despite the



breaking works was considered as the major noise contribution during the measurement hence the exceedance is considered as Project related, the noise impact to the nearest NSR is further assessed considering the boundary location of the monitoring station and no adverse noise impact to the nearest NSR is identified. Nevertheless, in view of the recorded boundary condition, the Contractor of HK/2009/02 is suggested to adopt additional noise mitigation measures to avoid potential cumulative impact to nearby stakeholders.

6.1.8. Backfilling works, breaking works and unloading of C&D material from barge to land were conducted under Contract HK/2009/02 on 26 July 2017 around the monitoring location during the time of measurement while bored pile works was observed conducted around the monitoring location under non WDII-CWB Project at the time of measurement. The breaking works under Contract HK/2009/02 was observed as the major noise contribution during the measurement hence the exceedance is considered as Project related and the adverse noise impact to the nearest NSR was resulted. The Contractor of HK/2009/02 was requested to submit a remedial action plan according to the Event and Action Plan. Remedial actions including i) reduction in no. of breakers operating in parallel ii) operate breakers intermittently and iii) covering of breaker head with acoustic material were implemented by the Contractor on 03 August 2017.

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

**6.1.9.** No exceedance was recorded in the reporting month.

<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>

- 6.1.10. One limit level exceedance was recorded at M6 HK Baptist Church Henrietta Secondary School on 18 July 2017 in this reporting month.
- 6.1.11. Despite installation of launching girder was conducted under Contract HY/2009/19 on 18 July 2017, nearby IEC traffic noise was observed as the major noise contribution during monitoring period. Hence, the exceedances were considered as non-Project related.

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

6.1.12. No exceedance was recorded in the reporting month.

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

**6.1.13**. No exceedance was recorded in the reporting month.



## 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>

- 6.1.14. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot was recorded in the reporting month.
- 6.1.15. Limit level exceedances were recorded at RTN2a- Hong Kong Electric Centre was recorded during daytime on 24 July 2017 in the reporting month. After checking with Contractor of HY/2009/19, trimming bored pile head and sheet pile installation was conducted behind Administration Building Structure while external wall maintenance work at HK Electric Centre was recorded across the monitoring date and potentially contributed to the recorded noise. In view of the above, the exceedances were considered as non-Project related.
- 6.1.16. Limit level exceedances were recorded at RTN3- Yu Lee Mo Fan Memorial School was recorded during daytime on 08 July 2017 in the reporting month. After checking with Contractor of HY/2009/19, no construction works was conducted during the monitoring period and the exceedance is potentially contributed by nearby IEC traffic. Hence, the exceedance was considered as non-Project related.
- 6.1.17. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre was recorded in the reporting month.
  - 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
- 6.1.18. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot was recorded in the reporting month.
- 6.1.19. Limit level exceedances were recorded at RTN2a- Hong Kong Electric Centre was recorded during daytime on 24 July 2017 in the reporting month. After checking with Contractor of HY/2011/08, despite concreting, rebar fixing, formwork erection and excavation were conducted at Administration works area, no particular noise impact was considered while external wall maintenance work at HK Electric Centre was observed across the monitoring date and potentially contributed to the recorded noise. In view of the above, the exceedances were considered as non-Project related.
- 6.1.20. No limit level exceedance was recorded at RTN4- Causeway Bay Community Centre were recorded in the reporting month.



**Air Quality Monitoring** 

6.2

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

6.2.1. No exceedance was recorded in the reporting month.

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

6.2.2. No exceedance was recorded in the reporting month.

<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 month.

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

6.2.4. No exceedance was recorded in the reporting month.

<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>

6.2.5. No exceedance was recorded in the reporting month.

<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>

6.2.6. No exceedance was recorded in the reporting month.

<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 month.

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

6.2.8. No exceedance was recorded in the reporting month.

#### 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 An inspection report (under WPCO) regarding suspected non-compliance of construction site discharge and acknowledgement of Receipt of a Legal Sample were issued by the EPD to the Contractor of HY/2009/19 after inspection conducted by the EPD on 29 June 2017 at Watson Road.
- 6.3.3 A project related noise exceedance was recorded from the breaking works under Contract HK/2009/02 on 20 July 2017. The breaking works was observed as the major noise



contribution during the measurement hence the exceedance is considered as Project related while no adverse noise impact to the nearest NSR was resulted based on the assessment on the monitoring location and nearest NSR.

6.3.4 A project related noise exceedance was recorded from the breaking works under Contract HK/2009/02 on 26 July 2017. The breaking works was observed as the major noise contribution during the measurement hence the exceedance is considered as Project related and adverse noise impact to the nearest NSR was resulted. The Contractor of HK/2009/02 was requested to submit a remedial action plan according to the Event and Action Plan.

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

- 6.4.1 No particular action taken was taken for site audits since no non-compliance was recorded in the reporting period.
- 6.4.2 The RSS and Environmental Team shall keep in view the construction site discharge under Contract HY/2009/19 and conduct regular checking for the concerned construction site discharge and notify the Contractor for necessary follow up, if required.
- 6.4.3 Further project related noise exceedance recorded on 20 July 2017 from the breaking works under Contract HK/2009/02, despite no adverse impact was assessed from the noise assessment at the nearest NSR, the Contractor of HK/2009/02 was recommended to implement noise mitigation measures to avoid potential nuisance to nearby stakeholder.
- 6.4.4 Further to the project related noise exceedance recorded on 26 July 2017 under Contract HK/2009/02, remedial actions including i) reduction in no. of breakers operating in parallel ii) operate breakers intermittently and iii) covering of breaker head with acoustic material were implemented by the Contractor on 03 August 2017. Additional noise monitoring was conducted 03 August 2017 and it was concluded that there are no further adverse impact to the nearest NSR upon implementation of remedial actions.



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

- 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).
- 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 month.
- 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 Cooling mains and installation of irrigation piping at P1 road were performed in July 2017 reporting month. 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, tunnel 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 works at Causeway Bay, road works and side wall construction at Victoria Park; bridge construction, piling works, foundation works and building construction at North Point area in the reporting month. 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 month. Besides, no project related exceedance was recorded during the air quality and noise environmental monitoring events in the reporting month. 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 month, weekly environmental site audits were conducted for Contracts no. HY/2009/15, 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/2009/15 were carried out during this reporting period. No observation was found in the reporting month.
- 8.0.3. Site inspections for Contract no. HY/2009/18 were carried out during this reporting period. No observation was found in the reporting month
- 8.0.4. 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
170628_1	28 Jun 2017	Contractor shall properly follow-up with the provision / arrangement for movable noise barrier (Opposite to Habour Grand Hotel)	Contractor provide relevant information for further review and comment	Completion as observed on 5 July 2017
170628_2	28 Jun 2017	Contractor shall provide more frequent watering to dusty surface (Near new site office)	Watering was provided to concerned area	Completion as observed on 5 July 2017
170711_1	11 Jul 2017	Contractor shall clean the public road and adjoining site exit to avoid deposit of silt / mud on public road (Oil Street)	Cleaning was provided to public road and adjoining site exit	Completion as observed on 19 July 2017

- 8.0.5. Site inspections for Contract no. HK/2009/01 was carried out during this reporting period. No observation was found in the reporting month.
- 8.0.6. Site inspections for Contract no. HK/2009/02 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.5.*

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Completion date
170629_01	29 Jun 2017	Silt screen at station RW21-P789 shall properly maintained and ensure it has extended to seabed level.	Silt screen were maintained properly at concerned monitoring station.	Completion as observed on 7 July 2017



Item	Date	Observations	Action taken by Contractor	Completion date
170629_02	29 Jun 2017	Dust suppression measure including covering of stockpile shall be implemented at (Area B and Portion 3 & 4)	Covering of stockpiles and water spraying were implemented for the concerned stockpiles.	Completion as observed on 7 July 2017
170707_01	7 Jul 2017	Top and 3 sides of grouting station at Portion 5 shall be maintained to prevent potential dust emission.	The grouting station have been removed	Completion as observed on 13 July 2017
170707_02	7 Jul 2017	Tarpaulin sheet between dredger with grab and the land at portion 5 for transporting soil material shall be properly deployed and maintained.	Tarpaulin sheet was properly maintained.	Completion as observed on 13 July 2017
170713_01	13 Jul 2017	Stockpile at Area B shall be covered when left idle to avoid potential dust impact to nearby sensitive receiver.	Stockpile was sprayed and maintained wet.	Completion as observed on 18 July 2017
170713_02	13 Jul 2017	Dust suppression measure at Portion 5 shall be implemented at regular interval to avoid potential dust impact.	Haul road and dusty surface was sprayed with water	Completion as observed on 18 July 2017
170718_01	18 Jul 2017	Stockpile at Portion 5 shall be stored behind the concrete block to prevent potential runoff to nearby waterbody	Stockpile was stored behind the concrete block and further away from the sea	Completion as observed on 3 August 2017

8.0.7. 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		
de		Silt curtain shall be deployed at the outfall of Culvert L as accordance with the silt curtain deployment plan.	Silt curtain was deployed at the outfall of Culvert L as accordance with the silt curtain deployment plan.	Completion as observed on 11 July 2017		
170711_01	11-Jul-17	Dust suppression measure including frequent water spraying shall be implemented at Zone B	Water sprinkler was installed along the haul road and the haul road was observed wet.	Completion as observed on 18 July 2017		

8.0.8. Site inspections for Contract no. HY/2010/08 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.7.* 



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

Item	Date	Observations	Action taken by Contractor	Completion date
170707_1	7 Jul 2017	Contractor shall critically review the dosage of wastewater treatment unit to ensure the discharge quality fulfill the license requirement (Victoria Park)	The discharge quality was observed to be normal	Completion as observed on 12 July 2017

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



## 9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. Four environmental complaints were received in the reporting month.
- 9.0.2. First 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 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 re-bar fixing works was carried out under Contract HK/2009/02 from 2300hrs to 2330hrs on 26 June 2017 at Portion 5 Bay 15 (Non - Designated Area) top slab area adjacent to the covered walkway of the Wan Chai Ferry Pier. 1 no. of generator was operated at ground level and 2 nos. of generators were operated below ground level from 2300hrs to 2400hrs on 26 June 2017 while 16 electric water pump were operated below ground level at Portion 5 Bay from 2300hrs to 2400hrs on 26 June 2017 and the relevant Construction Noise Permit GW-RS0527-17 for the above operation was in place. However, site record on the model of generators deployed on the concerned night was not available.

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 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 on-site to conduct checking on the deployment of PMEs on-site prior and during restricted hours to ensure only PMEs allowed under relevant Construction Noise Permit would be operated.

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 Construction Noise Permit Compliance. A detailed implementation plan would be prepared by the Contractor of HK/2009/02 and further supplemented.

9.0.3. Second 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 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.

9.0.4. An EPD complaint was referred to the ET on 21 July 2017 (CASE Ref: H05/RS/00022835-17). The complainant reported that mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.

ET confirmed with the Resident Site Staff that unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works. No construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.

According to the RSS site information, unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works and relevant Construction Noise Permit GW-RS0348-17 was in place and noise barrier with surface mass density of not less than 5kg/m2 was provided to the power generating part of the grab dredger operated from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. Meanwhile, no construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.

In view of the public concern, the Contractor of HK/2009/02 was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance and maintain regular maintenance of the plant and equipment deployed to avoid potential nuisance to the nearby public.

9.0.5. 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 implemented for the above construction activities on 25 July 2017 at the concerned location. During Environmental Team ad hoc inspection conducted on 26 July 2017, water spraying was found insufficient to mitigate the extended area of breaking operation and construction dust impact to surroundings public area was observed. Subsequently, Contractor of HK/2009/02 was reminded to enhance the dust suppression measure for the dust generating works.

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.

- 9.0.6. No Notification of Summons and Successful Prosecutions was received in the reporting month.
- 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
Reporting Feriou	No. or complaints
July 2017	4
September 2010 – June 2017	80
Total	84

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 Month

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	Remedial works inside tunnel structure at Mined Tunnel, TS4, TPCWAE and TPCWAW     Reinstatement work at the PRE Office car park area     Re-surfacing work at Hung Hing Road	<ul> <li>Dust control during dust generating activities and covering for stockpile stored on site.</li> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the nearby water.</li> <li>Maintain regular cleaning of floating refuses within construction area.</li> </ul>
HY/2009/18	<ul> <li>Drainage works</li> <li>Road works</li> <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 sheet piling, pre-bored piling and top soil removal works</li> <li>Approach ramp structure Construction.</li> <li>Bridge Construction</li> <li>Pier 30-32 Cap Construction</li> <li>Excavation / Construction of retaining wall</li> <li>FEHD Metal Roof Construction and drainage works</li> <li>Pre-bored H-piles for Approach Ramp Phase 2 Construction</li> <li>Hing Fat Street road and drainage works</li> <li>Oil Street drainage works</li> <li>Installation of skin parapet on TB bridge</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	<ul> <li>Reinstatement of amenity area</li> <li>Road and Drain works</li> </ul>	<ul> <li>Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.</li> <li>Dust control during dust generating works</li> <li>Noise mitigation measures during breaking works</li> </ul>



HK/2009/02	<ul> <li>Rectification works for the defects for the end of maintenance period of Observation Deck and Staircase ST-01.</li> <li>Formwork, rebar fixing and concreting of HHR Flyover Approach Ramp.</li> <li>Ground investigation works for Box Culvert O re-provision.</li> <li>Advance works for removal of D-Wall panel adjacent to temporary reclamation area</li> <li>Remedial works for cross road ducts inside tunnel.</li> <li>Partial lowering of temporary reclamation and removal of Strut S1 (West corner) - TBC</li> <li>Concreting of roadside barrier.</li> <li>Dismantling of scaffolding inside tunnel.</li> <li>Reinstatement of temporary access opening.</li> <li>Breaking of D-Wall panel.</li> <li>Backfilling.</li> <li>Remedial works of tunnel wall, base slab and OHVD inside tunnel.</li> <li>Sewage works at Wan Shing Street.</li> <li>Repair of clay pipe inside WSD Pumping Station</li> <li>Synthetic wood completion inside Works Area B</li> </ul>	<ul> <li>Dust control during dust generating works</li> <li>Proper maintenance boundary surface runoff protection and water treatment facilities to avoid potential runoff related impact.</li> <li>Provision of protection measures to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>
HK/2012/08	<ul> <li>Construction of Slip Road 1</li> <li>Construction of drainage</li> <li>Asphalt paving of A2 Road</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>

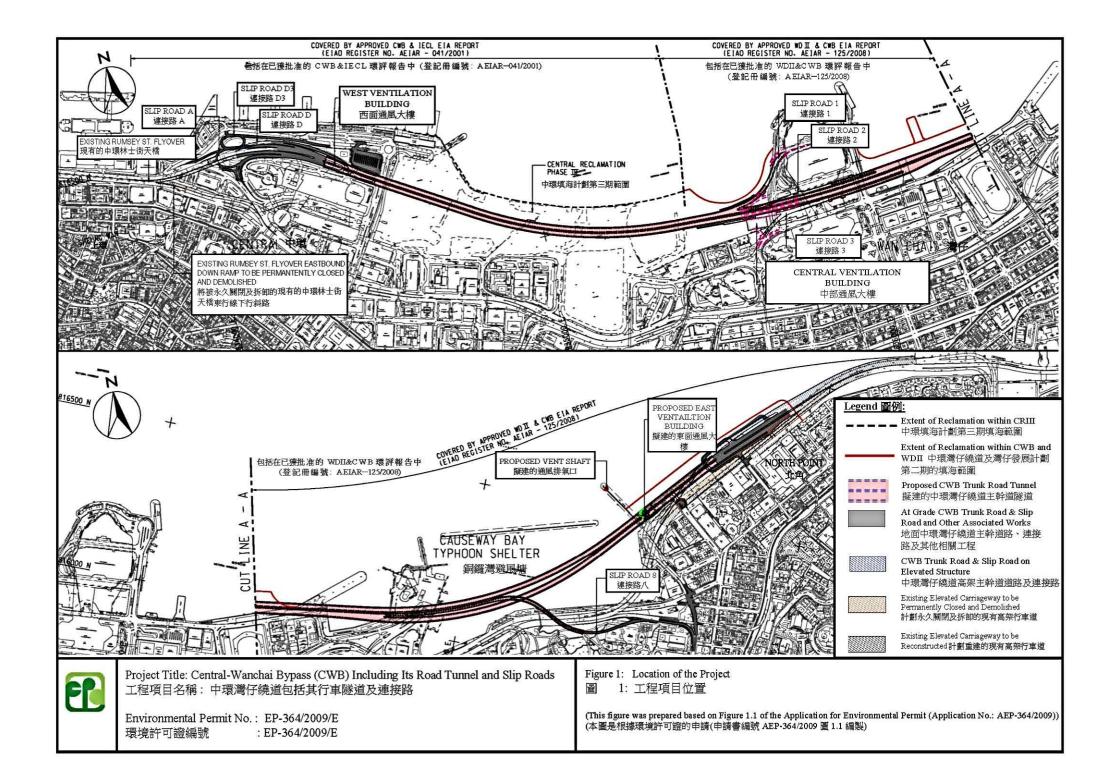


HY/2010/08	<ul> <li>Tree protection works next to existing BGO,</li> <li>Drainage improvement works,</li> <li>Utility diversion works,</li> <li>Retaining wall works</li> <li>ELS works,</li> <li>Construction works for subway extension</li> </ul>	<ul> <li>Dust control during dust generating works and stockpile 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>Construction of Tunnel Thermal         Barrier</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.

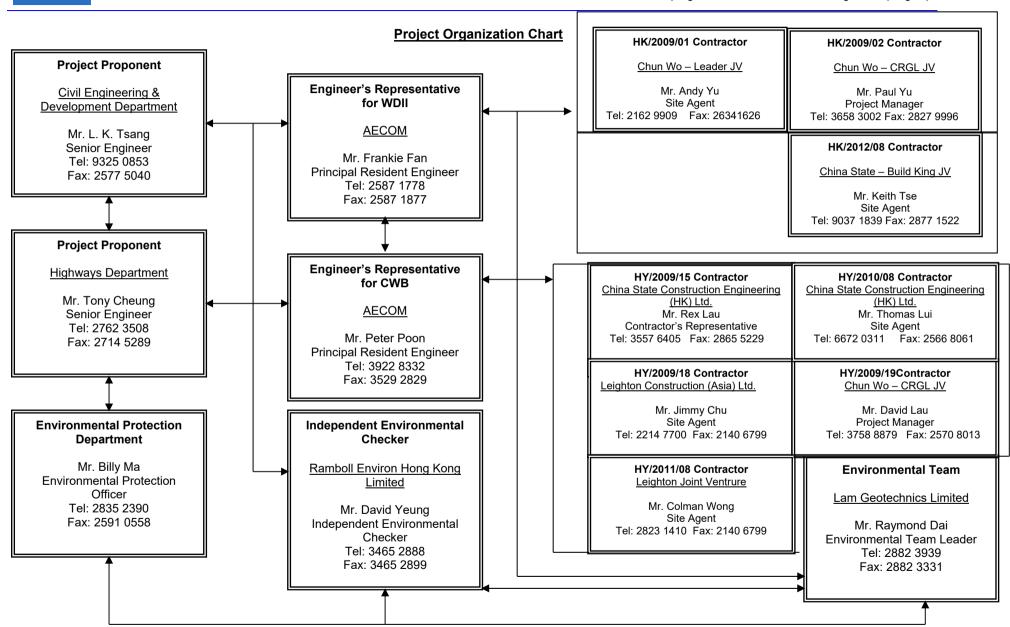
Figure 2.1

Project Layout



# Figure 2.2

**Project Organization Chart** 

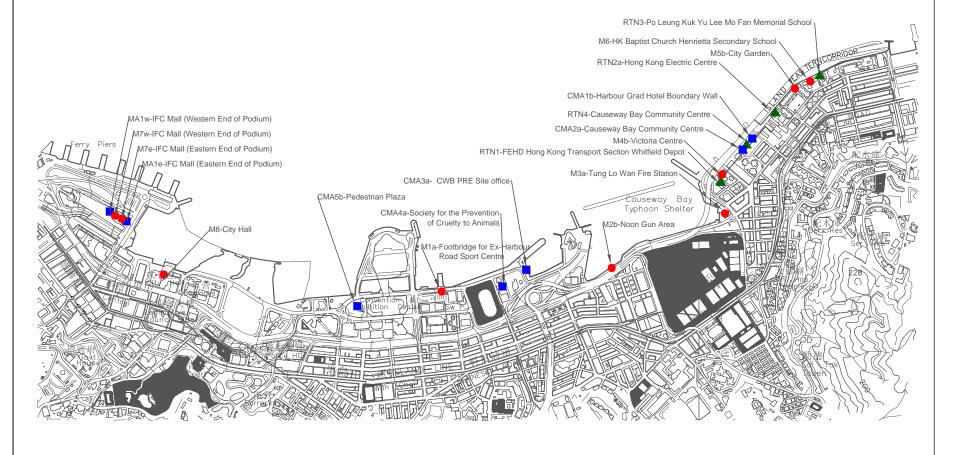


# Figure 4.1

**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	Implementation Stages*		ion	Relevant Legislation	
Report Ref	Environmental Frotection (vicasures / virtigation vicasures	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
Constructio								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		$\sqrt{}$			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	Implementation Stages*  Des C O Dec	Relevant Legislation					
Report Ref	Environmental Protection Measures / Managation Measures	Location / Timing	Agent	Des	C	o	Dec	and Guidelines		
Constructio	n Phase									
S4.9.3	Good Site Practice:	Work Sites / During	Contractor		√			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.						1			
	<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		V			EIAO-TM, NCO		

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	_	_	_	_	-	_	Implementation Stages*		ion	Relevant Legislation
Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing		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	on 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 Frotection 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	Implementation Stages*				Relevant Legislation
Report Ref	Environmental i Totection Measures / Mitigation Measures	Location / Timing	Agent	Des	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	Implementation Stages*				Relevant Legislation
Report Ref	Environmental Protection Measures / Mulgation Measures	Document Timing		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 $^3$	n $\mu$ g/m <sup>3</sup> 24-hour TSP Leve		
	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

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

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0120 1.0078 1.0058 1.0047 0.9993	0.7249 1.0108 1.1288 1.1820 1.4296	1.4257 2.0163 2.2543 2.3643 2.8514		0.9958 0.9916 0.9896 0.9885 0.9832	0.7133 0.9946 1.1107 1.1630 1.4066	0.8784 1.2423 1.3889 1.4567
Qstd slop intercep coefficie	t (b) = ent (r) =	2.02533 -0.03593 0.99983	n e n	Qa slope intercept coefficie	= (b) $=$	1.26823 -0.02214 0.99983
y axis =	SQRT[H2O(	Pa/760)(298/	ra)]	y axis =	SQRT [H20 (7	[a/Pa)]

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

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



Location	:	CMA1b	Calibration Date	:	07-Jun-17
Equipment no.	: _	HVS001	Calibration Due Date		07-Aug-17
				-	

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T <sub>a</sub>	293	Kelvin	Pressure, P <sub>a</sub>	1010	1010 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	$(HxP_a/1013.3x298/T_a)^{1/2}$						
Next Calibration Date	20-Mar-18	$m_c \times Q_{std} + b_c$						

	Calibration of TSP								
Calibration	Maı	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	1.5	1.5	3.0	0.8788	28	28.1919			
2	2.3	2.3	4.6	1.0840	36	36.2467			
3	3.7	3.7	7.4	1.3701	46	46.3152			
4	4.7	4.7	9.4	1.5419	52	52.3563			
5	5.9	5.9	11.8	1.7254	60	60.4112			
By Linear Regression of Y	on X								
	Slope, m	=	37.3	3597 In	tercept, b =	4.6120			

Slope, III	=	31.3391	intercept, b =
orrelation Coefficient*	= _	0.9993	-
Calibration Accepted	=	Yes/ <del>No</del> **	-
	_		-

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 Date Checked by : Pauline Wong

O7-Jun-17

Date : 07-Jun-17

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

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

Pualine Wong

07-Jun-17



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

TESTING		Calibi	ation L	ala IUI I	iigii voi	uille Sali	ipiei (13	or Sampler)	1	
Location	:		CMA2a				Calibrati	on Date	:	07-Jun-17
Equipment no.	:		HVS002				Calibrati	on Due Date	:	07-Aug-17
CALIBRATION O	F CONTIN	IUOUS FL	OW RECO	RDER_						
					Ambient C	ondition				
Temperature, T <sub>a</sub>			303	303 Kelvin <b>Pressure</b> , <b>P</b> <sub>a</sub>			ľ	10	010	mmHg
				Orifice 1	Transfer Sta	ndard Inform	ation			
Equipment	No.		Ori001		Slope, m <sub>c</sub>	2.025	33	Intercept, bc		-0.03593
Last Calibratio	on Date	20-Mar-17			( H	$x P_a / 10$	013.3 x 298 / T	$(\Gamma_a)^{-1/2}$		
Next Calibration	on Date	$m_c x$				$x Q_{std} + b_c$				
					Calibration	n of TSP				
Calibratio	on	Mai	nometer Re	eading	Q <sub>std</sub>		Contir	nuous Flow		IC
Point		н (	(inches of \	water)	(m <sup>3</sup> /	min.)	Recorder, W		(W(P <sub>a</sub> /1013	3.3x298/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	8645	30		:	29.7030
2		2.5	2.5	5.0	1.1	109	39		;	38.6138
3		4.0	4.0	8.0	1.4	1004	47		,	46.5346
4		5.2	5.2	10.4	1.5	5943	53		;	52.4752
5		6.4	6.4	12.8	1.7	7667	60		;	59.4059
By Linear Regress	sion of Y c	on X								
		Slope, m	=	31.8	3963	In:	tercept, b =	2.3	3711	
Cor	rrelation C	oefficient*	=	0.9	982	_				
(	Calibration	Accepted	=	Yes	/No**	_				
* if Correlation Co	efficient <	0.990, che	eck and rec	alibration aga	in.					
** Delete as appro	opriate.									
As p	per client's	provided i	information,	the equipme	nt reference i	no. of the cali	brated High \	/olume Sampler h	as been	
	ssigned fr	om EL449	to HVS002	with respect	to the update	in quality mar	nagement sv	stem.		

Checked by

Date

Jackey MA

07-Jun-17

Calibrated by

Date



Location	:	CMA3a	Calibration Date	:	16-Jun-17
Equipment no.	: _	HVS012	Calibration Due Date	:	16-Aug-17
	_			_	

### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T <sub>a</sub>	302	Kelvin	Pressure, P <sub>a</sub>	100	1005 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		$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$						
Next Calibration Date	20-Mar-18		$m_c \times Q_{std} + b_c$						

Calibration of TSP								
Calibration	Ma	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	0.8053	34	33.6355		
2	2.2	2.2	4.4	1.0423	40	39.5711		
3	3.4	3.4	6.8	1.2915	46	45.5068		
4	4.5	4.5	9.0	1.4831	51	50.4532		
5	5.7	5.7	11.4	1.6669	55	54.4103		

y Linear Regression of Y on X

Slope, m = 24.2490 Intercept, b = 14.2141

Correlation Coefficient\* = 0.9997

Calibration Accepted = Yes/Ne\*\*

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

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-Jun-17
 Date
 : 16-Jun-17

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

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



Location	:	CMA4a	Calibration Date	:	16-Jun-17
Equipment no.	:	HVS004	Calibration Due Date	:	16-Aug-17

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

Ambient Condition							
Temperature, T <sub>a</sub>	302	Kelvin	Pressure, P <sub>a</sub>	1005	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		$(HxP_a/1013.3x298/T_a)^{1/2}$				
Next Calibration Date	20-Mar-18	$m_c \times Q_{std} + b_c$					

	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	1.4	1.4	2.8	0.8351	24	23.7427			
2	2.3	2.3	4.6	1.0654	33	32.6462			
3	3.4	3.4	6.8	1.2915	42	41.5497			
4	4.5	4.5	9.0	1.4831	48	47.4854			
5	5.6	5.6	11.2	1.6524	52	51.4425			
				·					

By Linear	Regression	of	Υ	on	Х
-----------	------------	----	---	----	---

Slope, m = <u>34.4301</u> Intercept, b = <u>-4.1975</u>

Correlation Coefficient\* = 0.9958

Calibration Accepted = Yes/No\*\*

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

Date Date : 16-Jun-17 Date : 16-Jun-17

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

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



Location	:	CMA5b	Calibration Date	:	16-Jun-17
Equipment no.	: [	HVS010	Calibration Due Date		16-Aug-17

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

		Ambient Co	ndition		
Temperature, T <sub>a</sub>	302	Kelvin F	Pressure, P <sub>a</sub>	1005	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	$(HxP_a/1013.3x298/T_a)^{1/2}$						
Next Calibration Date	20-Mar-18		= <i>r</i>	$m_c \times Q_{std} + b_c$				

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	1.4	1.4	2.8	0.8351	36	35.6140	
2	2.2	2.2	4.4	1.0423	42	41.5497	
3	3.5	3.5	7.0	1.3101	50	49.4639	
4	4.5	4.5	9.0	1.4831	56	55.3996	
5	5.6	5.6	11.2	1.6524	61	60.3460	
By Linear Regression of Y on X							
	Slope, m	=	30.4	1653 Ir	ntercept, b = 9	.9483	

Correlation Coefficient\* 0.9996

Calibration Accepted Yes/No\*\*

** Delete as appropriate	**	Delete	as	appro	priate
--------------------------	----	--------	----	-------	--------

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

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

Calibrated by Jackey MA 16-Jun-17 Pauline Wong 16-Jun-17 Checked by Date Date

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



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

Location	:	MA1e	Calibration Date	:	16-Jun-17
Equipment no.	:	HVS007	Calibration Due Date	:	16-Aug-17

## CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T <sub>a</sub>	302	Kelvin	Pressure, P <sub>a</sub>	1005	mmHg

Orifice Transfer Standard Information							
Equipment No.	Ori001	<b>Slope</b> , m <sub>c</sub> 2.02533 <b>Intercept</b> , <b>bc</b> -0.03593					
Last Calibration Date	20-Mar-17	$(HxP_a/1013.3x298/T_a)^{1/2}$					
Next Calibration Date	20-Mar-18	$m_c \times Q_{std} + b_c$					

Calibration of TSP							
Calibration	Mai	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC	
Point	Н (	inches of v	vater)	(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	0.8638	22	21.7641	
2	2.4	2.4	4.8	1.0879	30	29.6784	
3	3.9	3.9	7.8	1.3819	38	37.5926	
4	4.9	4.9	9.8	1.5468	44	43.5283	
5	5.9	5.9	11.8	1.6956	50	49.4639	
By Linear Regression of Y	on X						
	Slope, m	=	32.37	712 In	tercept, b = -6	5.1694	
Correlation C	oefficient*	=	0.99	79			
Calibration	Accepted	=	Yes/	<del>\0</del> **			

* if Correlation Coefficient < 0.99	<ol><li>check and recalibration again.</li></ol>
-------------------------------------	--

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-Jun-17
 16-Jun-17
 : 16-Jun-17



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

Location	:	MA1w	Calibration Date	:	16-Jun-17
Equipment no.	:	HVS008	Calibration Due Date	:	16-Aug-17

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

Ambient Condition							
Temperature, T <sub>a</sub>	302	Kelvin	Pressure, P <sub>a</sub>	1005	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	$(HxP_a/1013.3x298/T_a)^{1/2}$				
Next Calibration Date	20-Mar-18		= <i>m</i> <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 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	0.8638	32	31.6569		
2	2.4	2.4	4.8	1.0879	37	36.6033		
3	3.7	3.7	7.4	1.3465	47	46.4961		
4	4.9	4.9	9.8	1.5468	54	53.4211		
5	6.2	6.2	12.4	1.7378	62	61.3353		
By Linear Regression of Y	on X							
	Slope, m	=	34.43	342 In	tercept, b =	0.5683		
Correlation C	oefficient*	=	0.99	57				
Calibration Accepted		=	Yes/P	lo**				

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

Remarks: 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.

 Calibrated by
 :
 Jackey MA
 Checked by
 :
 Pauline Wong

 Date
 :
 16-Jun-17
 Date
 :
 16-Jun-17



香港 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



# CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0426 01-02

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Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

Larson Davis

PCB

Type/Model No.: Serial/Equipment N LxT1

377B02

Serial/Equipment No.:

0003737

171529

Adaptors used:

-

\_

Item submitted by

Customer Name: Address of Customer:

Lam Environmental Service Ltd.

Request No.:

\_

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:

Serial No.

**Expiry Date:** 

Traceable to:

Signal generator

B&K 4226 DS 360 2288444 61227 18-Jun-2017 01-Apr-2018 CIGISMEC

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity: Air pressure:

50 ± 10 %

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.

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.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

04-May-2017

Company Chop:

SENGINE COMPSI 综合試验 有限公司。 57/05 \* 'OT'

H<del>uang Jiar Min/</del>Feng Jun Qi

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.CARP152-1/Issue 1/Rev.C/01/02/2007



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# CERTIFICATE OF CALIBRATION

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Certificate No.:

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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	
3	C	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leg	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	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	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 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	

3, Response to associated sound calibrator

N/A

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

- End

Lai Sheng Jie Date: 28-Apr-2017 Checked by:

Fung Chi Yip
Date: 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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Calibrated by:

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.:

17CA0221 02

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Item tested

Description: Manufacturer:

Sound Level Meter (Type 1) **B&K** 

2250-L

2701778

Microphone **B&K** 4950

Preamp **B&K** ZC0032

Type/Model No.: Serial/Equipment No .: Adaptors used:

2755097

19223

Item submitted by

Customer Name: Address of Customer: Lam Geotechnics Limited

Request No.:

Date of receipt:

22-Feb-2017

Date of test:

02-Mar-2017

## Reference equipment used in the calibration

Description:

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 %

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 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.

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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.:

17CA0221 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.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	Α	Dana	0.0	
ocii-generated noise	C	Pass	0.3	
		Pass	0.8	
Line a site on a section	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 1/10 <sup>3</sup> 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	
		. 500	0.7	

#### 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.

			Expanded	Coverage	
Test:	Subtest	Status	Uncertanity (dB)	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:

 $\gamma$ 

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.

Fnd

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



# CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0320 02

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Item tested

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

Microphone **B&K** 

Preamp B & K

Type/Model No.: Serial/Equipment No.: 2250-1 2722310

4950 2698702

18-Apr-2017

ZC0032 13318

Adaptors used:

Item submitted by Customer Name:

Lam Geotechnics Ltd.

Address of Customer:

Request No.:

20-Mar-2017

Date of receipt:

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

DS 360

DS 360

Serial No. 2288444

61227

**Expiry Date:** 18-Jun-2017 33873 18-Apr-2017

Traceable to:

CIGISMEC CEPREI CEPREI

## Ambient conditions

Temperature:

Relative humidity:

21 ± 1 °C 60 ± 10 %

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.
- 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 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.

hin/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Huang Jian

Approved Signatory:

Date:

24-Mar-2017

Company Chop:

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 Soils & Materials Engineering Co., Ltd

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



香港黃竹坑道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

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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.

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	A	Pass	0.3	
con generated noise	C	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leg	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	
. requeries meignange	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
·····g	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	
·····g·····g··	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz		100-00-00	
Dulas range	2. S. Day on Block address (see a control of the control of th	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	

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:

End

Checked by:

Hung Chi Yip

Date:

Lai Sheng Jie 23-Mar-2017

Date:

24-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.:

17CA0505 01

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Item tested

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

Microphone **B&K** 4950

Preamp **B&K** ZC0032

Type/Model No.: Serial/Equipment No.: Adaptors used:

2250-L 2722311

2698703

13321

Item submitted by

Customer Name:

Lam Geotechnics Ltd.

Address of Customer:

Request No .:

05-May-2017

Date of receipt:

Date of test:

06-May-2017

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226 Serial No.

**Expiry Date:** 

Traceable to:

Signal generator

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

/ Heng Jungi

Actual Measurement data are documented on worksheets

Approved Signatory:

Date:

09-May-2017

Company Chop:

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.CARP152-1/Issue 1/Rev.C/01/02/2007



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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	Α	Dane	0.0	
och-generated noise	Ĉ	Pass	0.3	
	Lin	Pass	0.8	
Linearity renge for Lea		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 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
e averaging	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	36 (3643)		
Pulse range		Pass	0.3	
· ·	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

#### 2. Acoustic tests

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

Test:	Subtest	Status	Expanded 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:

Date:

Lai Sheng Jie 06-May-2017 Checked by:

Date:

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



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## CERTIFICATE OF CALIBRATION

Certificate No.:

17CA0119 01

2250-L

3002695

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Item tested

Description: Manufacturer: Type/Model No.:

Sound Level Meter (Type 1) **B&K** 

Microphone **B&K** 4950 2940839

Preamp **B&K** ZC0032 18582

Serial/Equipment No.: Adaptors used:

Lam Geotechnics Limited

Customer Name: Address of Customer:

Item submitted by

Request No.:

Date of receipt:

19-Jan-2017

Date of test:

20-Jan-2017

#### Reference equipment used in the calibration

Description: 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:

21 ± 1 °C 40 ± 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.

Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Huana Jia

Approved Signatory:

Date:

23-Jan-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.

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# CERTIFICATE OF CALIBRATION

(Continuation Page)

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
1631.	Subtest.	Status.	Officertainty (ub)	1 actor
Self-generated noise	Α	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	
	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	

#### 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:

V

End

Checked by:

Lam Tze Wai

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



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# CERTIFICATE OF CALIBRATION

Certificate No.:

16CA1117 01-02

Page:

of

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Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Rion Co., Ltd. NC-73

Type/Model No.: Serial/Equipment No.:

NC-73 10707358

Adaptors used:

-

Item submitted by

Curstomer:

Lam Geotechnics Ltd.

Address of Customer:

-

Request No.: Date of receipt:

17-Nov-2016

Date of test:

18-Nov-2016

#### Reference equipment used in the calibration

Description: Lab standard microphone Preamplifier Measuring amplifier	Model:	Serial No.	Expiry Date:	Traceable to:
	B&K 4180	2412857	14-Apr-2017	SCL
	B&K 2673	2239857	28-Apr-2017	CEPREI
	B&K 2610	2346941	26-Apr-2017	CEPREI
Signal generator	DS 360	61227	18-Apr-2017	CEPREI
Digital multi-meter	34401A	US36087050	18-Apr-2017	CEPREI
Audio analyzer	8903B	GB41300350	19-Apr-2017	CEPREI
Universal counter	53132A	MY40003662	19-Apr-2017	CEPREI

## Ambient conditions

Temperature:

23 ± 1 °C

Relative humidity:

50 ± 10 %

Air pressure:

1005 ± 5 hPa

#### Test specifications

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

#### **Test results**

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 Jian

Approved Signatory:

Date:

21-Nov-2016

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.:

16CA1117 01-02

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#### 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.

(Output level in dB re 20 μPa) Frequency Output Sound Pressure Measured Output Estimated Expanded Shown Level Setting Sound Pressure Level Uncertainty Hz dB dB dB 1000 94.00 94.12 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 = 0.002 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 = 991.6 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 = 0.6 %

Estimated expanded uncertainty

0.7 %

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

Calibrated by:

End

Date:

Fung Chi Yir

18-Nov-2016

Checked by:

Date:

Lam Tze Wai 21-Nov-2016

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.CARP156-2/Issue 1/Rev C/01/05/2005

# Calibration Certificate

Certificate Number 2016009653

Customer:

**CAL200** Procedure Number D0001.8386 Model Number Scott Montgomery 13437 Technician Serial Number Calibration Date 2 Nov 2016 **Pass** Test Results Calibration Due As Manufactured Initial Condition 25 °C ± 0.3 °C Temperature Larson Davis CAL200 Acoustic Calibrator 28 %RH ±3 %RH Humidity Description 101.2 kPa ± 1 kPa Static Pressure

**Evaluation Method** 

The data is aquired by the insert voltage calibration method using the reference microphone's open

circuit sensitivity. Data reported in dB re 20 µPa.

Compliance Standards

Compliant to Manufacturer Specifications per D0001.8190 and the following standards:

IEC 60942:2003

ANSI S1.40-2006

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

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

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

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	Standards Use	<b>d</b>	
Description	Cal Date	Cal Due	Cal Standard
Agilent 34401A DMM	09/07/2016	09/07/2017	001021
Sound Level Meter / Real Time Analyzer	04/07/2016	04/07/2017	001051
Microphone Calibration System	08/17/2016	08/17/2017	005446
1/2" Preamplifier	10/06/2016	10/06/2017	006506
Larson Davis 1/2" Preamplifier 7-pin LEMO	08/22/2016	08/22/2017	006507
1/2 inch Microphone - RI - 200V	03/15/2016	03/15/2017	006510
Pressure Transducer	07/01/2016	07/01/2017	007368

Larson Davis, a division of PCB Piezotronics, Inc 1681 West 820 North Provo, UT 84601, United States 716-684-0001







#### Certificate Number 2016009653

## **Output Level**

Nominal Level [dB]	Pressure [kPa]	Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
94	101.2	94.01	93.80	94.20	0.14	Pass
114	101.5	114.01	113.80	114.20	0.13	Pass

# Frequency

Nominal Level [dB]	Pressure [kPa]	Test Result [Hz]	Lower limit [Hz]	Upper limit [Hz]	Expanded Uncertainty [Hz]	Result
94	101.2	1,000.15	990.00	1,010.00	0.20	Pass
114	101.5	1,000.11	990.00	1,010.00	0.20	Pass
			End of measureme	nt results		

# **Total Harmonic Distortion + Noise (THD+N)**

Nominal Level	Pressure	Test Result	Lower limit	Upper limit	Expanded Uncertainty	
[dB]	[kPa]	[%]	[%]	[%]	[%]	Result
94	101.2	0.69	0.00	2.00	0.25	Pass
114	101.5	0.38	0.00	2.00	0.25	Pass

# **Level Change Over Pressure**

Tested at: 114 dB, 22 °C, 33 %RH

Nominal Pressure [kPa]	Pressure [kPa]	Test Result [dB]	Lower limit [dB]	Upper limit [dB]	Expanded Uncertainty [dB]	Result
101.3	101.3	0.00	-0.30	0.30	0.04 ‡	Pass
92.0	91.5	0.00	-0.30	0.30	0.04 ‡	Pass
108.0	107.8	-0.01	-0.30	0.30	0.04 ‡	Pass
33.0	83.1	-0.02	-0.30	0.30	0.04 ‡	Pass
4.0	73.9	-0.08	-0.30	0.30	0.04 ‡	Pass
35.0	64.9	-0.17	-0.30	0.30	0.04 ±	Pass

<sup>--</sup> End of measurement results--

# Frequency Change Over Pressure

Tested at: 114 dB, 22 °C, 33 %RH

Nominal Pressure kPa]	Pressure [kPa]	Test Result [Hz]	Lower limit [Hz]	Upper limit [Hz]	Expanded Uncertainty [Hz]	Result
0.80	107.8	0.00	-10.00	10.00	0.20 ‡	Pass
01.3	101.3	0.00	-10.00	10.00	0.20 ‡	Pass
2.0	91.5	0.00	-10.00	10.00	0.20 ‡	Pass
3.0	83.1	-0.01	-10.00	10.00	0.20 ‡	Pass
4.0	73.9	-0.01	-10.00	10.00	0.20 ‡	Pass
5.0	64.9	-0.01	-10.00	10.00	0.20 ±	Pass

Larson Davis, a division of PCB Piezotronics, Inc 1681 West 820 North Provo, UT 84601, United States 716-684-0001







Page 2 of 3 D0001.8410 Rev A

#### Certificate Number 2016009653

# Total Harmonic Distortion + Noise (THD+N) Over Pressure

Tested at: 114 dB, 22 °C, 33 %RH

Nominal Pressure [kPa]	Pressure [kPa]	Test Result	Lower limit [%]	Upper limit [%]	Expanded Uncertainty [%]	Result
83.0	83.1	0.40	0.00	2.00	0.25 ‡	Pass
108.0	107.8	0.36	0.00	2.00	0.25 ‡	Pass
101.3	101.3	0.37	0.00	2.00	0.25 ‡	Pass
92.0	91.5	0.39	0.00	2.00	0.25 ‡	Pass
74.0	73.9	0.43	0.00	2.00	0.25 ‡	Pass
65.0	64.9	0.47	0.00	2.00	0.25 ‡	Pass

-- End of measurement results--

Signatory: Scott Montgomery

Larson Davis, a division of PCB Piezotronics, Inc 1681 West 820 North Provo, UT 84601, United States 716-684-0001





# 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 July 2017

				July 2017			
Sunday	Monday	Tuesday		Wednesday	Thursday	Friday	Saturday
				28-Jun	29-Jun	i 30-Jun	1-Jul
					24hr TSP	1hr TSP	
2-Ju	1	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul
	1hr TSP (CMA5b) 24hr TSP (CMA5b) Noise (daytime) (M7e)	Noise (daytime) (M3a,M4b,M5b,M6,M7w)		24hr TSP	1hr TSP Noise (daytime) (M2b)	Noise (daytime) (M1a,M8)	
9-Ju	ı	10-Jul 1	11-Jul	12-Ju	13-Jul	I 14-Jul	15-Jul
	Noise (daytime) (M2b,M7e,M7w,M8)	24hr TSP			Noise (daytime) (M1a,M3a,M4b,M5b,M6)		
16-Ju	l	17-Jul 1	18-Jul	19-Ju	20-Jul	I 21-Jul	22-Jul
	24hr TSP	24hr (CMA1b) 1hr TSP Noise (daytime) (M7e,M7w,M6)				Noise (daytime) (M2b,M3a,M4b,M5b)	24hr TSP
23-Ju	I	24-Jul 2	25-Jul	26-Ju			
	24hr (CMA1b) 1hr TSP Noise (daytime) (M7e,M7w,M8)	Noise (daytime) (M3a,M4b,M5b,M6)		Noise (daytime) (M1a,M2b)			

#### 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 August 2017

		T	August 2017					
Monday	Tuesday		Wednesday	Thursday	27 Jul	Friday	Saturday	29-Ji
					z/-Jui	28-Jul		∠ <del>9</del> -JI
					24hr TSP		1hr TSP	
	31-Jul	1-Aug	2-Aug		3-Aug	4-Aug		5-Au
Noise (daytime)	Noise (daytime)			24hr TSP	1hr TSP			
	7-Aug	8-Aug	9-Aug		10-Aug	11-Aug		12-Au
Noise (daytime)	Noise (daytime)		24hr TSP	1hr TSP				
	14-Aug	15-Aug	16-Aug		17-Aug	18-Aug		19-Au
Noise (daytime)	24hr TSP Noise (daytime)		1hr TSP				24hr TSP	
	21-Aug	22-Aug	23-Aug		24-Aug	25-Aug		26-Au
24hr TSP Noise (daytime)	1hr TSP Noise (daytime)							
	Noise (daytime)  Noise (daytime)	Noise (daytime)  7-Aug  Noise (daytime)  14-Aug  Noise (daytime)  24hr TSP Noise (daytime)  21-Aug	Noise (daytime)  7-Aug  Noise (daytime)  14-Aug  Noise (daytime)  14-Aug  15-Aug  Noise (daytime)  24hr TSP Noise (daytime)	Noise (daytime)   1-Aug   2-Aug	Noise (daytime)   Noise (daytime)   24hr TSP   24hr TSP	27-Jul   24hr TSP	27-Jul   28-Jul   27-Jul   28-Jul   2	27-Jul 28-Jul 28

# 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 Noi	se Level	Baseline Level	Construction Noise Level	Limit Level			
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq			
				Unit: dB(A), (30-min)							
7/7/2017	10:35	Cloudy	87.4	93.0	75.4	72	87	75			
13/7/2017	09:35	Fine	79.3	80.9	76.7	72	78	75			
20/7/2017	10:20	Fine	83.8	88.3	77.4	72	83	75			
26/7/2017	09:50	Fine	85.2	87.3	81.7	72	85	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: df	3(A), (30-min)	
6/7/2017	15:50	Cloudy	70.2	73.5	66.7	68	67	75
10/7/2017	11:00	Fine	68.7	70.3	66.5	68	62	75
21/7/2017	13:05	Fine	68.5	70.1	66.4	68	61	75
26/7/2017	15:20	Fine	68.2	69.5	66.1	68	59	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: dl	B(A), (30-min)	
4	1/7/2017	09:45	Cloudy	67.5	69.3	64.9	69	68	75
13	3/7/2017	13:50	Fine	65.1	66.7	62.9	69	65	75
2	1/7/2017	10:05	Fine	65.9	67.4	64.0	69	66	75
25	5/7/2017	08:45	Fine	65.3	67.7	62.3	69	65	75

Location: M4b - Victoria Centre

			Measur	ement Noi:	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dE	B(A), (30min)	
4/7/2017	08:55	Cloudy	65.8	66.9	64.4	67	66	75
13/7/2017	14:35	Fine	66.9	67.8	64.6	67	67	75
21/7/2017	10:50	Fine	71.0	74.9	65.3	67	69	75
25/7/2017	09:30	Fine	66.3	67.6	64.8	67	66	75

Location: M5b - City Garden

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq		
				Unit: dB(A), (30min)						
4/7/2017	10:45	Cloudy	72.9	74.0	71.2	68	71	75		
13/7/2017	15:15	Fine	72.6	73.5	71.5	68	71	75		
21/7/2017	14:00	Fine	74.0	75.7	70.8	68	73	75		
25/7/2017	14:25	Fine	75.1	78.1	71.1	68	74	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
						Unit: di	3(A), (30-min)	
4/7/2017	11:30	Cloudy	66.5	67.9	64.8	71	67	70
13/7/2017	15:55	Fine	65.9	66.7	65.0	71	66	70
18/7/2017	10:00	Cloudy	65.7	68.2	62.6	71	66	65
25/7/2017	15:00	Fine	67.0	68.3	64.9	71	67	70



#### 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
				45   672   62		Unit: dE	3(A), (30-min)	
3/7/2017	10:15	Cloudy	64.5	67.3	63.1	67	65	N/A
10/7/2017	13:55	Fine	68.1	70.0	64.9	67	62	N/A
18/7/2017	14:05	Cloudy	69.8	72.4	65.9	67	67	N/A
24/7/2017	14:05	Fine	70.5	73.1	67.1	67	68	N/A

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

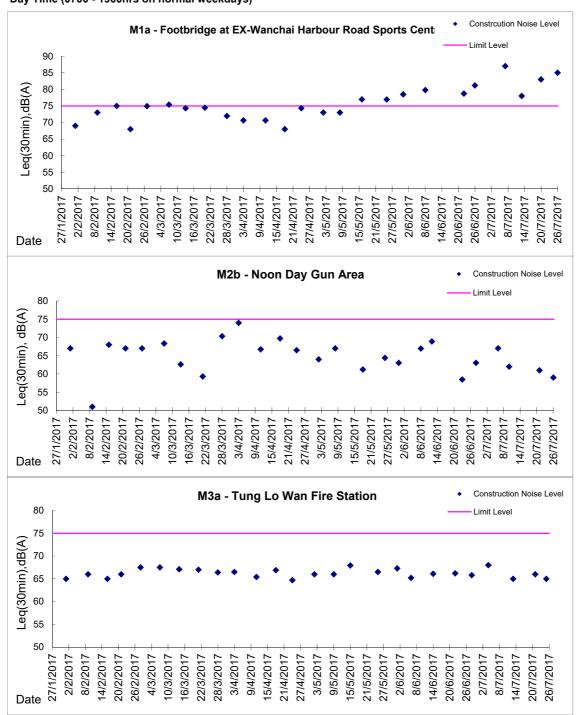
Ī				Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
	Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
l							Unit: dE	B(A), (30-min)	
Ī	4/7/2017	15:30	Cloudy	65.5	67.0	63.2	69	66	75
ſ	10/7/2017	14:30	Fine	66.7	68.5	64.2	69	67	75
	18/7/2017	14:40	Cloudy	65.7	67.7	62.4	69	66	75
ſ	24/7/2017	14:40	Fine	66.7	68.7	63.8	69	67	75

Location: M8 - City Hall

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dl	B(A), (30-min)	
7/7/2017	09:50	Cloudy	59.3	61.1	56.6	64	59	70
10/7/2017	15:25	Fine	58.2	60.3	55.4	64	58	70
19/7/2017	10:40	Fine	59.8	62.3	56.2	64	60	70
24/7/2017	15:55	Fine	61.3	63.4	57.5	64	61	70

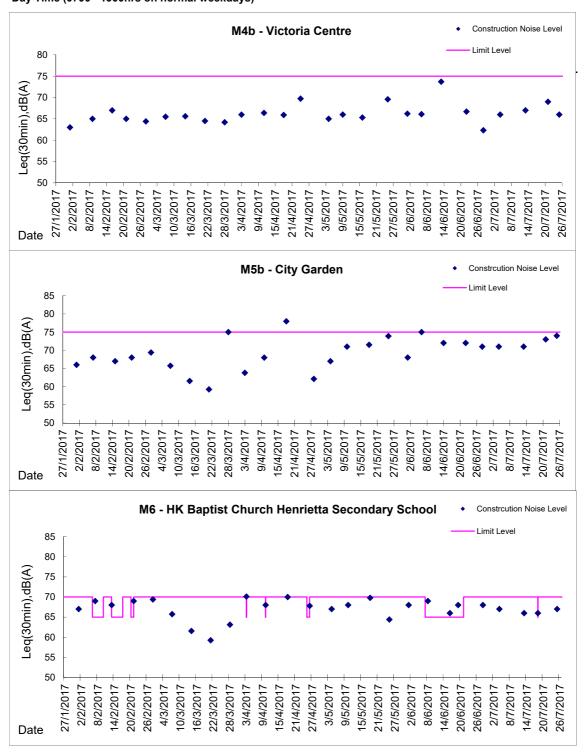


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)



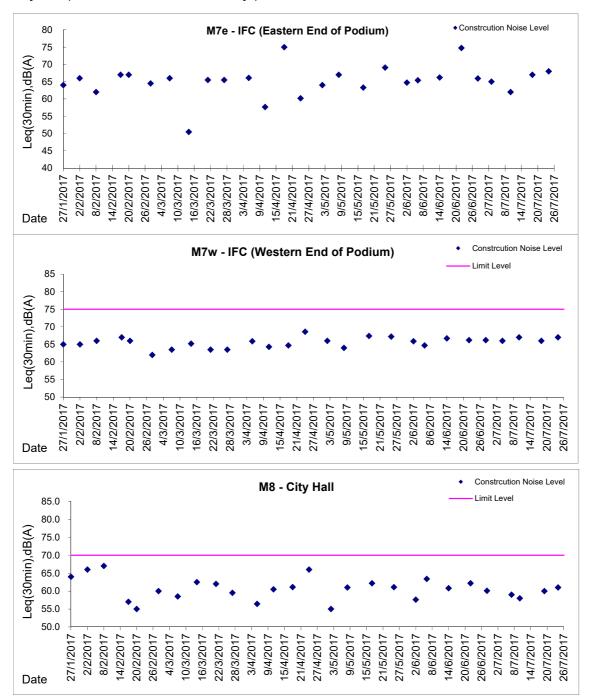


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





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

1.09

1.10

1.09

1.09

1.10

1.09

24.00

TSP Level,

 $\mu g/m^3$ 

54.3

44.6

64.8

38.6

30.2

1572

1579

1571

1.09

1.10

1.09



11-Jul-17

18-Jul-17

Location: CMA1b - Harbour Grand Hotel Boundary Wall

Fine

Rainy

21414

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

Limit Level (  $\mu$  g/m3) - 260 Date Filter paper Filter Weight, g Elapse Time, hr Sampling Sampling Weather Flow Rate, m3/min Total no. Time Condition Initial Initial Initial, Qsi Final, Q<sub>sf</sub> Final Final Time, hr Average Volume, m 2.9537 10171.03 10195.03 1718 29-Jun-17 8:00 Fine 21128 2.8605 24.00 1.19 1.19 1.19 2.8492 21212 21242 5-Jul-17 10198.03 10222.03 24.00 24.00 8:00 Cloudy 2.9260 1.20 1.20 1.20 1723

24-Jul-17 16:10 Cloudy 21448 2.8221 2.8695 10294.63 10318.63 24.00 Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 17 and 22 Jul 2017 to 18 and 24 Jul 2017 respectively

2.8840

2.9854

2.9449

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

8:00

14:46

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	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
30-Jun-17	9:30	Fine	21174	2.8642	2.8765	10195.03	10196.03	1.00	1.19	1.19	1.19	72	172.0
30-Jun-17	13:00	Fine	21213	2.8265	2.8338	10196.03	10197.03	1.00	1.19	1.19	1.19	72	102.1
30-Jun-17	14:05	Fine	21180	2.8518	2.8723	10197.03	10198.03	1.00	1.19	1.19	1.19	72	286.6
6-Jul-17	8:50	Cloudy	21203	2.8479	2.8528	10222.03	10223.03	1.00	1.20	1.20	1.20	72	68.2
6-Jul-17	10:45	Cloudy	21199	2.8333	2.8407	10223.03	10224.03	1.00	1.20	1.20	1.20	72	103.0
6-Jul-17	13:05	Cloudy	21354	2.8628	2.8661	10224.03	10225.03	1.00	1.20	1.20	1.20	72	45.9
12-Jul-17	9:20	Fine	21380	2.8851	2.8898	10249.03	10250.03	1.00	1.09	1.09	1.09	66	71.7
12-Jul-17	11:00	Fine	21319	2.8770	2.8803	10250.03	10251.03	1.00	1.09	1.09	1.09	66	50.4
12-Jul-17	13:00	Fine	21336	2.8817	2.8895	10251.03	10252.03	1.00	1.09	1.09	1.09	66	119.1
18-Jul-17	8:06	Rainy	21421	2.8550	2.8577	10264.63	10265.63	1.00	1.20	1.20	1.20	72	37.5
18-Jul-17	9:35	Rainy	21340	2.8818	2.8856	10265.63	10266.63	1.00	1.20	1.20	1.20	72	52.8
18-Jul-17	13:00	Rainy	21409	2.8810	2.8861	10266.63	10267.63	1.00	1.20	1.20	1.20	72	70.8
24-Jul-17	9:05	Cloudy	21465	2.8439	2.8485	10291.63	10292.63	1.00	1.19	1.19	1.19	72	64.2
24-Jul-17	10:20	Cloudy	21471	2.8543	2.8589	10292.63	10293.63	1.00	1.19	1.19	1.19	72	64.2
24-Jul-17	13:00	Cloudy	21456	2.8357	2.8392	10293.63	10294.63	1.00	1.19	1.19	1.19	72	48.8

10225.03 10249.03

10267.63 10291.63



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 169.5 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	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-Jun-17	8:00	Fine	21127	2.8352	2.8527	19774.18	19798.18	24.00	1.06	1.06	1.06	1525	11.5
5-Jul-17	8:00	Cloudy	21168	2.8067	2.8327	19801.19	19825.19	24.00	1.06	1.06	1.06	1531	17.0
11-Jul-17	8:00	Fine	21356	2.8782	2.9132	19828.19	19852.19	24.00	1.06	1.06	1.06	1526	22.9
17-Jul-17	8:00	Rainy	21391	2.9178	2.9370	19855.19	19879.19	24.00	1.07	1.07	1.07	1536	12.5
22-Jul-17	8:00	Cloudy	21415	2.8594	2.9038	19882.19	19906.19	24.00	1.06	1.06	1.06	1528	29.0

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	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
30-Jun-17	8:55	Fine	21171	2.8556	2.8571	19798.19	19799.19	1.00	1.06	1.06	1.06	63	23.6
30-Jun-17	10:00	Fine	21170	2.8209	2.8220	19799.19	19800.19	1.00	1.06	1.06	1.06	63	17.3
30-Jun-17	13:00	Fine	21169	2.8115	2.8130	19800.19	19801.19	1.00	1.06	1.06	1.06	63	23.6
6-Jul-17	8:45	Cloudy	21204	2.8539	2.8556	19825.19	19826.19	1.00	1.06	1.06	1.06	64	26.6
6-Jul-17	10:50	Cloudy	21351	2.8965	2.8986	19826.19	19827.19	1.00	1.06	1.06	1.06	64	32.9
6-Jul-17	13:00	Cloudy	21353	2.8846	2.8857	19827.19	19828.19	1.00	1.06	1.06	1.06	64	17.2
12-Jul-17	9:15	Fine	21229	2.8953	2.8965	19852.19	19853.19	1.00	1.06	1.06	1.06	64	18.9
12-Jul-17	11:00	Fine	21384	2.8892	2.8915	19853.19	19854.19	1.00	1.06	1.06	1.06	64	36.2
12-Jul-17	13:00	Fine	21313	2.8872	2.8892	19854.19	19855.19	1.00	1.06	1.06	1.06	64	31.4
18-Jul-17	8:05	Rainy	21399	2.8860	2.8876	19879.19	19880.19	1.00	1.07	1.07	1.07	64	25.0
18-Jul-17	9:30	Rainy	21402	2.8739	2.8763	19880.19	19881.19	1.00	1.07	1.07	1.07	64	37.5
18-Jul-17	13:00	Rainy	21408	2.8707	2.8736	19881.19	19882.19	1.00	1.07	1.07	1.07	64	45.3
24-Jul-17	9:00	Cloudy	21472	2.8626	2.8638	19906.19	19907.19	1.00	1.06	1.06	1.06	64	18.9
24-Jul-17	10:25	Cloudy	21470	2.8490	2.8505	19907.19	19908.19	1.00	1.06	1.06	1.06	64	23.6
24-Jul-17	13:00	Cloudy	21431	2.8283	2.8294	19908.19	19909.19	1.00	1.06	1.06	1.06	64	17.3



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 171 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	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-Jun-17	8:00	Fine	21027	2.9005	2.9353	7265.85	7289.85	24.00	1.06	1.06	1.06	1528	22.8
5-Jul-17	8:00	Cloudy	21181	2.8527	2.8955	7292.86	7316.86	24.00	1.07	1.07	1.07	1537	27.9
11-Jul-17	8:00	Fine	21355	2.8897	2.9276	7319.86	7343.86	24.00	1.06	1.06	1.06	1530	24.8
17-Jul-17	8:00	Rainy	21328	2.8916	2.9288	7346.86	7370.86	24.00	1.07	1.07	1.07	1544	24.1
22-Jul-17	8:00	Cloudy	20875	2.8601	2.8967	7373.89	7397.89	24.00	0.99	0.99	0.99	1420	25.8

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
30-Jun-17	9:15	Fine	21037	2.9027	2.9043	7289.86	7290.86	1.00	1.06	1.06	1.06	64	25.1
30-Jun-17	11:00	Fine	21214	2.8376	2.8391	7290.86	7291.86	1.00	1.06	1.06	1.06	64	23.6
30-Jun-17	13:50	Fine	21193	2.8495	2.8513	7291.86	7292.86	1.00	1.06	1.06	1.06	64	28.3
6-Jul-17	8:35	Cloudy	21205	2.8395	2.8413	7316.86	7317.86	1.00	1.07	1.07	1.07	64	28.1
6-Jul-17	10:05	Cloudy	21200	2.8482	2.8511	7317.86	7318.86	1.00	1.07	1.07	1.07	64	45.3
6-Jul-17	13:00	Cloudy	21232	2.8846	2.8857	7318.86	7319.86	1.00	1.07	1.07	1.07	64	17.2
12-Jul-17	9:00	Fine	21231	2.8964	2.8991	7343.86	7344.86	1.00	1.06	1.06	1.06	64	42.3
12-Jul-17	10:50	Fine	21320	2.8709	2.8723	7344.86	7345.86	1.00	1.06	1.06	1.06	64	22.0
12-Jul-17	13:00	Fine	21314	2.8945	2.8975	7345.86	7346.86	1.00	1.06	1.06	1.06	64	47.0
18-Jul-17	9:15	Rainy	21339	2.9016	2.9031	7370.89	7371.89	1.00	1.07	1.07	1.07	64	23.3
18-Jul-17	10:50	Rainy	21406	2.8759	2.8782	7371.89	7372.89	1.00	1.07	1.07	1.07	64	35.7
18-Jul-17	13:49	Rainy	20874	2.8458	2.8516	7372.89	7373.89	1.00	1.07	1.07	1.07	64	90.1
24-Jul-17	9:10	Cloudy	20876	2.8628	2.8659	7397.89	7398.89	1.00	1.06	1.06	1.06	64	48.6
24-Jul-17	10:20	Cloudy	20877	2.8742	2.8770	7398.89	7399.89	1.00	1.06	1.06	1.06	64	43.9
24-Jul-17	13:00	Cloudy	21457	2.8362	2.8384	7399.89	7400.89	1.00	1.06	1.06	1.06	64	34.5



Location: CMA4a - SPCA

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

Date	Sampling	Weather	Filter paper	Filter Weigh	t, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	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-Jun-17	8:00	Fine	21026	2.8907	2.9208	24063.28	24087.28	24.00	1.17	1.17	1.17	1687	17.8
5-Jul-17	8:00	Cloudy	21032	2.9056	2.9334	24090.28	24114.28	24.00	1.17	1.18	1.18	1693	16.4
11-Jul-17	8:00	Fine	21260	2.8939	2.9253	24119.62	24143.62	24.00	1.17	1.17	1.17	1688	18.6
17-Jul-17	8:00	Rainy	21329	2.8821	2.9013	24146.62	24170.62	24.00	1.18	1.18	1.18	1697	11.3
22-Jul-17	8:00	Cloudy	21256	2.8991	2.9218	24173.62	24197.62	24.00	1.17	1.17	1.17	1691	13.4

Report on 1-hour TSP monitoring
Action Level (µg/m3) - 312.5
Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	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>
30-Jun-17	8:45	Fine	21035	2.8996	2.9010	24087.28	24088.28	1.00	1.17	1.17	1.17	70	19.9
30-Jun-17	9:50	Fine	21034	2.9134	2.9143	24088.28	24089.28	1.00	1.23	1.23	1.23	74	12.2
30-Jun-17	13:00	Fine	21033	2.9031	2.9062	24089.28	24090.28	1.00	1.23	1.23	1.23	74	42.1
6-Jul-17	8:30	Cloudy	21206	2.8659	2.8677	24114.28	24115.28	1.00	1.18	1.18	1.18	71	25.5
6-Jul-17	9:40	Cloudy	21350	2.8897	2.8915	24115.28	24116.28	1.00	1.23	1.23	1.23	74	24.4
6-Jul-17	15:40	Cloudy	21262	2.8716	2.8727	24117.62	24118.62	1.00	1.23	1.23	1.23	74	14.9
12-Jul-17	8:55	Fine	21230	2.8917	2.8929	24143.62	24144.62	1.00	1.20	1.20	1.20	72	16.7
12-Jul-17	10:50	Fine	21383	2.8761	2.8774	24144.62	24145.62	1.00	1.17	1.23	1.20	72	18.0
12-Jul-17	13:00	Fine	21234	2.9017	2.9030	24145.62	24146.62	1.00	1.17	1.17	1.17	70	18.5
18-Jul-17	9:10	Rainy	21338	2.8808	2.8823	24170.62	24171.62	1.00	1.23	1.23	1.23	74	20.2
18-Jul-17	10:45	Rainy	21341	2.8952	2.8975	24171.62	24172.62	1.00	1.23	1.23	1.23	74	31.0
18-Jul-17	13:37	Rainy	21257	2.9018	2.9089	24172.62	24173.62	1.00	1.23	1.23	1.23	74	95.8
24-Jul-17	9:03	Cloudy	21254	2.9070	2.9084	24197.62	24198.62	1.00	1.17	1.17	1.17	70	19.9
24-Jul-17	10:10	Cloudy	21253	2.9033	2.9042	24198.62	24199.62	1.00	1.17	1.17	1.17	70	12.8
24-Jul-17	13:37	Cloudy	21430	2.8567	2.8577	24199.62	24200.62	1.00	1.17	1.17	1.17	70	14.2



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 paper	Filter Weigh	t, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	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
3-Jul-17	14:05	Cloudy	21208	2.8656	2.9205	8642.73	8666.73	24.00	0.86	0.86	0.86	1242	44.2
5-Jul-17	8:00	Cloudy	21191	2.8562	2.9059	8666.73	8690.73	24.00	0.86	0.86	0.86	1244	39.9
11-Jul-17	8:00	Fine	21105	2.8931	2.9800	8693.88	8717.88	24.00	0.86	0.86	0.86	1239	70.1
17-Jul-17	8:00	Rainy	21331	2.8765	2.9238	8720.88	8744.88	24.00	0.87	0.87	0.87	1250	37.9
22-Jul-17	8:00	Cloudy	21255	2.8734	2.9805	8747.88	8771.88	24.00	0.86	0.86	0.86	1238	86.5

Remarks: Due to blockage of access, the 24hr TSP was rescheduled from 29 June 2017 to 3 July 2017.

Report on 1-hour TSP monitoring Action Level (µg/m3) - 332 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	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
3-Jul-17	9:25	Cloudy	21207	2.8696	2.8731	8639.73	8640.73	1.00	0.86	0.86	0.86	52	67.8
3-Jul-17	10:30	Cloudy	21210	2.8620	2.8645	8640.73	8641.73	1.00	0.86	0.86	0.86	52	48.5
3-Jul-17	13:00	Cloudy	21209	2.8193	2.8213	8641.73	8642.73	1.00	0.86	0.86	0.86	52	38.8
6-Jul-17	8:05	Cloudy	21226	2.8733	2.8762	8690.73	8691.73	1.00	0.86	0.86	0.86	52	55.9
6-Jul-17	9:10	Cloudy	21305	2.8569	2.8600	8691.73	8692.73	1.00	0.86	0.86	0.86	52	59.8
6-Jul-17	11:00	Cloudy	21352	2.9050	2.9077	8692.73	8693.73	1.00	0.86	0.86	0.86	52	52.0
12-Jul-17	8:02	Fine	21238	2.8708	2.8770	8717.88	8718.88	1.00	0.86	0.86	0.86	52	120.0
12-Jul-17	9:45	Fine	21326	2.8972	2.9063	8718.88	8719.88	1.00	0.86	0.86	0.86	52	176.1
12-Jul-17	13:00	Fine	21318	2.8767	2.8856	8719.88	8720.88	1.00	0.86	0.86	0.86	52	172.3
18-Jul-17	8:50	Rainy	21400	2.8847	2.8866	8744.88	8745.88	1.00	0.87	0.93	0.90	54	35.2
18-Jul-17	10:30	Rainy	21405	2.8634	2.8672	8745.88	8746.88	1.00	0.87	0.87	0.87	52	72.9
18-Jul-17	13:00	Rainy	21343	2.8823	2.8904	8746.88	8747.88	1.00	0.87	0.87	0.87	52	155.5
24-Jul-17	8:02	Cloudy	21462	2.8294	2.8330	8771.88	8772.88	1.00	0.86	0.86	0.86	52	69.6
24-Jul-17	10:20	Cloudy	21467	2.8376	2.8455	8772.88	8773.88	1.00	0.86	0.86	0.86	52	152.8
24-Jul-17	15:00	Cloudy	21432	2.8581	2.8670	8773.88	8774.88	1.00	0.86	0.86	0.86	52	172.1

Remarks: Due to blockage of access, the 1hr TSP was rescheduled from 30 June 2017 to 3 July 2017.



Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring
Action Level (µg/m3) - 173.4
Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time, hr		Sampling	Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	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-Jun-17	8:00	Fine	21041	2.8995	2.9309	20971.99	20995.99	24.00	1.31	1.31	1.31	1882	16.7
5-Jul-17	8:00	Cloudy	21211	2.8364	2.8586	20998.99	21022.99	24.00	1.31	1.31	1.31	1888	11.8
11-Jul-17	8:00	Fine	20854	2.8666	2.9007	21025.99	21049.99	24.00	1.43	1.43	1.43	2053	16.6
17-Jul-17	8:00	Rainy	21388	2.8807	2.9004	21052.99	21076.99	24.00	1.31	1.32	1.31	1893	10.4
22-Jul-17	8:00	Cloudy	21311	2.8817	2.9301	21079.99	21103.99	24.00	1.43	1.43	1.43	2056	23.5

Report on 1-hour TSP monitoring Action Level ( $\mu$ g/m3) - 325.1 Limit Level ( $\mu$ g/m3) - 500

			Filter paper										
Date Sampling Weather		Weather				Elapse Time, hr		Sampling	Flow Rate, m <sup>3</sup> /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>
30-Jun-17	8:30	Fine	21038	2.8806	2.8862	20995.99	20996.99	1.00	1.39	1.39	1.39	84	66.9
30-Jun-17	10:50	Fine	21112	2.8945	2.8962	20996.99	20997.99	1.00	1.31	1.31	1.31	78	21.7
30-Jun-17	13:00	Fine	21111	2.8664	2.8680	20997.99	20998.99	1.00	1.31	1.31	1.31	78	20.4
6-Jul-17	8:42	Cloudy	21121	2.8571	2.8585	21022.99	21023.99	1.00	1.31	1.31	1.31	79	17.8
6-Jul-17	9:50	Cloudy	21118	2.8945	2.8971	21023.99	21024.99	1.00	1.31	1.31	1.31	79	33.0
6-Jul-17	10:54	Cloudy	20857	2.8701	2.8752	21024.99	21025.99	1.00	1.43	1.43	1.43	86	59.5
12-Jul-17	8:35	Fine	21235	2.8818	2.8830	21049.99	21050.99	1.00	1.31	1.31	1.31	78	15.3
12-Jul-17	10:30	Fine	21382	2.8973	2.8982	21050.99	21051.99	1.00	1.37	1.37	1.37	82	11.0
12-Jul-17	13:00	Fine	21358	2.8906	2.8922	21051.99	21052.99	1.00	1.31	1.31	1.31	78	20.4
18-Jul-17	8:35	Rainy	21287	2.8534	2.8545	21076.99	21077.99	1.00	1.32	1.43	1.37	82	13.3
18-Jul-17	9:41	Rainy	21290	2.8732	2.8744	21077.99	21078.99	1.00	1.43	1.43	1.43	86	14.0
18-Jul-17	10:46	Rainy	21310	2.8710	2.8730	21078.99	21079.99	1.00	1.43	1.43	1.43	86	23.3
24-Jul-17	8:25	Cloudy	21564	2.8259	2.8282	21103.99	21104.99	1.00	1.43	1.43	1.43	86	26.9
24-Jul-17	10:55	Cloudy	21429	2.8642	2.8659	21104.99	21105.99	1.00	1.43	1.43	1.43	86	19.9
24-Jul-17	14:10	Cloudy	21455	2.8648	2.8664	21105.99	21106.99	1.00	1.43	1.43	1.43	86	18.7



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring

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

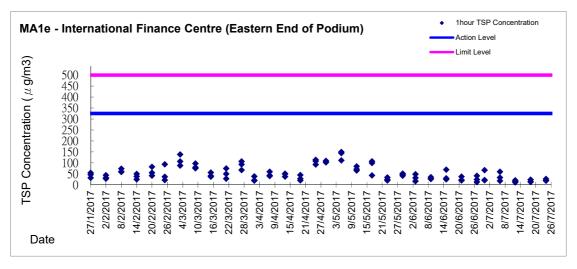
	Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time, hr		Sampling	Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
		Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
Ī	29-Jun-17	8:00	Fine	21039	2.8729	2.9297	20737.94	20761.94	24.00	1.09	1.09	1.09	1567	36.2
	5-Jul-17	8:00	Cloudy	21215	2.8510	2.8938	20764.94	20788.94	24.00	1.04	1.04	1.04	1493	28.7
	11-Jul-17	8:00	Fine	20855	2.8701	2.9037	20791.94	20815.94	24.00	1.03	1.03	1.03	1489	22.6
	17-Jul-17	8:00	Rainy	21387	2.8715	2.9052	20818.94	20842.94	24.00	1.04	1.04	1.04	1498	22.5
	22-Jul-17	8:00	Cloudy	21312	2.8914	2.9474	20845.94	20869.94	24.00	1.03	1.04	1.04	1491	37.6

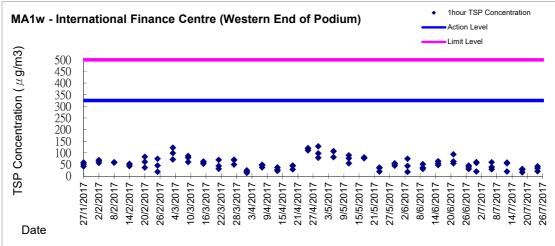
Report on 1-hour TSP monitoring
Action Level (μg/m3) - 325.1 Limit Level (µg/m3) -500

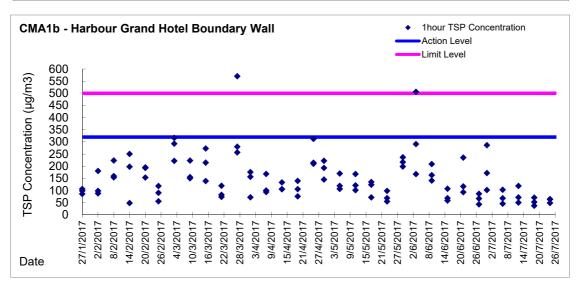
Date	Sampling	Weather	Filter paper	Filter Weigh	Filter Weight, g		e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
30-Jun-17	8:35	Fine	21110	2.9158	2.9195	20761.94	20762.94	1.00	1.03	1.03	1.03	62	59.7
30-Jun-17	13:00	Fine	21217	2.8543	2.8555	20762.94	20763.94	1.00	1.03	1.03	1.03	62	19.4
30-Jun-17	15:00	Fine	21216	2.8442	2.8477	20763.94	20764.94	1.00	1.03	1.03	1.03	62	56.5
6-Jul-17	8:37	Cloudy	21122	2.8400	2.8418	20788.94	20789.94	1.00	1.04	1.04	1.04	62	28.9
6-Jul-17	9:42	Cloudy	21119	2.8894	2.8918	20789.94	20790.94	1.00	1.04	1.04	1.04	62	38.6
6-Jul-17	10:45	Cloudy	20858	2.8597	2.8634	20790.94	20791.94	1.00	1.04	1.04	1.04	62	59.4
12-Jul-17	8:40	Fine	21234	2.8629	2.8663	20815.94	20816.94	1.00	1.03	1.03	1.03	62	54.8
12-Jul-17	10:35	Fine	21381	2.8943	2.8955	20816.94	20817.94	1.00	1.03	1.03	1.03	62	19.3
12-Jul-17	13:00	Fine	21386	2.8920	2.8956	20817.94	20818.94	1.00	1.03	1.03	1.03	62	58.0
18-Jul-17	8:27	Rainy	21286	2.8667	2.8677	20842.94	20843.94	1.00	1.04	1.04	1.04	62	16.0
18-Jul-17	9:32	Rainy	21289	2.8915	2.8932	20843.94	20844.94	1.00	1.04	1.04	1.04	62	27.2
18-Jul-17	10:36	Rainy	21292	2.8628	2.8647	20844.94	20845.94	1.00	1.04	1.04	1.04	62	30.4
24-Jul-17	8:30	Cloudy	21463	2.8251	2.8272	20869.94	20870.94	1.00	1.03	1.03	1.03	62	33.8
24-Jul-17	11:00	Cloudy	21428	2.8587	2.8600	20870.94	20871.94	1.00	1.03	1.03	1.03	62	20.9
24-Jul-17	14:20	Cloudy	21454	2.8605	2.8631	20871.94	20872.94	1.00	1.03	1.03	1.03	62	41.9



**Graphic Presentation of 1 hour TSP Result** 

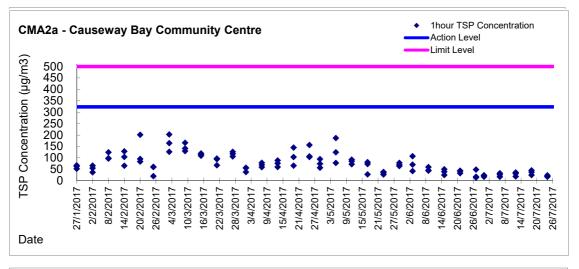


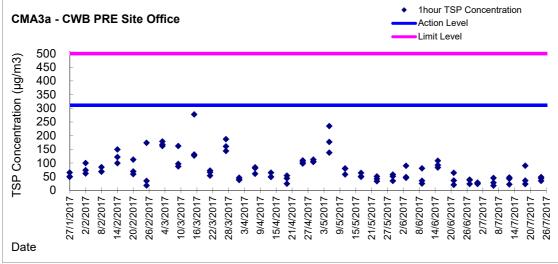


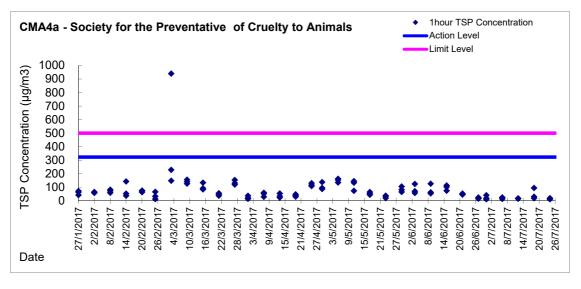




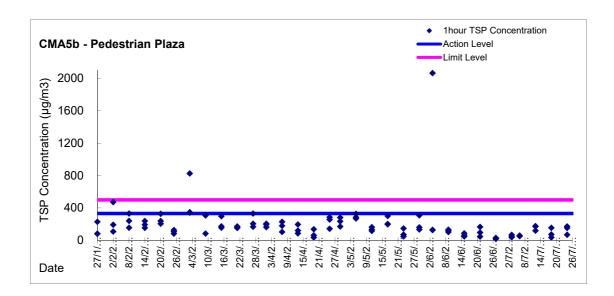
**Graphic Presentation of 1 hour TSP Result** 



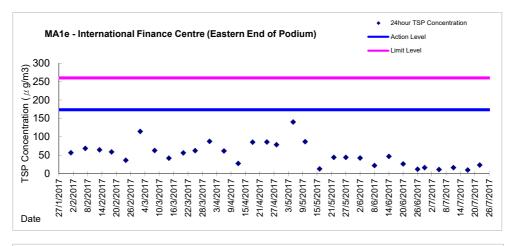


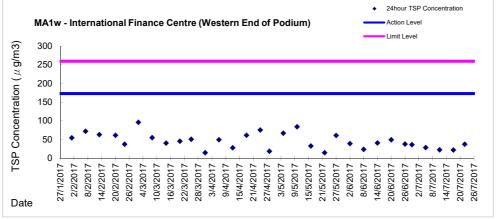


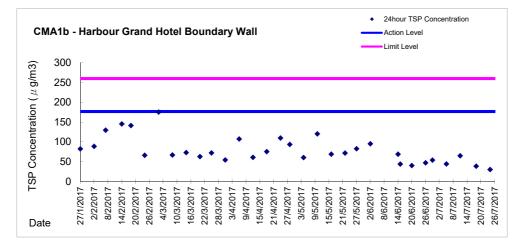
**Graphic Presentation of 1 hour TSP Result** 



**Graphic Presentation of 24 hour TSP Result** 

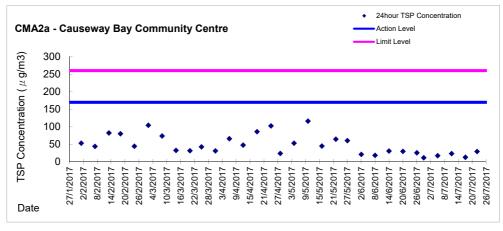


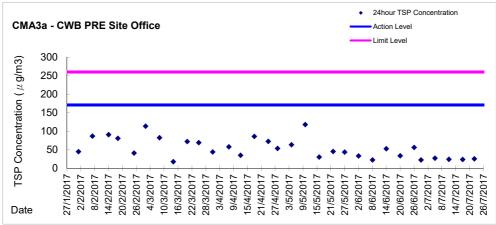


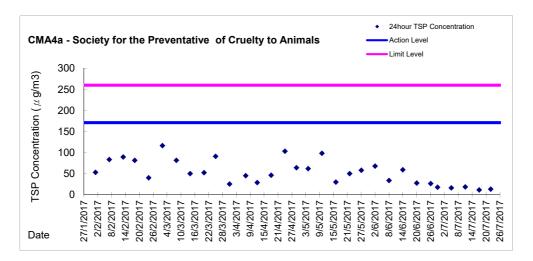




**Graphic Presentation of 24 hour TSP Result** 

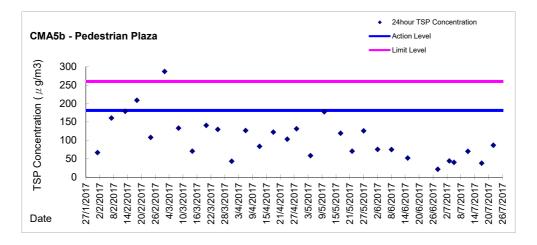








**Graphic Presentation of 24 hour TSP Result** 



## Appendix 5.4

Real Time Noise Monitoring Results and Graphical Presentations

Dool time Naise Date	DTN4 /Food and Environmental I	huriana Danadmant Danat			
Real-time Noise Data Normal Day 07:00-19:00	RTN1 (Food and Environmental F 3/7/2017 12:31 71	8/7/2017 7:01 67	13/7/2017 13:31 70	19/7/2017 8:01 69	24/7/2017 14:31 71
27/6/2017 7:01 68	3/7/2017 13:01 72	8/7/2017 7:31 69	13/7/2017 14:01 70	19/7/2017 8:31 68	24/7/2017 15:01 70
	3/7/2017 13:31 71	8/7/2017 8:01 70	13/7/2017 14:31 70	19/7/2017 9:01 68	24/7/2017 15:31 70
27/6/2017 7:31 69	3/7/2017 14:01 71	8/7/2017 8:31 70	13/7/2017 15:01 70	19/7/2017 9:31 70	24/7/2017 16:01 71
27/6/2017 8:01 70	3/7/2017 14:31 70	8/7/2017 9:01 70	13/7/2017 15:31 70	19/7/2017 10:01 69	24/7/2017 16:31 72
27/6/2017 8:31 69	3/7/2017 15:01 69	8/7/2017 9:31 71	13/7/2017 16:01 70	19/7/2017 10:31 69	24/7/2017 17:01 70
27/6/2017 9:01 69	3/7/2017 15:31 69	8/7/2017 10:01 71	13/7/2017 16:31 70	19/7/2017 11:01 69	24/7/2017 17:31 71
27/6/2017 9:31 69	3/7/2017 16:01 69	8/7/2017 10:31 70	13/7/2017 17:01 70	19/7/2017 11:31 68	24/7/2017 18:01 71
27/6/2017 10:01 69	3/7/2017 16:31 70	8/7/2017 11:01 70	13/7/2017 17:31 70	19/7/2017 12:01 66	24/7/2017 18:31 71
27/6/2017 10:31 69	3/7/2017 17:01 71	8/7/2017 11:31 69	13/7/2017 17:31 70	19/7/2017 12:31 64	25/7/2017 7:01 68
27/6/2017 11:01 69	3/7/2017 17:31 70	8/7/2017 12:01 70	13/7/2017 18:31 70	19/7/2017 13:01 66	25/7/2017 7:31 70
27/6/2017 11:31 68	3/7/2017 18:01 70	8/7/2017 12:31 69	14/7/2017 7:01 68	19/7/2017 13:31 68	25/7/2017 8:01 69
27/6/2017 11:31 68	3/7/2017 18:31 71	8/7/2017 13:01 69	14/7/2017 7:31 69	19/7/2017 13:31 06	25/7/2017 8:31 69
27/6/2017 12:31 69	4/7/2017 7:01 70	8/7/2017 13:31 69	14/7/2017 8:01 69	19/7/2017 14:31 70	25/7/2017 9:01 68
27/6/2017 13:01 69	4/7/2017 7:31 70	8/7/2017 14:01 68	14/7/2017 8:31 68	19/7/2017 15:01 70	25/7/2017 9:31 69
27/6/2017 13:31 70	4/7/2017 7:31 70	8/7/2017 14:31 68	14/7/2017 8.31 68	19/7/2017 15:31 69	25/7/2017 9.31 09 25/7/2017 10:01 70
27/6/2017 14:01 70	4/7/2017 8:31 71	8/7/2017 15:01 69	14/7/2017 9:31 69	19/7/2017 16:01 70	25/7/2017 10:31 70
27/6/2017 14:31 70	4/7/2017 9:01 68	8/7/2017 15:31 71		19/7/2017 16:31 70	25/7/2017 11:01 71
27/6/2017 15:01 70	4/7/2017 9:31 69	8/7/2017 16:01 71	14/7/2017 10:01 70 14/7/2017 10:31 70	19/7/2017 16:31 70 19/7/2017 17:01 70	25/7/2017 11:01 71 25/7/2017 11:31 70
27/6/2017 15:31 70	4/7/2017 10:01 70	8/7/2017 16:31 70 8/7/2017 17:01 71	14/7/2017 11:01 70	19/7/2017 17:31 70	25/7/2017 12:01 69
27/6/2017 16:01 70	4/7/2017 10:31 71	8/7/2017 17:01 71	14/7/2017 11:31 70	19/7/2017 18:01 70	25/7/2017 12:31 70
27/6/2017 16:31 70	4/7/2017 11:01 70	8/7/2017 17:31 71	14/7/2017 12:01 70	19/7/2017 18:31 69	25/7/2017 13:01 71
27/6/2017 17:01 70	4/7/2017 11:31 69	8/7/2017 18:01 71	14/7/2017 12:31 69	20/7/2017 7:01 67	25/7/2017 13:31 71
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28/6/2017 9:31 69	4/7/2017 16:01 68	10/7/2017 10:31 70	14/7/2017 17:01 70	20/7/2017 11:31 69	25/7/2017 18:01 71
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	5/7/2017 7:31 70	10/7/2017 14:01 70	15/7/2017 8:31 70	20/7/2017 15:01 67	26/7/2017 9:31 69
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29/6/2017 9:01 69	5/7/2017 15:31 71	11/7/2017 10:01 70	15/7/2017 16:31 66	21/7/2017 11:01 71	26/7/2017 17:31 70
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29/6/2017 10:01 70	5/7/2017 16:31 71	11/7/2017 11:01 61	15/7/2017 17:31 72	21/7/2017 12:01 70	26/7/2017 18:31 70
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29/6/2017 11:01 70	5/7/2017 17:31 72	11/7/2017 12:01 69	15/7/2017 18:31 70	21/7/2017 13:01 71	Normal Day 19:00-23:00,
29/6/2017 11:31 70	5/7/2017 18:01 70	11/7/2017 12:31 69	17/7/2017 7:01 70	21/7/2017 13:31 71	Sunday & Holiday
29/6/2017 12:01 69	5/7/2017 18:31 69	11/7/2017 13:01 70	17/7/2017 7:31 71	21/7/2017 14:01 71	07:00-23:00
29/6/2017 12:31 70	6/7/2017 7:01 69	11/7/2017 13:31 70	17/7/2017 8:01 71	21/7/2017 14:31 70	27/6/2017 19:01 51
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29/6/2017 14:01 70	6/7/2017 8:31 69	11/7/2017 15:01 70	17/7/2017 9:31 71	21/7/2017 16:01 71	27/6/2017 19:11 55
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29/6/2017 15:01 70	6/7/2017 9:31 70	11/7/2017 16:01 70	17/7/2017 10:31 70	21/7/2017 17:01 70	27/6/2017 19:21 53
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29/6/2017 18:01 69	6/7/2017 12:31 69	12/7/2017 7:01 67	17/7/2017 13:31 72	22/7/2017 8:01 70	27/6/2017 19:51 69
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30/6/2017 9:31 69	6/7/2017 16:01 72	12/7/2017 10:31 70	17/7/2017 17:01 71	22/7/2017 11:31 68	27/6/2017 20:26 68
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30/6/2017 10:31 70	6/7/2017 17:01 71	12/7/2017 11:31 69	17/7/2017 18:01 72	22/7/2017 12:31 69	27/6/2017 20:36 68
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30/6/2017 11:31 69	6/7/2017 18:01 71	12/7/2017 12:31 69	18/7/2017 7:01 72	22/7/2017 13:31 71	27/6/2017 20:46 68
30/6/2017 12:01 69	6/7/2017 18:31 70	12/7/2017 13:01 70	18/7/2017 7:31 70	22/7/2017 14:01 71	27/6/2017 20:51 68
30/6/2017 12:31 69	7/7/2017 7:01 68	12/7/2017 13:31 70	18/7/2017 8:01 69	22/7/2017 14:31 69	27/6/2017 20:56 67
30/6/2017 13:01 69	7/7/2017 7:31 69	12/7/2017 14:01 70	18/7/2017 8:31 69	22/7/2017 15:01 70	27/6/2017 21:01 68
30/6/2017 13:31 70	7/7/2017 8:01 69	12/7/2017 14:31 70	18/7/2017 9:01 70	22/7/2017 15:31 70	27/6/2017 21:06 68
30/6/2017 14:01 70	7/7/2017 8:31 69	12/7/2017 15:01 71	18/7/2017 9:31 70	22/7/2017 16:01 70	27/6/2017 21:11 67
30/6/2017 14:31 70	7/7/2017 9:01 70	12/7/2017 15:31 70	18/7/2017 10:01 71	22/7/2017 16:31 69	27/6/2017 21:16 67
30/6/2017 15:01 70	7/7/2017 9:31 71	12/7/2017 16:01 70	18/7/2017 10:31 71	22/7/2017 17:01 70	27/6/2017 21:21 67
30/6/2017 15:31 69	7/7/2017 10:01 71	12/7/2017 16:31 71	18/7/2017 11:01 70	22/7/2017 17:31 71	27/6/2017 21:26 67
30/6/2017 16:01 70	7/7/2017 10:31 70	12/7/2017 17:01 70	18/7/2017 11:31 70	22/7/2017 18:01 70	27/6/2017 21:31 67
30/6/2017 16:31 70	7/7/2017 11:01 70	12/7/2017 17:31 70	18/7/2017 12:01 70	22/7/2017 18:31 70	27/6/2017 21:36 67
30/6/2017 17:01 70	7/7/2017 11:01 70 7/7/2017 11:31 69	12/7/2017 18:01 70	18/7/2017 12:31 70	24/7/2017 7:01 69	27/6/2017 21:36 67 27/6/2017 21:41 67
30/6/2017 17:31 70	7/7/2017 12:01 69	12/7/2017 18:31 69	18/7/2017 13:01 70	24/7/2017 7:31 70	27/6/2017 21:46 67
30/6/2017 18:01 70	7/7/2017 12:31 69	13/7/2017 7:01 68	18/7/2017 13:31 71	24/7/2017 8:01 70	27/6/2017 21:51 67
30/6/2017 18:31 70	7/7/2017 13:01 67	13/7/2017 7:31 69	18/7/2017 14:01 70	24/7/2017 8:31 70	27/6/2017 21:56 68
3/7/2017 7:01 68	7/7/2017 13:31 72	13/7/2017 8:01 69	18/7/2017 14:31 70	24/7/2017 9:01 71	27/6/2017 22:01 68
3/7/2017 7:31 70	7/7/2017 14:01 70	13/7/2017 8:31 69	18/7/2017 15:01 71	24/7/2017 9:31 72	27/6/2017 22:06 67
3/7/2017 8:01 69	7/7/2017 14:31 70	13/7/2017 9:01 69	18/7/2017 15:31 70	24/7/2017 10:01 72	27/6/2017 22:11 67
3/7/2017 8:31 69	7/7/2017 15:01 71	13/7/2017 9:31 70	18/7/2017 16:01 72	24/7/2017 10:31 71	27/6/2017 22:16 67
3/7/2017 9:01 69	7/7/2017 15:31 70	13/7/2017 10:01 69	18/7/2017 16:31 71	24/7/2017 11:01 71	27/6/2017 22:21 68
3/7/2017 9:31 69	7/7/2017 16:01 69	13/7/2017 10:31 70	18/7/2017 17:01 73	24/7/2017 11:31 69	27/6/2017 22:26 67
3/7/2017 10:01 70	7/7/2017 16:31 69	13/7/2017 11:01 69	18/7/2017 17:31 69	24/7/2017 12:01 67	27/6/2017 22:31 68
3/7/2017 10:31 71	7/7/2017 17:01 71	13/7/2017 11:31 69	18/7/2017 18:01 72	24/7/2017 12:31 68	27/6/2017 22:36 67
3/7/2017 11:01 71	7/7/2017 17:31 70	13/7/2017 12:01 70	18/7/2017 18:31 72	24/7/2017 13:01 71	27/6/2017 22:41 67
3/7/2017 11:31 70	7/7/2017 18:01 71	13/7/2017 12:31 69	19/7/2017 7:01 68	24/7/2017 13:31 71	27/6/2017 22:46 67
3/7/2017 12:01 71	7/7/2017 18:31 71	13/7/2017 13:01 70	19/7/2017 7:31 69	24/7/2017 14:01 70	27/6/2017 22:51 67

D 10 N D	DTN4 (5 ) 15 :				
Real-time Noise Data 27/6/2017 22:56 67	RTN1 (Food and Environmental F 30/6/2017 20:01 69	1/7/2017 13:06 67	1/7/2017 22:11 67	2/7/2017 15:16 68	3/7/2017 20:21 67
28/6/2017 19:01 69	30/6/2017 20:06 67	1/7/2017 13:11 67	1/7/2017 22:16 67	2/7/2017 15:21 68	3/7/2017 20:26 67
28/6/2017 19:06 68	30/6/2017 20:11 68	1/7/2017 13:16 67	1/7/2017 22:21 67	2/7/2017 15:26 68	3/7/2017 20:31 68
28/6/2017 19:11 69	30/6/2017 20:16 67	1/7/2017 13:21 67	1/7/2017 22:26 67	2/7/2017 15:31 68	3/7/2017 20:36 68
28/6/2017 19:16 69	30/6/2017 20:21 67	1/7/2017 13:26 68	1/7/2017 22:31 67	2/7/2017 15:36 68	3/7/2017 20:41 67
28/6/2017 19:21 47	30/6/2017 20:26 67	1/7/2017 13:31 67	1/7/2017 22:36 67	2/7/2017 15:41 67	3/7/2017 20:46 67
28/6/2017 19:26 69	30/6/2017 20:31 67	1/7/2017 13:36 67	1/7/2017 22:41 67	2/7/2017 15:46 68	3/7/2017 20:51 68
28/6/2017 19:31 69	30/6/2017 20:36 67	1/7/2017 13:41 68	1/7/2017 22:46 67	2/7/2017 15:51 51	3/7/2017 20:56 68
28/6/2017 19:36 69	30/6/2017 20:41 68	1/7/2017 13:46 68	1/7/2017 22:51 67	2/7/2017 15:56 69	3/7/2017 21:01 67
28/6/2017 19:41 68	30/6/2017 20:46 67	1/7/2017 13:51 68	1/7/2017 22:56 66	2/7/2017 16:01 58	3/7/2017 21:06 68
28/6/2017 19:46 68	30/6/2017 20:51 67	1/7/2017 13:56 68	2/7/2017 7:01 66	2/7/2017 16:06 69	3/7/2017 21:11 67
28/6/2017 19:51 68	30/6/2017 20:56 67	1/7/2017 14:01 68	2/7/2017 7:06 67	2/7/2017 16:11 69	3/7/2017 21:16 68
28/6/2017 19:56 67	30/6/2017 21:01 68	1/7/2017 14:06 68	2/7/2017 7:11 67	2/7/2017 16:16 60	3/7/2017 21:21 67
28/6/2017 20:01 67	30/6/2017 21:06 67	1/7/2017 14:11 67	2/7/2017 7:16 67	2/7/2017 16:21 70	3/7/2017 21:26 68
28/6/2017 20:06 67	30/6/2017 21:11 67	1/7/2017 14:16 68	2/7/2017 7:21 67	2/7/2017 16:26 65	3/7/2017 21:31 67
28/6/2017 20:11 67	30/6/2017 21:16 67	1/7/2017 14:21 68	2/7/2017 7:26 67	2/7/2017 16:31 64	3/7/2017 21:36 67
28/6/2017 20:16 67	30/6/2017 21:21 67	1/7/2017 14:26 68	2/7/2017 7:31 67	2/7/2017 16:36 69	3/7/2017 21:41 68
28/6/2017 20:21 67	30/6/2017 21:26 67	1/7/2017 14:31 68	2/7/2017 7:36 67	2/7/2017 16:41 69	3/7/2017 21:46 68
28/6/2017 20:26 67	30/6/2017 21:31 67	1/7/2017 14:36 68	2/7/2017 7:41 67	2/7/2017 16:46 69	3/7/2017 21:51 67
28/6/2017 20:31 67	30/6/2017 21:36 67	1/7/2017 14:41 68	2/7/2017 7:46 67	2/7/2017 16:51 64	3/7/2017 21:56 68
28/6/2017 20:36 67	30/6/2017 21:41 67	1/7/2017 14:46 68	2/7/2017 7:51 67	2/7/2017 16:56 61	3/7/2017 22:01 67
28/6/2017 20:41 67	30/6/2017 21:46 67	1/7/2017 14:51 68	2/7/2017 7:56 67	2/7/2017 17:01 62	3/7/2017 22:06 67
28/6/2017 20:46 67	30/6/2017 21:51 67	1/7/2017 14:56 69	2/7/2017 8:01 68	2/7/2017 17:06 68	3/7/2017 22:00 67
28/6/2017 20:51 67	30/6/2017 21:56 67	1/7/2017 15:01 68	2/7/2017 8:06 69	2/7/2017 17:11 68	3/7/2017 22:16 67
28/6/2017 20:56 67	30/6/2017 22:01 67	1/7/2017 15:06 68	2/7/2017 8:11 69	2/7/2017 17:16 69	3/7/2017 22:21 67
28/6/2017 21:01 67	30/6/2017 22:06 67	1/7/2017 15:11 69	2/7/2017 8:16 69	2/7/2017 17:21 69	3/7/2017 22:26 67
28/6/2017 21:06 68	30/6/2017 22:11 68	1/7/2017 15:16 68	2/7/2017 8:21 68	2/7/2017 17:26 69	3/7/2017 22:31 67
28/6/2017 21:11 67	30/6/2017 22:16 67	1/7/2017 15:21 68	2/7/2017 8:26 68	2/7/2017 17:31 69	3/7/2017 22:36 67
28/6/2017 21:16 68	30/6/2017 22:21 67	1/7/2017 15:26 67	2/7/2017 8:31 68	2/7/2017 17:36 60	3/7/2017 22:41 67
28/6/2017 21:21 68	30/6/2017 22:26 67	1/7/2017 15:31 68	2/7/2017 8:36 68	2/7/2017 17:41 69	3/7/2017 22:46 67
28/6/2017 21:26 67	30/6/2017 22:31 68	1/7/2017 15:36 68	2/7/2017 8:41 67	2/7/2017 17:46 60	3/7/2017 22:51 67
28/6/2017 21:31 68	30/6/2017 22:36 68	1/7/2017 15:41 68	2/7/2017 8:46 68	2/7/2017 17:51 69	3/7/2017 22:56 67
28/6/2017 21:36 67	30/6/2017 22:41 67	1/7/2017 15:46 67	2/7/2017 8:51 67	2/7/2017 17:56 69	4/7/2017 19:01 60
28/6/2017 21:41 67	30/6/2017 22:46 67	1/7/2017 15:51 67	2/7/2017 8:56 68	2/7/2017 18:01 50	4/7/2017 19:06 62
28/6/2017 21:46 67	30/6/2017 22:51 67	1/7/2017 15:56 67	2/7/2017 9:01 67	2/7/2017 18:06 69	4/7/2017 19:11 60
28/6/2017 21:51 68	30/6/2017 22:56 67	1/7/2017 16:01 67	2/7/2017 9:06 66	2/7/2017 18:11 62	4/7/2017 19:16 69
28/6/2017 21:56 67	1/7/2017 7:01 66	1/7/2017 16:06 67	2/7/2017 9:11 67	2/7/2017 18:16 69	4/7/2017 19:21 58
28/6/2017 22:01 67	1/7/2017 7:06 66	1/7/2017 16:00 67	2/7/2017 9:16 67	2/7/2017 18:21 68	4/7/2017 19:26 52
28/6/2017 22:06 68	1/7/2017 7:11 66	1/7/2017 16:16 68	2/7/2017 9:21 67	2/7/2017 18:26 69	4/7/2017 19:31 69
28/6/2017 22:11 67	1/7/2017 7:16 67	1/7/2017 16:21 67	2/7/2017 9:26 68	2/7/2017 18:31 69	4/7/2017 19:36 69
28/6/2017 22:16 67	1/7/2017 7:21 66	1/7/2017 16:26 67	2/7/2017 9:31 68	2/7/2017 18:36 69	4/7/2017 19:41 69
28/6/2017 22:21 69	1/7/2017 7:26 67	1/7/2017 16:31 68	2/7/2017 9:36 67	2/7/2017 18:41 69	4/7/2017 19:46 69
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Real-time Noise Data	RTN1 (Food and Environmental F	lygiene Department Depot)	_		
23/7/2017 22:26 72	26/7/2017 19:31 68	27/6/2017 5:21 61	28/6/2017 6:26 64	29/6/2017 23:31 64	1/7/2017 0:36 64
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10/7/2017 0:36         62         11/7/2017 1:41         61         12/7/2017 2:46         59         13/7/2017 3:51         60         14/7/2017 4:56         60         15/7/2017 6:01         62           10/7/2017 0:46         62         11/7/2017 1:51         61         12/7/2017 2:56         60         13/7/2017 3:56         60         14/7/2017 5:01         60         15/7/2017 6:11         62           10/7/2017 0:51         62         11/7/2017 1:56         60         12/7/2017 3:01         59         13/7/2017 4:06         59         14/7/2017 5:11         59         15/7/2017 6:16         63           10/7/2017 0:56         63         11/7/2017 2:01         61         12/7/2017 3:06         60         13/7/2017 4:06         59         14/7/2017 5:11         59         15/7/2017 6:16         63           10/7/2017 1:01         62         11/7/2017 2:06         61         12/7/2017 3:11         60         13/7/2017 4:11         60         14/7/2017 5:16         61         15/7/2017 6:31         64           10/7/2017 1:06         61         11/7/2017 3:16         59         13/7/2017 4:21         61         14/7/2017 5:26         61         15/7/2017 6:31         64	10/7/2017 0:26 63	11/7/2017 1:31 62	12/7/2017 2:36 59	13/7/2017 3:41 60	14/7/2017 4:46 59	15/7/2017 5:51 63
10/7/2017 0:41         63         11/7/2017 1:46         61         12/7/2017 2:51         59         13/7/2017 3:56         60         14/7/2017 5:01         60         15/7/2017 6:06         62           10/7/2017 0:46         62         11/7/2017 1:51         61         12/7/2017 2:56         60         13/7/2017 4:01         59         14/7/2017 5:01         60         15/7/2017 6:11         62           10/7/2017 0:56         63         11/7/2017 2:01         61         12/7/2017 3:06         60         13/7/2017 4:16         69         14/7/2017 5:11         59         15/7/2017 6:16         63           10/7/2017 0:56         63         11/7/2017 2:01         61         12/7/2017 3:06         60         13/7/2017 4:16         60         14/7/2017 5:16         61         15/7/2017 6:26         63           10/7/2017 1:06         62         11/7/2017 2:06         61         12/7/2017 3:16         60         13/7/2017 4:11         60         14/7/2017 5:26         61         15/7/2017 6:26         64           10/7/2017 1:06         61         11/7/2017 3:16         59         13/7/2017 4:21         61         14/7/2017 5:26         61         15/7/2017 6:31         64						
10/7/2017 0:51         62         11/7/2017 1:56         60         12/7/2017 3:01         59         13/7/2017 4:06         59         14/7/2017 5:11         59         15/7/2017 6:16         63           10/7/2017 0:56         63         11/7/2017 2:01         61         12/7/2017 3:06         60         13/7/2017 4:11         60         14/7/2017 5:16         61         15/7/2017 6:26         63           10/7/2017 1:06         61         11/7/2017 3:11         60         13/7/2017 4:21         60         14/7/2017 5:26         61         15/7/2017 6:31         64           10/7/2017 1:06         61         11/7/2017 3:16         59         13/7/2017 4:21         61         14/7/2017 5:26         61         15/7/2017 6:31         64	10/7/2017 0:41 63	11/7/2017 1:46 61	12/7/2017 2:51 59	13/7/2017 3:56 60	14/7/2017 5:01 60	15/7/2017 6:06 62
10/7/2017 0:56     63     11/7/2017 2:01     61     12/7/2017 3:06     60     13/7/2017 4:11     60     14/7/2017 5:16     61     15/7/2017 6:21     63       10/7/2017 1:01     62     11/7/2017 2:06     61     12/7/2017 3:11     60     13/7/2017 4:16     60     14/7/2017 5:21     62     15/7/2017 6:26     64       10/7/2017 1:06     61     11/7/2017 2:11     60     12/7/2017 3:16     59     13/7/2017 4:21     61     14/7/2017 5:26     61     15/7/2017 6:31     64						
10/7/2017 1:06 61 11/7/2017 2:11 60 12/7/2017 3:16 59 13/7/2017 4:21 61 14/7/2017 5:26 61 15/7/2017 6:31 64	10/7/2017 0:56 63	11/7/2017 2:01 61	12/7/2017 3:06 60	13/7/2017 4:11 60	14/7/2017 5:16 61	15/7/2017 6:21 63
10/7/2017 1:11 61   11/7/2017 2:16 60   12/7/2017 3:21 60   13/7/2017 4:26 60   14/7/2017 5:31 61   15/7/2017 6:36 65	10/7/2017 1:06 61	11/7/2017 2:11 60	12/7/2017 3:16 59	13/7/2017 4:21 61	14/7/2017 5:26 61	15/7/2017 6:31 64
	10/7/2017 1:11 61	11/7/2017 2:16 60	12/7/2017 3:21 60	13/7/2017 4:26 60	14/7/2017 5:31 61	15/7/2017 6:36 65

Real-time Noise Data 15/7/2017 6:41 64	RTN1 (Food and Environmental I 16/7/2017 23:46 65	lygiene Department Depot) 18/7/2017 0:51 64	19/7/2017 1:56 64	20/7/2017 3:01 62	21/7/2017 4:06 59
15/7/2017 6:46 66	16/7/2017 23:51 64	18/7/2017 0:56 64	19/7/2017 2:01 65	20/7/2017 3:06 61	21/7/2017 4:11 60
15/7/2017 6:51 64	16/7/2017 23:56 63	18/7/2017 1:01 63	19/7/2017 2:06 63	20/7/2017 3:11 43	21/7/2017 4:16 59
15/7/2017 6:56 65	17/7/2017 0:01 63	18/7/2017 1:06 64	19/7/2017 2:11 63	20/7/2017 3:16 61	21/7/2017 4:21 60
15/7/2017 23:01 67	17/7/2017 0:06 63	18/7/2017 1:11 63	19/7/2017 2:16 62	20/7/2017 3:21 61	21/7/2017 4:26 58
15/7/2017 23:06 66	17/7/2017 0:11 63	18/7/2017 1:16 62	19/7/2017 2:21 64	20/7/2017 3:26 61	21/7/2017 4:31 58
15/7/2017 23:11 66	17/7/2017 0:16 63	18/7/2017 1:21 63	19/7/2017 2:26 63	20/7/2017 3:31 61	21/7/2017 4:36 59
15/7/2017 23:16 66	17/7/2017 0:21 63	18/7/2017 1:26 62	19/7/2017 2:31 63	20/7/2017 3:36 46	21/7/2017 4:41 59
15/7/2017 23:21 66	17/7/2017 0:26 63	18/7/2017 1:31 63	19/7/2017 2:36 63	20/7/2017 3:41 61	21/7/2017 4:46 59
15/7/2017 23:26 66	17/7/2017 0:31 63	18/7/2017 1:36 63	19/7/2017 2:41 62	20/7/2017 3:46 61	21/7/2017 4:51 59
15/7/2017 23:31 66	17/7/2017 0:36 62	18/7/2017 1:41 62	19/7/2017 2:46 62	20/7/2017 3:51 61	21/7/2017 4:56 59
15/7/2017 23:36 66	17/7/2017 0:41 62	18/7/2017 1:46 63	19/7/2017 2:51 62	20/7/2017 3:56 61	21/7/2017 5:01 60
15/7/2017 23:41 66	17/7/2017 0:46 63	18/7/2017 1:51 62	19/7/2017 2:56 61	20/7/2017 4:01 61	21/7/2017 5:06 60
15/7/2017 23:46 67	17/7/2017 0:51 65	18/7/2017 1:56 62	19/7/2017 3:01 61	20/7/2017 4:06 61	21/7/2017 5:11 58
15/7/2017 23:51 65	17/7/2017 0:56 64	18/7/2017 2:01 63	19/7/2017 3:06 62	20/7/2017 4:11 61	21/7/2017 5:16 61
15/7/2017 23:56 65	17/7/2017 1:01 64	18/7/2017 2:06 62	19/7/2017 3:11 61	20/7/2017 4:16 60	21/7/2017 5:21 60
16/7/2017 0:01 66	17/7/2017 1:06 65	18/7/2017 2:11 61	19/7/2017 3:16 60	20/7/2017 4:21 61	21/7/2017 5:26 62
16/7/2017 0:06 65	17/7/2017 1:11 64	18/7/2017 2:16 62	19/7/2017 3:21 61	20/7/2017 4:26 61	21/7/2017 5:31 61
16/7/2017 0:11 66	17/7/2017 1:16 63	18/7/2017 2:21 60	19/7/2017 3:26 60	20/7/2017 4:31 61	21/7/2017 5:36 62
16/7/2017 0:16 66	17/7/2017 1:21 63	18/7/2017 2:26 60	19/7/2017 3:31 61	20/7/2017 4:36 61	21/7/2017 5:41 62
16/7/2017 0:21 65	17/7/2017 1:26 62	18/7/2017 2:31 62	19/7/2017 3:36 61	20/7/2017 4:41 61	21/7/2017 5:46 62
16/7/2017 0:26 65	17/7/2017 1:31 63	18/7/2017 2:36 60	19/7/2017 3:41 61	20/7/2017 4:46 61	21/7/2017 5:51 62
16/7/2017 0:31 65	17/7/2017 1:36 63	18/7/2017 2:41 61	19/7/2017 3:46 62	20/7/2017 4:51 50	21/7/2017 5:56 63
16/7/2017 0:36 64	17/7/2017 1:41 62	18/7/2017 2:46 61	19/7/2017 3:51 60	20/7/2017 4:56 62	21/7/2017 6:01 64
16/7/2017 0:41 64	17/7/2017 1:46 62	18/7/2017 2:51 61	19/7/2017 3:56 62	20/7/2017 5:01 61	21/7/2017 6:06 63
16/7/2017 0:46 65	17/7/2017 1:51 63	18/7/2017 2:56 61	19/7/2017 4:01 62	20/7/2017 5:06 61	21/7/2017 6:11 64
16/7/2017 0:51 65	17/7/2017 1:56 61	18/7/2017 3:01 60	19/7/2017 4:06 52	20/7/2017 5:11 61	21/7/2017 6:16 64
16/7/2017 0:56 64	17/7/2017 2:01 61	18/7/2017 3:06 61	19/7/2017 4:11 61	20/7/2017 5:16 62	21/7/2017 6:21 65
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16/7/2017 1:31 64	17/7/2017 2:36 59	18/7/2017 3:41 60	19/7/2017 4:46 61	20/7/2017 5:51 56	21/7/2017 6:56 66
16/7/2017 1:36 63	17/7/2017 2:41 59	18/7/2017 3:46 60	19/7/2017 4:51 62	20/7/2017 5:56 57	21/7/2017 23:01 66
16/7/2017 1:41 63	17/7/2017 2:46 59	18/7/2017 3:51 61	19/7/2017 4:56 62	20/7/2017 6:01 58	21/7/2017 23:06 66
16/7/2017 1:46 64	17/7/2017 2:51 60	18/7/2017 3:56 61	19/7/2017 5:01 61	20/7/2017 6:06 61	21/7/2017 23:11 66
16/7/2017 1:51 63	17/7/2017 2:56 60	18/7/2017 4:01 60	19/7/2017 5:06 48	20/7/2017 6:11 60	21/7/2017 23:16 65
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16/7/2017 2:01 63	17/7/2017 3:06 60	18/7/2017 4:11 61	19/7/2017 5:16 61	20/7/2017 6:21 62	21/7/2017 23:26 66
16/7/2017 2:06 63	17/7/2017 3:11 59	18/7/2017 4:16 60	19/7/2017 5:21 54	20/7/2017 6:26 62	21/7/2017 23:31 65
16/7/2017 2:11 63	17/7/2017 3:16 57	18/7/2017 4:21 60	19/7/2017 5:26 56	20/7/2017 6:31 63	21/7/2017 23:36 65
16/7/2017 2:16 63	17/7/2017 3:21 57	18/7/2017 4:26 61	19/7/2017 5:31 52	20/7/2017 6:36 63	21/7/2017 23:41 66
16/7/2017 2:21 63	17/7/2017 3:26 59	18/7/2017 4:31 60	19/7/2017 5:36 57	20/7/2017 6:41 64	
16/7/2017 2:21 63	17/7/2017 3:26 59	18/7/2017 4:31 60	19/7/2017 5:36 57	20/7/2017 6:41 64	21/7/2017 23:46 65
16/7/2017 2:26 64	17/7/2017 3:31 60	18/7/2017 4:36 60	19/7/2017 5:41 56	20/7/2017 6:46 66	21/7/2017 23:51 65
16/7/2017 2:31 62	17/7/2017 3:36 60	18/7/2017 4:41 60	19/7/2017 5:46 60	20/7/2017 6:51 64	21/7/2017 23:56 65
16/7/2017 2:36 65	17/7/2017 3:41 60	18/7/2017 4:46 60	19/7/2017 5:51 59	20/7/2017 6:56 65	22/7/2017 0:01 66
16/7/2017 2:41 63	17/7/2017 3:46 59	18/7/2017 4:51 59	19/7/2017 5:56 59	20/7/2017 0:30 03 20/7/2017 23:01 66	22/7/2017 0:06 65
16/7/2017 2:46 62	17/7/2017 3:51 60	18/7/2017 4:56 60	19/7/2017 6:01 59	20/7/2017 23:06 66	22/7/2017 0:11 65
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16/7/2017 3:11 62	17/7/2017 4:16 57	18/7/2017 5:21 62	19/7/2017 6:26 63	20/7/2017 23:31 65	22/7/2017 0:36 65
16/7/2017 3:16 61	17/7/2017 4:21 59	18/7/2017 5:26 62	19/7/2017 6:31 63	20/7/2017 23:36 65	22/7/2017 0:41 64
16/7/2017 3:21 63	17/7/2017 4:26 60	18/7/2017 5:31 62	19/7/2017 6:36 65	20/7/2017 23:41 66	22/7/2017 0:46 65
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16/7/2017 3:31 62	17/7/2017 4:36 58	18/7/2017 5:41 62	19/7/2017 6:46 65	20/7/2017 23:51 65	22/7/2017 0:56 65
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16/7/2017 3:46 62	17/7/2017 4:51 60	18/7/2017 5:56 63	19/7/2017 23:01 64	21/7/2017 0:06 65	22/7/2017 1:11 64
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16/7/2017 5:36 65	17/7/2017 6:41 68	18/7/2017 23:46 74	20/7/2017 0:51 60	21/7/2017 1:56 62	22/7/2017 3:01 62
16/7/2017 5:41 66	17/7/2017 6:46 68	18/7/2017 23:51 70	20/7/2017 0:56 60	21/7/2017 2:01 61	22/7/2017 3:06 62
16/7/2017 5:46 64	17/7/2017 6:51 68	18/7/2017 23:56 70	20/7/2017 1:01 58	21/7/2017 2:06 62	22/7/2017 3:11 62
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16/7/2017 5:56 64	17/7/2017 23:01 66	19/7/2017 0:06 70	20/7/2017 1:11 56	21/7/2017 2:16 61	22/7/2017 3:21 61
16/7/2017 6:01 64	17/7/2017 23:06 66	19/7/2017 0:11 68	20/7/2017 1:16 58	21/7/2017 2:21 62	22/7/2017 3:26 62
16/7/2017 6:06 64	17/7/2017 23:11 66	19/7/2017 0:16 68	20/7/2017 1:21 58	21/7/2017 2:26 61	22/7/2017 3:31 63
16/7/2017 6:11 64	17/7/2017 23:16 66	19/7/2017 0:21 67	20/7/2017 1:26 55	21/7/2017 2:31 61	22/7/2017 3:36 63
16/7/2017 6:16 63	17/7/2017 23:21 66	19/7/2017 0:26 68	20/7/2017 1:31 55	21/7/2017 2:36 59	22/7/2017 3:41 63
16/7/2017 6:21 65	17/7/2017 23:26 65	19/7/2017 0:31 67	20/7/2017 1:36 60	21/7/2017 2:41 60	22/7/2017 3:46 62
16/7/2017 6:26 65	17/7/2017 23:31 65	19/7/2017 0:36 66	20/7/2017 1:41 61	21/7/2017 2:46 60	22/7/2017 3:51 61
16/7/2017 6:31 64	17/7/2017 23:36 65	19/7/2017 0:41 67	20/7/2017 1:46 56	21/7/2017 2:51 59	22/7/2017 3:56 62
16/7/2017 6:36 66	17/7/2017 23:41 65	19/7/2017 0:46 66	20/7/2017 1:51 61	21/7/2017 2:56 60	22/7/2017 4:01 62
16/7/2017 6:41 69	17/7/2017 23:46 65	19/7/2017 0:51 66	20/7/2017 1:56 52	21/7/2017 3:01 59	22/7/2017 4:06 62
16/7/2017 6:46 67	17/7/2017 23:51 66	19/7/2017 0:56 66	20/7/2017 2:01 62	21/7/2017 3:06 61	22/7/2017 4:11 61
16/7/2017 6:51 66	17/7/2017 23:56 64	19/7/2017 1:01 66	20/7/2017 2:06 57	21/7/2017 3:11 59	22/7/2017 4:16 62
16/7/2017 6:56 65	18/7/2017 0:01 65	19/7/2017 1:06 66	20/7/2017 2:11 62	21/7/2017 3:16 61	22/7/2017 4:21 62
16/7/2017 23:01 67	18/7/2017 0:06 65	19/7/2017 1:11 66	20/7/2017 2:16 42	21/7/2017 3:21 60	22/7/2017 4:26 61
16/7/2017 23:06 65	18/7/2017 0:11 65	19/7/2017 1:16 66	20/7/2017 2:21 44	21/7/2017 3:26 60	22/7/2017 4:31 61
16/7/2017 23:11 65	18/7/2017 0:16 65	19/7/2017 1:21 66	20/7/2017 2:26 61	21/7/2017 3:31 61	22/7/2017 4:36 62
16/7/2017 23:16 65	18/7/2017 0:21 64	19/7/2017 1:26 65	20/7/2017 2:31 62	21/7/2017 3:36 60	22/7/2017 4:41 62
16/7/2017 23:21 66	18/7/2017 0:26 64	19/7/2017 1:31 65	20/7/2017 2:36 48	21/7/2017 3:41 59	22/7/2017 4:46 60
16/7/2017 23:26 66	18/7/2017 0:31 65	19/7/2017 1:36 65	20/7/2017 2:41 57	21/7/2017 3:46 61	22/7/2017 4:51 61
16/7/2017 23:31 65	18/7/2017 0:36 64	19/7/2017 1:41 65	20/7/2017 2:46 50	21/7/2017 3:51 59	22/7/2017 4:56 64
16/7/2017 23:36 65	18/7/2017 0:41 64	19/7/2017 1:46 65	20/7/2017 2:51 61	21/7/2017 3:56 60	22/7/2017 5:01 69
16/7/2017 23:41 65	18/7/2017 0:46 64	19/7/2017 1:51 64	20/7/2017 2:56 62	21/7/2017 3:30 60 21/7/2017 4:01 58	22/7/2017 5:06 64

Real-time Noise I	Data	RTN1 (Food and Env	/ironmental H	ygiene Department D	lepot)
22/7/2017 5:11	62	23/7/2017 6:16	63	24/7/2017 23:21	66
22/7/2017 5:16 22/7/2017 5:21	63 63	23/7/2017 6:21 23/7/2017 6:26	65 64	24/7/2017 23:26 24/7/2017 23:31	66 66
22/7/2017 5:26	62	23/7/2017 6:31	64	24/7/2017 23:36	65
22/7/2017 5:31 22/7/2017 5:36	63 63	23/7/2017 6:36 23/7/2017 6:41	64 63	24/7/2017 23:41 24/7/2017 23:46	65 65
22/7/2017 5:41	62	23/7/2017 6:46	64	24/7/2017 23:51	65
22/7/2017 5:46 22/7/2017 5:51	63 64	23/7/2017 6:51 23/7/2017 6:56	63 64	24/7/2017 23:56 25/7/2017 0:01	65 64
22/7/2017 5:56	63	23/7/2017 23:01	67	25/7/2017 0:06	65
22/7/2017 6:01 22/7/2017 6:06	63	23/7/2017 23:06	67 66	25/7/2017 0:11	64
22/7/2017 6:00	63 63	23/7/2017 23:11 23/7/2017 23:16	66	25/7/2017 0:16 25/7/2017 0:21	65 64
22/7/2017 6:16	64	23/7/2017 23:21	67	25/7/2017 0:26	64
22/7/2017 6:21 22/7/2017 6:26	66 65	23/7/2017 23:26 23/7/2017 23:31	67 66	25/7/2017 0:31 25/7/2017 0:36	64 64
22/7/2017 6:31	65	23/7/2017 23:36	66	25/7/2017 0:41	64
22/7/2017 6:36 22/7/2017 6:41	66 66	23/7/2017 23:41 23/7/2017 23:46	65 66	25/7/2017 0:46 25/7/2017 0:51	64 64
22/7/2017 6:46	66	23/7/2017 23:51	64	25/7/2017 0:56	63
22/7/2017 6:51 22/7/2017 6:56	66 66	23/7/2017 23:56 24/7/2017 0:01	65 64	25/7/2017 1:01 25/7/2017 1:06	63 62
22/7/2017 23:01	66	24/7/2017 0:06	64	25/7/2017 1:11	63
22/7/2017 23:06 22/7/2017 23:11	66 65	24/7/2017 0:11 24/7/2017 0:16	63 64	25/7/2017 1:16 25/7/2017 1:21	63 63
22/7/2017 23:16	65	24/7/2017 0:21	65	25/7/2017 1:26	62
22/7/2017 23:21 22/7/2017 23:26	65 65	24/7/2017 0:26 24/7/2017 0:31	65 65	25/7/2017 1:31 25/7/2017 1:36	61 62
22/7/2017 23:31	65	24/7/2017 0:36	65	25/7/2017 1:41	62
22/7/2017 23:36 22/7/2017 23:41	65 66	24/7/2017 0:41 24/7/2017 0:46	65 64	25/7/2017 1:46 25/7/2017 1:51	61 62
22/7/2017 23:46	66	24/7/2017 0:51	63	25/7/2017 1:56	62
22/7/2017 23:51 22/7/2017 23:56	65 66	24/7/2017 0:56 24/7/2017 1:01	62 64	25/7/2017 2:01 25/7/2017 2:06	61 61
23/7/2017 0:01	65	24/7/2017 1:06	63	25/7/2017 2:11	60
23/7/2017 0:06	65	24/7/2017 1:11	62	25/7/2017 2:16	61
23/7/2017 0:11 23/7/2017 0:16	64 65	24/7/2017 1:16 24/7/2017 1:21	62 62	25/7/2017 2:21 25/7/2017 2:26	61 61
23/7/2017 0:21	64	24/7/2017 1:26	61	25/7/2017 2:31	59
23/7/2017 0:26 23/7/2017 0:31	64 65	24/7/2017 1:31 24/7/2017 1:36	61 62	25/7/2017 2:36 25/7/2017 2:41	61 59
23/7/2017 0:36	65	24/7/2017 1:41	62	25/7/2017 2:46	60
23/7/2017 0:41 23/7/2017 0:46	65 64	24/7/2017 1:46 24/7/2017 1:51	61 62	25/7/2017 2:51 25/7/2017 2:56	61 59
23/7/2017 0:51	63	24/7/2017 1:56	61	25/7/2017 3:01	59
23/7/2017 0:56 23/7/2017 1:01	63 63	24/7/2017 2:01 24/7/2017 2:06	61 62	25/7/2017 3:06 25/7/2017 3:11	60 60
23/7/2017 1:06	67	24/7/2017 2:11	61	25/7/2017 3:16	59
23/7/2017 1:11 23/7/2017 1:16	63 64	24/7/2017 2:16 24/7/2017 2:21	60 61	25/7/2017 3:21 25/7/2017 3:26	60 58
23/7/2017 1:21	63	24/7/2017 2:26	58	25/7/2017 3:31	59
23/7/2017 1:26 23/7/2017 1:31	63 64	24/7/2017 2:31 24/7/2017 2:36	60 59	25/7/2017 3:36 25/7/2017 3:41	59 60
23/7/2017 1:36	63	24/7/2017 2:41	57	25/7/2017 3:46	59
23/7/2017 1:41 23/7/2017 1:46	63 64	24/7/2017 2:46 24/7/2017 2:51	59 59	25/7/2017 3:51 25/7/2017 3:56	61 59
23/7/2017 1:40	62	24/7/2017 2:56	59	25/7/2017 4:01	59
23/7/2017 1:56 23/7/2017 2:01	62 63	24/7/2017 3:01 24/7/2017 3:06	60 58	25/7/2017 4:06 25/7/2017 4:11	61 60
23/7/2017 2:06	63	24/7/2017 3:00	60	25/7/2017 4:11	58
23/7/2017 2:11	62	24/7/2017 3:16	58 60	25/7/2017 4:21	60 60
23/7/2017 2:16 23/7/2017 2:21	66 62	24/7/2017 3:21 24/7/2017 3:26	58	25/7/2017 4:26 25/7/2017 4:31	60
23/7/2017 2:26	62	24/7/2017 3:31	59	25/7/2017 4:36	59
23/7/2017 2:31 23/7/2017 2:36	62 63	24/7/2017 3:36 24/7/2017 3:41	61 59	25/7/2017 4:41 25/7/2017 4:46	59 61
23/7/2017 2:41	63	24/7/2017 3:46	58	25/7/2017 4:51	61
23/7/2017 2:46 23/7/2017 2:51	62 62	24/7/2017 3:51 24/7/2017 3:56	58 59	25/7/2017 4:56 25/7/2017 5:01	61 61
23/7/2017 2:56	63	24/7/2017 4:01	59	25/7/2017 5:06	60
23/7/2017 3:01 23/7/2017 3:06	62 62	24/7/2017 4:06 24/7/2017 4:11	58 59	25/7/2017 5:11 25/7/2017 5:16	60 60
23/7/2017 3:11	62	24/7/2017 4:16	60	25/7/2017 5:21	61
23/7/2017 3:16 23/7/2017 3:21	61 63	24/7/2017 4:21 24/7/2017 4:26	60 59	25/7/2017 5:26 25/7/2017 5:31	62 61
23/7/2017 3:26	62	24/7/2017 4:31	59	25/7/2017 5:36	62
23/7/2017 3:31 23/7/2017 3:36	62 62	24/7/2017 4:36 24/7/2017 4:41	58 59	25/7/2017 5:41 25/7/2017 5:46	61 62
23/7/2017 3:41	61	24/7/2017 4:46	57	25/7/2017 5:51	63
23/7/2017 3:46 23/7/2017 3:51	62 61	24/7/2017 4:51 24/7/2017 4:56	58 60	25/7/2017 5:56 25/7/2017 6:01	63 63
23/7/2017 3:56	62	24/7/2017 5:01	60	25/7/2017 6:06	63
23/7/2017 4:01 23/7/2017 4:06	61 62	24/7/2017 5:06 24/7/2017 5:11	61 59	25/7/2017 6:11 25/7/2017 6:16	64 64
23/7/2017 4:11	61	24/7/2017 5:16	61	25/7/2017 6:21	64
23/7/2017 4:16 23/7/2017 4:21	62 61	24/7/2017 5:21 24/7/2017 5:26	61 62	25/7/2017 6:26 25/7/2017 6:31	65 65
23/7/2017 4:26	60	24/7/2017 5:31	62	25/7/2017 6:36	66
23/7/2017 4:31 23/7/2017 4:36	60 62	24/7/2017 5:36 24/7/2017 5:41	63 62	25/7/2017 6:41 25/7/2017 6:46	66 65
23/7/2017 4:41	61	24/7/2017 5:46	63	25/7/2017 6:51	66
23/7/2017 4:46 23/7/2017 4:51	61 61	24/7/2017 5:51 24/7/2017 5:56	63 64	25/7/2017 6:56 25/7/2017 23:01	65 65
23/7/2017 4:56	61	24/7/2017 6:01	64	25/7/2017 23:06	65
23/7/2017 5:01 23/7/2017 5:06	61 60	24/7/2017 6:06 24/7/2017 6:11	63 64	25/7/2017 23:11 25/7/2017 23:16	65 65
23/7/2017 5:06	61	24/7/2017 6:11	64 64	25/7/2017 23:21	65
23/7/2017 5:16	60 61	24/7/2017 6:21	65 65	25/7/2017 23:26	65 65
23/7/2017 5:21 23/7/2017 5:26	61 62	24/7/2017 6:26 24/7/2017 6:31	65 66	25/7/2017 23:31 25/7/2017 23:36	65 65
23/7/2017 5:31	62	24/7/2017 6:36	66	25/7/2017 23:41	64
23/7/2017 5:36 23/7/2017 5:41	62 62	24/7/2017 6:41 24/7/2017 6:46	67 67	25/7/2017 23:46 25/7/2017 23:51	65 64
23/7/2017 5:46	62	24/7/2017 6:51	67	25/7/2017 23:56	63
23/7/2017 5:51 23/7/2017 5:56	63 64	24/7/2017 6:56 24/7/2017 23:01	67 66	26/7/2017 0:01 26/7/2017 0:06	64 64
23/7/2017 6:01	64	24/7/2017 23:06	66	26/7/2017 0:11	65 65
23/7/2017 6:06 23/7/2017 6:11	64 64	24/7/2017 23:11 24/7/2017 23:16	66 65	26/7/2017 0:16 26/7/2017 0:21	63
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26/7/2017 6:56 26/7/2017 23:01

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26/7/2017 23:41 65 26/7/2017 23:46 65 26/7/2017 23:51 65 26/7/2017 23:56 64

26/7/2017 23:06 65 26/7/2017 23:11 65 26/7/2017 23:16 65

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Real-time Noise Data	RTN2a (Hong Kong Electric Cent	re)			
Normal Day 07:00-19:00	3/7/2017 12:31 56	8/7/2017 7:01 65	13/7/2017 13:31 69	19/7/2017 8:01 67	24/7/2017 14:31 78
27/6/2017 7:01 63	3/7/2017 13:01 69	8/7/2017 7:31 63	13/7/2017 14:01 66	19/7/2017 8:31 64	24/7/2017 15:01 71
	3/7/2017 13:31 69	8/7/2017 8:01 67	13/7/2017 14:31 66	19/7/2017 9:01 64	24/7/2017 15:31 57
27/6/2017 7:31 63	3/7/2017 14:01 68	8/7/2017 8:31 63	13/7/2017 15:01 64	19/7/2017 9:31 64	24/7/2017 16:01 60
27/6/2017 8:01 65	3/7/2017 14:31 67	8/7/2017 9:01 69	13/7/2017 15:31 65	19/7/2017 10:01 67	24/7/2017 16:31 65
27/6/2017 8:31 65	3/7/2017 15:01 67	8/7/2017 9:31 64	13/7/2017 16:01 67	19/7/2017 10:31 67	24/7/2017 17:01 67
27/6/2017 9:01 66	3/7/2017 15:31 58	8/7/2017 10:01 64	13/7/2017 16:31 64	19/7/2017 11:01 65	24/7/2017 17:31 64
27/6/2017 9:31 69	3/7/2017 16:01 62	8/7/2017 10:31 65	13/7/2017 17:01 59	19/7/2017 11:31 66	24/7/2017 18:01 67
27/6/2017 10:01 68	3/7/2017 16:31 66	8/7/2017 11:01 64	13/7/2017 17:31 65	19/7/2017 12:01 66	24/7/2017 18:31 63
27/6/2017 10:31 72	3/7/2017 17:01 60	8/7/2017 11:31 62	13/7/2017 18:01 65	19/7/2017 12:31 67	25/7/2017 7:01 60
27/6/2017 11:01 72	3/7/2017 17:31 65	8/7/2017 12:01 65	13/7/2017 18:31 64	19/7/2017 13:01 65	25/7/2017 7:31 62
27/6/2017 11:31 62	3/7/2017 18:01 64	8/7/2017 12:31 48	14/7/2017 7:01 62	19/7/2017 13:31 66	25/7/2017 8:01 64
27/6/2017 12:01 67	3/7/2017 18:31 64	8/7/2017 13:01 64	14/7/2017 7:31 64	19/7/2017 14:01 68	25/7/2017 8:31 63
27/6/2017 12:31 67	4/7/2017 7:01 65	8/7/2017 13:31 67	14/7/2017 8:01 66	19/7/2017 14:31 65	25/7/2017 9:01 59
27/6/2017 13:01 72	4/7/2017 7:31 63	8/7/2017 14:01 67	14/7/2017 8:31 70	19/7/2017 15:01 66	25/7/2017 9:31 65
27/6/2017 13:31 70	4/7/2017 8:01 66	8/7/2017 14:31 67	14/7/2017 9:01 69	19/7/2017 15:31 65	25/7/2017 10:01 63
27/6/2017 14:01 68	4/7/2017 8:31 66	8/7/2017 15:01 66	14/7/2017 9:31 68	19/7/2017 16:01 69	25/7/2017 10:31 58
27/6/2017 14:31 67	4/7/2017 9:01 63	8/7/2017 15:31 63	14/7/2017 10:01 68	19/7/2017 16:31 67	25/7/2017 11:01 61
27/6/2017 15:01 68	4/7/2017 9:31 64	8/7/2017 16:01 62	14/7/2017 10:31 67	19/7/2017 17:01 67	25/7/2017 11:31 66
27/6/2017 15:31 66	4/7/2017 10:01 66	8/7/2017 16:31 61	14/7/2017 11:01 70	19/7/2017 17:31 65	25/7/2017 12:01 64
27/6/2017 16:01 62	4/7/2017 10:31 66	8/7/2017 17:01 66	14/7/2017 11:31 69	19/7/2017 18:01 65	25/7/2017 12:31 65
27/6/2017 16:31 63	4/7/2017 11:01 67	8/7/2017 17:31 64	14/7/2017 12:01 67	19/7/2017 18:31 64	25/7/2017 13:01 54
27/6/2017 17:01 61	4/7/2017 11:31 66	8/7/2017 18:01 66	14/7/2017 12:31 54	20/7/2017 7:01 61	25/7/2017 13:31 69
27/6/2017 17:31 52	4/7/2017 12:01 66	8/7/2017 18:31 65	14/7/2017 13:01 72	20/7/2017 7:31 64	25/7/2017 14:01 64
27/6/2017 18:01 66	4/7/2017 12:31 65	10/7/2017 7:01 62	14/7/2017 13:31 73	20/7/2017 8:01 55	25/7/2017 14:31 63
27/6/2017 18:31 66	4/7/2017 13:01 66	10/7/2017 7:31 63	14/7/2017 14:01 73	20/7/2017 8:31 67	25/7/2017 15:01 66
28/6/2017 7:01 62	4/7/2017 13:31 66	10/7/2017 8:01 59	14/7/2017 14:31 72	20/7/2017 9:01 64	25/7/2017 15:31 65
28/6/2017 7:31 64	4/7/2017 14:01 66	10/7/2017 8:31 63	14/7/2017 15:01 71	20/7/2017 9:31 64	25/7/2017 16:01 61
28/6/2017 8:01 47	4/7/2017 14:31 67	10/7/2017 9:01 66	14/7/2017 15:31 65	20/7/2017 10:01 66	25/7/2017 16:31 58
28/6/2017 8:31 67	4/7/2017 15:01 66	10/7/2017 9:31 66	14/7/2017 16:01 62	20/7/2017 10:31 66	25/7/2017 17:01 67
28/6/2017 9:01 64	4/7/2017 15:31 65	10/7/2017 10:01 66	14/7/2017 16:31 61	20/7/2017 11:01 61	25/7/2017 17:31 64
28/6/2017 9:31 66	4/7/2017 16:01 63	10/7/2017 10:31 64	14/7/2017 17:01 59	20/7/2017 11:31 65	25/7/2017 18:01 65
28/6/2017 10:01 67	4/7/2017 16:31 64	10/7/2017 11:01 62	14/7/2017 17:31 67	20/7/2017 12:01 64	25/7/2017 18:31 64
28/6/2017 10:31 66	4/7/2017 17:01 67	10/7/2017 11:31 56	14/7/2017 18:01 66	20/7/2017 12:31 66	26/7/2017 7:01 60
28/6/2017 11:01 63	4/7/2017 17:31 65	10/7/2017 12:01 67	14/7/2017 18:31 64	20/7/2017 13:01 65	26/7/2017 7:31 63
28/6/2017 11:31 67	4/7/2017 18:01 67	10/7/2017 12:31 65	15/7/2017 7:01 65	20/7/2017 13:31 66	26/7/2017 8:01 65
28/6/2017 12:01 67	4/7/2017 18:31 64	10/7/2017 13:01 61	15/7/2017 7:31 67	20/7/2017 14:01 65	26/7/2017 8:31 61
28/6/2017 12:31 58	5/7/2017 7:01 62	10/7/2017 13:31 70	15/7/2017 8:01 64	20/7/2017 14:31 65	26/7/2017 9:01 63
28/6/2017 13:01 65	5/7/2017 7:31 64	10/7/2017 14:01 69	15/7/2017 8:31 69	20/7/2017 15:01 64	26/7/2017 9:31 68
28/6/2017 13:31 66	5/7/2017 8:01 67	10/7/2017 14:31 68	15/7/2017 9:01 67	20/7/2017 15:31 63	26/7/2017 10:01 66
28/6/2017 14:01 66	5/7/2017 8:31 62	10/7/2017 15:01 69	15/7/2017 9:31 65	20/7/2017 16:01 58	26/7/2017 10:31 65
28/6/2017 14:31 71	5/7/2017 9:01 66	10/7/2017 15:31 68	15/7/2017 10:01 67	20/7/2017 16:31 66	26/7/2017 11:01 64
28/6/2017 15:01 68	5/7/2017 9:31 67	10/7/2017 16:01 72	15/7/2017 10:31 66	20/7/2017 17:01 65	26/7/2017 11:31 60
28/6/2017 15:31 67	5/7/2017 10:01 66	10/7/2017 16:31 65	15/7/2017 11:01 65	20/7/2017 17:31 65	26/7/2017 12:01 67
28/6/2017 16:01 65	5/7/2017 10:31 65	10/7/2017 17:01 63	15/7/2017 11:31 66	20/7/2017 18:01 64	26/7/2017 12:31 67
28/6/2017 16:31 61	5/7/2017 11:01 65	10/7/2017 17:31 59	15/7/2017 12:01 66	20/7/2017 18:31 64	26/7/2017 13:01 65
28/6/2017 17:01 64	5/7/2017 11:31 67	10/7/2017 18:01 66	15/7/2017 12:31 67	21/7/2017 7:01 62	26/7/2017 13:31 68
28/6/2017 17:31 58	5/7/2017 12:01 65	10/7/2017 18:31 65	15/7/2017 13:01 67	21/7/2017 7:31 63	26/7/2017 14:01 68
28/6/2017 18:01 67	5/7/2017 12:31 66	11/7/2017 7:01 64	15/7/2017 13:31 68	21/7/2017 8:01 66	26/7/2017 14:31 66
28/6/2017 18:31 67	5/7/2017 13:01 64	11/7/2017 7:31 65	15/7/2017 14:01 69	21/7/2017 8:31 66	26/7/2017 15:01 71
29/6/2017 7:01 63	5/7/2017 13:31 68	11/7/2017 8:01 66	15/7/2017 14:31 69	21/7/2017 9:01 68	26/7/2017 15:31 64
29/6/2017 7:31 64	5/7/2017 14:01 66	11/7/2017 8:31 71		21/7/2017 9:31 68	26/7/2017 16:01 67
29/6/2017 8:01 67	5/7/2017 14:31 67	11/7/2017 9:01 69	15/7/2017 15:01 69 15/7/2017 15:31 66	21/7/2017 10:01 68	26/7/2017 16:31 65
29/6/2017 8:31 65	5/7/2017 15:01 67	11/7/2017 9:31 68	15/7/2017 16:01 64	21/7/2017 10:31 65	26/7/2017 17:01 67
29/6/2017 9:01 67	5/7/2017 15:31 70	11/7/2017 10:01 68	15/7/2017 16:31 64	21/7/2017 11:01 65	26/7/2017 17:31 66
29/6/2017 9:31 66	5/7/2017 16:01 63	11/7/2017 10:31 70	15/7/2017 17:01 63	21/7/2017 11:31 66	26/7/2017 18:01 66
29/6/2017 10:01 69	5/7/2017 16:31 67	11/7/2017 11:01 70	15/7/2017 17:31 52	21/7/2017 12:01 65	26/7/2017 18:31 65
29/6/2017 10:31 68	5/7/2017 17:01 67	11/7/2017 11:31 59	15/7/2017 18:01 66	21/7/2017 12:31 64	Normal Day 19:00-23:00,
29/6/2017 11:01 66	5/7/2017 17:31 51	11/7/2017 12:01 66	15/7/2017 18:31 65	21/7/2017 13:01 58	
29/6/2017 11:31 59	5/7/2017 18:01 66	11/7/2017 12:31 66	17/7/2017 7:01 65	21/7/2017 13:31 61	Sunday & Holiday
29/6/2017 12:01 66	5/7/2017 18:31 65	11/7/2017 13:01 63	17/7/2017 7:31 66	21/7/2017 14:01 64	<u>07:00-23:00</u>
29/6/2017 12:31 66	6/7/2017 7:01 62	11/7/2017 13:31 69	17/7/2017 8:01 51	21/7/2017 14:31 62	
29/6/2017 13:01 62	6/7/2017 7:31 63	11/7/2017 14:01 69	17/7/2017 8:31 67	21/7/2017 15:01 57	27/6/2017 19:01 64
29/6/2017 13:31 69	6/7/2017 8:01 63	11/7/2017 14:31 66	17/7/2017 9:01 66	21/7/2017 15:31 51	27/6/2017 19:06 64
29/6/2017 14:01 66	6/7/2017 8:31 63	11/7/2017 15:01 67	17/7/2017 9:31 69	21/7/2017 16:01 60	27/6/2017 19:11 62
29/6/2017 14:31 66	6/7/2017 9:01 68	11/7/2017 15:31 66	17/7/2017 10:01 65	21/7/2017 16:31 67	27/6/2017 19:16 59
29/6/2017 15:01 67	6/7/2017 9:31 65	11/7/2017 16:01 59	17/7/2017 10:31 66	21/7/2017 17:01 67	27/6/2017 19:21 61
29/6/2017 15:31 66	6/7/2017 10:01 66	11/7/2017 16:31 67	17/7/2017 11:01 68	21/7/2017 17:31 64	27/6/2017 19:26 61
29/6/2017 16:01 65	6/7/2017 10:31 66	11/7/2017 17:01 63	17/7/2017 11:31 66	21/7/2017 18:01 64	27/6/2017 19:31 62
29/6/2017 16:31 65	6/7/2017 11:01 60	11/7/2017 17:31 67	17/7/2017 12:01 65	21/7/2017 18:31 64	27/6/2017 19:36 62
29/6/2017 17:01 68	6/7/2017 11:31 66	11/7/2017 18:01 65	17/7/2017 12:31 66	22/7/2017 7:01 61	27/6/2017 19:41 62
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29/6/2017 18:01 63	6/7/2017 12:31 65	12/7/2017 7:01 65	17/7/2017 13:31 68	22/7/2017 8:01 66	27/6/2017 19:51 62
29/6/2017 18:31 66	6/7/2017 13:01 64	12/7/2017 7:31 66	17/7/2017 14:01 68	22/7/2017 8:31 60	27/6/2017 19:56 62
30/6/2017 7:31 64	6/7/2017 13:31 69	12/7/2017 8:01 65	17/7/2017 14:31 66	22/7/2017 9:01 57	27/6/2017 20:01 62
	6/7/2017 14:01 69	12/7/2017 8:31 67	17/7/2017 15:01 67	22/7/2017 9:31 61	27/6/2017 20:06 61
30/6/2017 8:01 60	6/7/2017 14:31 66	12/7/2017 9:01 67	17/7/2017 15:31 68	22/7/2017 10:01 63	27/6/2017 20:11 61
30/6/2017 8:31 64	6/7/2017 15:01 65	12/7/2017 9:31 67	17/7/2017 16:01 70	22/7/2017 10:31 65	27/6/2017 20:16 62
30/6/2017 9:01 68	6/7/2017 15:31 67	12/7/2017 10:01 66	17/7/2017 16:31 69	22/7/2017 11:01 61	27/6/2017 20:21 62
30/6/2017 9:31 67	6/7/2017 16:01 67	12/7/2017 10:31 67	17/7/2017 17:01 67	22/7/2017 11:31 65	27/6/2017 20:26 62
30/6/2017 10:01 71	6/7/2017 16:31 65	12/7/2017 11:01 66	17/7/2017 17:31 63	22/7/2017 12:01 65	27/6/2017 20:31 62
30/6/2017 10:31 68	6/7/2017 17:01 68	12/7/2017 11:31 59	17/7/2017 18:01 66	22/7/2017 12:31 65	27/6/2017 20:36 61
30/6/2017 11:01 65	6/7/2017 17:31 66	12/7/2017 12:01 66	17/7/2017 18:31 64	22/7/2017 13:01 61	27/6/2017 20:41 61
30/6/2017 11:31 58	6/7/2017 18:01 66	12/7/2017 12:31 66	18/7/2017 7:01 65	22/7/2017 13:31 56	27/6/2017 20:46 61
30/6/2017 12:01 66	6/7/2017 18:31 64	12/7/2017 13:01 67	18/7/2017 7:31 63	22/7/2017 14:01 52	27/6/2017 20:51 62
30/6/2017 12:31 67	7/7/2017 7:01 63	12/7/2017 13:31 69	18/7/2017 8:01 66	22/7/2017 14:31 64	27/6/2017 20:56 62
30/6/2017 13:01 62	7/7/2017 7:31 64	12/7/2017 14:01 68	18/7/2017 8:31 65	22/7/2017 15:01 61	27/6/2017 21:01 62
30/6/2017 13:31 67	7/7/2017 8:01 58	12/7/2017 14:31 72	18/7/2017 9:01 65	22/7/2017 15:31 49	27/6/2017 21:06 61
30/6/2017 14:01 72	7/7/2017 8:31 67	12/7/2017 15:01 68	18/7/2017 9:31 62	22/7/2017 16:01 51	27/6/2017 21:11 61
30/6/2017 14:31 66	7/7/2017 9:01 68	12/7/2017 15:31 67	18/7/2017 10:01 66	22/7/2017 16:31 56	27/6/2017 21:16 61
30/6/2017 15:01 67	7/7/2017 9:31 67	12/7/2017 16:01 67	18/7/2017 10:31 63	22/7/2017 17:01 65	27/6/2017 21:21 61
30/6/2017 15:31 65	7/7/2017 10:01 65	12/7/2017 16:31 69	18/7/2017 11:01 63	22/7/2017 17:31 64	27/6/2017 21:26 61
30/6/2017 16:01 63	7/7/2017 10:31 65	12/7/2017 17:01 64	18/7/2017 11:31 65	22/7/2017 18:01 63	27/6/2017 21:31 61
30/6/2017 16:31 51	7/7/2017 11:01 65	12/7/2017 17:31 66	18/7/2017 12:01 65	22/7/2017 18:31 62	27/6/2017 21:36 61
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30/6/2017 17:31 66	7/7/2017 12:01 66	12/7/2017 18:31 65	18/7/2017 13:01 62	24/7/2017 7:31 63	27/6/2017 21:46 60
30/6/2017 18:01 65	7/7/2017 12:31 66	13/7/2017 7:01 61	18/7/2017 13:31 66	24/7/2017 8:01 65	27/6/2017 21:51 61
30/6/2017 18:31 64	7/7/2017 13:01 68	13/7/2017 7:31 62	18/7/2017 14:01 61	24/7/2017 8:31 63	27/6/2017 21:56 61
3/7/2017 7:01 62	7/7/2017 13:31 66	13/7/2017 8:01 63	18/7/2017 14:31 61	24/7/2017 9:01 47	27/6/2017 22:01 61
3/7/2017 7:31 64	7/7/2017 14:01 66	13/7/2017 8:31 67	18/7/2017 15:01 63	24/7/2017 9:31 66	27/6/2017 22:06 60
3/7/2017 8:01 54	7/7/2017 14:31 67	13/7/2017 9:01 70	18/7/2017 15:31 60	24/7/2017 10:01 63	27/6/2017 22:11 59
3/7/2017 8:31 66	7/7/2017 15:01 69	13/7/2017 9:31 66	18/7/2017 16:01 65	24/7/2017 10:31 70	27/6/2017 22:11 60
3/7/2017 9:01 67	7/7/2017 15:31 67	13/7/2017 10:01 66	18/7/2017 16:31 61	24/7/2017 11:01 77	27/6/2017 22:21 60
3/7/2017 9:31 67	7/7/2017 16:01 65	13/7/2017 10:31 66	18/7/2017 17:01 62	24/7/2017 11:31 75	27/6/2017 22:26 60
3/7/2017 10:01 68	7/7/2017 16:31 63	13/7/2017 11:01 63	18/7/2017 17:31 70	24/7/2017 12:01 69	27/6/2017 22:31 59
3/7/2017 10:31 67	7/7/2017 17:01 66	13/7/2017 11:31 65	18/7/2017 18:01 65	24/7/2017 12:31 66	27/6/2017 22:36 60
3/7/2017 11:01 67	7/7/2017 17:31 65	13/7/2017 12:01 65	18/7/2017 18:31 66	24/7/2017 13:01 62	27/6/2017 22:41 59
3/7/2017 11:31 61	7/7/2017 18:01 65	13/7/2017 12:31 65	19/7/2017 7:01 62	24/7/2017 13:31 62	27/6/2017 22:46 59
3/7/2017 12:01 65	7/7/2017 18:31 66	13/7/2017 13:01 62	19/7/2017 7:31 63	24/7/2017 14:01 61	27/6/2017 22:51 62

Real-time Noise Data	RTN2a (Hong Kong Electric Cent				
27/6/2017 22:56 61	30/6/2017 20:01 58	1/7/2017 13:06 58	1/7/2017 22:11 52	2/7/2017 15:16 50	3/7/2017 20:21 54
28/6/2017 19:01 64	30/6/2017 20:06 57	1/7/2017 13:11 57	1/7/2017 22:16 62	2/7/2017 15:21 57	3/7/2017 20:26 62
28/6/2017 19:06 62	30/6/2017 20:11 60	1/7/2017 13:16 55	1/7/2017 22:21 48	2/7/2017 15:26 58	3/7/2017 20:31 62
28/6/2017 19:11 62	30/6/2017 20:16 58	1/7/2017 13:21 57	1/7/2017 22:26 56	2/7/2017 15:31 53	3/7/2017 20:36 61
28/6/2017 19:16 62	30/6/2017 20:21 59	1/7/2017 13:26 56	1/7/2017 22:31 61	2/7/2017 15:36 47	3/7/2017 20:41 61
28/6/2017 19:21 62	30/6/2017 20:26 58	1/7/2017 13:31 58	1/7/2017 22:36 61	2/7/2017 15:41 52	3/7/2017 20:46 61
28/6/2017 19:26 62	30/6/2017 20:31 59	1/7/2017 13:36 56	1/7/2017 22:41 61	2/7/2017 15:46 56	3/7/2017 20:51 61
28/6/2017 19:31 63	30/6/2017 20:36 57	1/7/2017 13:41 57	1/7/2017 22:46 45	2/7/2017 15:51 53	3/7/2017 20:56 61
28/6/2017 19:36 63	30/6/2017 20:41 57	1/7/2017 13:46 57	1/7/2017 22:51 51	2/7/2017 15:56 56	3/7/2017 21:01 61
28/6/2017 19:41 62	30/6/2017 20:46 57	1/7/2017 13:51 56	1/7/2017 22:56 66	2/7/2017 16:01 60	3/7/2017 21:06 61
28/6/2017 19:46 60	30/6/2017 20:51 57	1/7/2017 13:56 53	2/7/2017 7:01 61	2/7/2017 16:06 60	3/7/2017 21:11 61
28/6/2017 19:51 60	30/6/2017 20:56 61	1/7/2017 14:01 55	2/7/2017 7:06 61	2/7/2017 16:11 56	3/7/2017 21:16 61
28/6/2017 19:56 53	30/6/2017 21:01 57	1/7/2017 14:06 58	2/7/2017 7:11 61	2/7/2017 16:16 54	3/7/2017 21:21 61
28/6/2017 20:01 52	30/6/2017 21:06 56	1/7/2017 14:11 54	2/7/2017 7:16 61	2/7/2017 16:21 52	3/7/2017 21:26 61
28/6/2017 20:06 59	30/6/2017 21:11 53	1/7/2017 14:16 58	2/7/2017 7:21 61	2/7/2017 16:26 49	3/7/2017 21:31 60
28/6/2017 20:11 54	30/6/2017 21:16 55	1/7/2017 14:21 57	2/7/2017 7:26 61	2/7/2017 16:31 62	3/7/2017 21:36 36
28/6/2017 20:16 57	30/6/2017 21:21 56	1/7/2017 14:26 58	2/7/2017 7:31 62	2/7/2017 16:36 52	3/7/2017 21:41 64
28/6/2017 20:21 54	30/6/2017 21:26 58	1/7/2017 14:31 56	2/7/2017 7:36 61	2/7/2017 16:41 62	3/7/2017 21:46 61
28/6/2017 20:26 55	30/6/2017 21:31 57	1/7/2017 14:36 56	2/7/2017 7:41 61	2/7/2017 16:46 46	3/7/2017 21:51 48
28/6/2017 20:31 57	30/6/2017 21:36 56	1/7/2017 14:41 57	2/7/2017 7:46 61	2/7/2017 16:51 47	3/7/2017 21:56 55
28/6/2017 20:36 54	30/6/2017 21:41 57	1/7/2017 14:46 59	2/7/2017 7:51 61	2/7/2017 16:56 62	3/7/2017 22:01 61
28/6/2017 20:41 54	30/6/2017 21:46 57	1/7/2017 14:51 57	2/7/2017 7:56 59	2/7/2017 17:01 62	3/7/2017 22:06 61
28/6/2017 20:46 50	30/6/2017 21:51 54	1/7/2017 14:56 57	2/7/2017 8:01 61	2/7/2017 17:06 62	3/7/2017 22:11 49
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28/6/2017 20:56 62	30/6/2017 22:01 52	1/7/2017 15:06 58	2/7/2017 8:11 54	2/7/2017 17:16 62	3/7/2017 22:21 56
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28/6/2017 21:06 51	30/6/2017 22:11 57	1/7/2017 15:16 53	2/7/2017 8:21 61	2/7/2017 17:26 62	3/7/2017 22:31 62
28/6/2017 21:11 62	30/6/2017 22:16 59	1/7/2017 15:21 56	2/7/2017 8:26 56	2/7/2017 17:31 49	3/7/2017 22:36 62
28/6/2017 21:16 62	30/6/2017 22:21 60	1/7/2017 15:26 56	2/7/2017 8:31 56	2/7/2017 17:36 51	3/7/2017 22:41 54
28/6/2017 21:21 57	30/6/2017 22:26 56	1/7/2017 15:31 56	2/7/2017 8:36 62	2/7/2017 17:41 56	3/7/2017 22:46 55
28/6/2017 21:26 57	30/6/2017 22:31 56	1/7/2017 15:36 57	2/7/2017 8:41 62	2/7/2017 17:46 59	3/7/2017 22:51 55
28/6/2017 21:31 62	30/6/2017 22:36 56	1/7/2017 15:41 57	2/7/2017 8:46 55	2/7/2017 17:51 53	3/7/2017 22:56 54
28/6/2017 21:36 53	30/6/2017 22:41 57	1/7/2017 15:46 56	2/7/2017 8:51 62	2/7/2017 17:56 52	4/7/2017 19:01 60
28/6/2017 21:41 62	30/6/2017 22:46 57	1/7/2017 15:51 57	2/7/2017 8:56 44	2/7/2017 18:01 58	4/7/2017 19:06 62
28/6/2017 21:46 50	30/6/2017 22:51 55	1/7/2017 15:56 56	2/7/2017 9:01 54 2/7/2017 9:06 62	2/7/2017 18:06 57	4/7/2017 19:11 57 4/7/2017 19:16 45
28/6/2017 21:56 60	1/7/2017 7:01 50	1/7/2017 16:06 54	2/7/2017 9:11 39	2/7/2017 18:11 54 2/7/2017 18:16 58	4/7/2017 19:21 60
28/6/2017 22:01 62	1/7/2017 7:06 48	1/7/2017 16:11 57	2/7/2017 9:16 46	2/7/2017 18:21 62	4/7/2017 19:26 58
28/6/2017 22:06 51	1/7/2017 7:11 56	1/7/2017 16:16 55	2/7/2017 9:21 62	2/7/2017 18:26 54	4/7/2017 19:31 56
28/6/2017 22:11 56	1/7/2017 7:16 47	1/7/2017 16:21 55	2/7/2017 9:26 58	2/7/2017 18:31 50	4/7/2017 19:36 60
28/6/2017 22:16 45	1/7/2017 7:21 61	1/7/2017 16:26 59	2/7/2017 9:31 53	2/7/2017 18:36 54	4/7/2017 19:41 57
28/6/2017 22:21 62	1/7/2017 7:26 58	1/7/2017 16:31 57	2/7/2017 9:36 62	2/7/2017 18:41 45	4/7/2017 19:46 61
28/6/2017 22:26 53	1/7/2017 7:31 49	1/7/2017 16:36 59	2/7/2017 9:41 62	2/7/2017 18:46 57	4/7/2017 19:51 61
28/6/2017 22:31 42	1/7/2017 7:36 62	1/7/2017 16:41 57	2/7/2017 9:46 45	2/7/2017 18:51 56	4/7/2017 19:56 57
28/6/2017 22:36 63	1/7/2017 7:41 58	1/7/2017 16:46 56	2/7/2017 9:51 62	2/7/2017 18:56 51	4/7/2017 20:01 57
28/6/2017 22:41 58	1/7/2017 7:46 58	1/7/2017 16:51 56	2/7/2017 9:56 62	2/7/2017 19:01 55	4/7/2017 20:06 58
28/6/2017 22:46 58	1/7/2017 7:51 58	1/7/2017 16:56 57	2/7/2017 10:01 50	2/7/2017 19:06 62	4/7/2017 20:11 60
28/6/2017 22:51 46	1/7/2017 7:56 60	1/7/2017 17:01 56	2/7/2017 10:06 40	2/7/2017 19:11 45	4/7/2017 20:16 56
28/6/2017 22:56 62	1/7/2017 8:01 65	1/7/2017 17:06 57	2/7/2017 10:11 55	2/7/2017 19:16 62	4/7/2017 20:21 60
29/6/2017 19:01 63	1/7/2017 8:06 57	1/7/2017 17:11 58	2/7/2017 10:16 53	2/7/2017 19:21 54	4/7/2017 20:26 54
29/6/2017 19:06 64	1/7/2017 8:11 56	1/7/2017 17:16 59	2/7/2017 10:21 55	2/7/2017 19:26 48	4/7/2017 20:31 62
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29/6/2017 19:16 61	1/7/2017 8:21 55	1/7/2017 17:26 58	2/7/2017 10:31 54	2/7/2017 19:36 56	4/7/2017 20:41 62
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29/6/2017 19:26 62	1/7/2017 8:31 60	1/7/2017 17:36 57	2/7/2017 10:41 52	2/7/2017 19:46 36	4/7/2017 20:51 62
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29/6/2017 19:36 62	1/7/2017 8:41 61	1/7/2017 17:46 57	2/7/2017 10:51 59	2/7/2017 19:56 53	4/7/2017 21:01 57
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29/6/2017 19:51 62	1/7/2017 8:56 61	1/7/2017 18:01 61	2/7/2017 11:06 51	2/7/2017 20:11 61	4/7/2017 21:16 55
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Real-time Noise Data 23/7/2017 22:26 65	RTN2a (Hong Kong Electric Centr 26/7/2017 19:31 58	r <u>e)</u> 27/6/2017 5:21 55	28/6/2017 6:26 56	29/6/2017 23:31 63	1/7/2017 0:36 58
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23/7/2017 22:51 71	26/7/2017 19:56 60	27/6/2017 5:46 54	28/6/2017 6:51 58	29/6/2017 23:56 63	1/7/2017 1:01 60
23/7/2017 22:56 63	26/7/2017 20:01 63	27/6/2017 5:51 55	28/6/2017 6:56 58	30/6/2017 0:01 64	1/7/2017 1:06 59
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24/7/2017 19:06 53	26/7/2017 20:11 61	27/6/2017 6:01 58	28/6/2017 23:06 58	30/6/2017 0:11 63	1/7/2017 1:16 59
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24/7/2017 19:46 55	26/7/2017 20:51 58	27/6/2017 6:41 58	28/6/2017 23:46 60	30/6/2017 0:51 62	1/7/2017 1:56 59
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24/7/2017 19:56 40	26/7/2017 21:01 56	27/6/2017 6:51 58	28/6/2017 23:56 59	30/6/2017 1:01 62	1/7/2017 2:06 59
24/7/2017 20:01 62	26/7/2017 21:06 52	27/6/2017 6:56 59	29/6/2017 0:01 59	30/6/2017 1:06 61	1/7/2017 2:11 58
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Real-time Noise Data 9/7/2017 0:11 57	RTN2a (Hong Kong Electric Central 10/7/2017 1:16 52	<u>e)</u> 11/7/2017 2:21 59	12/7/2017 3:26 59	13/7/2017 4:31 58	14/7/2017 5:36 57
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10/7/2017 1:06 54	11/7/2017 2:11 59	12/7/2017 3:16 58	13/7/2017 4:21 57	14/7/2017 5:26 55	15/7/2017 6:31 63
10/7/2017 1:00 54	11/7/2017 2:16 59	12/7/2017 3:10 58	13/7/2017 4:26 57	14/7/2017 5:31 55	15/7/2017 6:36 63

Real-time Noise Data	RTN2a (Hong Kong Electric Cent	re)			
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15/7/2017 23:11 61	17/7/2017 0:16 60	18/7/2017 1:21 55	19/7/2017 2:26 58	20/7/2017 3:31 52	21/7/2017 4:36 54
15/7/2017 23:16 62	17/7/2017 0:21 60	18/7/2017 1:26 55	19/7/2017 2:31 58	20/7/2017 3:36 53	21/7/2017 4:41 54
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15/7/2017 23:26 61	17/7/2017 0:31 60	18/7/2017 1:36 55	19/7/2017 2:41 57	20/7/2017 3:46 49	21/7/2017 4:51 50
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16/7/2017 4:26 59	17/7/2017 5:31 59	18/7/2017 6:36 55	19/7/2017 23:41 64	21/7/2017 0:46 55	22/7/2017 1:51 58
16/7/2017 4:31 60	17/7/2017 5:36 59	18/7/2017 6:41 58	19/7/2017 23:46 61	21/7/2017 0:51 57	22/7/2017 1:56 35
16/7/2017 4:36 61 16/7/2017 4:41 60	17/7/2017 5:41 63	18/7/2017 6:46 60	19/7/2017 23:51 57	21/7/2017 0:56 56	22/7/2017 2:01 58 22/7/2017 2:06 47
16/7/2017 4:46 61	17/7/2017 5:51 61	18/7/2017 6:56 59	19/7/2017 23:56 56 20/7/2017 0:01 57	21/7/2017 1:06 54	22/7/2017 2:11 58
16/7/2017 4:51 60	17/7/2017 5:56 60	18/7/2017 23:01 64	20/7/2017 0:06 56	21/7/2017 1:11 54	22/7/2017 2:16 42
16/7/2017 4:56 61	17/7/2017 6:01 61	18/7/2017 23:06 64	20/7/2017 0:11 57	21/7/2017 1:16 54	22/7/2017 2:21 45
16/7/2017 5:01 60	17/7/2017 6:06 60	18/7/2017 23:11 65	20/7/2017 0:16 58	21/7/2017 1:21 55	22/7/2017 2:26 58
16/7/2017 5:11 59	17/7/2017 6:11 63	18/7/2017 23:16 66	20/7/2017 0:21 59	21/7/2017 1:26 55	22/7/2017 2:31 58
	17/7/2017 6:16 66	18/7/2017 23:21 67	20/7/2017 0:26 57	21/7/2017 1:31 53	22/7/2017 2:36 58
16/7/2017 5:16 62	17/7/2017 6:21 64	18/7/2017 23:26 69	20/7/2017 0:31 55	21/7/2017 1:36 53	22/7/2017 2:41 58
16/7/2017 5:21 62	17/7/2017 6:26 62	18/7/2017 23:31 70	20/7/2017 0:36 58	21/7/2017 1:41 55	22/7/2017 2:46 58
16/7/2017 5:26 62	17/7/2017 6:31 61	18/7/2017 23:36 73	20/7/2017 0:41 56	21/7/2017 1:46 56	22/7/2017 2:51 58
16/7/2017 5:31 61	17/7/2017 6:36 61	18/7/2017 23:41 73	20/7/2017 0:46 55	21/7/2017 1:51 53	22/7/2017 2:56 58
16/7/2017 5:36 61	17/7/2017 6:41 61	18/7/2017 23:46 73	20/7/2017 0:51 54	21/7/2017 1:56 53	22/7/2017 3:01 58
16/7/2017 5:41 61	17/7/2017 6:46 61	18/7/2017 23:51 71	20/7/2017 0:56 56	21/7/2017 2:01 54	22/7/2017 3:06 53
16/7/2017 5:46 61	17/7/2017 6:51 62	18/7/2017 23:56 70	20/7/2017 1:01 58	21/7/2017 2:06 57	22/7/2017 3:11 58
16/7/2017 5:51 60	17/7/2017 6:56 61	19/7/2017 0:01 70	20/7/2017 1:06 54	21/7/2017 2:11 57	22/7/2017 3:16 58
16/7/2017 5:56 59	17/7/2017 23:01 60	19/7/2017 0:06 69	20/7/2017 1:11 53	21/7/2017 2:21 54	22/7/2017 3:21 57
16/7/2017 6:01 59	17/7/2017 23:06 60	19/7/2017 0:11 67	20/7/2017 1:16 55		22/7/2017 3:26 58
16/7/2017 6:06 61	17/7/2017 23:11 60	19/7/2017 0:16 66	20/7/2017 1:21 55	21/7/2017 2:26 51	22/7/2017 3:31 57
16/7/2017 6:11 61	17/7/2017 23:16 59	19/7/2017 0:21 65	20/7/2017 1:26 58	21/7/2017 2:31 54	22/7/2017 3:36 58
16/7/2017 6:16 59	17/7/2017 23:21 59	19/7/2017 0:26 66	20/7/2017 1:31 57	21/7/2017 2:36 54	22/7/2017 3:41 57
16/7/2017 6:21 60	17/7/2017 23:26 59	19/7/2017 0:31 64	20/7/2017 1:36 53	21/7/2017 2:41 54	22/7/2017 3:46 57
16/7/2017 6:26 61	17/7/2017 23:31 59	19/7/2017 0:36 63	20/7/2017 1:41 53	21/7/2017 2:46 52	22/7/2017 3:51 57
16/7/2017 6:31 61	17/7/2017 23:36 58	19/7/2017 0:41 63	20/7/2017 1:46 56	21/7/2017 2:51 51	22/7/2017 3:56 58
16/7/2017 6:36 66	17/7/2017 23:41 58	19/7/2017 0:46 63	20/7/2017 1:51 52	21/7/2017 2:56 55	22/7/2017 4:01 58
16/7/2017 6:41 65	17/7/2017 23:46 58	19/7/2017 0:51 63	20/7/2017 1:56 53	21/7/2017 3:01 55	22/7/2017 4:06 57
16/7/2017 6:46 61	17/7/2017 23:51 57	19/7/2017 0:56 63	20/7/2017 2:01 51	21/7/2017 3:06 58	22/7/2017 4:11 57
16/7/2017 6:51 62	17/7/2017 23:56 57	19/7/2017 1:01 63	20/7/2017 2:06 53	21/7/2017 3:11 53	22/7/2017 4:16 58
16/7/2017 6:56 63	18/7/2017 0:01 57	19/7/2017 1:06 62	20/7/2017 2:11 53	21/7/2017 3:16 54	22/7/2017 4:21 42
16/7/2017 23:01 64	18/7/2017 0:06 57	19/7/2017 1:11 63	20/7/2017 2:16 55	21/7/2017 3:21 50	22/7/2017 4:26 57
16/7/2017 23:06 64	18/7/2017 0:11 57	19/7/2017 1:16 63	20/7/2017 2:21 54	21/7/2017 3:26 52	22/7/2017 4:31 57
16/7/2017 23:11 63	18/7/2017 0:16 57	19/7/2017 1:21 62	20/7/2017 2:26 51	21/7/2017 3:31 54	22/7/2017 4:36 58
16/7/2017 23:16 63	18/7/2017 0:21 56	19/7/2017 1:26 62	20/7/2017 2:31 54	21/7/2017 3:36 51	22/7/2017 4:41 58
16/7/2017 23:21 63	18/7/2017 0:26 56	19/7/2017 1:31 62	20/7/2017 2:36 53	21/7/2017 3:41 58	22/7/2017 4:46 57
16/7/2017 23:26 63	18/7/2017 0:31 57	19/7/2017 1:36 62	20/7/2017 2:41 53	21/7/2017 3:46 55	22/7/2017 4:51 58
16/7/2017 23:31 62	18/7/2017 0:36 56	19/7/2017 1:41 62	20/7/2017 2:46 50	21/7/2017 3:51 56	22/7/2017 4:56 65
16/7/2017 23:36 61	18/7/2017 0:41 57	19/7/2017 1:46 61	20/7/2017 2:51 49	21/7/2017 3:56 51	22/7/2017 5:01 65
16/7/2017 23:41 60	18/7/2017 0:46 58	19/7/2017 1:51 60	20/7/2017 2:56 52	21/7/2017 4:01 47	22/7/2017 5:06 53

Real-time Noise I	Data	PTN2a (Hong Kong	Electric Centre)			
22/7/2017 5:11	58	RTN2a (Hong Kong 23/7/2017 6:16	38	24/7/2017 23:21	51	26/7/2017 0:26
22/7/2017 5:16	58	23/7/2017 6:21	55	24/7/2017 23:26	50	26/7/2017 0:31
22/7/2017 5:21	53	23/7/2017 6:26	48	24/7/2017 23:31	53	26/7/2017 0:36
22/7/2017 5:26 22/7/2017 5:31	57 57	23/7/2017 6:31 23/7/2017 6:36	49 47	24/7/2017 23:36 24/7/2017 23:41		26/7/2017 0:41 26/7/2017 0:46
22/7/2017 5:36	57	23/7/2017 6:41	41	24/7/2017 23:46	51	26/7/2017 0:51
22/7/2017 5:41	58	23/7/2017 6:46	38	24/7/2017 23:51	56	26/7/2017 0:56
22/7/2017 5:46 22/7/2017 5:51	58 48	23/7/2017 6:51 23/7/2017 6:56	51 47	24/7/2017 23:56 25/7/2017 0:01	51 49	26/7/2017 1:01 26/7/2017 1:06
22/7/2017 5:56	58	23/7/2017 0.30	61	25/7/2017 0:01	55	26/7/2017 1:00
22/7/2017 6:01	58	23/7/2017 23:06	60	25/7/2017 0:11	56	26/7/2017 1:16
22/7/2017 6:06	58	23/7/2017 23:11	60	25/7/2017 0:16	50	26/7/2017 1:21
22/7/2017 6:11 22/7/2017 6:16	58 47	23/7/2017 23:16 23/7/2017 23:21	57 62	25/7/2017 0:21 25/7/2017 0:26	47 50	26/7/2017 1:26 26/7/2017 1:31
22/7/2017 6:10	46	23/7/2017 23:26	55	25/7/2017 0:20	58	26/7/2017 1:36
22/7/2017 6:26	44	23/7/2017 23:31	58	25/7/2017 0:36	51	26/7/2017 1:41
22/7/2017 6:31	58	23/7/2017 23:36	57	25/7/2017 0:41	43	26/7/2017 1:46
22/7/2017 6:36 22/7/2017 6:41	49 54	23/7/2017 23:41 23/7/2017 23:46	55 55	25/7/2017 0:46 25/7/2017 0:51	58 47	26/7/2017 1:51 26/7/2017 1:56
22/7/2017 6:46	58	23/7/2017 23:51	53	25/7/2017 0:56	53	26/7/2017 2:01
22/7/2017 6:51	48	23/7/2017 23:56	54	25/7/2017 1:01	58	26/7/2017 2:06
22/7/2017 6:56 22/7/2017 23:01	51 56	24/7/2017 0:01 24/7/2017 0:06	45 50	25/7/2017 1:06 25/7/2017 1:11	58 58	26/7/2017 2:11 26/7/2017 2:16
22/7/2017 23:06	54	24/7/2017 0:00	45	25/7/2017 1:16	58	26/7/2017 2:10
22/7/2017 23:11	53	24/7/2017 0:16	50	25/7/2017 1:21	45	26/7/2017 2:26
22/7/2017 23:16	56	24/7/2017 0:21	42	25/7/2017 1:26	58	26/7/2017 2:31
22/7/2017 23:21 22/7/2017 23:26	56 57	24/7/2017 0:26 24/7/2017 0:31	53 57	25/7/2017 1:31 25/7/2017 1:36	58 57	26/7/2017 2:36 26/7/2017 2:41
22/7/2017 23:31	55	24/7/2017 0:36	58	25/7/2017 1:41	58	26/7/2017 2:46
22/7/2017 23:36	54	24/7/2017 0:41	54	25/7/2017 1:46	57	26/7/2017 2:51
22/7/2017 23:41 22/7/2017 23:46	53 54	24/7/2017 0:46 24/7/2017 0:51	48 47	25/7/2017 1:51 25/7/2017 1:56	58 58	26/7/2017 2:56 26/7/2017 3:01
22/7/2017 23:51	55	24/7/2017 0:56	49	25/7/2017 1:30	58	26/7/2017 3:06
22/7/2017 23:56	59	24/7/2017 1:01	41	25/7/2017 2:06	57	26/7/2017 3:11
23/7/2017 0:01	54	24/7/2017 1:06	58	25/7/2017 2:11	57	26/7/2017 3:16
23/7/2017 0:06 23/7/2017 0:11	52 51	24/7/2017 1:11 24/7/2017 1:16	58 58	25/7/2017 2:16 25/7/2017 2:21	57 57	26/7/2017 3:21 26/7/2017 3:26
23/7/2017 0:16	51	24/7/2017 1:10	58	25/7/2017 2:26	57	26/7/2017 3:31
23/7/2017 0:21	51	24/7/2017 1:26	58	25/7/2017 2:31	57	26/7/2017 3:36
23/7/2017 0:26	54	24/7/2017 1:31	58	25/7/2017 2:36	57	26/7/2017 3:41
23/7/2017 0:31 23/7/2017 0:36	51 53	24/7/2017 1:36 24/7/2017 1:41	58 54	25/7/2017 2:41 25/7/2017 2:46	57 58	26/7/2017 3:46 26/7/2017 3:51
23/7/2017 0:41	53	24/7/2017 1:46	48	25/7/2017 2:51	54	26/7/2017 3:56
23/7/2017 0:46	45	24/7/2017 1:51	54	25/7/2017 2:56	57	26/7/2017 4:01
23/7/2017 0:51	47	24/7/2017 1:56	56	25/7/2017 3:01	57	26/7/2017 4:06
23/7/2017 0:56 23/7/2017 1:01	51 44	24/7/2017 2:01 24/7/2017 2:06	55 55	25/7/2017 3:06 25/7/2017 3:11	57 57	26/7/2017 4:11 26/7/2017 4:16
23/7/2017 1:06	51	24/7/2017 2:11	58	25/7/2017 3:16	56	26/7/2017 4:21
23/7/2017 1:11	42	24/7/2017 2:16	58	25/7/2017 3:21	57	26/7/2017 4:26
23/7/2017 1:16 23/7/2017 1:21	50 40	24/7/2017 2:21 24/7/2017 2:26	58 57	25/7/2017 3:26 25/7/2017 3:31	57 56	26/7/2017 4:31 26/7/2017 4:36
23/7/2017 1:26	44	24/7/2017 2:31	57	25/7/2017 3:36	57	26/7/2017 4:41
23/7/2017 1:31	58	24/7/2017 2:36	57	25/7/2017 3:41	57	26/7/2017 4:46
23/7/2017 1:36	58	24/7/2017 2:41	57	25/7/2017 3:46	58	26/7/2017 4:51
23/7/2017 1:41 23/7/2017 1:46	58 47	24/7/2017 2:46 24/7/2017 2:51	57 57	25/7/2017 3:51 25/7/2017 3:56	57 57	26/7/2017 4:56 26/7/2017 5:01
23/7/2017 1:51	47	24/7/2017 2:56	57	25/7/2017 4:01	57	26/7/2017 5:06
23/7/2017 1:56	58	24/7/2017 3:01	57	25/7/2017 4:06	57	26/7/2017 5:11
23/7/2017 2:01 23/7/2017 2:06	58 58	24/7/2017 3:06 24/7/2017 3:11	57 56	25/7/2017 4:11 25/7/2017 4:16	57 56	26/7/2017 5:16 26/7/2017 5:21
23/7/2017 2:00	58	24/7/2017 3:16	56	25/7/2017 4:10	57	26/7/2017 5:26
23/7/2017 2:16	58	24/7/2017 3:21	57	25/7/2017 4:26	54	26/7/2017 5:31
23/7/2017 2:21	57	24/7/2017 3:26	57	25/7/2017 4:31 25/7/2017 4:36	58	26/7/2017 5:36
23/7/2017 2:26 23/7/2017 2:31	57 58	24/7/2017 3:31 24/7/2017 3:36	57 57	25/7/2017 4:36	57 57	26/7/2017 5:41 26/7/2017 5:46
23/7/2017 2:36	56	24/7/2017 3:41	57	25/7/2017 4:46	57	26/7/2017 5:51
23/7/2017 2:41	48	24/7/2017 3:46	57	25/7/2017 4:51	57	26/7/2017 5:56
23/7/2017 2:46 23/7/2017 2:51	58 58	24/7/2017 3:51 24/7/2017 3:56	56 56	25/7/2017 4:56 25/7/2017 5:01	57 57	26/7/2017 6:01 26/7/2017 6:06
23/7/2017 2:56	57	24/7/2017 4:01	56	25/7/2017 5:06	57	26/7/2017 6:00
23/7/2017 3:01	57	24/7/2017 4:06	56	25/7/2017 5:11	57	26/7/2017 6:16
23/7/2017 3:06	57	24/7/2017 4:11	57	25/7/2017 5:16	58	26/7/2017 6:21
23/7/2017 3:11 23/7/2017 3:16	57 57	24/7/2017 4:16 24/7/2017 4:21	56 57	25/7/2017 5:21 25/7/2017 5:26	58 57	26/7/2017 6:26 26/7/2017 6:31
23/7/2017 3:21	58	24/7/2017 4:26	56	25/7/2017 5:31	57	26/7/2017 6:36
23/7/2017 3:26	57	24/7/2017 4:31	56	25/7/2017 5:36	57	26/7/2017 6:41
23/7/2017 3:31 23/7/2017 3:36	57 57	24/7/2017 4:36 24/7/2017 4:41	56 57	25/7/2017 5:41 25/7/2017 5:46	57 58	26/7/2017 6:46 26/7/2017 6:51
23/7/2017 3:30	57	24/7/2017 4:46	57	25/7/2017 5:51	57	26/7/2017 6:56
23/7/2017 3:46	57	24/7/2017 4:51	57	25/7/2017 5:56	57	26/7/2017 23:01
23/7/2017 3:51 23/7/2017 3:56	57 57	24/7/2017 4:56 24/7/2017 5:01	57 57	25/7/2017 6:01 25/7/2017 6:06	58 58	26/7/2017 23:06 26/7/2017 23:11
23/7/2017 3:56	57 57	24/7/2017 5:01	58	25/7/2017 6:06	58	26/7/2017 23:16
23/7/2017 4:06	57	24/7/2017 5:11	56	25/7/2017 6:16	35	26/7/2017 23:21
23/7/2017 4:11	57	24/7/2017 5:16	57	25/7/2017 6:21	39	26/7/2017 23:26
23/7/2017 4:16 23/7/2017 4:21	57 58	24/7/2017 5:21 24/7/2017 5:26	57 57	25/7/2017 6:26 25/7/2017 6:31	42 48	26/7/2017 23:31 26/7/2017 23:36
23/7/2017 4:26	57	24/7/2017 5:31	57	25/7/2017 6:36	47	26/7/2017 23:41
23/7/2017 4:31	57	24/7/2017 5:36	57	25/7/2017 6:41	45	26/7/2017 23:46
23/7/2017 4:36 23/7/2017 4:41	57 57	24/7/2017 5:41 24/7/2017 5:46	57 58	25/7/2017 6:46 25/7/2017 6:51	56 56	26/7/2017 23:51 26/7/2017 23:56
23/7/2017 4:41	57 57	24/7/2017 5:46	58	25/7/2017 6:56	52	20/1/201/ 23.30
23/7/2017 4:51	58	24/7/2017 5:56	57	25/7/2017 23:01	55	
23/7/2017 4:56	57 57	24/7/2017 6:01	58	25/7/2017 23:06		
23/7/2017 5:01 23/7/2017 5:06	57 57	24/7/2017 6:06 24/7/2017 6:11	58 57	25/7/2017 23:11 25/7/2017 23:16		
23/7/2017 5:00	57	24/7/2017 6:16	53	25/7/2017 23:21		
23/7/2017 5:16	57	24/7/2017 6:21	51	25/7/2017 23:26		
23/7/2017 5:21 23/7/2017 5:26	57 57	24/7/2017 6:26 24/7/2017 6:31	46 51	25/7/2017 23:31 25/7/2017 23:36		
23/7/2017 5:20	57	24/7/2017 6:36	48	25/7/2017 23:41		
23/7/2017 5:36	57	24/7/2017 6:41	50	25/7/2017 23:46	54	
23/7/2017 5:41 23/7/2017 5:46	58 57	24/7/2017 6:46	56 55	25/7/2017 23:51 25/7/2017 23:56		
23/7/2017 5:46	57 58	24/7/2017 6:51 24/7/2017 6:56	55 55	26/7/2017 0:01	51	
23/7/2017 5:56	53	24/7/2017 23:01	59	26/7/2017 0:06	51	
23/7/2017 6:01	58 58	24/7/2017 23:06		26/7/2017 0:11	50 46	
23/7/2017 6:06 23/7/2017 6:11	58 58	24/7/2017 23:11 24/7/2017 23:16		26/7/2017 0:16 26/7/2017 0:21	46 58	
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 $\frac{473}{555} \\ \frac{588}{558} \\ \frac{888}{558} \\ \frac{888}{558} \\ \frac{847}{555} \\ \frac{888}{558} \\ \frac{888}{555} \\ \frac{888}{555} \\ \frac{888}{555} \\ \frac{888}{555} \\ \frac{887}{555} \\ \frac{557}{555} \\ \frac{577}{577} \\ \frac{777}{577} \\$ 

Dool time Naise Date	DTN2 (Da Laure Kuk Vu Laa Ma	Fan Mamarial Cabaal\			
Real-time Noise Data Normal Day 07:00-19:00	RTN3 (Po Leung Kuk Yu Lee Mo 3/7/2017 12:31 69	8/7/2017 7:01 71	13/7/2017 13:31 69	19/7/2017 8:01 69	24/7/2017 14:31 70
27/6/2017 7:01 69	3/7/2017 13:01 70	8/7/2017 7:31 69	13/7/2017 14:01 69	19/7/2017 8:31 68	24/7/2017 15:01 69
	3/7/2017 13:31 61	8/7/2017 8:01 69	13/7/2017 14:31 69	19/7/2017 9:01 68	24/7/2017 15:31 69
27/6/2017 7:31 69	3/7/2017 14:01 70	8/7/2017 8:31 70	13/7/2017 15:01 69	19/7/2017 9:31 69	24/7/2017 16:01 69
27/6/2017 8:01 69	3/7/2017 14:31 69	8/7/2017 9:01 53	13/7/2017 15:31 69	19/7/2017 10:01 61	24/7/2017 16:31 69
27/6/2017 8:31 69	3/7/2017 15:01 70	8/7/2017 9:31 68	13/7/2017 16:01 69	19/7/2017 10:31 67	24/7/2017 17:01 69
27/6/2017 9:01 69	3/7/2017 15:31 70	8/7/2017 10:01 68	13/7/2017 16:31 69	19/7/2017 11:01 64	24/7/2017 17:31 69
27/6/2017 9:31 68	3/7/2017 16:01 69	8/7/2017 10:31 67	13/7/2017 17:01 69	19/7/2017 11:31 59	24/7/2017 18:01 70
27/6/2017 10:01 68	3/7/2017 16:31 69	8/7/2017 11:01 68	13/7/2017 17:31 69	19/7/2017 12:01 69	24/7/2017 18:31 69
27/6/2017 10:31 69	3/7/2017 17:01 69	8/7/2017 11:31 69	13/7/2017 17:31 69	19/7/2017 12:31 70	25/7/2017 7:01 69
27/6/2017 11:01 68	3/7/2017 17:31 58	8/7/2017 12:01 69	13/7/2017 18:31 69	19/7/2017 13:01 70	25/7/2017 7:31 52
27/6/2017 11:31 70	3/7/2017 18:01 69	8/7/2017 12:31 52	14/7/2017 7:01 70	19/7/2017 13:31 70	25/7/2017 8:01 68
27/6/2017 11:31 70	3/7/2017 18:31 69	8/7/2017 13:01 49	14/7/2017 7:31 70	19/7/2017 13:31 70	25/7/2017 8:31 67
27/6/2017 12:31 68	4/7/2017 7:01 67	8/7/2017 13:31 69	14/7/2017 8:01 68	19/7/2017 14:31 70	25/7/2017 9:01 67
27/6/2017 13:01 69	4/7/2017 7:31 69	8/7/2017 14:01 69	14/7/2017 8:31 67	19/7/2017 15:01 70	25/7/2017 9:31 69
27/6/2017 13:31 69	4/7/2017 7:31 69 4/7/2017 8:01 68	8/7/2017 14:31 69	14/7/2017 8:31 67 14/7/2017 9:01 69	19/7/2017 15:01 70	25/7/2017 9:31 69 25/7/2017 10:01 70
27/6/2017 14:01 69 27/6/2017 14:31 62	4/7/2017 8:31 68	8/7/2017 15:01 57	14/7/2017 9:31 67	19/7/2017 16:01 70	25/7/2017 10:31 69
27/6/2017 14:31 62	4/7/2017 9:01 67	8/7/2017 15:31 70	14/7/2017 10:01 69	19/7/2017 16:31 69	25/7/2017 11:01 69
27/6/2017 15:01 69	4/7/2017 9:31 69	8/7/2017 16:01 69	14/7/2017 10:31 69	19/7/2017 17:01 59	25/7/2017 11:31 69
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28/6/2017 11:31 68	4/7/2017 18:01 60	10/7/2017 12:31 69	15/7/2017 7:01 68	20/7/2017 13:31 69 20/7/2017 14:01 69	26/7/2017 8:01 69
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29/6/2017 11:01 53	5/7/2017 17:31 64	11/7/2017 12:01 69	15/7/2017 18:31 69	21/7/2017 13:01 69	Normal Day 19:00-23:00,
29/6/2017 11:31 69	5/7/2017 18:01 69	11/7/2017 12:31 69	17/7/2017 7:01 61	21/7/2017 13:31 69	Sunday & Holiday
29/6/2017 12:01 69	5/7/2017 18:31 69	11/7/2017 13:01 69	17/7/2017 7:31 67	21/7/2017 14:01 53	07:00-23:00
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3/7/2017 7:31 69	7/7/2017 14:01 69	13/7/2017 8:31 68	18/7/2017 15:01 52	24/7/2017 9:31 67	27/6/2017 22:06 62
3/7/2017 8:01 68	7/7/2017 14:31 68	13/7/2017 9:01 68	18/7/2017 15:31 70	24/7/2017 10:01 69	27/6/2017 22:11 64
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3/7/2017 9:31 68	7/7/2017 16:01 70	13/7/2017 10:31 67	18/7/2017 17:01 67	24/7/2017 11:31 54	27/6/2017 22:26 62
3/7/2017 10:01 69	7/7/2017 16:31 56	13/7/2017 11:01 59	18/7/2017 17:31 70	24/7/2017 12:01 69	27/6/2017 22:31 61
3/7/2017 10:31 69	7/7/2017 17:31 69	13/7/2017 11:31 69	18/7/2017 18:01 68	24/7/2017 12:31 70	27/6/2017 22:36 62
3/7/2017 11:01 69		13/7/2017 12:01 69	18/7/2017 18:31 62	24/7/2017 13:01 69	27/6/2017 22:41 61
3/7/2017 11:31 70	7/7/2017 18:01 69	13/7/2017 12:31 69	19/7/2017 7:01 69	24/7/2017 13:31 70	27/6/2017 22:46 63
3/7/2017 12:01 65	7/7/2017 18:31 61	13/7/2017 13:01 69	19/7/2017 7:31 70	24/7/2017 14:01 54	27/6/2017 22:51 61

Real-time Noise Data 27/6/2017 22:56 61	RTN3 (Po Leung Kuk Yu Lee Mo 30/6/2017 20:01 63	1/7/2017 13:06 61	1/7/2017 22:11 60	2/7/2017 15:16 63	3/7/2017 20:21 64
28/6/2017 19:01 62	30/6/2017 20:06 66	1/7/2017 13:11 62	1/7/2017 22:16 61	2/7/2017 15:21 63	3/7/2017 20:26 63
28/6/2017 19:06 56 28/6/2017 19:11 61	30/6/2017 20:11 64 30/6/2017 20:16 63	1/7/2017 13:16 62 1/7/2017 13:21 62	1/7/2017 22:21 62 1/7/2017 22:26 61	2/7/2017 15:26 64 2/7/2017 15:31 65	3/7/2017 20:31 65 3/7/2017 20:36 62
28/6/2017 19:16 65	30/6/2017 20:21 62	1/7/2017 13:26 61	1/7/2017 22:31 60	2/7/2017 15:36 64	3/7/2017 20:41 64
28/6/2017 19:21 60 28/6/2017 19:26 63	30/6/2017 20:26 63 30/6/2017 20:31 63	1/7/2017 13:31 60 1/7/2017 13:36 61	1/7/2017 22:36 59 1/7/2017 22:41 56	2/7/2017 15:41 64 2/7/2017 15:46 64	3/7/2017 20:46 63 3/7/2017 20:51 63
28/6/2017 19:31 60	30/6/2017 20:36 62	1/7/2017 13:41 61	1/7/2017 22:46 59	2/7/2017 15:51 65	3/7/2017 20:56 64
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28/6/2017 20:16 62	30/6/2017 21:21 61	1/7/2017 14:26 62	2/7/2017 7:31 51	2/7/2017 16:36 64	3/7/2017 21:41 66
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16/7/2017 15:21 64	17/7/2017 20:26 71	19/7/2017 21:31 63	21/7/2017 22:36 63	23/7/2017 11:41 60	23/7/2017 20:46 64
16/7/2017 15:26 65 16/7/2017 15:31 65	17/7/2017 20:31 72 17/7/2017 20:36 72	19/7/2017 21:36 64 19/7/2017 21:41 63	21/7/2017 22:41 63 21/7/2017 22:46 64	23/7/2017 11:46 60 23/7/2017 11:51 62	23/7/2017 20:51 62 23/7/2017 20:56 62
16/7/2017 15:36 65	17/7/2017 20:41 72	19/7/2017 21:46 64	21/7/2017 22:51 62	23/7/2017 11:56 54	23/7/2017 21:01 64
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16/7/2017 15:51 66	17/7/2017 20:56 70	19/7/2017 22:01 63	22/7/2017 19:06 65	23/7/2017 12:11 61	23/7/2017 21:16 61
16/7/2017 15:56 66 16/7/2017 16:01 66	17/7/2017 21:01 70 17/7/2017 21:06 71	19/7/2017 22:06 64 19/7/2017 22:11 64	22/7/2017 19:11 64 22/7/2017 19:16 62	23/7/2017 12:16 57 23/7/2017 12:21 61	23/7/2017 21:21 64 23/7/2017 21:26 64
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16/7/2017 16:36 64	17/7/2017 21:41 71	19/7/2017 22:46 63	22/7/2017 19:51 65	23/7/2017 12:56 61	23/7/2017 22:01 72
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16/7/2017 16:51 64	17/7/2017 21:56 69	20/7/2017 19:01 65	22/7/2017 20:06 63	23/7/2017 13:11 59	23/7/2017 22:16 61
16/7/2017 16:56 64	17/7/2017 22:01 70	20/7/2017 19:06 65	22/7/2017 20:11 63	23/7/2017 13:16 60	23/7/2017 22:21 62

Real-time Noise Data	RTN3 (Po Leung Kuk Yu Lee Mo	Fan Memorial School)	_		
23/7/2017 22:26 64	26/7/2017 19:31 64	27/6/2017 5:21 57	28/6/2017 6:26 65	29/6/2017 23:31 65	1/7/2017 0:36 66
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23/7/2017 22:36 65	26/7/2017 19:41 64	27/6/2017 5:31 60	28/6/2017 6:36 65	29/6/2017 23:41 65	1/7/2017 0:46 64
23/7/2017 22:41 66	26/7/2017 19:46 63	27/6/2017 5:36 58	28/6/2017 6:41 66	29/6/2017 23:46 65	1/7/2017 0:51 65
23/7/2017 22:46 67	26/7/2017 19:51 64	27/6/2017 5:41 59	28/6/2017 6:46 67	29/6/2017 23:51 65	1/7/2017 0:56 63
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23/7/2017 22:56 69	26/7/2017 20:01 64	27/6/2017 5:51 59	28/6/2017 6:56 66	30/6/2017 0:01 64	1/7/2017 1:06 65
24/7/2017 19:01 66	26/7/2017 20:06 64	27/6/2017 5:56 61	28/6/2017 23:01 66	30/6/2017 0:06 65	1/7/2017 1:11 64
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24/7/2017 19:46 65	26/7/2017 20:51 63	27/6/2017 6:41 67	28/6/2017 23:46 65	30/6/2017 0:51 63	1/7/2017 1:56 61
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24/7/2017 20:21 64	26/7/2017 21:26 60	27/6/2017 23:16 66	29/6/2017 0:21 64	30/6/2017 1:26 66	1/7/2017 2:31 61
24/7/2017 20:26 63	26/7/2017 21:31 63	27/6/2017 23:21 66	29/6/2017 0:26 64	30/6/2017 1:31 59	1/7/2017 2:36 61
24/7/2017 20:31 65	26/7/2017 21:36 62	27/6/2017 23:26 66	29/6/2017 0:31 64	30/6/2017 1:36 56	1/7/2017 2:41 59
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24/7/2017 20:46 63	26/7/2017 21:51 61	27/6/2017 23:41 64	29/6/2017 0:46 63	30/6/2017 1:51 57	1/7/2017 2:56 60
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24/7/2017 20:56 63	26/7/2017 22:01 62	27/6/2017 23:51 65	29/6/2017 0:56 61	30/6/2017 2:01 47	1/7/2017 3:06 60
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24/7/2017 21:16 62	26/7/2017 22:21 61	28/6/2017 0:11 64	29/6/2017 1:16 62	30/6/2017 2:21 49	1/7/2017 3:26 60
24/7/2017 21:21 64	26/7/2017 22:26 62	28/6/2017 0:16 64	29/6/2017 1:21 59	30/6/2017 2:26 56	1/7/2017 3:31 60
24/7/2017 21:26 63	26/7/2017 22:31 63	28/6/2017 0:21 63	29/6/2017 1:26 59	30/6/2017 2:31 56	1/7/2017 3:36 62
24/7/2017 21:31 63	26/7/2017 22:36 61	28/6/2017 0:26 63	29/6/2017 1:31 60	30/6/2017 2:36 59	1/7/2017 3:41 60
24/7/2017 21:36 64	26/7/2017 22:41 63	28/6/2017 0:31 63	29/6/2017 1:36 58	30/6/2017 2:41 63	1/7/2017 3:46 60
24/7/2017 21:41 63	26/7/2017 22:46 62	28/6/2017 0:36 63	29/6/2017 1:41 55	30/6/2017 2:46 62	1/7/2017 3:51 61
24/7/2017 21:46 65	26/7/2017 22:51 63	28/6/2017 0:41 63	29/6/2017 1:46 56	30/6/2017 2:51 63	1/7/2017 3:56 59
24/7/2017 21:51 63	26/7/2017 22:56 63	28/6/2017 0:46 61	29/6/2017 1:51 62	30/6/2017 2:56 63	1/7/2017 4:01 63
24/7/2017 21:56 65		28/6/2017 0:51 62	29/6/2017 1:56 63	30/6/2017 3:01 62	1/7/2017 4:06 61
24/7/2017 22:01 63	Night time: 23:00-07:00	28/6/2017 0:56 61	29/6/2017 2:01 63	30/6/2017 3:06 63	1/7/2017 4:11 57
24/7/2017 22:06 65	27/6/2017 0:01 66	28/6/2017 1:01 61	29/6/2017 2:06 63	30/6/2017 3:11 62	1/7/2017 4:16 60
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24/7/2017 22:16 62	27/6/2017 0:06 65	28/6/2017 1:11 62	29/6/2017 2:16 63	30/6/2017 3:21 45	1/7/2017 4:26 60
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24/7/2017 22:36 63	27/6/2017 0:26 64	28/6/2017 1:31 57	29/6/2017 2:36 40	30/6/2017 3:41 62	1/7/2017 4:51 62
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24/7/2017 22:51 63	27/6/2017 0:41 63	28/6/2017 1:46 55	29/6/2017 2:51 50	30/6/2017 3:56 63	1/7/2017 5:01 61
24/7/2017 22:56 61	27/6/2017 0:46 61	28/6/2017 1:51 62	29/6/2017 2:56 63	30/6/2017 4:01 63	1/7/2017 5:06 61
25/7/2017 19:01 64	27/6/2017 0:51 59	28/6/2017 1:56 62	29/6/2017 3:01 62	30/6/2017 4:06 62	1/7/2017 5:11 61
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25/7/2017 19:31 61 25/7/2017 19:36 63	27/6/2017 1:21 59 27/6/2017 1:26 59	28/6/2017 2:31 62	29/6/2017 3:31 62 29/6/2017 3:36 62	30/6/2017 4:41 62	1/7/2017 5:46 64
25/7/2017 19:41 63	27/6/2017 1:31 57	28/6/2017 2:36 60	29/6/2017 3:41 63	30/6/2017 4:46 53	1/7/2017 5:51 64
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25/7/2017 19:51 62	27/6/2017 1:41 49	28/6/2017 2:46 63	29/6/2017 3:51 61	30/6/2017 4:56 63	1/7/2017 6:01 66
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25/7/2017 20:01 65	27/6/2017 1:51 54	28/6/2017 2:56 62	29/6/2017 4:01 60	30/6/2017 5:06 48	1/7/2017 6:11 64
25/7/2017 20:06 63	27/6/2017 1:56 63	28/6/2017 3:01 53	29/6/2017 4:06 62	30/6/2017 5:11 52	1/7/2017 6:16 63
25/7/2017 20:11 65	27/6/2017 2:01 47	28/6/2017 3:06 62	29/6/2017 4:11 63	30/6/2017 5:16 57	1/7/2017 6:21 63
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25/7/2017 20:41 66	27/6/2017 2:31 62	28/6/2017 3:36 62	29/6/2017 4:41 63	30/6/2017 5:46 63	1/7/2017 6:51 66
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25/7/2017 20:51 64 25/7/2017 20:56 65	27/6/2017 2:46 62	28/6/2017 3:51 61	29/6/2017 4:56 63	30/6/2017 6:01 61	1/7/2017 23:06 70
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25/7/2017 21:11 61	27/6/2017 3:01 61	28/6/2017 4:06 62	29/6/2017 5:11 58	30/6/2017 6:16 65	1/7/2017 23:21 66
25/7/2017 21:16 64	27/6/2017 3:06 62	28/6/2017 4:11 63	29/6/2017 5:16 63	30/6/2017 6:21 65	1/7/2017 23:26 67
25/7/2017 21:21 60	27/6/2017 3:11 63	28/6/2017 4:16 62	29/6/2017 5:21 63	30/6/2017 6:26 66	1/7/2017 23:31 65
25/7/2017 21:26 63	27/6/2017 3:16 61	28/6/2017 4:21 61	29/6/2017 5:26 60	30/6/2017 6:31 66	1/7/2017 23:36 67
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25/7/2017 21:36 64	27/6/2017 3:26 61	28/6/2017 4:31 62	29/6/2017 5:36 61	30/6/2017 6:41 67	1/7/2017 23:46 67
25/7/2017 21:41 62	27/6/2017 3:31 62	28/6/2017 4:36 61	29/6/2017 5:41 60	30/6/2017 6:46 67	1/7/2017 23:51 66
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25/7/2017 21:56 62	27/6/2017 3:46 62	28/6/2017 4:51 62	29/6/2017 5:56 62	30/6/2017 23:01 67	2/7/2017 0:06 65
25/7/2017 22:01 62	27/6/2017 3:51 62	28/6/2017 4:56 63	29/6/2017 6:01 61	30/6/2017 23:06 67	2/7/2017 0:11 65
25/7/2017 22:06 61	27/6/2017 3:56 62	28/6/2017 5:01 63	29/6/2017 6:06 63	30/6/2017 23:11 66	2/7/2017 0:16 63
25/7/2017 22:11 64	27/6/2017 4:01 63	28/6/2017 5:06 62	29/6/2017 6:11 64	30/6/2017 23:16 66	2/7/2017 0:21 64
25/7/2017 22:16 61	27/6/2017 4:06 62	28/6/2017 5:11 63	29/6/2017 6:16 66	30/6/2017 23:21 66	2/7/2017 0:26 65
25/7/2017 22:21 63	27/6/2017 4:11 61	28/6/2017 5:16 56	29/6/2017 6:21 65	30/6/2017 23:26 66	2/7/2017 0:31 63
25/7/2017 22:26 62	27/6/2017 4:16 62	28/6/2017 5:21 63	29/6/2017 6:26 67	30/6/2017 23:31 66	2/7/2017 0:36 64
25/7/2017 22:31 63	27/6/2017 4:21 62	28/6/2017 5:26 58	29/6/2017 6:31 66	30/6/2017 23:36 66	2/7/2017 0:41 63
25/7/2017 22:36 61	27/6/2017 4:26 63	28/6/2017 5:31 59	29/6/2017 6:36 66	30/6/2017 23:41 67	2/7/2017 0:46 63
25/7/2017 22:41 63	27/6/2017 4:31 62	28/6/2017 5:36 58	29/6/2017 6:41 68	30/6/2017 23:46 66	2/7/2017 0:51 62
25/7/2017 22:46 60	27/6/2017 4:36 62	28/6/2017 5:41 56	29/6/2017 6:46 67	30/6/2017 23:51 66	2/7/2017 0:56 62
25/7/2017 22:51 65	27/6/2017 4:41 47	28/6/2017 5:46 59	29/6/2017 6:51 68	30/6/2017 23:56 66	2/7/2017 1:01 62
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26/7/2017 19:01 65	27/6/2017 4:51 62	28/6/2017 5:56 61	29/6/2017 23:01 66	1/7/2017 0:06 65	2/7/2017 1:11 63
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26/7/2017 19:11 65	27/6/2017 5:01 49	28/6/2017 6:06 63	29/6/2017 23:11 65	1/7/2017 0:16 65	2/7/2017 1:21 63
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26/7/2017 19:21 67	27/6/2017 5:11 63	28/6/2017 6:16 65	29/6/2017 23:21 65	1/7/2017 0:26 64	2/7/2017 1:31 62
26/7/2017 19:26 64	27/6/2017 5:16 54	28/6/2017 6:21 65	29/6/2017 23:26 65	1/7/2017 0:31 65	2/7/2017 1:36 63

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Real-time Noise Data 2/7/2017 1:41 62	RTN3 (Po Leung Kuk Yu Lee Mo 3/7/2017 2:46 62	4/7/2017 3:51 58	5/7/2017 4:56 62	6/7/2017 6:01 61	7/7/2017 23:06 66
2/7/2017 1:46 61	3/7/2017 2:51 60	4/7/2017 3:56 52	5/7/2017 5:01 63	6/7/2017 6:06 63	7/7/2017 23:11 66
2/7/2017 1:51 60	3/7/2017 2:56 61	4/7/2017 4:01 50	5/7/2017 5:06 62	6/7/2017 6:11 62	7/7/2017 23:16 67
2/7/2017 1:56 61	3/7/2017 3:01 60	4/7/2017 4:06 55	5/7/2017 5:11 55	6/7/2017 6:16 62	7/7/2017 23:10 67
2/7/2017 2:01 61	3/7/2017 3:06 61	4/7/2017 4:11 61	5/7/2017 5:16 63	6/7/2017 6:21 65	7/7/2017 23:26 66
2/7/2017 2:06 59	3/7/2017 3:11 60	4/7/2017 4:16 59	5/7/2017 5:21 63	6/7/2017 6:26 66	7/7/2017 23:31 66
2/7/2017 2:11 62	3/7/2017 3:16 61	4/7/2017 4:10 39 4/7/2017 4:21 56	5/7/2017 5:26 59	6/7/2017 6:31 67	7/7/2017 23:36 66
2/7/2017 2:16 60	3/7/2017 3:21 62	4/7/2017 4:26 63	5/7/2017 5:31 57	6/7/2017 6:36 66	7/7/2017 23:41 66
2/7/2017 2:21 64	3/7/2017 3:26 62	4/7/2017 4:31 63	5/7/2017 5:36 60	6/7/2017 6:41 72	7/7/2017 23:46 66
2/7/2017 2:21 64 2/7/2017 2:26 59	3/7/2017 3:20 62 3/7/2017 3:31 62	4/7/2017 4:31 63 4/7/2017 4:36 51	5/7/2017 5:36 60 5/7/2017 5:41 60	6/7/2017 6:41 72 6/7/2017 6:46 67	7/7/2017 23:46 66 7/7/2017 23:51 65
2/7/2017 2:31 58	3/7/2017 3:36 61	4/7/2017 4:41 62 4/7/2017 4:46 62	5/7/2017 5:46 62	6/7/2017 6:51 67 6/7/2017 6:56 68	7/7/2017 23:56 66 8/7/2017 0:01 65
2/7/2017 2:36 61	3/7/2017 3:41 62	4/7/2017 4:46 62	5/7/2017 5:51 61	6/7/2017 6:56 68	8/7/2017 0:01 65
2/7/2017 2:41 57	3/7/2017 3:46 60	4/7/2017 4:51 62	5/7/2017 5:56 61	6/7/2017 23:01 66	8/7/2017 0:06 65
2/7/2017 2:46 58	3/7/2017 3:51 60	4/7/2017 4:56 63	5/7/2017 6:01 60	6/7/2017 23:06 67	8/7/2017 0:11 65
2/7/2017 2:51 57	3/7/2017 3:56 48	4/7/2017 5:01 63	5/7/2017 6:06 62	6/7/2017 23:11 67	8/7/2017 0:16 66
2/7/2017 2:51 57	3/7/2017 3:56 48	4/7/2017 5:01 63	5/7/2017 6:06 62	6/7/2017 23:16 66	8/7/2017 0:16 66
2/7/2017 2:56 58	3/7/2017 4:01 60	4/7/2017 5:06 62	5/7/2017 6:11 63		8/7/2017 0:21 66
2/7/2017 3:01 56	3/7/2017 4:06 61	4/7/2017 5:11 52	5/7/2017 6:16 63	6/7/2017 23:21 66	8/7/2017 0:26 65
2/7/2017 3:06 55	3/7/2017 4:11 61	4/7/2017 5:16 47	5/7/2017 6:21 65	6/7/2017 23:26 66	8/7/2017 0:31 66
2/7/2017 3:11 57	3/7/2017 4:16 61	4/7/2017 5:10 47	5/7/2017 6:26 66	6/7/2017 23:31 65	8/7/2017 0:36 65
2/7/2017 3:16 48	3/7/2017 4:21 62	4/7/2017 5:26 59	5/7/2017 6:31 66	6/7/2017 23:36 65	8/7/2017 0:41 65
2/7/2017 3:21 63	3/7/2017 4:26 62	4/7/2017 5:31 53	5/7/2017 6:36 67	6/7/2017 23:41 64	8/7/2017 0:46 66
2/7/2017 3:26 57	3/7/2017 4:31 61	4/7/2017 5:36 60	5/7/2017 6:41 66	6/7/2017 23:46 63	8/7/2017 0:51 66
2/7/2017 3:31 59	3/7/2017 4:36 62	4/7/2017 5:41 60	5/7/2017 6:46 68	6/7/2017 23:51 64	8/7/2017 0:56 65
2/7/2017 3:36 55	3/7/2017 4:41 62	4/7/2017 5:46 61	5/7/2017 6:51 69	6/7/2017 23:56 65	8/7/2017 1:01 64
2/7/2017 3:41 63	3/7/2017 4:46 62	4/7/2017 5:51 62	5/7/2017 6:56 68	7/7/2017 0:01 65	8/7/2017 1:06 60
2/7/2017 3:46 54	3/7/2017 4:51 61	4/7/2017 5:56 62	5/7/2017 23:01 67	7/7/2017 0:06 64	8/7/2017 1:11 61
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2/7/2017 4:21 49	3/7/2017 5:26 56	4/7/2017 6:31 65	5/7/2017 23:36 71	7/7/2017 0:41 64	8/7/2017 1:46 53
2/7/2017 4:26 55	3/7/2017 5:31 61	4/7/2017 6:36 65	5/7/2017 23:41 69	7/7/2017 0:46 64	8/7/2017 1:51 62
2/7/2017 4:31 57	3/7/2017 5:36 58	4/7/2017 6:41 66	5/7/2017 23:46 67	7/7/2017 0:51 65	8/7/2017 1:56 49
2/7/2017 4:36 57	3/7/2017 5:41 53	4/7/2017 6:46 67	5/7/2017 23:51 67	7/7/2017 0:56 64	8/7/2017 2:01 63
2/7/2017 4:41 55	3/7/2017 5:46 59	4/7/2017 6:51 67	5/7/2017 23:56 66	7/7/2017 1:01 63	8/7/2017 2:06 51
2/7/2017 4:46 63	3/7/2017 5:51 61	4/7/2017 6:56 72	6/7/2017 0:01 67	7/7/2017 1:06 63	8/7/2017 2:11 51
2/7/2017 4:51 54	3/7/2017 5:56 62	4/7/2017 23:01 66	6/7/2017 0:06 65	7/7/2017 1:11 63	8/7/2017 2:16 53
2/7/2017 4:56 55	3/7/2017 6:01 61	4/7/2017 23:06 66	6/7/2017 0:11 66	7/7/2017 1:16 61	8/7/2017 2:21 55
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2/7/2017 5:06 56	3/7/2017 6:11 62	4/7/2017 23:16 66	6/7/2017 0:10 63	7/7/2017 1:26 65	8/7/2017 2:31 49
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2/7/2017 5:26 56	3/7/2017 6:31 65	4/7/2017 23:36 66	6/7/2017 0:41 63	7/7/2017 1:46 59	8/7/2017 2:51 63
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2/7/2017 5:36 58	3/7/2017 6:41 66	4/7/2017 23:46 65	6/7/2017 0:51 62	7/7/2017 1:56 61	8/7/2017 3:01 62
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2/7/2017 5:51 62	3/7/2017 6:56 68	5/7/2017 0:01 64	6/7/2017 1:06 64	7/7/2017 2:11 58	8/7/2017 3:16 63
2/7/2017 5:56 61	3/7/2017 23:01 67	5/7/2017 0:06 65	6/7/2017 1:11 63	7/7/2017 2:16 57	8/7/2017 3:21 63
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2/7/2017 6:11 63	3/7/2017 23:16 65	5/7/2017 0:21 64	6/7/2017 1:26 61	7/7/2017 2:31 63	8/7/2017 3:36 62
2/7/2017 6:16 59	3/7/2017 23:21 64	5/7/2017 0:26 64	6/7/2017 1:31 62	7/7/2017 2:36 62	8/7/2017 3:41 63
2/7/2017 6:21 62	3/7/2017 23:26 65	5/7/2017 0:31 64	6/7/2017 1:36 57	7/7/2017 2:41 62	8/7/2017 3:46 62
2/7/2017 6:26 66	3/7/2017 23:31 65	5/7/2017 0:36 63	6/7/2017 1:41 61	7/7/2017 2:46 63	8/7/2017 3:51 62
2/7/2017 6:31 62	3/7/2017 23:36 65	5/7/2017 0:41 63	6/7/2017 1:46 58	7/7/2017 2:51 63	8/7/2017 3:56 63
2/7/2017 6:36 63	3/7/2017 23:41 65	5/7/2017 0:46 63	6/7/2017 1:51 58	7/7/2017 2:56 62	8/7/2017 4:01 62
2/7/2017 6:41 63	3/7/2017 23:46 65	5/7/2017 0:51 62	6/7/2017 1:56 55	7/7/2017 3:01 62	8/7/2017 4:06 62
2/7/2017 6:46 64	3/7/2017 23:51 65	5/7/2017 0:56 62	6/7/2017 2:01 56	7/7/2017 3:06 61	8/7/2017 4:11 63
2/7/2017 6:51 65	3/7/2017 23:56 65	5/7/2017 1:01 63	6/7/2017 2:06 51	7/7/2017 3:11 55	8/7/2017 4:16 62
2/7/2017 6:56 63	4/7/2017 0:01 66	5/7/2017 1:06 61	6/7/2017 2:11 52	7/7/2017 3:16 68	8/7/2017 4:21 62
2/7/2017 23:01 65	4/7/2017 0:06 64	5/7/2017 1:11 62	6/7/2017 2:16 62	7/7/2017 3:21 65	8/7/2017 4:26 55
2/7/2017 23:06 66	4/7/2017 0:11 63	5/7/2017 1:16 58	6/7/2017 2:21 50	7/7/2017 3:26 61	8/7/2017 4:31 63
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2/7/2017 23:16 66	4/7/2017 0:21 63	5/7/2017 1:26 58	6/7/2017 2:31 63	7/7/2017 3:36 61	8/7/2017 4:41 56
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2/7/2017 23:26 64	4/7/2017 0:31 64	5/7/2017 1:36 64	6/7/2017 2:41 62	7/7/2017 3:46 61	8/7/2017 4:51 61
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2/7/2017 23:36 64	4/7/2017 0:41 62	5/7/2017 1:46 58	6/7/2017 2:51 62	7/7/2017 3:56 61	8/7/2017 5:01 60
2/7/2017 23:41 64	4/7/2017 0:46 61	5/7/2017 1:51 45	6/7/2017 2:56 61	7/7/2017 4:01 61	8/7/2017 5:06 55
2/7/2017 23:46 65	4/7/2017 0:51 63	5/7/2017 1:56 57	6/7/2017 3:01 62	7/7/2017 4:06 61	8/7/2017 5:11 55
2/7/2017 23:51 63	4/7/2017 0:56 62	5/7/2017 2:01 51	6/7/2017 3:06 54	7/7/2017 4:11 61	8/7/2017 5:16 53
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3/7/2017 0:06 63	4/7/2017 1:11 58	5/7/2017 2:16 62	6/7/2017 3:21 61	7/7/2017 4:26 62	8/7/2017 5:31 60
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3/7/2017 0:36 61	4/7/2017 1:41 58	5/7/2017 2:46 63	6/7/2017 3:51 62	7/7/2017 4:56 61	8/7/2017 6:01 62
3/7/2017 0:41 62	4/7/2017 1:46 60	5/7/2017 2:51 52	6/7/2017 3:56 61	7/7/2017 5:01 63	8/7/2017 6:06 63
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3/7/2017 1:16 56	4/7/2017 2:21 62	5/7/2017 3:26 61	6/7/2017 4:31 55	7/7/2017 5:36 58	8/7/2017 6:41 65
3/7/2017 1:21 54	4/7/2017 2:26 54	5/7/2017 3:31 62	6/7/2017 4:36 64	7/7/2017 5:41 64	8/7/2017 6:46 66
3/7/2017 1:26 57	4/7/2017 2:31 53	5/7/2017 3:36 45	6/7/2017 4:41 57	7/7/2017 5:46 60	8/7/2017 6:51 66
3/7/2017 1:31 56	4/7/2017 2:36 62	5/7/2017 3:41 61	6/7/2017 4:46 61	7/7/2017 5:51 62	8/7/2017 6:56 66
3/7/2017 1:36 55	4/7/2017 2:41 62	5/7/2017 3:46 60	6/7/2017 4:51 58	7/7/2017 5:56 63	8/7/2017 23:01 66
3/7/2017 1:41 55	4/7/2017 2:46 61	5/7/2017 3:51 61	6/7/2017 4:56 63	7/7/2017 6:01 61	8/7/2017 23:06 66
3/7/2017 1:46 63	4/7/2017 2:51 58	5/7/2017 3:56 61	6/7/2017 5:01 66	7/7/2017 6:06 63	8/7/2017 23:11 66
3/7/2017 1:51 53	4/7/2017 2:56 66	5/7/2017 4:01 63	6/7/2017 5:06 63	7/7/2017 6:11 62	8/7/2017 23:16 66
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3/7/2017 2:01 62	4/7/2017 3:06 60	5/7/2017 4:11 61	6/7/2017 5:16 63	7/7/2017 6:21 66	8/7/2017 23:26 66
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3/7/2017 2:11 62	4/7/2017 3:16 51	5/7/2017 4:21 50	6/7/2017 5:26 61	7/7/2017 6:31 66	8/7/2017 23:36 66
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3/7/2017 2:21 63	4/7/2017 3:26 63	5/7/2017 4:31 57	6/7/2017 5:36 60	7/7/2017 6:41 67	8/7/2017 23:46 65
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3/7/2017 2:36 62	4/7/2017 3:41 59	5/7/2017 4:46 62	6/7/2017 5:51 62	7/7/2017 6:56 67	9/7/2017 0:01 67
3/7/2017 2:41 61	4/7/2017 3:46 61	5/7/2017 4:51 63	6/7/2017 5:56 62	7/7/2017 23:01 67	9/7/2017 0:06 64

Real-time Noise 9/7/2017 0:11	Data 65	RTN3 (Po Leung Kuk Yu Lee Mo 10/7/2017 1:16 61	Fan Memorial School) 11/7/2017 2:21 55	12/7/2017 3:26 63	13/7/2017 4:31 52	14/7/2017 5:36 54
9/7/2017 0:16	64	10/7/2017 1:21 62	11/7/2017 2:21 55	12/7/2017 3:20 63	13/7/2017 4:36 62	14/7/2017 5:41 57
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9/7/2017 0:20	65	10/7/2017 1:36 62	11/7/2017 2:30 02	12/7/2017 3:41 62	13/7/2017 4:51 54	14/7/2017 5:56 64
9/7/2017 0:36	63 63	10/7/2017 1:41 62 10/7/2017 1:46 61	11/7/2017 2:46 48 11/7/2017 2:51 54	12/7/2017 3:51 51 12/7/2017 3:56 62	13/7/2017 4:56 61 13/7/2017 5:01 49	14/7/2017 6:01 62 14/7/2017 6:06 63
9/7/2017 0:41 9/7/2017 0:46	63	10/7/2017 1:46 61 10/7/2017 1:51 62	11/7/2017 2:51 54 11/7/2017 2:56 63	12/7/2017 3:30 62	13/7/2017 5:01 49 13/7/2017 5:06 51	14/7/2017 6:06 63 14/7/2017 6:11 62
9/7/2017 0:51	63	10/7/2017 1:56 61 10/7/2017 2:01 62	11/7/2017 3:01 63 11/7/2017 3:06 62	12/7/2017 4:06 62 12/7/2017 4:11 63	13/7/2017 5:11 63 13/7/2017 5:16 52	14/7/2017 6:16 64 14/7/2017 6:21 65
9/7/2017 0:56 9/7/2017 1:01	63 63	10/7/2017 2:01 62 10/7/2017 2:06 61	11/7/2017 3:06 62 11/7/2017 3:11 62	12/7/2017 4:11 63 12/7/2017 4:16 62	13/7/2017 5:16 52 13/7/2017 5:21 63	14/7/2017 6:21 65 14/7/2017 6:26 65
9/7/2017 1:06	65 63	10/7/2017 2:11 62 10/7/2017 2:16 61	11/7/2017 3:16 63 11/7/2017 3:21 62	12/7/2017 4:21 61 12/7/2017 4:26 63	13/7/2017 5:26 48 13/7/2017 5:31 65	14/7/2017 6:31 66 14/7/2017 6:36 65
9/7/2017 1:11 9/7/2017 1:16	64	10/7/2017 2:10 61	11/7/2017 3:21 62 11/7/2017 3:26 61	12/7/2017 4:26 63 12/7/2017 4:31 62	13/7/2017 5:31 65 13/7/2017 5:36 59	14/7/2017 6:30 63
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10/7/2017 1:11	63	11/7/2017 2:16 63	12/7/2017 3:21 62	13/7/2017 4:26 48	14/7/2017 5:31 60	15/7/2017 6:36 65

Real-time Noise Data 15/7/2017 6:41 66	RTN3 (Po Leung Kuk Yu Lee Mo 16/7/2017 23:46 65	Fan Memorial School) 18/7/2017 0:51 63	19/7/2017 1:56 62	20/7/2017 3:01 63	21/7/2017 4:06 61
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15/7/2017 23:01 66	17/7/2017 0:06 63	18/7/2017 1:11 61	19/7/2017 2:16 53	20/7/2017 3:21 62	21/7/2017 4:26 62
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23/7/2017 6:06	61	24/7/2017 23:11	66	26/7/2017 0:16	65
23/7/2017 6:11	62	24/7/2017 23:16	66	26/7/2017 0:21	63

26/7/2017 0:26 26/7/2017 0:31 68 64 26/7/2017 0:36 26/7/2017 0:41 63 60 26/7/2017 0:46 63 26/7/2017 0:51 60 26/7/2017 0:51 26/7/2017 0:56 26/7/2017 1:01 26/7/2017 1:11 61 61 60 59 26/7/2017 1:16 26/7/2017 1:21 26/7/2017 1:26 60 60 60 26/7/2017 1:31 26/7/2017 1:36 62 59 26/7/2017 1:41 26/7/2017 1:46 62 61 61 59 55 26/7/2017 1:51 26/7/2017 1:56 26/7/2017 2:01 26/7/2017 2:06 26/7/2017 2:11 62 63 57 26/7/2017 2:16 26/7/2017 2:21 40 26/7/2017 2:26 26/7/2017 2:31 51 40 26/7/2017 2:36 26/7/2017 2:41 62 56 53 50 26/7/2017 2:46 26/7/2017 2:51 49 61 26/7/2017 2:56 26/7/2017 3:01 62 63 62 26/7/2017 3:06 26/7/2017 3:11 26/7/2017 3:16 26/7/2017 3:21 26/7/2017 3:26 53 62 26/7/2017 3:31 26/7/2017 3:36 49 62 26/7/2017 3:41 62 26/7/2017 3:46 26/7/2017 3:51 62 63 26/7/2017 3:56 63 26/7/2017 4:01 62 26/7/2017 4:06 62 26/7/2017 4:11 26/7/2017 4:16 26/7/2017 4:21 62 43 62 26/7/2017 4:26 26/7/2017 4:31 62 63 26/7/2017 4:36 26/7/2017 4:41 54 61 26/7/2017 4:46 62 26/7/2017 4:51 63 63 62 62 26/7/2017 4:56 26/7/2017 5:01 26/7/2017 5:06 26/7/2017 5:11 63 63 26/7/2017 5:16 62 55 26/7/2017 5:21 26/7/2017 5:26 55 54 59 26/7/2017 5:31 26/7/2017 5:36 26/7/2017 5:41 26/7/2017 5:46 58 59 26/7/2017 5:51 26/7/2017 5:56 61 61 63 26/7/2017 6:01 26/7/2017 6:06 26/7/2017 6:11 63 26/7/2017 6:16 26/7/2017 6:21 64 63 26/7/2017 6:26 26/7/2017 6:31 65 66 26/7/2017 6:36 66 66 67 67 26/7/2017 6:41 26/7/2017 6:46 26/7/2017 6:51 26/7/2017 6:56 26/7/2017 23:01 67 67 26/7/2017 23:06 66 26/7/2017 23:11 66 26/7/2017 23:16 66 26/7/2017 23:21 26/7/2017 23:26 66 66 26/7/2017 23:31 26/7/2017 23:36 64 65 26/7/2017 23:41 64 26/7/2017 23:46 65 26/7/2017 23:51 65 26/7/2017 23:56 67

Dool time Naise Date	DTNA (Courseway Boy Community	Comtrol			
Real-time Noise Data Normal Day 07:00-19:00	RTN4 (Causeway Bay Communit 3/7/2017 12:31 65	8/7/2017 7:01 65	13/7/2017 13:31 68	19/7/2017 8:01 66	24/7/2017 14:31 64
27/6/2017 7:01 61	3/7/2017 13:01 66	8/7/2017 7:31 65	13/7/2017 14:01 68	19/7/2017 8:31 67	24/7/2017 15:01 66
	3/7/2017 13:31 64	8/7/2017 8:01 65	13/7/2017 14:31 67	19/7/2017 9:01 66	24/7/2017 15:31 65
27/6/2017 7:31 62	3/7/2017 14:01 65	8/7/2017 8:31 66	13/7/2017 15:01 67	19/7/2017 9:31 67	24/7/2017 16:01 64
27/6/2017 8:01 63	3/7/2017 14:31 65	8/7/2017 9:01 67	13/7/2017 15:31 67	19/7/2017 10:01 66	24/7/2017 16:31 66
27/6/2017 8:31 63	3/7/2017 15:01 64	8/7/2017 9:31 65	13/7/2017 16:01 68	19/7/2017 10:31 67	24/7/2017 17:01 65
27/6/2017 9:01 67	3/7/2017 15:31 65	8/7/2017 10:01 63	13/7/2017 16:31 68	19/7/2017 11:01 67	24/7/2017 17:31 63
27/6/2017 9:31 65	3/7/2017 16:01 65	8/7/2017 10:31 64	13/7/2017 17:01 67	19/7/2017 11:31 64	24/7/2017 18:01 64
27/6/2017 10:01 66	3/7/2017 16:31 65	8/7/2017 11:01 64	13/7/2017 17:31 67	19/7/2017 12:01 64	24/7/2017 18:31 63
27/6/2017 10:31 64	3/7/2017 17:01 64	8/7/2017 11:31 63	13/7/2017 17:31 67	19/7/2017 12:31 65	25/7/2017 7:01 61
27/6/2017 11:01 64	3/7/2017 17:31 62	8/7/2017 12:01 61	13/7/2017 18:31 64	19/7/2017 13:01 67	25/7/2017 7:31 62
27/6/2017 11:31 65	3/7/2017 18:01 62	8/7/2017 12:31 62	14/7/2017 7:01 61	19/7/2017 13:31 67	25/7/2017 8:01 62
27/6/2017 11:31 65	3/7/2017 18:31 62	8/7/2017 13:01 63	14/7/2017 7:31 64	19/7/2017 13:31 67	25/7/2017 8:31 63
27/6/2017 12:31 65	4/7/2017 7:01 63	8/7/2017 13:31 63	14/7/2017 8:01 65	19/7/2017 14:31 66	25/7/2017 9:01 66
27/6/2017 13:01 67	4/7/2017 7:31 61	8/7/2017 14:01 66	14/7/2017 8:31 65	19/7/2017 15:01 67	25/7/2017 9:31 64
27/6/2017 13:31 66	4/7/2017 8:01 61	8/7/2017 14:31 64	14/7/2017 9:01 68	19/7/2017 15:31 67	25/7/2017 10:01 65
27/6/2017 14:01 64	4/7/2017 8:31 67	8/7/2017 15:01 64	14/7/2017 9:31 68	19/7/2017 16:01 67	25/7/2017 10:31 64
27/6/2017 14:31 65	4/7/2017 9:01 67	8/7/2017 15:31 64	14/7/2017 10:01 68	19/7/2017 16:31 66	25/7/2017 11:01 65
27/6/2017 15:01 66	4/7/2017 9:31 65	8/7/2017 16:01 65	14/7/2017 10:01 66	19/7/2017 10:31 66	25/7/2017 11:31 63
27/6/2017 15:31 68	4/7/2017 10:01 66	8/7/2017 16:31 66	14/7/2017 11:01 67	19/7/2017 17:31 63	25/7/2017 12:01 62
27/6/2017 16:01 63	4/7/2017 10:31 67	8/7/2017 17:01 65	14/7/2017 11:31 63	19/7/2017 18:01 62	25/7/2017 12:31 62
27/6/2017 16:31 64	4/7/2017 10:31 66	8/7/2017 17:31 62	14/7/2017 11:31 63	19/7/2017 18:31 62	25/7/2017 13:01 66
27/6/2017 17:01 63	4/7/2017 11:31 65	8/7/2017 18:01 65	14/7/2017 12:31 65	20/7/2017 7:01 61	25/7/2017 13:31 66
27/6/2017 17:31 63	4/7/2017 12:01 66	8/7/2017 18:31 62	14/7/2017 13:01 68	20/7/2017 7:31 62	25/7/2017 14:01 65
27/6/2017 18:01 63	4/7/2017 12:31 66	10/7/2017 7:01 62	14/7/2017 13:31 68	20/7/2017 7:31 62 20/7/2017 8:01 62	25/7/2017 14:31 64
27/6/2017 18:31 63	4/7/2017 13:01 67	10/7/2017 7:31 62	14/7/2017 14:01 68	20/7/2017 8:31 64	25/7/2017 15:01 65
28/6/2017 7:01 61	4/7/2017 13:31 67	10/7/2017 8:01 62	14/7/2017 14:31 68	20/7/2017 9:01 66	25/7/2017 15:31 65
28/6/2017 7:31 61	4/7/2017 14:01 65	10/7/2017 8:31 63	14/7/2017 15:01 67	20/7/2017 9:31 64	25/7/2017 16:01 65
28/6/2017 8:01 62	4/7/2017 14:31 67	10/7/2017 9:01 65	14/7/2017 15:31 67	20/7/2017 10:01 65	25/7/2017 16:31 64
28/6/2017 8:31 64	4/7/2017 15:01 66	10/7/2017 9:31 65	14/7/2017 16:01 56	20/7/2017 10:31 65	25/7/2017 17:01 63
28/6/2017 9:01 64	4/7/2017 15:31 64	10/7/2017 10:01 64	14/7/2017 16:31 68	20/7/2017 11:01 64	25/7/2017 17:31 62
28/6/2017 9:31 65	4/7/2017 16:01 65	10/7/2017 10:31 67	14/7/2017 17:01 68	20/7/2017 11:31 62	25/7/2017 18:01 63
28/6/2017 10:01 65	4/7/2017 16:31 65	10/7/2017 11:01 65	14/7/2017 17:31 68	20/7/2017 12:01 62	25/7/2017 18:31 63
28/6/2017 10:31 66	4/7/2017 17:01 64	10/7/2017 11:31 64	14/7/2017 18:01 67	20/7/2017 12:31 63	26/7/2017 7:01 61
28/6/2017 11:01 68	4/7/2017 17:31 64	10/7/2017 12:01 63	14/7/2017 18:31 62	20/7/2017 13:01 67	26/7/2017 7:31 62
28/6/2017 11:31 64	4/7/2017 18:01 65	10/7/2017 12:31 63	15/7/2017 7:01 61	20/7/2017 13:31 65	26/7/2017 8:01 62
28/6/2017 12:01 63	4/7/2017 18:31 64	10/7/2017 13:01 64	15/7/2017 7:31 65	20/7/2017 14:01 65	26/7/2017 8:31 62
28/6/2017 12:31 63	5/7/2017 7:01 61	10/7/2017 13:31 65	15/7/2017 8:01 67	20/7/2017 14:31 64	26/7/2017 9:01 63
28/6/2017 13:01 65	5/7/2017 7:31 62	10/7/2017 14:01 66	15/7/2017 8:31 68	20/7/2017 15:01 63	26/7/2017 9:31 64
28/6/2017 13:31 64	5/7/2017 8:01 63	10/7/2017 14:31 65	15/7/2017 9:01 68	20/7/2017 15:31 64	26/7/2017 10:01 65
28/6/2017 14:01 64	5/7/2017 8:31 64	10/7/2017 15:01 66	15/7/2017 9:31 67	20/7/2017 16:01 64	26/7/2017 10:31 65
28/6/2017 14:31 65	5/7/2017 9:01 63	10/7/2017 15:31 66	15/7/2017 10:01 67	20/7/2017 16:31 65	26/7/2017 11:01 66
28/6/2017 15:01 65	5/7/2017 9:31 64	10/7/2017 16:01 64	15/7/2017 10:31 64	20/7/2017 17:01 65	26/7/2017 11:31 63
28/6/2017 15:31 65	5/7/2017 10:01 63	10/7/2017 16:31 65	15/7/2017 11:01 63	20/7/2017 17:31 63	26/7/2017 12:01 62
28/6/2017 16:01 64	5/7/2017 10:31 64	10/7/2017 17:01 64	15/7/2017 11:31 63	20/7/2017 18:01 62	26/7/2017 12:31 62
28/6/2017 16:31 65	5/7/2017 11:01 66	10/7/2017 17:31 64	15/7/2017 12:01 64	20/7/2017 18:31 64	26/7/2017 13:01 64
28/6/2017 17:01 64	5/7/2017 11:31 64	10/7/2017 18:01 64	15/7/2017 12:31 65	21/7/2017 7:01 61	26/7/2017 13:31 63
28/6/2017 17:31 63	5/7/2017 12:01 62	10/7/2017 18:31 62	15/7/2017 13:01 67	21/7/2017 7:31 61	26/7/2017 14:01 64
28/6/2017 18:01 62	5/7/2017 12:31 63	11/7/2017 7:01 62	15/7/2017 13:31 68	21/7/2017 8:01 61	26/7/2017 14:31 64
28/6/2017 18:31 63	5/7/2017 13:01 65	11/7/2017 7:31 62	15/7/2017 14:01 69	21/7/2017 8:31 65	26/7/2017 15:01 65
29/6/2017 7:01 61	5/7/2017 13:31 64	11/7/2017 8:01 62	15/7/2017 14:31 67	21/7/2017 9:01 66	26/7/2017 15:31 64
29/6/2017 7:31 61	5/7/2017 14:01 65	11/7/2017 8:31 66	15/7/2017 15:01 67	21/7/2017 9:31 65	26/7/2017 16:01 65
29/6/2017 8:01 63	5/7/2017 14:31 65	11/7/2017 9:01 67	15/7/2017 15:31 66	21/7/2017 10:01 64	26/7/2017 16:31 64
29/6/2017 8:31 63	5/7/2017 15:01 64	11/7/2017 9:31 65	15/7/2017 16:01 66	21/7/2017 10:31 63	26/7/2017 17:01 63
29/6/2017 9:01 65	5/7/2017 15:31 65	11/7/2017 10:01 65	15/7/2017 16:31 65	21/7/2017 11:01 64	26/7/2017 17:31 62
29/6/2017 9:31 68	5/7/2017 16:01 65	11/7/2017 10:31 65	15/7/2017 17:01 66	21/7/2017 11:31 62	26/7/2017 18:01 63
29/6/2017 10:01 67	5/7/2017 16:31 66	11/7/2017 11:01 69	15/7/2017 17:31 66	21/7/2017 12:01 63	26/7/2017 18:31 62
29/6/2017 10:31 65	5/7/2017 17:01 68	11/7/2017 11:31 67	15/7/2017 18:01 68	21/7/2017 12:31 63	Normal Day 19:00-23:00.
29/6/2017 11:01 65	5/7/2017 17:31 65	11/7/2017 12:01 66	15/7/2017 18:31 64	21/7/2017 13:01 63	Sunday & Holiday
29/6/2017 11:31 64	5/7/2017 18:01 64	11/7/2017 12:31 65	17/7/2017 7:01 63	21/7/2017 13:31 66	
29/6/2017 12:01 62	5/7/2017 18:31 62	11/7/2017 13:01 64	17/7/2017 7:31 65	21/7/2017 14:01 64	<u>07:00-23:00</u>
29/6/2017 12:31 63	6/7/2017 7:01 62	11/7/2017 13:31 64	17/7/2017 8:01 68	21/7/2017 14:31 64	
29/6/2017 13:01 64	6/7/2017 7:31 62	11/7/2017 14:01 65	17/7/2017 8:31 67	21/7/2017 15:01 64	27/6/2017 19:01 63
29/6/2017 13:31 64	6/7/2017 8:01 66	11/7/2017 14:31 65	17/7/2017 9:01 67	21/7/2017 15:31 67	27/6/2017 19:06 63
29/6/2017 14:01 65	6/7/2017 8:31 63	11/7/2017 15:01 65	17/7/2017 9:31 67	21/7/2017 16:01 65	27/6/2017 19:11 54
29/6/2017 14:31 66	6/7/2017 9:01 62	11/7/2017 15:31 64	17/7/2017 10:01 67	21/7/2017 16:31 64	27/6/2017 19:16 37
29/6/2017 15:01 66	6/7/2017 9:31 65	11/7/2017 16:01 63	17/7/2017 10:31 68	21/7/2017 17:01 63	27/6/2017 19:21 62
29/6/2017 15:31 66	6/7/2017 10:01 65	11/7/2017 16:31 63	17/7/2017 11:01 68	21/7/2017 17:31 63	27/6/2017 19:26 62
29/6/2017 16:01 64	6/7/2017 10:31 64	11/7/2017 17:01 63	17/7/2017 11:31 65	21/7/2017 18:01 62	27/6/2017 19:31 62
29/6/2017 16:31 66	6/7/2017 11:01 63	11/7/2017 17:31 64	17/7/2017 12:01 64	21/7/2017 18:31 62	27/6/2017 19:36 62
29/6/2017 17:01 66	6/7/2017 11:31 63	11/7/2017 18:01 62	17/7/2017 12:31 65	22/7/2017 7:01 60	27/6/2017 19:41 62
29/6/2017 17:31 65	6/7/2017 12:01 63	11/7/2017 18:31 62	17/7/2017 13:01 66	22/7/2017 7:31 61	27/6/2017 19:46 63
29/6/2017 18:01 63	6/7/2017 12:31 63	12/7/2017 7:01 62	17/7/2017 13:31 68	22/7/2017 8:01 63	27/6/2017 19:51 61
29/6/2017 18:31 63	6/7/2017 13:01 63	12/7/2017 7:31 62	17/7/2017 14:01 58	22/7/2017 8:31 64	27/6/2017 19:56 61
30/6/2017 7:01 61	6/7/2017 13:31 65	12/7/2017 8:01 61	17/7/2017 14:31 67	22/7/2017 9:01 66	27/6/2017 20:01 62
30/6/2017 7:31 62	6/7/2017 14:01 65	12/7/2017 8:31 62	17/7/2017 15:01 68	22/7/2017 9:31 65	27/6/2017 20:06 62
30/6/2017 8:01 63	6/7/2017 14:31 64	12/7/2017 9:01 64	17/7/2017 15:31 68	22/7/2017 10:01 66	27/6/2017 20:11 61
30/6/2017 8:31 64	6/7/2017 15:01 64	12/7/2017 9:31 64	17/7/2017 16:01 62	22/7/2017 10:31 66	27/6/2017 20:16 61
30/6/2017 9:01 66	6/7/2017 15:31 64	12/7/2017 10:01 65	17/7/2017 16:31 62	22/7/2017 11:01 64	27/6/2017 20:21 61
30/6/2017 9:31 68	6/7/2017 16:01 65	12/7/2017 10:01 65	17/7/2017 10:31 62	22/7/2017 11:31 63	27/6/2017 20:26 61
30/6/2017 10:01 65	6/7/2017 16:31 64	12/7/2017 11:01 67	17/7/2017 17:31 63	22/7/2017 12:01 63	27/6/2017 20:31 61
30/6/2017 10:31 64	6/7/2017 17:01 65	12/7/2017 11:31 63	17/7/2017 18:01 46	22/7/2017 12:31 64	27/6/2017 20:36 61
30/6/2017 11:01 64	6/7/2017 17:31 63	12/7/2017 12:01 63	17/7/2017 18:31 67	22/7/2017 13:01 64	27/6/2017 20:41 61
30/6/2017 11:31 62	6/7/2017 18:01 63	12/7/2017 12:31 64	18/7/2017 7:01 66	22/7/2017 13:31 64	27/6/2017 20:46 61
30/6/2017 12:01 63	6/7/2017 18:31 64	12/7/2017 13:01 65	18/7/2017 7:31 64	22/7/2017 14:01 66	27/6/2017 20:51 61
30/6/2017 12:31 64	7/7/2017 7:01 63	12/7/2017 13:31 67	18/7/2017 8:01 65	22/7/2017 14:31 64	27/6/2017 20:56 61
30/6/2017 13:01 64	7/7/2017 7:31 63	12/7/2017 14:01 66	18/7/2017 8:31 67	22/7/2017 15:01 64	27/6/2017 21:01 61
30/6/2017 13:31 63	7/7/2017 8:01 63	12/7/2017 14:31 66	18/7/2017 9:01 67	22/7/2017 15:31 64	27/6/2017 21:06 61
30/6/2017 14:01 64	7/7/2017 8:31 64	12/7/2017 15:01 65	18/7/2017 9:31 67	22/7/2017 16:01 63	27/6/2017 21:11 61
30/6/2017 14:31 65	7/7/2017 9:01 66	12/7/2017 15:31 66	18/7/2017 10:01 67	22/7/2017 16:31 64	27/6/2017 21:16 61
30/6/2017 15:01 65	7/7/2017 9:31 65	12/7/2017 16:01 67	18/7/2017 10:31 67	22/7/2017 17:01 66	27/6/2017 21:21 61
30/6/2017 15:31 64	7/7/2017 10:01 65	12/7/2017 16:31 66	18/7/2017 11:01 67	22/7/2017 17:31 65	27/6/2017 21:26 61
30/6/2017 16:01 64	7/7/2017 10:31 64	12/7/2017 17:01 66	18/7/2017 11:31 63	22/7/2017 18:01 62	27/6/2017 21:31 61
30/6/2017 16:31 64	7/7/2017 11:01 64	12/7/2017 17:31 67	18/7/2017 12:01 64	22/7/2017 18:31 61	27/6/2017 21:36 61
30/6/2017 17:01 63	7/7/2017 11:31 62	12/7/2017 18:01 66	18/7/2017 12:31 65	24/7/2017 7:01 62	27/6/2017 21:41 61
30/6/2017 17:31 63	7/7/2017 12:01 62	12/7/2017 18:31 62	18/7/2017 13:01 67	24/7/2017 7:31 62	27/6/2017 21:46 60
30/6/2017 18:01 63	7/7/2017 12:31 62	13/7/2017 7:01 61	18/7/2017 13:31 67	24/7/2017 8:01 65	27/6/2017 21:51 60
30/6/2017 18:31 62	7/7/2017 13:01 65	13/7/2017 7:31 62	18/7/2017 14:01 66	24/7/2017 8:31 69	27/6/2017 21:56 60
3/7/2017 7:01 61	7/7/2017 13:31 65	13/7/2017 8:01 63	18/7/2017 14:31 66	24/7/2017 9:01 63	27/6/2017 22:01 60
3/7/2017 7:31 62	7/7/2017 14:01 65	13/7/2017 8:31 64	18/7/2017 15:01 66	24/7/2017 9:31 67	27/6/2017 22:06 37
3/7/2017 8:01 62	7/7/2017 14:31 67	13/7/2017 9:01 65	18/7/2017 15:31 66	24/7/2017 10:01 65	27/6/2017 22:11 47
3/7/2017 8:31 63	7/7/2017 15:01 67	13/7/2017 9:31 66	18/7/2017 16:01 68	24/7/2017 10:31 66	27/6/2017 22:16 60
3/7/2017 9:01 64	7/7/2017 15:31 66	13/7/2017 10:01 67	18/7/2017 16:31 67	24/7/2017 11:01 66	27/6/2017 22:21 61
3/7/2017 9:31 65	7/7/2017 16:01 65	13/7/2017 10:31 67	18/7/2017 17:01 59	24/7/2017 11:31 63	27/6/2017 22:26 60
3/7/2017 10:01 65	7/7/2017 16:31 66	13/7/2017 11:01 66	18/7/2017 17:31 67	24/7/2017 12:01 63	27/6/2017 22:31 60
3/7/2017 10:31 67	7/7/2017 17:01 65	13/7/2017 11:31 65	18/7/2017 18:01 67	24/7/2017 12:31 64	27/6/2017 22:36 61
3/7/2017 11:01 66	7/7/2017 17:31 64	13/7/2017 12:01 62	18/7/2017 18:31 67	24/7/2017 13:01 65	27/6/2017 22:41 60
3/7/2017 11:31 67	7/7/2017 18:01 66	13/7/2017 12:31 64	19/7/2017 7:01 62	24/7/2017 13:31 65	27/6/2017 22:46 60
3/7/2017 12:01 66	7/7/2017 18:31 64	13/7/2017 12:31 67	19/7/2017 7:31 64	24/7/2017 13:31 66	27/6/2017 22:51 60

Real-time Noise Data 27/6/2017 22:56 61	RTN4 (Causeway Bay Communit 30/6/2017 20:01 62	y Centre) 1/7/2017 13:06 61	1/7/2017 22:11 60	2/7/2017 15:16 63	3/7/2017 20:21 61
28/6/2017 19:01 60	30/6/2017 20:06 61	1/7/2017 13:11 61	1/7/2017 22:16 60	2/7/2017 15:21 59	3/7/2017 20:26 62
28/6/2017 19:06 61 28/6/2017 19:11 59	30/6/2017 20:11 61 30/6/2017 20:16 61	1/7/2017 13:16 61 1/7/2017 13:21 61	1/7/2017 22:21 60 1/7/2017 22:26 59	2/7/2017 15:26 59 2/7/2017 15:31 64	3/7/2017 20:31 63 3/7/2017 20:36 61
28/6/2017 19:16 61	30/6/2017 20:21 61	1/7/2017 13:26 61	1/7/2017 22:31 59	2/7/2017 15:36 61	3/7/2017 20:41 61
28/6/2017 19:21 61 28/6/2017 19:26 61	30/6/2017 20:26 61 30/6/2017 20:31 61	1/7/2017 13:31 62 1/7/2017 13:36 62	1/7/2017 22:36 59 1/7/2017 22:41 60	2/7/2017 15:41 62 2/7/2017 15:46 49	3/7/2017 20:46 61 3/7/2017 20:51 61
28/6/2017 19:31 61	30/6/2017 20:36 61	1/7/2017 13:41 63	1/7/2017 22:46 60	2/7/2017 15:51 59	3/7/2017 20:56 61
28/6/2017 19:36 63 28/6/2017 19:41 62	30/6/2017 20:41 61 30/6/2017 20:46 61	1/7/2017 13:46 62 1/7/2017 13:51 62	1/7/2017 22:51 61 1/7/2017 22:56 62	2/7/2017 15:56 59 2/7/2017 16:01 60	3/7/2017 21:01 61 3/7/2017 21:06 61
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29/6/2017 21:46 62 29/6/2017 21:51 61	1/7/2017 10:51 63 1/7/2017 10:56 61	1/7/2017 19:56 56 1/7/2017 20:01 78	2/7/2017 13:01 61 2/7/2017 13:06 62	2/7/2017 22:06 59 2/7/2017 22:11 60	5/7/2017 19:11 62 5/7/2017 19:16 62
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29/6/2017 22:56 60	1/7/2017 12:01 42	1/7/2017 21:06 60	2/7/2017 14:11 62	3/7/2017 19:16 57	5/7/2017 20:21 63
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Real-time Noise Data	RTN4 (Causeway Bay Communi		•	•	•
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5/7/2017 22:31 61	8/7/2017 19:36 61	9/7/2017 12:41 61	9/7/2017 21:46 60	11/7/2017 22:51 61	14/7/2017 19:56 62
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16/7/2017 12:41 62	16/7/2017 21:46 60	18/7/2017 22:51 62	21/7/2017 19:56 62	23/7/2017 9:01 60	23/7/2017 18:06 61
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16/7/2017 16:36 48 16/7/2017 16:41 62	17/7/2017 21:41 68 17/7/2017 21:46 62	19/7/2017 22:46 60 19/7/2017 22:51 61	22/7/2017 19:51 62 22/7/2017 19:56 63	23/7/2017 12:56 61 23/7/2017 13:01 61	23/7/2017 22:01 63 23/7/2017 22:06 63
16/7/2017 16:46 61	17/7/2017 21:51 61	19/7/2017 22:56 60	22/7/2017 20:01 61	23/7/2017 13:06 61	23/7/2017 22:11 61
16/7/2017 16:51 61 16/7/2017 16:56 61	17/7/2017 21:56 68 17/7/2017 22:01 68	20/7/2017 19:01 62 20/7/2017 19:06 63	22/7/2017 20:06 60 22/7/2017 20:11 60	23/7/2017 13:11 60 23/7/2017 13:16 61	23/7/2017 22:16 62 23/7/2017 22:21 64

Real-time Noise Data	RTN4 (Causeway Bay Communit	y Centre)			
23/7/2017 22:26 71	26/7/2017 19:31 61	27/6/2017 5:21 57	28/6/2017 6:26 35	29/6/2017 23:31 59	1/7/2017 0:36 59
23/7/2017 22:31 69	26/7/2017 19:36 61	27/6/2017 5:26 58	28/6/2017 6:31 61	29/6/2017 23:36 60	1/7/2017 0:41 59
23/7/2017 22:36 63	26/7/2017 19:41 60	27/6/2017 5:31 58	28/6/2017 6:36 49	29/6/2017 23:41 59	1/7/2017 0:46 59
23/7/2017 22:41 53	26/7/2017 19:46 60	27/6/2017 5:36 59	28/6/2017 6:41 55	29/6/2017 23:46 59	1/7/2017 0:51 59
23/7/2017 22:46 61	26/7/2017 19:51 60	27/6/2017 5:41 58	28/6/2017 6:46 53	29/6/2017 23:51 60	1/7/2017 0:56 59
23/7/2017 22:51 69	26/7/2017 19:56 60	27/6/2017 5:46 59	28/6/2017 6:51 54	29/6/2017 23:56 59	1/7/2017 1:01 60
23/7/2017 22:56 63	26/7/2017 20:01 62	27/6/2017 5:51 58	28/6/2017 6:56 54	30/6/2017 0:01 59	1/7/2017 1:06 59
24/7/2017 19:01 63	26/7/2017 20:06 62	27/6/2017 5:56 59	28/6/2017 23:01 59	30/6/2017 0:06 59	1/7/2017 1:11 59
24/7/2017 19:06 63	26/7/2017 20:11 61	27/6/2017 6:01 59	28/6/2017 23:06 59	30/6/2017 0:11 59	1/7/2017 1:16 59
24/7/2017 19:11 62	26/7/2017 20:16 61	27/6/2017 6:06 59	28/6/2017 23:11 60	30/6/2017 0:16 60	1/7/2017 1:21 59
24/7/2017 19:16 62	26/7/2017 20:21 63	27/6/2017 6:11 60	28/6/2017 23:16 60	30/6/2017 0:21 59	1/7/2017 1:26 59
24/7/2017 19:21 62	26/7/2017 20:26 62	27/6/2017 6:16 60	28/6/2017 23:21 59	30/6/2017 0:26 59	1/7/2017 1:31 59
24/7/2017 19:26 62	26/7/2017 20:31 61	27/6/2017 6:21 60	28/6/2017 23:26 59	30/6/2017 0:31 59	1/7/2017 1:36 59
24/7/2017 19:31 62	26/7/2017 20:36 61	27/6/2017 6:26 61	28/6/2017 23:31 59	30/6/2017 0:36 61	1/7/2017 1:41 59
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24/7/2017 20:16 62	26/7/2017 21:21 61	27/6/2017 23:11 60	29/6/2017 0:16 59	30/6/2017 1:21 58	1/7/2017 2:26 58
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24/7/2017 20:26 62	26/7/2017 21:31 62	27/6/2017 23:21 48	29/6/2017 0:26 58	30/6/2017 1:31 58	1/7/2017 2:36 58
24/7/2017 20:31 62	26/7/2017 21:36 61	27/6/2017 23:26 60	29/6/2017 0:31 58	30/6/2017 1:36 57	1/7/2017 2:41 58
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24/7/2017 20:46 61	26/7/2017 21:51 61	27/6/2017 23:41 60	29/6/2017 0:46 57	30/6/2017 1:51 58	1/7/2017 2:56 58
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24/7/2017 20:56 62	26/7/2017 22:01 61	27/6/2017 23:51 61	29/6/2017 0:56 58	30/6/2017 2:01 57	1/7/2017 3:06 58
24/7/2017 21:01 61	26/7/2017 22:06 61	27/6/2017 23:56 61	29/6/2017 1:01 57	30/6/2017 2:06 58	1/7/2017 3:11 58
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24/7/2017 21:26 60	26/7/2017 22:31 60	28/6/2017 0:21 59	29/6/2017 1:26 58	30/6/2017 2:31 58	1/7/2017 3:36 58
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24/7/2017 21:46 61	26/7/2017 22:51 60	28/6/2017 0:41 59	29/6/2017 1:46 57	30/6/2017 2:51 57	1/7/2017 3:56 59
24/7/2017 21:51 61	26/7/2017 22:56 60	28/6/2017 0:46 59	29/6/2017 1:51 56	30/6/2017 2:56 57	1/7/2017 4:01 58
24/7/2017 21:56 61	Night time: 23:00-07:00	28/6/2017 0:51 59	29/6/2017 1:56 56	30/6/2017 3:01 57	1/7/2017 4:06 59
24/7/2017 22:01 61 24/7/2017 22:06 61	Night time: 23:00-07:00	28/6/2017 0:56 59 28/6/2017 1:01 59	29/6/2017 2:06 56	30/6/2017 3:11 57	1/7/2017 4:16 57
24/7/2017 22:11 60	27/6/2017 0:01 55	28/6/2017 1:06 59	29/6/2017 2:11 56	30/6/2017 3:16 57	1/7/2017 4:21 58
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25/7/2017 19:01 63	27/6/2017 0:51 58	28/6/2017 1:56 59	29/6/2017 3:01 55	30/6/2017 4:06 57	1/7/2017 5:11 59
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26/7/2017 19:26 61	27/6/2017 5:16 59	28/6/2017 6:21 51	29/6/2017 23:26 59	1/7/2017 0:31 59	2/7/2017 1:36 58

Real-time Noise Data	RTN4 (Causeway Bay Communi	ty Centre)			
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2/7/2017 1:51 57	3/7/2017 2:56 54	4/7/2017 4:01 57	5/7/2017 5:06 56	6/7/2017 6:11 59	7/7/2017 23:16 64
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2/7/2017 2:01 56	3/7/2017 3:06 54	4/7/2017 4:11 56	5/7/2017 5:16 55	6/7/2017 6:21 60	7/7/2017 23:26 64
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2/7/2017 2:16 57	3/7/2017 3:21 55	4/7/2017 4:26 56	5/7/2017 5:31 59	6/7/2017 6:36 61	7/7/2017 23:41 64
2/7/2017 2:21 57	3/7/2017 3:26 56	4/7/2017 4:31 57	5/7/2017 5:36 57	6/7/2017 6:41 48	7/7/2017 23:46 63
2/7/2017 2:26 56	3/7/2017 3:31 55	4/7/2017 4:36 56	5/7/2017 5:41 57	6/7/2017 6:46 61	7/7/2017 23:51 63
2/7/2017 2:31 57	3/7/2017 3:36 54	4/7/2017 4:41 56	5/7/2017 5:46 58	6/7/2017 6:51 50	7/7/2017 23:56 63
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2/7/2017 3:01 55	3/7/2017 4:06 55	4/7/2017 5:11 57	5/7/2017 6:16 59	6/7/2017 23:21 59	8/7/2017 0:26 62
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3/7/2017 2:16 55	4/7/2017 3:21 56	5/7/2017 4:26 56	6/7/2017 5:31 58	7/7/2017 6:36 42	8/7/2017 23:41 59
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3/7/2017 2:26 54	4/7/2017 3:31 56	5/7/2017 4:36 55	6/7/2017 5:41 58	7/7/2017 6:46 54	8/7/2017 23:51 59
3/7/2017 2:31 56	4/7/2017 3:36 50	5/7/2017 4:41 55	6/7/2017 5:46 58	7/7/2017 6:51 49	8/7/2017 23:56 60
3/7/2017 2:36 55	4/7/2017 3:41 62	5/7/2017 4:46 55	6/7/2017 5:51 59	7/7/2017 6:56 50	9/7/2017 0:01 59
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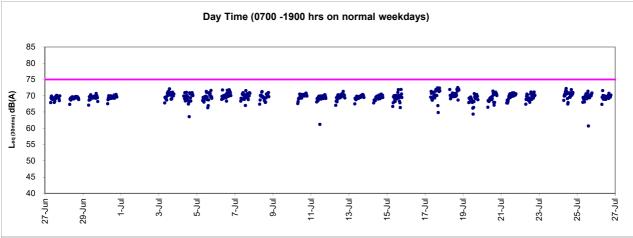
Real-time Noise Data	RTN4 (Causeway Bay Communi				
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Real-time Noise Data 15/7/2017 6:41 60	RTN4 (Causeway Bay Communit 16/7/2017 23:46 59	y Centre) 18/7/2017 0:51 59	19/7/2017 1:56 59	20/7/2017 3:01 56	21/7/2017 4:06 54
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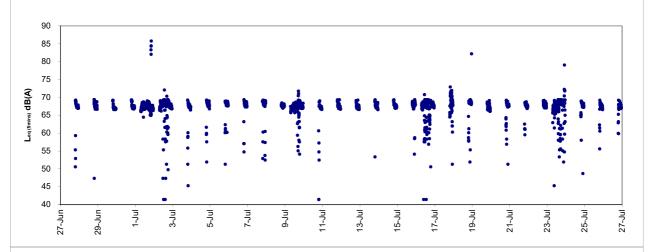
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	59 59	23/7/2017 23:21 23/7/2017 23:26	60 56	25/7/2017 0:26 25/7/2017 0:31	58 57	26/7/2017 1:31 58 26/7/2017 1:36 57
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	59 60	23/7/2017 23:36 23/7/2017 23:41	60 59	25/7/2017 0:41 25/7/2017 0:46	58 58	26/7/2017 1:46 58 26/7/2017 1:51 57
	60	23/7/2017 23:46	59	25/7/2017 0:40	57	26/7/2017 1:56 58
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	58	24/7/2017 2:56	54	25/7/2017 4:01	55	26/7/2017 5:06 55
	58 58	24/7/2017 3:01 24/7/2017 3:06	55 54	25/7/2017 4:06 25/7/2017 4:11	55 54	26/7/2017 5:11 56 26/7/2017 5:16 56
23/7/2017 2:06	58	24/7/2017 3:11	55	25/7/2017 4:16	54	26/7/2017 5:21 56
	58 60	24/7/2017 3:16 24/7/2017 3:21	54 56	25/7/2017 4:21 25/7/2017 4:26	55 55	26/7/2017 5:26 56 26/7/2017 5:31 57
	58	24/7/2017 3:26	54	25/7/2017 4:31	56	26/7/2017 5:36 57
	57	24/7/2017 3:31	54	25/7/2017 4:36	55	26/7/2017 5:41 58
	58 58	24/7/2017 3:36 24/7/2017 3:41	56 54	25/7/2017 4:41 25/7/2017 4:46	54 56	26/7/2017 5:46 58 26/7/2017 5:51 58
	58	24/7/2017 3:46	54	25/7/2017 4:51	55	26/7/2017 5:56 59
	57 57	24/7/2017 3:51 24/7/2017 3:56	54 54	25/7/2017 4:56 25/7/2017 5:01	56 55	26/7/2017 6:01 59 26/7/2017 6:06 59
	59	24/7/2017 3:30	54	25/7/2017 5:06	54	26/7/2017 6:00 59 26/7/2017 6:11 58
23/7/2017 3:01	57	24/7/2017 4:06	54	25/7/2017 5:11	56	26/7/2017 6:16 59
	58 57	24/7/2017 4:11 24/7/2017 4:16	54 55	25/7/2017 5:16 25/7/2017 5:21	55 56	26/7/2017 6:21 59 26/7/2017 6:26 60
23/7/2017 3:16	57	24/7/2017 4:10	55	25/7/2017 5:26	56	26/7/2017 6:31 60
	58	24/7/2017 4:26	54	25/7/2017 5:31	56	26/7/2017 6:36 61
	57 57	24/7/2017 4:31 24/7/2017 4:36	55 54	25/7/2017 5:36 25/7/2017 5:41	57 58	26/7/2017 6:41 61 26/7/2017 6:46 60
23/7/2017 3:36	57	24/7/2017 4:41	55	25/7/2017 5:46	57	26/7/2017 6:51 51
	57 58	24/7/2017 4:46 24/7/2017 4:51	54 55	25/7/2017 5:51 25/7/2017 5:56	59 59	26/7/2017 6:56 51 26/7/2017 23:01 60
23/7/2017 3:51	57	24/7/2017 4:56	55	25/7/2017 6:01	58	26/7/2017 23:06 60
	58 57	24/7/2017 5:01 24/7/2017 5:06	55 56	25/7/2017 6:06 25/7/2017 6:11	58 58	26/7/2017 23:11 60 26/7/2017 23:16 60
	57 57	24/7/2017 5:06 24/7/2017 5:11	55	25/7/2017 6:11	58 59	26/7/2017 23:16 60 26/7/2017 23:21 60
23/7/2017 4:11	57	24/7/2017 5:16	56	25/7/2017 6:21	59	26/7/2017 23:26 60
	57 57	24/7/2017 5:21 24/7/2017 5:26	56 57	25/7/2017 6:26 25/7/2017 6:31	59 59	26/7/2017 23:31 59 26/7/2017 23:36 59
	57	24/7/2017 5:31	57	25/7/2017 6:36	61	26/7/2017 23:41 60
	57	24/7/2017 5:36	57	25/7/2017 6:41	60	26/7/2017 23:46 59
	57 57	24/7/2017 5:41 24/7/2017 5:46	57 57	25/7/2017 6:46 25/7/2017 6:51	60 60	26/7/2017 23:51 60 26/7/2017 23:56 59
23/7/2017 4:46	57	24/7/2017 5:51	58	25/7/2017 6:56	60	
	57 57	24/7/2017 5:56 24/7/2017 6:01	59 58	25/7/2017 23:01 25/7/2017 23:06		
	57 57	24/7/2017 6:01	58	25/7/2017 23:06	60	
23/7/2017 5:06	57	24/7/2017 6:11	58	25/7/2017 23:16		
	57 57	24/7/2017 6:16 24/7/2017 6:21	59 59	25/7/2017 23:21 25/7/2017 23:26		
23/7/2017 5:21	57	24/7/2017 6:26	60	25/7/2017 23:31	59	
	58 58	24/7/2017 6:31	60	25/7/2017 23:36		
	58 60	24/7/2017 6:36 24/7/2017 6:41	60 39	25/7/2017 23:41 25/7/2017 23:46		
23/7/2017 5:41	59	24/7/2017 6:46	50	25/7/2017 23:51	59	
	57 59	24/7/2017 6:51 24/7/2017 6:56	49 61	25/7/2017 23:56 26/7/2017 0:01	58 59	
23/7/2017 5:56	60	24/7/2017 23:01	60	26/7/2017 0:06	58	
	58 59	24/7/2017 23:06 24/7/2017 23:11		26/7/2017 0:11 26/7/2017 0:16	60 59	
	59 59	24/7/2017 23:16		26/7/2017 0:10	58	

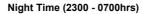


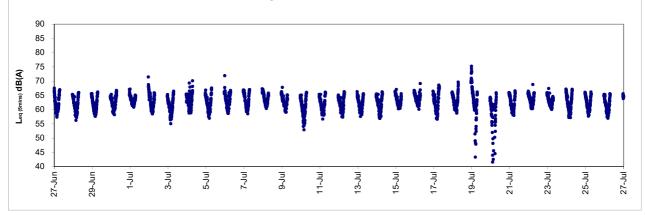
Graphic Presentation of Real Time Noise Monitoring Result (RTN1-Food and Environmental Hygiene Department Depot)



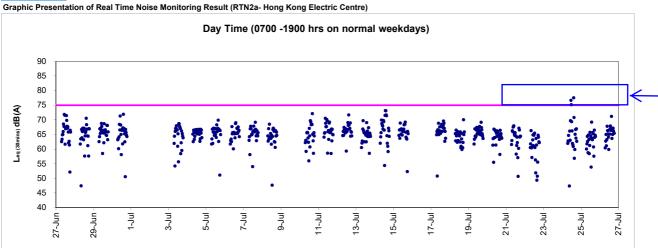


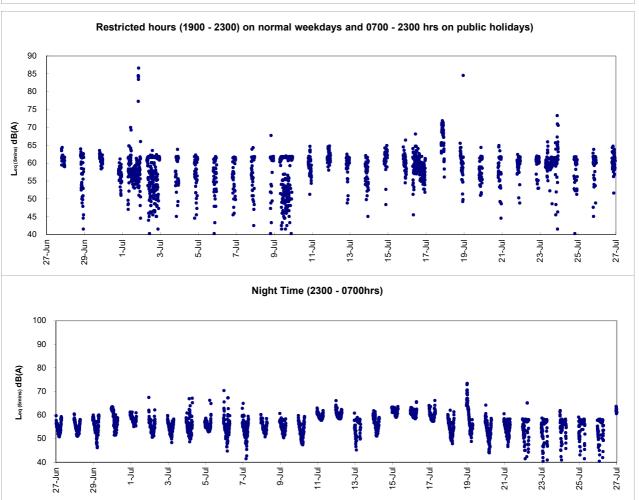






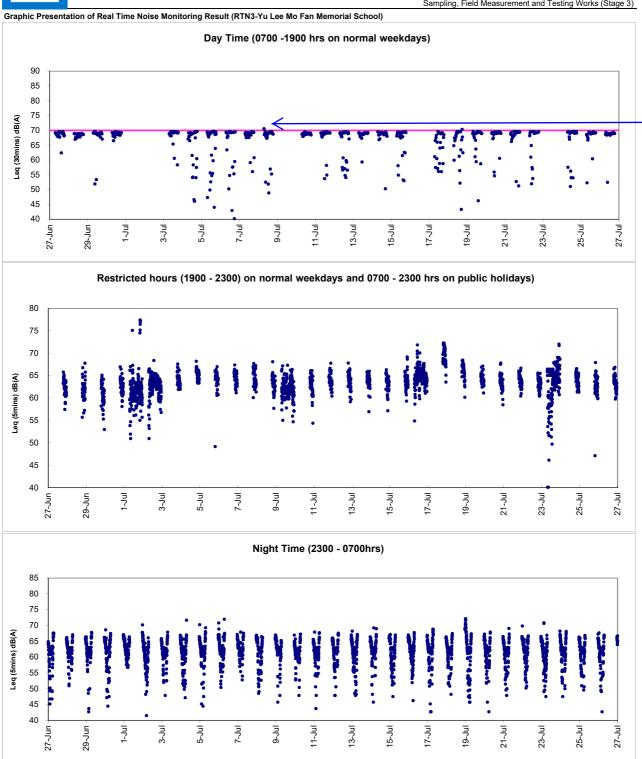






After checking with Contractor, trimming bored pile head and sheet pile installation was conducted behind Administration Building Structure under Contract HY/2009/19 and concreting, rebar fixing, formwork erection and excavation were conducted at Administration works area under HY/2011/08 and no particular noise impact was considered while external wall maintenance work at HK Electric Centre was recorded across the monitoring date and potentially contributed to the recorded noise. In view of the above, the exceedances were considered as non-Project related.



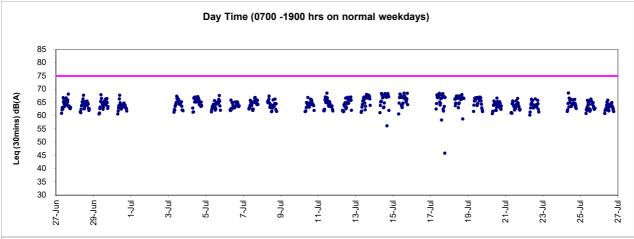


After checking with Contractor of HY/2009/19, no construction works was conducted during the monitoring period and the exceedance is potentially contributed by nearby IEC traffic. Hence, the exceedance was considered as non-Project related.

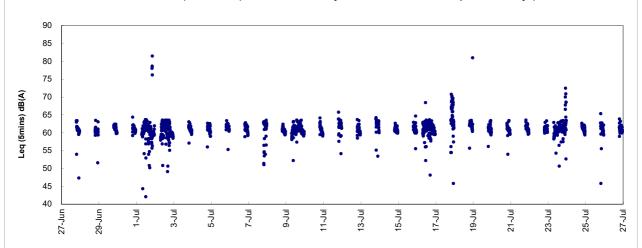
27-Jul

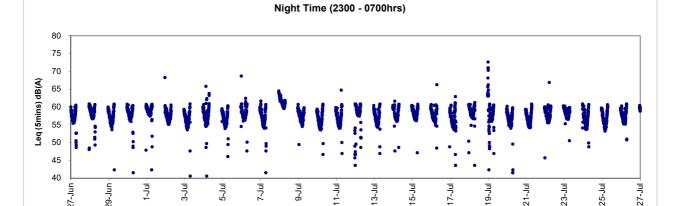


Graphic Presentation of Real Time Noise Monitoring Result (RTN4-Causeway Bay Community Centre)









## Appendix 6.1

Event Action Plans

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

EVENT		AC	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		ACTION							
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)					
2. 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 further exceedance;     Submit proposals for remedial actions IEC within 3 working days of notificatio 3. 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 to IEC within 3 working days of notification 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 workin days after the exceedance is identified)					

## Appendix 6.2

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
X_16N092	7-Jul-17	10:35	M1a-Harbour Road Sports Centre	87	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Sheet piling works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution.
								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 loading and unloading conducted by crane was carried out under Contract HK/2009/02 with breaking works conducted momentarily around the concerned location during the time of measurement, the continuous sheet piling works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. In view of the momentary noise emanated from breaking works was observed having no influential effect on the noise level during the measurement, the exceedance was considered as non-Project related. Nevertheless, in view of the concurrent operation non-WDII CWB Project around the monitoring station, the Contractor of HK/2009/02 was reminded to adopt suitable noise mitigation measures for the noise emanating works to avoid potential cumulative impact to the surroundings.
X_16N093	7-Jul-17	10:35	M1a-Harbour Road Sports Centre	87	Leq(30min)	when one documented complaint was	75	Possible reason:	Sheet piling works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution.
						received.		Action taken / to be taken:	A repeat measurement was conducted to confirm result and reviewed the trend of previous noise
								Damania / Other Ohai	monitoring and Contractor's working procedure.  No construction work was conducted by Contract HK/2009/01 around the concerned location during the
								Remarks / Other Obs:	time of measurement while continuous sheet piling works next to the monitoring station under non WDII- CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.
X_16N095	13-Jul-17	10:35	M1a-Harbour Road Sports Centre	78	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Breaking works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution.
								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 concreting, loading and unloading conducted by crane was carried out under Contract HK/2009/02, no major noise emanation was observed while breaking works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. In view of the above, the exceedance was considered as non-Project related.
X_16N096	13-Jul-17	10:35	M1a-Harbour Road Sports Centre	78	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Breaking works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution.
								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:	No construction work was conducted by Contract HK/2009/01 around the concerned location during the time of measurement while breaking works next to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.

Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
X_16N096	20-Jul-17	10:20	M1a-Footbridge at Ex Harbour Road Sports Centre	83	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Breaking works next to the monitoring station under Contractor of HK/2009/02 was observed as the major noise contribution during monitoring.
								Action taken / to be taken:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.
									Breaking works was undertaken by Contract HK/2009/02 during measurement while nearby non CWB construction works was observed conducted in parallel, the construction noise level measured was: 20 July 2017 at 10:20 83 dB(A). (Measured Noise level : 83.8 dB(A)).  The construction noise level of repeat measurement at the same location on the same date was: 20 July 2017 at 10:50 76 dB(A) (Measured Noise Level: 77.6 dB(A))
									As no construction works under Contract HK/2009/02 was observed during the repeat measurement while the nearby non WDII-CWB Project construction works was observed on-going, the measured noise level during the repeat measurement of 77.6 dB(A) (without construction works) was taken as the instantaneous background noise level across the monitoring period for evaluation purpose. Hence, the construction noise level was determined to be 82.6 dB(A).
									In view of the current monitoring location was established at the site boundary location as the location was the only available location for representing the WDII project contribution to the nearest NSR (i.e. Causeway Centre), it is considered that the distance attenuation effect shall be taken into account to assess the potential noise impact of the observed construction works under HK/2009/02 to the nearest affected NSR (i.e. Causeway Centre). Based on the distance separation between the measurement point and the observed major noise source (i.e. breaking operation), the SWL of the major noise source was determined to be as 116.9 dB(A). Subsequently, based on the distance attenuation from the noise source to the nearest affected NSR, (i.e. 176.1m), the construction noise level due to the observed breaking operation at the nearest sensitive façade is 63.9 dB(A). Hence, it is concluded that the recorded noise level would not adversely affect the nearest NSR.
								Remarks / Other Obs:	Backfilling works, breaking works and unloading of C&D material from barge to land were conducted under Contract HK/2009/02 around the monitoring location during the time of measurement while bored pile works was observed conducted around the monitoring location under non WDII-CWB Project at the time of measurement. Despite the breaking works was considered as the major noise contribution during the measurement hence the exceedance is considered as Project related, the noise impact to the nearest NSR is further assessed considering the boundary location of the monitoring station and no adverse noise impact to the nearest NSR is identified. Nevertheless, in view of the recorded boundary condition, the Contractor of HK/2009/02 is suggested to adopt additional noise mitigation measures to avoid potential cumulative impact to nearby stakeholders.
X_16N097	20-Jul-17	10:20	M1a-Footbridge at Ex Harbour Road Sports Centre	83	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Breaking works next to the monitoring station under Contractor of HK/2009/02 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 breaking works next to the monitoring station under Contract HK/2009/02 was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.
X_16N098	18-Jul-17	10:00	M6 - HK Baptist Church Henrietta Secondary School	66	Leq(30min)	when one documented complaint was received.	65	Possible reason:	Traffic nearby was observed during monitoring and was considered as the major noise contribution.
								Action taken / to be taken:	Reviewed the trend of noise measurement while repeat measurement was not feasible within the examination period owing to adverse weather condition. Analysis of contractor's working procedure
								Remarks / Other Obs:	Despite installation of launching girder works was conducted under HY/2009/19 around the monitoring location and nearby traffic noise was observed as major noise source during monitoring. As such, the exceedance was considered as non-Project related.

Ref. No.	Date	Time	Location	Construction Noise Level, dB(A)	Parameter	Action Level	Limit Level dB(A)	Follow-up action	
X_16N100	26-Jul-17	10:20	M1a-Footbridge at Ex Harbour Road Sports Centre	85	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Breaking works next to the monitoring station under Contractor of HK/2009/02 was observed as the major noise contribution during monitoring.
								Action taken / to be taken:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. The Contractor was advised to submit remedial plan according to the EAP.
									Breaking works was undertaken by Contract HK/2009/02 during measurement while nearby non CWB construction works was observed conducted in parallel, the construction noise level measured was: 26 July 2017 at 10:20 85 dB(A).
									In view of the current monitoring location was established at the site boundary location as the location was the only available location for representing the WDII project contribution to the nearest NSR (i.e. Causeway Centre), it is considered that the distance attenuation effect shall be taken into account to assess the potential noise impact of the observed construction works under HK/2009/02 to the nearest affected NSR (i.e. Causeway Centre). Based on the distance separation between the measurement point and the observed major noise source (i.e. breaking operation), the SWL of the major noise source was determined to be as 131.8 dB(A). Subsequently, based on the distance attenuation from the noise source to the nearest affected NSR, (i.e. 225.6 m), the construction noise level due to the observed breaking operation at the nearest sensitive facade is 76.8 dB(A) and it is concluded that the project related exceedance would adversely affect the nearest NSR.
									Hence, the Contractor of HK/2009/02 was advised to prepare and submit the remediation plan for the concerned breaking works according to the Event and Action Plan. According to the plan, remedial actions including i) reduction in no. of breakers operating in parallel ii) operate breakers intermittently and iii) covering of breaker head with acoustic material were implemented by the Contractor on 03 August 2017.
								Remarks / Other Obs:	Backfilling works, breaking works and unloading of C&D material from barge to land were conducted under Contract HK/2009/02 around the monitoring location during the time of measurement while bored pile works was observed conducted around the monitoring location under non WDII-CWB Project at the time of measurement. The breaking works under Contract HK/2009/02 was observed as the major noise contribution during the measurement hence the exceedance is considered as Project related and the adverse noise impact to the nearest NSR was resulted. The Contractor of HK/2009/02 was requested to submit a remedial action plan according to the Event and Action Plan. Remedial actions including i) reduction in no. of breakers operating in parallel ii) operate breakers intermittently and iii) covering of breaker head with acoustic material were implemented by the Contractor on 03 August 2017.
									Additional noise measurement was conducted on 03 August 2017 and the construction noise level measured was: 03 August 2017 at 15:49 82 dB(A). According distance separation between the measurement point and the observed major noise source (i.e. breaking operation), <a 71.3="" a="" after="" at="" attenuation="" db(a)<="" distance="" documents.com="" façade="" href="https://linearing.com/the-SWL_Of the major noise source was determined to be as 124.4dB(A)&lt;/a&gt;. Subsequently, based on the distance attenuation from the noise source to the nearest affected NSR, (i.e. 179.5 m), &lt;a href=" https:="" is="" mitigation="" nearest="" operation="" sensitive="" the="" the-swl=""> and no further adverse noise impact to the nearest NSR is identified.</a>
X_16N101	26-Jul-17	10:20	M1a-Footbridge at Ex Harbour Road Sports Centre	85	Leq(30min)	when one documented complaint was received.	75	Possible reason:	Breaking works next to the monitoring station under Contractor of HK/2009/02 was observed as the major noise contribution during monitoring.
						roomed.		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 next to the monitoring station under Contract HK/2009/02 was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.

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	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



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				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	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	07/08/2011				4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.  5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
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.	Remarks: There will be counted as two complaints in this complaint log.  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 pilling 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 pilling works were undertaken during monitoring. 4) In order to reduce the noise impact to nearby noise sensitive receivers, Contractor has been implemented the following noise mitigation measures:  - Erection of acoustic lining at the hoarding next to Four Seasons Hotel; - Temporary noise barrier with extended acoustic lining; - Reduced in plant such that only have one vibration	Closed



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					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



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				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 wih their expectation. 7) During on-site inspection, floating refuses observed	Closed



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					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.      D	Closed



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		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>2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.</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



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-					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 quality 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



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					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

Lam Geotechnics Limite
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					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.		
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.	ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period.	



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						2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
120415	15/04/2012	The complainant Ms. Law, resident of Fu Lee Loy Mansion, complained via hotline 1823 (ICC Ref. No.: 1-351021108)	North Point	A complaint regarding excessive noise generated from a HyD project that is located at the connection point of CWB and IEC affecting nearby residents. Lately during the middle of the night (around 00:00 to 05:00), low frequency noise, which possibly came from the operating power generator and the barges which were parked along the Oil Street work site, were making a nuisance to the complainant and residents nearby. The complainant requested that relevant department should follow-up.	3)	RSS notified ET on 17 April 2012. ET confirmed with the Resident Site Staff that there was no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.  After reviewing the results of noise monitoring (M4b and M5b), no exceedance was recorded during day time period and the noise level was below 75dB(A). Site inspection for HY/2009/19 was conducted on 18 April 2012. The condition of noise mitigation measures near Harbour Heights were found satisfactory. RSS confirmed that no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.  HyD made a reply to the complainant on 30 April 2012 via email. HyD replied that the current works near Oil Street, North Point, included CWB tunnel works, IEC connections and associated foundation works. According to RSS records, no operations were performed during the early hours of March and April at Oil Street and the waterbody nearby, and so it was believed that the noise nuisance was not generated from the CWB project. Despite that, RSS would continue to monitor the Contractor on the operations and effectiveness of the environmental mitigation measures implemented on site, as not to affect daily life of local residents nearby. No further complaint was received after the response.	Closed



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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



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130606	30/5/2013	ICC Ref. No.: #1-430164728	Central – Man Kat Street	1. 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 considered that the witered and yellow leaves of the affected (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 planter area in close proximity to few of 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.	Closed



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					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.	



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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.	<ol> <li>1) RSS notify ET on 11 June 2013</li> <li>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             <ul> <li>Breaking up existing D-wall concrete and</li></ul></li></ol>	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.



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131010	Complaint  03 Oct 2013	and Received By 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;	Closed



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					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.	
131217	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	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.
					on 19 Dec 2013, sandbags, geotextile and gravels placed at gullies located at public area were removed by the Contractor on the same day for maintaining passible public pavement. Follow up measures including sandbag bundle and covering of worksarea with impervious sheeting was immediately placed at the source of impact at the concerned worksarea boundary by the Contractor.	



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 exisiting 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 sheetpiling 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 exisiting pillar box, pressing of sheet pile, welding work for preparation of sheetpilling demolition of exisiting 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.

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		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.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.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.

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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)	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	Final investigation report issued
		received by ET on 01 August 2014		S	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.	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 operation on the new IEC Eastbound after traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.	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
			Оприши		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
			Оприши		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.  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.	Updated interim investigation with supplementar y information submitted to EPD on 17 November 2014.  EPD advised no further comment on the updated interim report
					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.	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.	



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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 pedestrians. (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 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.	Dec 2014.
					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.	



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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 non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	
					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	

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



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 report submitted to EPD on 17 April 2015, EPD advised no comment on 30 April 2015 on the interim report 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.	

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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.
					According to the relevant site records under Contract HK/2009/01, from across 08:00hrs to 18:00hrs during the period from 3 April 2015 to 7 April 2015, backfilling works was conducted under Contract HK/2009/01 at CWB Tunnel Stage 3. Either 1 no. of dump truck and 1 no. of excavator was operated on site at each given time during the	



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					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."  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	Final Investigation report issued on 20 April 2015 and case closed
					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 location works undertaken by other parties at the concerned period.	Final Investigation report issued on 18 May 2015 and case closed



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20150601	1 29 May EPD Con 2015 complaint gate	case (EPD Case Central State of Type Central Central Central State of Type Central Central Central State of Type Central State of Ty	gate V2 near Expo Drive Central without wheel-	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.	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.	
					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.	



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					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.



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					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 potential noise nuisance to nearby public.	
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	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.



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					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	
					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	



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					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.



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					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.	
150723	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.	Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.
					According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date.	



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-					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 malodour impact to nearby public.	
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	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. 2 <sup>nd</sup> interim report submitted to EPD on 17 Dec 2015



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				transporting C&D material at the site.	ET confirmed with the Resident Site Staff that from	3 <sup>rd</sup> interim report submitted to EPD on 31 Dec 2015
					0800 hrs to 1800 hrs on 30 August 2015, removal of	
					scaffold and timber and installation of bulkhead was	
					undertaken by the Contractor of HK/2012/08 at the	
					concerned location. Total one generator and one	
					circular saw were in operation.	
					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	

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					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.	

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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 specified	EPD complaint received by ET on 17 Novmeber 2015	Causeway Bay Typhoon Shelter	Improper handling or bentonite and marine sediment generated from construction works and contaminated discharge from water treatment plant into Victoria Habour	A public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Habour.  The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats.  Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill.  White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.  In response to the complaint concern, additional water quality monitoring from end November 2015 to mid January 2016 until the post-diaphragm wall construction activities and all bentonite silos and residue bentonite slurry at TS3 were completely removed had been undertaken by the Environmental Team and additional site inspections	Interim investigation report submitted to EPD on 24 November 2015.  2nd interim investigation report submitted to EPD on 17 December 2015.  3rd interim investigation report submitted to EPD on 31 December 2015.  Final investigation report submitted to EPD on 31 December 2015.  Final investigation report submitted on 5 February 2016.

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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 report to be
case (ICC Ref: 2-		ET on 27 November	Garden Block 11	metal onto adjacent barrier	(ICC Case Ref.: 2-1593165694 dated 26 November	issued on 01
159316569		2015		at night time	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.	

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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.	
					A multiple consultaint managing a size insured unformed	Final variant
ICC	14 Decemb	EPD complaint	Construction area outside City	Incessant noise emanating from the construction site	A public complaint regarding noise impact referred by RSS was received by ET on 16 December 2015	Final report was issued on
complaint case (ICC	er 2015	received by	Garden Block 10	of the Island East Corridor	(ICC Case Ref.: 2-1656689815 dated 14	23 December
Case Ref:		ET on 04	and Block 11	link that forms part of the	December 2015). The complainant reported that:	2015 and
2- 165668981		December 2015		Central Wanchai Bypass Project	December 2013). The complainant reported that.	case closed.
5				-	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	

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
EPD complaint case (EPD Case Ref.:H05/R S/00001524 -16	22 January 2016	EPD complaint received by ET on 22 January 2016	Hung Hing Road	Construction wastewater from the China Stat's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water	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.	Interim investigation report submitted to EPD on 01 February 2016. EPD advised on 17 February no comment on the interm
					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	report submitted and case closed.
					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	



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



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	1st investigation report issued on 11 March 2016.  2nd investigation report issued on 23 March 2016 and case closed.
					inspection was conducted during the weekly 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
					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 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.: 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 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.

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Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint	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 at the waterfront of Lung King Street by the Contractor of HK/2012/08. Upon investigation, the concerned observed floating foam at the waterfront of Lung King Street was found originating from the diverted cooling mains discharge.  Follow up inspection was conducted during the weekly environmental site inspection on 15 March 2016 and dust suppression measures including watering for haul road, tarpaulin sheet covering for cement bags stored on site and three side and top covering for grouting station were implemented while and no dark smoke emission from the plant and machinery deployed on site was observed. Noise mitigation measures including acoustic covering was implementing for excavator mounted breaker. In addition, removal of floating refuse on site was observed implemented by the Contractor of HK/2012/08 and no accumulation of floating refuse was found. The concerned foam originating from diverted cooling mains discharge was	Status
					observed during inspection and the dispersion of the concerned foam of unknown chemical nature was observed isolated from the nearby public area.  Nevertheless, in view of the public concern, the	



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					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	23 March 2016	EPD complaint received by ET on 31 March 2016	Seafront opposite to City Garden	Muddy water discharge from construction site outside City Garden	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.	EPD advised no comment on 02 September 2016 on the
					ET confirmed with the Resident Site Staff that pipe Laying works between Pier 32 and Pier 33 and excavation and blinding works for Manhole at Pier 34 were in progress on 22 March 2016.	interim report 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.	

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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; iii)Filling the concerned manhole with rubbles;	
					iv)Shifting the concerned marinole with rubbles, iv)Shifting the unused wastewater treatment plant around the concerned location to other site location for use.	
					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		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.
					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.	no comment on 02 September 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
					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 Case Ref.:2- 203652505 5 dated 27 March 2016	27 March 2016	ICC complaint case received by ET on 11 April 2016	Victoria Park Road Pedestrian Pathway	Toppling of tree	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 recommended to be felled in the tree risk assessment Form 2.	Investigation Report issued on 15 April 2016 and case closed
					With respect to the observed incident of the toppling of the concerned tree T710, 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.

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	Investigation report issue on 19 April 2016 and case close

 te of 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.	





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					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, pilling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from pilling 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).	Interim investigation report submitted to EPD on 7 June 2016. EPD advised
				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. According to the relevant site records provided by	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 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.	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.
					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.	



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					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.	The interim report submitted to the EPD on 22 July 2016

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					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 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.

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					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 to 0100hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Grouting works at Victoria Park Road Eastbound slow lane was conducted from 2300hrs to 2359hrs on 03 September 2016. Total 1 no. of grout mixer, 1 no. of agitator and 1 no. of grout pump were in operation. Relevant Construction Noise Permit GW-RS0531-16 was in place for the above construction activities.	
					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
EPD Ref: H08/RS/000 24768-16 dated 07 October 2016	28 Sept 2016 04 Oct 2016	A public complaint referred by EPD was received by ET on 07 October 2016	Causeway Bay Typhoon Shelter	Construction work at the construction site in Causeway Bay Typhoon Shelter area was found after 1900hrs on 28 September 2016 and 04 October 2016 that caused noise nuisance.	A public complaint referred by EPD was received by ET on 07 October 2016 (Case Ref.: H08/RS/00024768-16). The complainant reported that construction work at the construction site in Causeway Bay Typhoon Shelter area was found after 1900hrs on 28 September 2016 and 04 October 2016 that caused noise nuisance. The complainant also reported that there were 5 concrete lorry mixers operating at the above site after 1900hrs on 04 October 2016.  ET confirmed with the Resident Site Staff that concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 28 September 2016. One concrete pump and two concrete lorry mixers were in operation. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3 (W). Concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 04 October 2016. One concrete pump and two concrete lorry mixers were in operation. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the East of TS3 (W) and 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 East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3 (W).	The interim investigation report was submitted to EPD on 18 October 2016.
					Based on the site records confirmed by RSS, concreting for tunnel structure in TS3 (W) was conducted from 1900hrs to 2300hrs on 28 September 2016 and from 1900hrs to 2300hrs on 04 October 2016 and total one concrete pump and two concrete lorry mixers were in operation during the above concerned periods. One no. of concrete lorry mixer was located at the East of TS3 (W) and one no. of concrete lorry mixer was located at the west of TS3(W) during the above concerned periods and relevant Construction Noise Permit	



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.	submitted to



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
Log No.  EPD complaint H08/RS/000 01175-17 dated 16 January 2016	10 January 2017	and Received By  A public complaint referred by EPD received by ET on 16 January 2017	Causeway Bay Typhoon Shelter	Construction work at the reclamation site in Causeway Bay Typhoon Shelter area (Under the Island Eastern Corridor) was found after1900hrs on 10 January 2017 and the concrete lorry mixer and concrete pump may not comply with the Construction Noise Permit	A public complaint referred by EPD was received by ET on 16 January 2017 (Case Ref.: H08/RS/00001175-17). The complainant reported that construction work at the reclamation site in Causeway Bay Typhoon Shelter area (Under the Island Eastern Corridor) was found after 1900hrs on 10 January 2017. The complainant reported that there were 3 concrete pumps and around 10 concrete lorry mixers operating at the above site during the said period which may not comply with the Construction Noise Permit.  ET confirmed with the Resident Site Staff that concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 1900hrs and 2000hrs on 10 January 2017.  Total 3 nos. of Lorry Mounted Concrete Pumps	Interim investigation report submitted to EPD on 03 February 2017.
					and 6 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 2 nos. of the operating Lorry Mounted Concrete Pumps and 4 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at stand-by within TS3 Works area.	
					Concreting of tunnel structure was conducted under Contract HY/2010/08 at Temporary Reclamation Area TS3 between 2000hrs and 2030hrs 10 January 2017.Total 2 nos. of Lorry Mounted Concrete Pump and 4 nos. of Concrete Lorry Mixers were operated at TS3 while temporary noise barrier was provided for 1 no. of the operating Lorry Mounted Concrete Pumps and 2 nos. of the operating Concrete Lorry Mixers. Total 1 no. of Concrete Lorry Mixer was at standby within TS3 Works area.	



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	

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

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 5 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 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.	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		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	



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 2017	22 February 2017	ICC complaint case referred by RSS received by ET on 27 February 2017	Construction Site at Victoria Harbour near Victoria Park	Noise was emanated from the construction Site at Victoria Harbour near Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was observed on scene.	An ICC complaint referred by RSS was received by ET on 27 February 2017 (CASE#2-3521097579). The complainant reported that noise was emanated from the construction Site at Victoria Harbour near Victoria Park from 0000hrs to 0200hrs on Tuesday and caused nuisance and Concrete Lorry was observed on scene.	Final Investigation Report issued on 02 March 2017 and case closed.
					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 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 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
ICC Complaint Case (CASE #2- 357615753 8 dated 05 March	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. Under EPD Review.



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.	
					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.	
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.	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. Under EPD Review.



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	

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Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	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	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 0800hrs to 0915hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0800hrs 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 0730hrs to 1740hrs; i) 7 nos	Investigation report submitted to EPD on 02 June 2017.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
•				Nature of Complaint	operated at intervals between the time period of 0730hrs to 1740hrs on 21 May 2017 and the above construction operations could not comply with the item 3a - PME requirement under the Construction Noise Permit GW-RS334-17.  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	Status
					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
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	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).	
				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 on 21 May 2017, i) 12 nos. of vibratory pokers were operated at Tunnel Portion 5 from 0730hrs to 1740hrs; ii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0800hrs to 0915hrs; iii) 3 nos. of crawler cranes were operated at Tunnel Portion 5 from 0915hrs to 1030hrs on 21 May 2017; iv) 4 nos. of concrete pump trucks were operated at Tunnel Portion 5 from 0750hrs to 1650hrs; v) 4 nos. of generators were operated at Tunnel Portion 5 from 0730hrs to 1740hrs;) 7 nos. of concreting trucks were	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
•				Nature of Complaint	operated at intervals between the time period of 0730hrs to 1740hrs on 21 May 2017 and the above construction operations could not comply with the item 3a - PME requirement under the Construction Noise Permit GW-RS334-17.  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	Status
					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
EPD complaint Case (CASE Ref: H05/RS/00 021311-17) dated 13 July 2017	07 July 2017	EPD complaint referred to ET on 13 July 2017	Construction site near Renaissance Hong Kong Harbour View Hotel	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.	Interim investigation report submitted to EPD on 21 July 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 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	

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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	Interim report submitted to the EPD on 25 July 2017.

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
EPD complaint Case (CASE Ref: H05/RS/00 022835-17) dated 21 July 2017	20 July 2017	EPD complaint referred to ET on 21 July 2017	Construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier	Mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.	An EPD complaint was referred to the ET on 21 July 2017 (CASE Ref: H05/RS/00022835-17). The complainant reported that mechanical noise was emanated from a construction site near Renaissance Hong Kong Harbour View Hotel and Wanchai Pier from late night till dawn recently, causing noise nuisance.	Interim report submitted to EPD on 26 July 2017.
					ET confirmed with the Resident Site Staff that unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works.	
					No construction activities or site operation was conducted under Contract HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.	
					According to the RSS site information, unloading of fill material was conducted under Contract HK/2009/02 at WCR3 area (West of Wan Chai Ferry Pier) from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. 1 no. of grab dredger was operated for the above construction works and relevant Construction Noise Permit GW-RS0348-17 was in place and noise barrier with surface mass density of not less than 5kg/m2 was provided to the power generating part of the grab dredger operated from 2300hrs on 19 July 2017 to 0540hrs on 20 July 2017. Meanwhile, no construction activities or site operation was conducted under Contract	
					HK/2009/01 from 2300hrs on 19 July 2019 to 0700hrs on 20 July 2017.  In view of the public concern, the Contractor of HK/2009/02 was reminded to upkeep the site	



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 implemented for the above construction activities on 25 July 2017 at the concerned location. During Environmental Team ad hoc inspection conducted	Investigation report issued on 04 August 2017.
					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.	

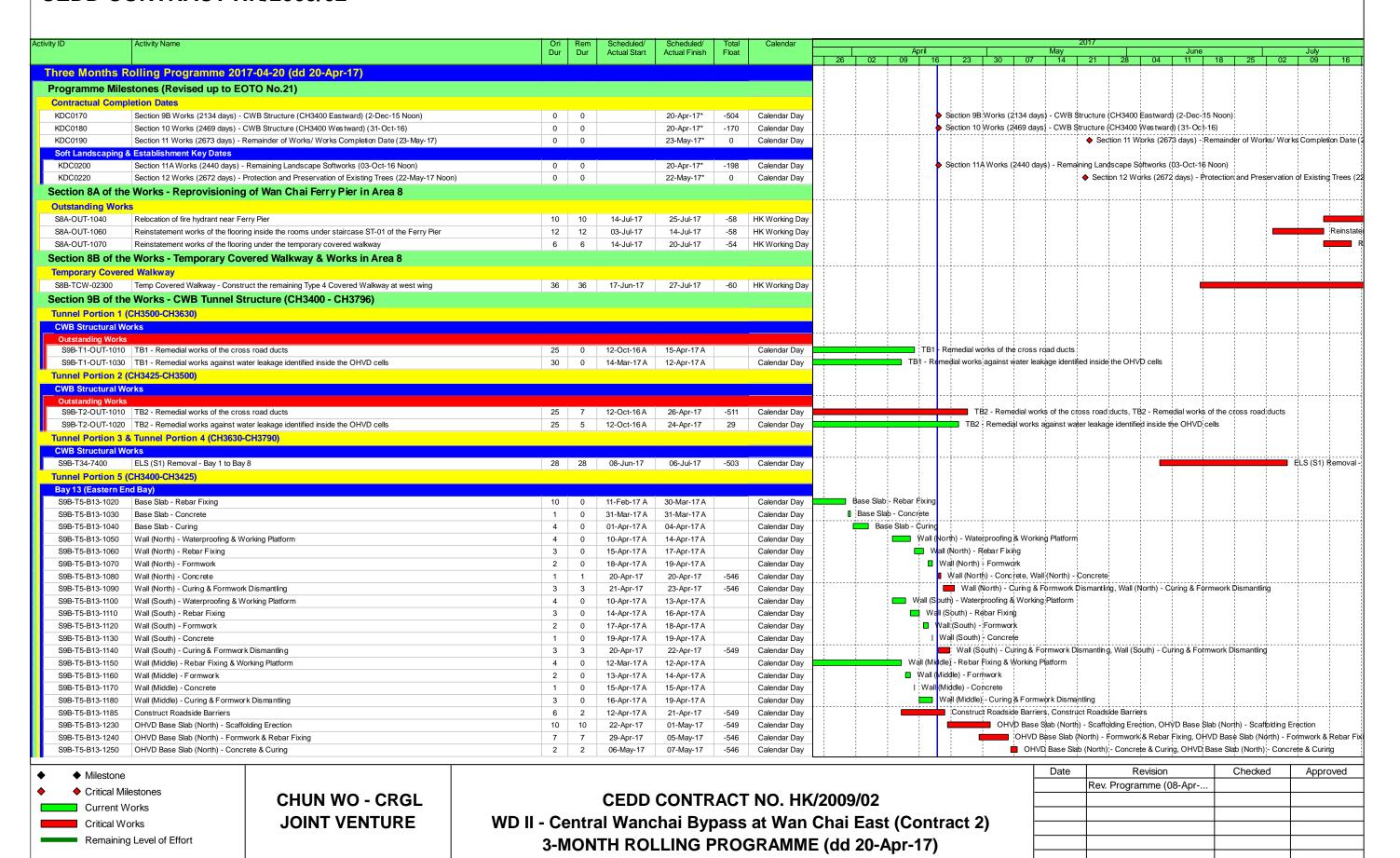
#### Appendix 10.1

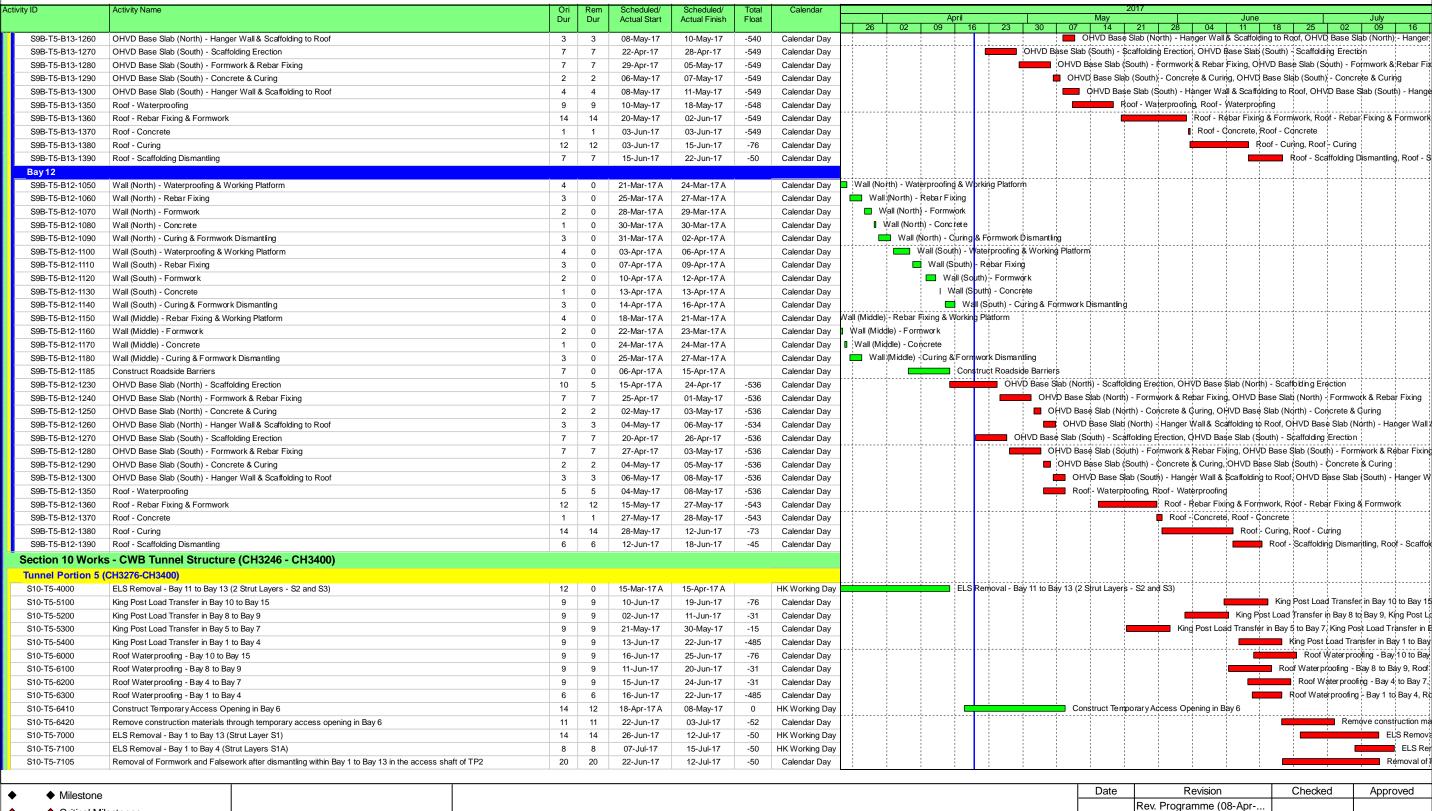
Construction Programme of Individual Contracts

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	June 2017	July 2017	August 2017
Reinstatement of Amenity Area			
Road and Drain Works	<b>I</b>		





◆ ◆ Critical Milestones

Current Works

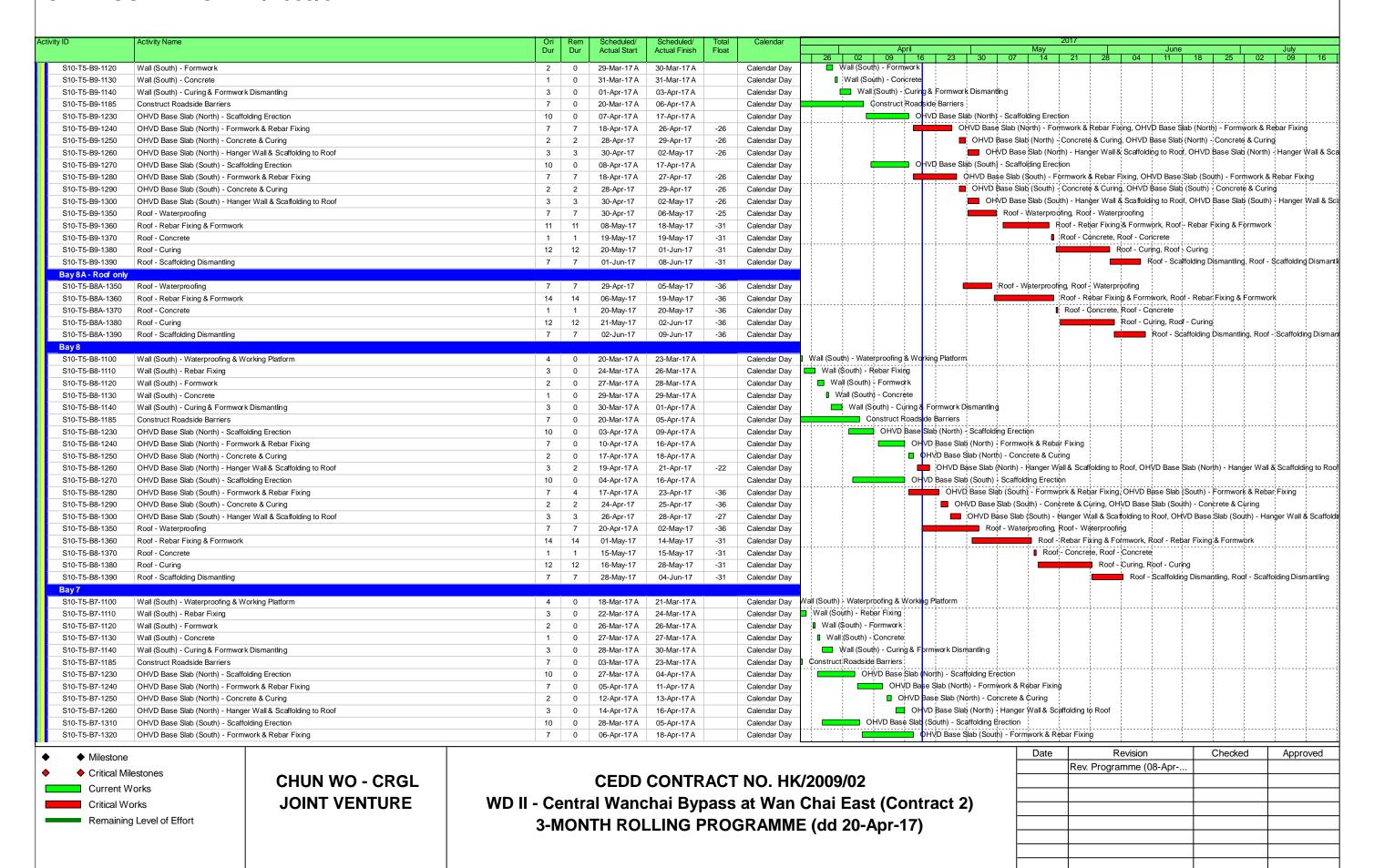
Critical Works

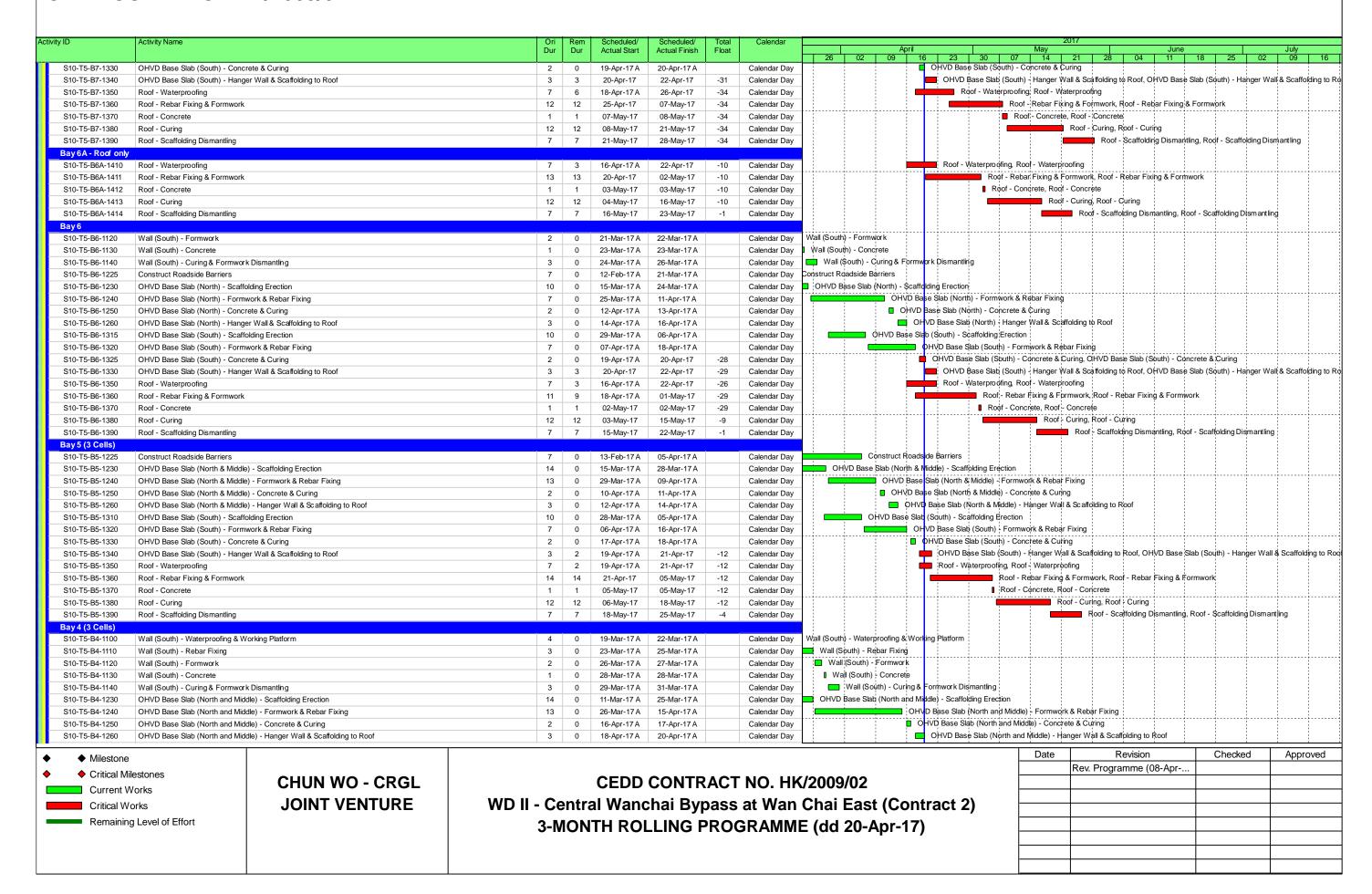
Remaining Level of Effort

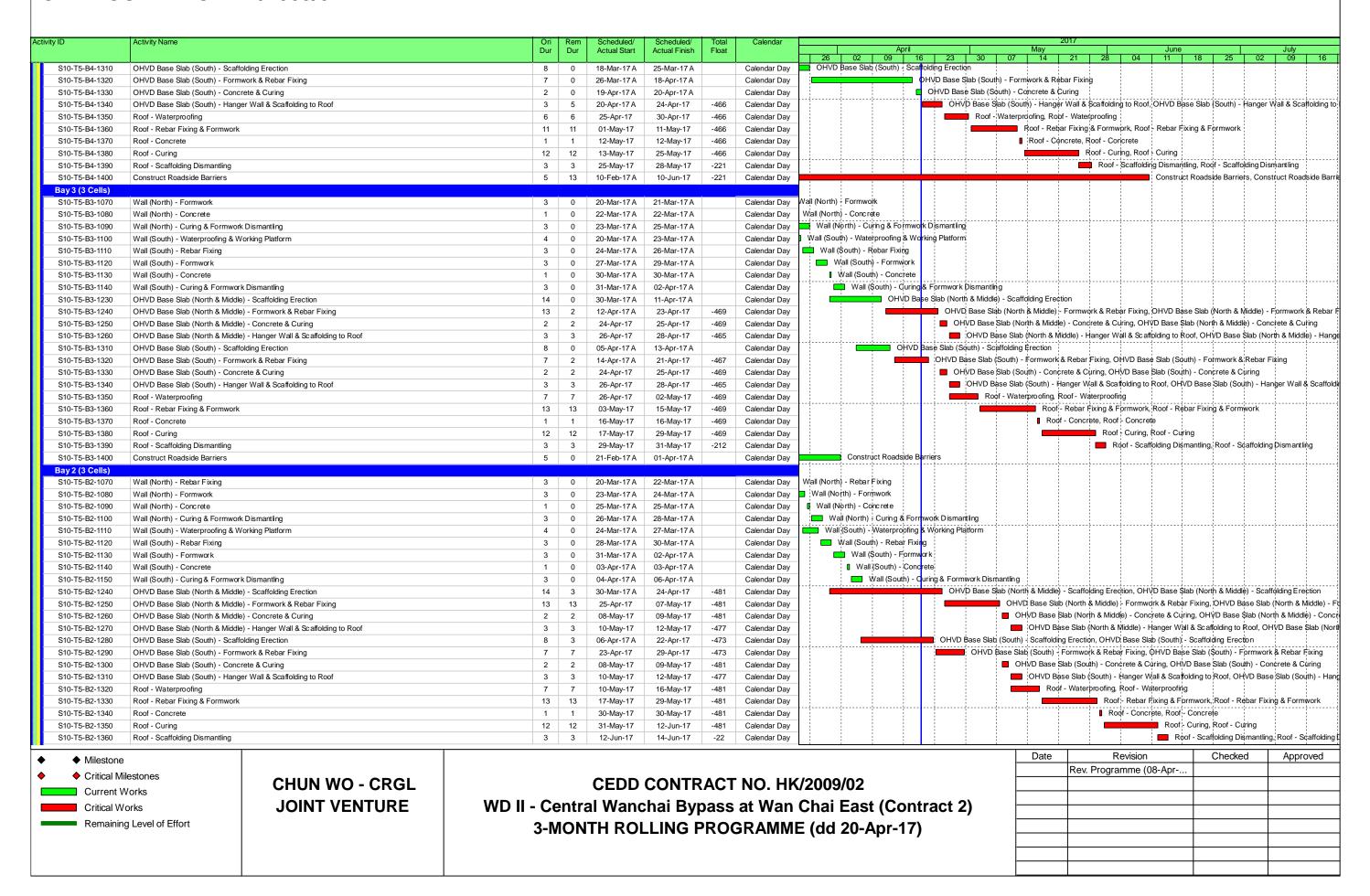
CHUN WO - CRGL JOINT VENTURE CEDD CONTRACT NO. HK/2009/02
WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)

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	Rev. Programme (08-Apr		

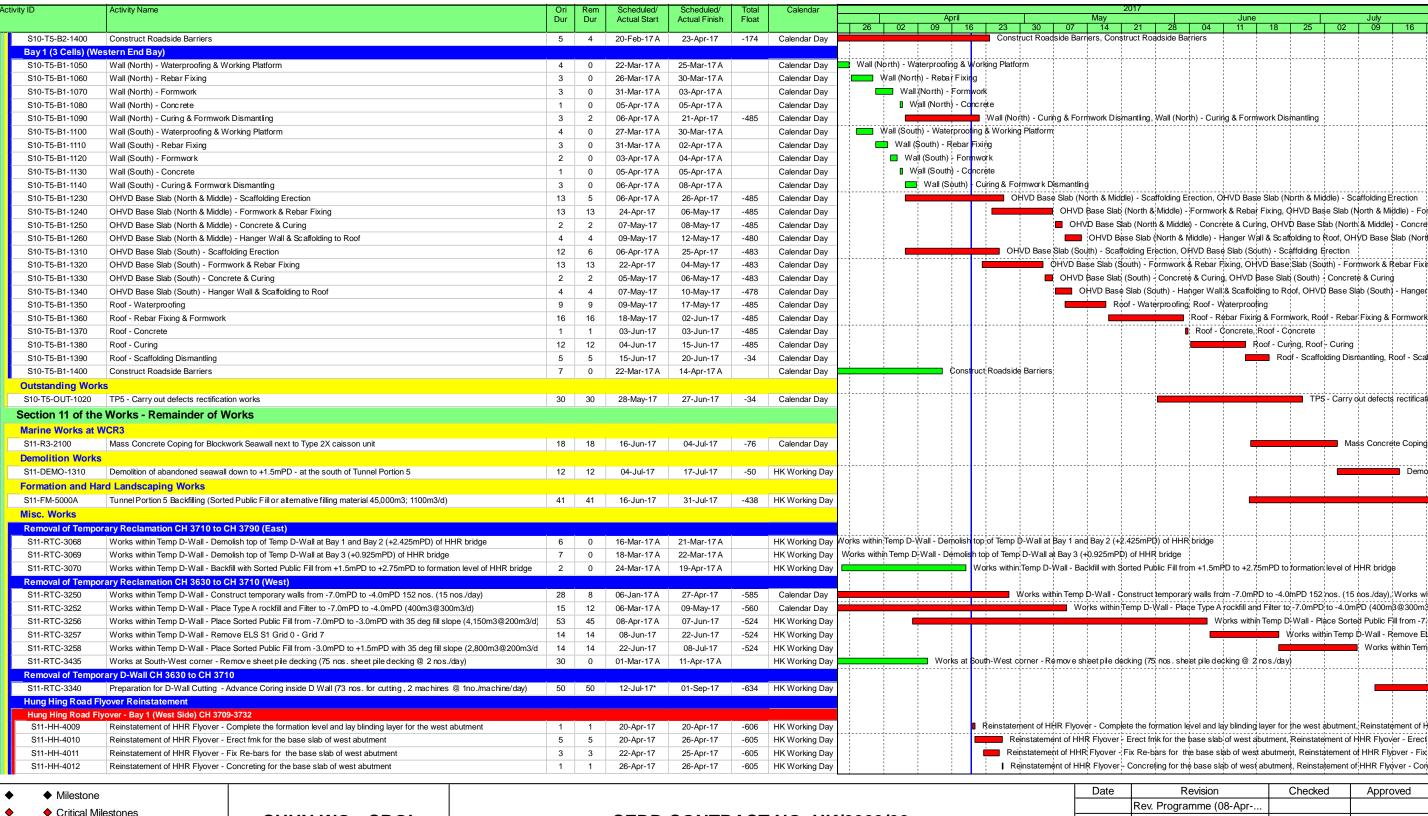
ivity ID	Activity Name		01	i Rem	Scheduled/	Scheduled/	Total	Calendar	2017 April May June July
			Du	r Dur	Actual Start	Actual Finish	Float		26 02 09 16 23 30 07 14 21 28 04 11 18 25 02 09 16
S10-T5-7110	Reinstate Temporary Access Ope			12	03-Jul-17	15-Jul-17	-52	Calendar Day	Reins
S10-T5-8000	Tunnel Portion 5 Tunnel Structure	- Cut down D-wall to +1.50mPD	10	10	16-Jul-17	26-Jul-17	-224	Calendar Day	
Bay 11	Mall (Name) Material Control	adia a Distingui	4		18-Mar-17 A	04 Mar 47 A		Onlandar Day	Mall (North) Watermosting 9 Warting Platform
S10-T5-B11-1050 S10-T5-B11-1060	Wall (North) - Waterproofing & W Wall (North) - Rebar Fixing	orking Platform	3		22-Mar-17 A	21-Mar-17 A 24-Mar-17 A		Calendar Day  Calendar Day	Wall (North) - Waterproofing & Working Platform   Wall (North) - Rebar Fixing
S10-T5-B11-1070	Wall (North) - Formwork		2	_	25-Mar-17 A	24-Mar-17 A		Calendar Day	Wall (North) - Formwork
S10-T5-B11-1080	Wall (North) - Concrete		1		27-Mar-17 A	27-Mar-17 A		Calendar Day	Wall (North) - Concrete
S10-T5-B11-1090	Wall (North) - Curing & Formwork	Dismantling	3		28-Mar-17 A	30-Mar-17 A		Calendar Day	Wall (North) - Curing & Formwork Dismanting
S10-T5-B11-1100	Wall (South) - Waterproofing & W	•	3		28-Mar-17 A	30-Mar-17 A		Calendar Day	Wall (South) - Waterproofing & Working Platform
S10-T5-B11-1110	Wall (South) - Rebar Fixing	5.1.a.ig	3		31-Mar-17 A	02-Apr-17 A		Calendar Day	Wall (South) - Rebar Fixing
S10-T5-B11-1120	Wall (South) - Formwork		2		03-Apr-17 A	04-Apr-17 A		Calendar Day	■ Wall (South) - Fornwork
S10-T5-B11-1130	Wall (South) - Concrete		1	0	05-Apr-17 A	05-Apr-17 A		Calendar Day	Wall (South) - Concréte
S10-T5-B11-1140	Wall (South) - Curing & Formwor	k Dismantling	3	0	06-Apr-17 A	08-Apr-17 A		Calendar Day	Wall (South) Curing & Formwork Dismantling
S10-T5-B11-1180	Wall (Middle) - Curing & Formwor	k Dismantling	3	0	20-Mar-17 A	22-Mar-17 A		Calendar Day	Wall (Middle) - Curing & Formwork Dismantling
S10-T5-B11-1185	Construct Roadside Barriers		5	0	21-Mar-17 A	10-Apr-17 A		Calendar Day	Construct Roadside Barriers
S10-T5-B11-1230	OHVD Base Slab (North) - Scaffd	olding Erection	10	10	20-Apr-17	29-Apr-17	-543	Calendar Day	OHVD Base Slab (North) - Scaffolding Erection, OHVD Base Slab (North) - Scaffolding Erection
S10-T5-B11-1240	OHVD Base Slab (North) - Form	vork & Rebar Fixing	7	7	25-Apr-17	02-May-17	-543	Calendar Day	OHVD Base Slab (North) - Formwork & Rebar Fixing, OHVD Base Slab (North) - Formwork & Rebar Fix
S10-T5-B11-1250	OHVD Base Slab (North) - Conci	ete & Curing	2	2	02-May-17	04-May-17	-543	Calendar Day	● OHVD Başe Slab (North) - Concrete & Curing, OHVD Başe Slab (North) - Concrete & Curing
S10-T5-B11-1260	OHVD Base Slab (North) - Hange	er Wall & Scaffolding to Roof	3	3	04-May-17	07-May-17	-541	Calendar Day	OHVD Base Slab (North) - Hanger Wall & Scaffolding to Roof, QHVD Base Slab (North) - Hanger
S10-T5-B11-1270	OHVD Base Slab (South) - Scaffo	-	10	_	20-Apr-17	29-Apr-17	-542	Calendar Day	OHVD Base Slab (South) - Scaffolding Erection, OHVD Base Slab (South) - Scaffolding Erection
S10-T5-B11-1280	OHVD Base Slab (South) - Form		7		25-Apr-17	02-May-17	-543	Calendar Day	OHVD Base Slab (South) - Formwork & Rebar Fixing, OHVD Base Slab (South) - Formwork & Rebar Fix
S10-T5-B11-1290	OHVD Base Slab (South) - Conc		2		02-May-17	04-May-17	-543	Calendar Day	OHVD Base Slab (South) - Concrete & Curing, OHVD Base Slab (South) - Concrete & Curing
S10-T5-B11-1300	OHVD Base Slab (South) - Hang	er Wall & Scaffolding to Roof	3		04-May-17	07-May-17	-541	Calendar Day	OHVD Base Slab (South): Hanger Wall & Scaffolding to Roof, OHVD Base Slab (South) - Hanger
S10-T5-B11-1350	Roof - Waterproofing		6		04-May-17	10-May-17	-543	Calendar Day	Roof - Waterproofing Roof - Waterproofing
S10-T5-B11-1360	Roof - Rebar Fixing & Formwork		14	14	09-May-17	23-May-17	-543	Calendar Day	Roof - Rebar Fixing & Formwork, Roof - Rebar Fixing & Fornwork
S10-T5-B11-1370	Roof - Concrete		1	1	23-May-17	24-May-17	-72	Calendar Day	Roof - Concrete
S10-T5-B11-1380	Roof - Curing		12		24-May-17	06-Jun-17	-72	Calendar Day	Roof - Curing, Roof - Curing  Roof - Scaffolding Dismantling, Roof - Scaffolding
S10-T5-B11-1390	Roof - Scaffolding Dismantling		5	5	06-Jun-17	11-Jun-17	-39	Calendar Day	Noor-Scanding distriction, Noor-Scanding
Bay 10 S10-T5-B10-1060	Wall (North) - Rebar Fixing		3	0	19-Mar-17 A	21-Mar-17 A		Calendar Day	Wall (North) ∮ Rebar Fixing
S10-T5-B10-1000	Wall (North) - Formwork		2		22-Mar-17 A	23-Mar-17 A		Calendar Day	Wall (North) - Formwork
S10-T5-B10-1070	Wall (North) - Concrete		1		24-Mar-17 A	24-Mar-17 A		Calendar Day	Wall (North) - Concrete
S10-T5-B10-1090	Wall (North) - Curing & Formwork	Dismantling	3		25-Mar-17 A	27-Mar-17 A		Calendar Day	Wall (North) - Curing & Formwork Dismanting
S10-T5-B10-1100	Wall (South) - Waterproofing & W		3		25-Mar-17 A	27-Mar-17 A		Calendar Day	Wall (South) - Waterproofing & Working Platform
S10-T5-B10-1110	Wall (South) - Rebar Fixing		3		28-Mar-17 A	30-Mar-17 A		Calendar Day	Wall (South) - Rebat Fixing
S10-T5-B10-1120	Wall (South) - Formwork		2		31-Mar-17 A	01-Apr-17 A		Calendar Day	Wall (South) - Formwork
S10-T5-B10-1130	Wall (South) - Concrete		1	0	02-Apr-17 A	02-Apr-17 A		Calendar Day	II Wall (South) - Concrete
S10-T5-B10-1140	Wall (South) - Curing & Formwork	k Dismantling	3	0	03-Apr-17 A	05-Apr-17 A		Calendar Day	Wall (South) - Curing.& Formwork Dismanting
S10-T5-B10-1185	Construct Roadside Barriers	-	6	0	20-Mar-17 A	06-Apr-17 A		Calendar Day	Construct Roadside Barriers
S10-T5-B10-1230	OHVD Base Slab (North) - Scaffo	olding Erection	10	0	08-Apr-17 A	17-Apr-17 A		Calendar Day	OHVD Base Slab (North) - Scaffolding Erection
S10-T5-B10-1240	OHVD Base Slab (North) - Form	vork & Rebar Fixing	7	7	17-Apr-17 A	26-Apr-17	-73	Calendar Day	Of IVD Base Slab (North) - Formwork & Rebar Fixing, OHVD Base Slab (North) - Formwork & Rebar Fixing
S10-T5-B10-1250	OHVD Base Slab (North) - Conci	ete & Curing	2	2	03-May-17	04-May-17	-72	Calendar Day	■ OHVD Base Slab (North) - Concrete & Curing, OHVD Base Slab (North) - Concrete & Curing
S10-T5-B10-1260	OHVD Base Slab (North) - Hange	er Wall & Scaffolding to Roof	3	3	05-May-17	07-May-17	-70	Calendar Day	OHVD Base Slab (North) - Hanger Wall & Scaffolding to Roof, OHVD Base Slab (North) - Hanger
S10-T5-B10-1270	OHVD Base Slab (South) - Scaffe	olding Erection	10	0	10-Apr-17 A	19-Apr-17 A		Calendar Day	OHVD Base Slab (South) - Scaffolding Erection
S10-T5-B10-1280	OHVD Base Slab (South) - Form	work & Rebar Fixing	7	8	20-Apr-17 A	02-May-17	-73	Calendar Day	OHVD Base Slab (South) - Formwork & Rebar Fixing, OHVD Base Slab (South) - Formwork & Rebar Fix
S10-T5-B10-1290	OHVD Base Slab (South) - Conc	rete & Curing	2	2	03-May-17	04-May-17	-73	Calendar Day	→ OHVD Başe Slab (Şouth) - Concrete & Curing, OHVD Başe Slab (Şouth) - Concrete & Curing
S10-T5-B10-1300	OHVD Base Slab (South) - Hange	er Wall & Scaffolding to Roof	3	3	05-May-17	07-May-17	-70	Calendar Day	OHVD Base Slab (South) - Hanger Wall & Staffolding to Roof, QHVD Base Slab (South) - Hanger
S10-T5-B10-1350	Roof - Waterproofing		7		05-May-17	12-May-17	-73	Calendar Day	Roof - Waterproofing, Roof - Waterproofing
S10-T5-B10-1360	Roof - Rebar Fixing & Formwork		14	14	10-May-17	24-May-17	-73	Calendar Day	Roof - Rebar Fixing & Formwork, Roof - Rebar Fixing & Formwork
S10-T5-B10-1370	Roof - Concrete		1		24-May-17	25-May-17	-73	Calendar Day	Roof - Concrete, Rdof - Concrete
S10-T5-B10-1380	Roof - Curing		12		25-May-17	07-Jun-17	-73	Calendar Day	Roof - Curing, Roof - Curing
S10-T5-B10-1390	Roof - Scaffolding Dismantling		7	7	07-Jun-17	14-Jun-17	-41	Calendar Day	Roof - Scaffolding Dismantling, Roof - Scaffold
Bay 9									
S10-T5-B9-1090	Wall (North) - Curing & Formwork	•	3	_	21-Mar-17 A	23-Mar-17 A	1	Calendar Day	Wall (North) - Curing & Formwork Dismanting
S10-T5-B9-1100	Wall (South) - Waterproofing & W	orking Platform	4		22-Mar-17 A	_		Calendar Day	Wall (South) - Waterproofing & Working Platform
S10-T5-B9-1110	Wall (South) - Rebar Fixing		3	0	26-Mar-17 A	28-Mar-17 A		Calendar Day	Wall (South) - Rebar Fixing
◆ Milestone									Date Revision Checked Approved
									Rev. Programme (08-Apr
Critical Mi	iestones	CHUN WO - CRGL			CEDD	CONTE	2ΔCT	NO HE	(/2009/02
Current V	/orks	OHOIN WO - CINGL			CLDD		\ <del>\</del> \\	140. Hr	J LUUJI UL
Critical W	orks	JOINT VENTURE	WD II - C	enti	al Wand	chai Bvi	pass	at Wan	Chai East (Contract 2)
							•		` '
— Kemainin	g Level of Effort		3-	10M	NTH RO	LLING F	PRO(	GRAMM	E (dd 20-Apr-17)
		· ·							







### CEDD CONTRACT HK/2009/02



◆ ◆ Critical Milestones

Current Works

Critical Works

Remaining Level of Effort

CHUN WO - CRGL JOINT VENTURE CEDD CONTRACT NO. HK/2009/02
WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)

Daic	TCVISIOTT	Official	Approved
	Rev. Programme (08-Apr		

## CEDD CONTRACT HK/2009/02

	Activity Name	On	Rem	Scheduled/	Scheduled/	Total	Calendar			April	2017
		Dur	Dur	Actual Start	Actual Finish	Float	<u> </u>	26	02 09	April 9   16	May June July 23 30 07 14 21 28 04 11 18 25 02 09
S11-HH-4016	Reinstatement of HHR Flyover - Erect falsework and formwork for the walls of west abutment	4	4	26-Apr-17	02-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Erect falsework and formwork for the walls of west abutment, Reins
S11-HH-4017	Reinstatement of HHR Flyover - Fix Re-bars for the walls of west abutment	3	3	27-Apr-17	02-May-17	-587	HK Working Day				Reinstatement of HHR Flyover - Fix Re-bars for the walls of west abutment, Reinstatement of HHR
S11-HH-4018	Reinstatement of HHR Flyover - Concreting for the walls of west abutment	1	1	02-May-17	04-May-17	-587	HK Working Day	-			Reinstatement of HHR Flyover - Concreting for the walls of west abutment, Reinstatement of HHI
S11-HH-4019	Reinstatement of HHR Flyover - Formwork stripping for the walls of west abutment	1	1	04-May-17	04-May-17	-587	HK Working Day				Reinstatement of HHR Flyover - Formwork stripping for the walls of west abutment, Reinstatement
	yover - Bay 2 (Middle) CH 3732-3747	·		o i may ii	or may ii	001	The Working Bay				
S11-HH-5039	Reinstatement of HHR Flyover - Lay blinding layer for the bay 2 of HHR	1	1	20-Apr-17	20-Apr-17	-606	HK Working Day				Reinstatement of HHR Flyover - Lay blinding layer for the bay 2 of HHR, Reinstatement of HHR Flyover - Lay blinding
S11-HH-5048	Reinstatement of HHR Flyover - Erect fmk for the base slab of bay 2 of HHR	5	5	29-Apr-17	06-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Erect fmk for the base slab of bay 2 of HHR, Reinstatement of
S11-HH-5049		3	3	04-May-17	-	-605					Reinstatement of HHR Flyover - Fix Re-bars for the base slab of bay 2 of HHR, Reinstatemen
	Reinstatement of HHR Flyover - Fix Re-bars for the base slab of bay 2 of HHR	-	4		06-May-17		HK Working Day				Reinstatement of HHR Flyover - Concreting for the base slab of bay 2 of HHR, Reinstatement
S11-HH-5050	Reinstatement of HHR Flyover - Concreting for the base slab of bay 2 of HHR	1	1	06-May-17	08-May-17	-605	HK Working Day				
S11-HH-5071	Reinstatement of HHR Flyover - Erect falsework and formwork for bay 2 of HHR	4	4	08-May-17	11-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Erect falsework and formwork for bay 2 of HHR, Reinst
S11-HH-5072	Reinstatement of HHR Flyover - Fix Re-bars for the walls of bay 2 of HHR	3	3	09-May-17	11-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Fix Re-bars for the walls of bay 2 of HHR, Reinstatement
S11-HH-5073	Reinstatement of HHR Flyover - Concreting for the walls of bay 2 of HHR	1	1	11-May-17	12-May-17	-605	HK Working Day	- <del> </del> <del>-  </del>			Reinstatement of HHR Flyover - Concreting for the walls of bay 2 of HHR, Reinstatement
S11-HH-5075	Reinstatement of HHR Flyover - Formwork stripping for the walls of bay 2 of HHR	2	2	13-May-17	16-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Formwork stripping for the walls of bay 2 of HHR
S11-HH-5077	Reinstatement of HHR Flyover - Filling inside structure and install sub-soil drain	5	5	16-May-17	20-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Filling inside structure and install sub-soil d
S11-HH-5080	Reinstatement of HHR Flyover - Lay blinding layer for the transition slab	1	1	20-May-17	20-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Lay blinding layer for the transition slab, Re
S11-HH-5085	Reinstatement of HHR Flyover - Erect formwork for the transition slab	2	2	20-May-17	23-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Erect formwork for the transition slab,
S11-HH-5086	Reinstatement of HHR Flyover - Fix Re-bars for the transition slab	2	2	22-May-17	24-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Fix Re-bars for the transition slab, Re
S11-HH-5087	Reinstatement of HHR Flyover - Concreting for the transition slab	1	1	24-May-17	25-May-17	-605	HK Working Day				Reinstatement of HHR Flyover - Concreting for the transition slab, Re
Hung Hing Road Fly	yover - Bay 3 (East Side) CH 3747-3770										
S11-HH-5140	Reinstatement of HHR Flyover - Lay blinding layer for the east abutment	1	1	20-Apr-17	20-Apr-17	-606	HK Working Day			•	Reinstatement of HHR Flyover - Lay blinding layer for the east abutment, Reinstatement of HHR Flyover - Lay blinding
S11-HH-5159	Reinstatement of HHR Flyover - Erect fmk for the base slab of east abutment	7	7	20-Apr-17	28-Apr-17	-606	HK Working Day				Reinstatement of HHR Flyover - Erect fmk for the base slab of east abutment, Reinstatement of HHR Flyo
S11-HH-5160	Reinstatement of HHR Flyover - Fix Re-bars for the base slab of east abutment	5	5	22-Apr-17	28-Apr-17	-606	HK Working Day				Reinstatement of HHR Flyover - Fix Re-bars for the base slab of east abutment, Reinstatement of HHR F
S11-HH-5161	Reinstatement of HHR Flyover - Concreting for the base slab of east abutment	1	1	28-Apr-17	28-Apr-17	-606	HK Working Day				Reinstatement of HHR Flyover - Concreting for the base slab of east abutment, Reinstatement of HHR Flyover
S11-HH-5172	Reinstatement of HHR Flyover - Erect falsework and formwork for the walls of east abutment	8	8	28-Apr-17	09-May-17	-606	HK Working Day				Reinstatement of HHR Flyover - Erect falsework and formwork for the walls of east abutme
S11-HH-5173	Reinstatement of HHR Flyover - Fix Re-bars for the walls of east abutment	6	6	02-May-17	09-May-17	-606	HK Working Day				Reinstatement of HHR Flyover - Fix Re-bars for the walls of east abutment, Reinstatement
S11-HH-5174	Reinstatement of HHR Flyover - Concreting for the walls of east abutment	1	1	09-May-17	10-May-17	-606	HK Working Day				Reinstatement of HHR Flyover; Concreting for the walls of east abutment, Reinstatemen
S11-HH-5176	Reinstatement of HHR Flyover - Formwork stripping for the walls of east abutment	2	2	10-May-17	12-May-17	-606	HK Working Day				Reinstatement of HHR Flyover - Formwork stripping for the walls of east abutment, Re
				10-iviay-17	12-iviay-17	-000	TIK WORKING Day				Action statement of the triplet of the wais of east about one, ite
S11-HH-4027	yover - Deck Construction Reinstatement of HHR Flyover - Erect falsework and fmk for the bridge decking	10	10	12-May-17	23-May-17	-606	HK Working Day				Reinstatement of HHR Flyover - Erect falsework and fmk for the bridge
		8	10	· ·							Reinstatement of HHR Flyover - Fix Re-bars for the bridge decking,
S11-HH-4032	Reinstatement of HHR Flyover - Fix Re-bars for the bridge decking	0	0	17-May-17	25-May-17	-606	HK Working Day				
S11-HH-4037	Reinstatement of HHR Flyover - Concreting for the bridge decking	1	1	25-May-17	26-May-17	-606	HK Working Day				Reinstatement of HHR Flyover - Concreting for the bridge decking,
S11-HH-4038	Reinstatement of HHR Flyover - Curing for the bridge decking	3	3	26-May-17	29-May-17	-672	Calendar Day	.			Reinstatement of HHR Flyover - Curing for the bridge decking, i
S11-HH-4047	Reinstatement of HHR Flyover - Dismantle falsework and fmk for the bridge decking	3	3	26-May-17	29-May-17	-606	HK Working Day				Reinstatement of HHR Flyover - Dismantle falsework and fmk for
	yover - Traffic Diversion and Road Furniture										
S11-HH-4052	Reinstatement of HHR Flyover - Cover up all utilities	4	4	29-May-17	02-Jun-17	-672	Calendar Day				Reinstatement of HHR Flyover - Cover up all utilities, Rein
S11-HH-4055	Reinstatement of HHR Flyover - Lay drainage works and corss road ducts for the bridge	4	4	05-May-17	08-May-17	-653	Calendar Day				Reinstatement of HHR Flyover - Lay drainage works and corss road ducts for the bridge, Re
S11-HH-4056	Reinstatement of HHR Flyover - Place sub-base for the bridge	3	3	08-May-17	10-May-17	-653	Calendar Day	. j j			Reinstatement of HHR Flyover - Place sub-base for the bridge, Reinstatement of HHR Fl
S11-HH-4057	Reinstatement of HHR Flyover - Lay asphalt and road markings	3	3	09-May-17	11-May-17	-653	Calendar Day				Reinstatement of HHR Flyover - Lay as phalt and road markings, Reinstatement of HHR
S11-HH-4059	Reinstatement of HHR Flyover - Install Road Furnitures for the bridge	4	4	27-May-17	30-May-17	-671	Calendar Day				Reinstatement of HHR; Flyover - Install Road Furnitures for the
S11-HH-4063	Reinstatement of HHR Flyover - Final Inspection of bridge and carry out traffic diversion	2	2	31-May-17	02-Jun-17	-672	Calendar Day				Reinstatement of HHR Flyover - Final Inspection of bridge
S11-HH-4064	Reinstatement of HHR Flyover - Traffic Diversion to reinstated bridge	0	0	02-Jun-17		-672	Calendar Day				♦ Reinstatement of HHR Flyover - Traffic Diversion to reinst
S11-HH-4066	Reinstatement of HHR Flyover - Reinstate a drainage pipe along Temp Steel Bridges	25	25	05-Jun-17	03-Jul-17	-253	HK Working Day				Reinstatement
S11-HH-4068	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1	43	43	05-Jun-17	21-Jul-17		HK Working Day				
S11-HH-4070	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2	32	32	08-Jul-17	10-Aug-17		HK Working Day				
S11-HH-4072	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3		31	05-Jun-17	08-Jul-17		HK Working Day		İ		Reinstate
Reinstatement of B		01	01	oo oun-17	00 Jul-17	200	Working Day				TO MOIOLA
	struction (Tunnel Section) - Bay 15A and Bay 16A										
	Box Culvert O Reinstatement - Construct 2m thk G200 rockfill bedding and blinding	6	n	01-Mar-17 A	06-Mar-17 ^		HK Working Day ate	ement - Const	ruct 2m thk	G200 rockf	fill bedding and blinding
	struction (South Portion) - Bay 12 to Bay 14	U	U	OT-IVIGIT IT A	OU-War-17 A		The Working Day att	Janoin Ooilst			4000m.g dipt own cell g
	Box Culvert O Reinstatement - Fabricate Precast Units about 60 nos. (Construction Details liaising with AECOM)	QΛ	QΩ	03-Aug-17	01-Nov-17	-260	Calendar Day				
	,	90	90	03-Aug-17	01-1400-17	-209	Galeffudi Day				
an Shing Street S		40	-	40 M 47 1	04.4 47	604	LUK Westi - 5				TTA Cab and 4 Way China Charles Fadorahanah hi TD TTA China at Way China Charles
	TTA Scheme at Wan Shing Street - Endorsement by ER	12	5	16-Mar-17 A	24-Apr-17		HK Working Day		<u>-</u> <u>-</u> -		TTA Scheme at Wan Shing Street - Endorsement by ER, TTA Scheme at Wan Shing Street - Endorsement by ER,
S11-SW-1032	TTA Preparation Works - Removal of Hoarding and paving temporary road at Hung Hing Street with road marking and sig	20	12	12-Apr-17 A	04-May-17		HK Working Day		-		TTA Preparation Works - Removal of Hoarding and paving temporary road at Hung Hing Street w
S11-SW-1040	Apply TTA for open trench excavation at Wan Shiing Street	1	1	04-May-17	04-May-17	-233	HK Working Day				Apply TTA for open trench excavation at Wan Shiing Street, Apply TTA for open trench excavation
S11-SW-1060	Implement TTA Stage 1	2	2	04-May-17	05-May-17	-233	HK Working Day				Implement TTA Stage 1, Implement TTA Stage 1
	UU detection and excavate trial pit TH-HHR-04 at Wan Shiing Street	4	4	12-May-17	17-May-17	-239	HK Working Day	1		1	UU detection and excavate trial pit TH-HHR-04 at Wan Shiing Street, UU detect
S11-SW-1062	or detection and executate that pit 111 in the flat train or at train or any	_	·	ay			y Day	1 1	1	1	ob detection and excellent that of all than of mining energy of detection

◆ ◆ Critical Milestones

Current Works

Critical Works

Remaining Level of Effort

CHUN WO - CRGL JOINT VENTURE CEDD CONTRACT NO. HK/2009/02 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)

VD II - Central Wanchal Bypass at Wan Chal East (Contract 2)

3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)

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	Rev. Programme (08-Apr		
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## CEDD CONTRACT HK/2009/02

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Activity ID	Activity Name	Ori	Rem	Scheduled/	Scheduled/	Total	Calendar	2017																		
		Dur	Dur	Actual Start	Actual Finish	Float			April				Ma	y					June				July			
								26	02	09	16	23	30	07	1	4	21	28	0	4 ′	11	18	25	02	09	16
S11-SW-1064	Liaison with UU companies	7	7	17-May-17	24-May-17	-239	HK Working Day		1								Li	iaison v	rith UU c	ompanie	es, Liais	son with	UU comp	anies		
S11-SW-1066	Backfill the trench (300mm/layer) and reinstate the pavement at Wan Shiing Street	21	21	24-May-17	15-Jun-17	-239	HK Working Day		-				1								<b>—</b> Ва	ckfill the	trench (3	00mm/lay	er) and reir	state the
S11-SW-1080	Implement TTA Stage 2	1	1	17-Jun-17	17-Jun-17	-239	HK Working Day								-							Implem	ent TTA S	tage 2, Im	plement 📆	A Stage
S11-SW-1081	UU detection and excavate trial pit TH-HHR-04 at Wan Shiing Street	4	4	17-Jun-17	22-Jun-17	-239	HK Working Day	į							į						<u></u>		U detecti	on and ex	cavate tria	pit TH-I
S11-SW-1082	Liaison with UU companies	7	7	22-Jun-17	29-Jun-17	-239	HK Working Day																با 📥	iaison wit	n UU comp	anies, L
S11-SW-1083	Trench ex cavation and shoring instalation at Wan Shiing Street	12	12	29-Jun-17	14-Jul-17	-239	HK Working Day																		<b>—</b>	rench ex
S11-SW-1084	Divert existing DN500 from MH 17 to MH 19 and removal of D300 pvc pipe at Wan Shiing Street	6	6	14-Jul-17	20-Jul-17	-239	HK Working Day		-																<b>=</b>	<b>—</b> D
Soft Landscapi	ing & Establishment Works								1	-	}				:			-								1
Section 12 of the	e Works - Protection and Preservation of Existing Trees										-										-					1
S12-0010	Protection and preservation of existing trees	2111	476	24-Feb-10 A	08-Aug-18	-443	Calendar Day	-			_										<u> </u>				<u> </u>	

♦ Milestone
 ♦ Critical Milestones
 Current Works
 Critical Works
 Remaining Level of Effort

CHUN WO - CRGL JOINT VENTURE CEDD CONTRACT NO. HK/2009/02
WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (dd 20-Apr-17)

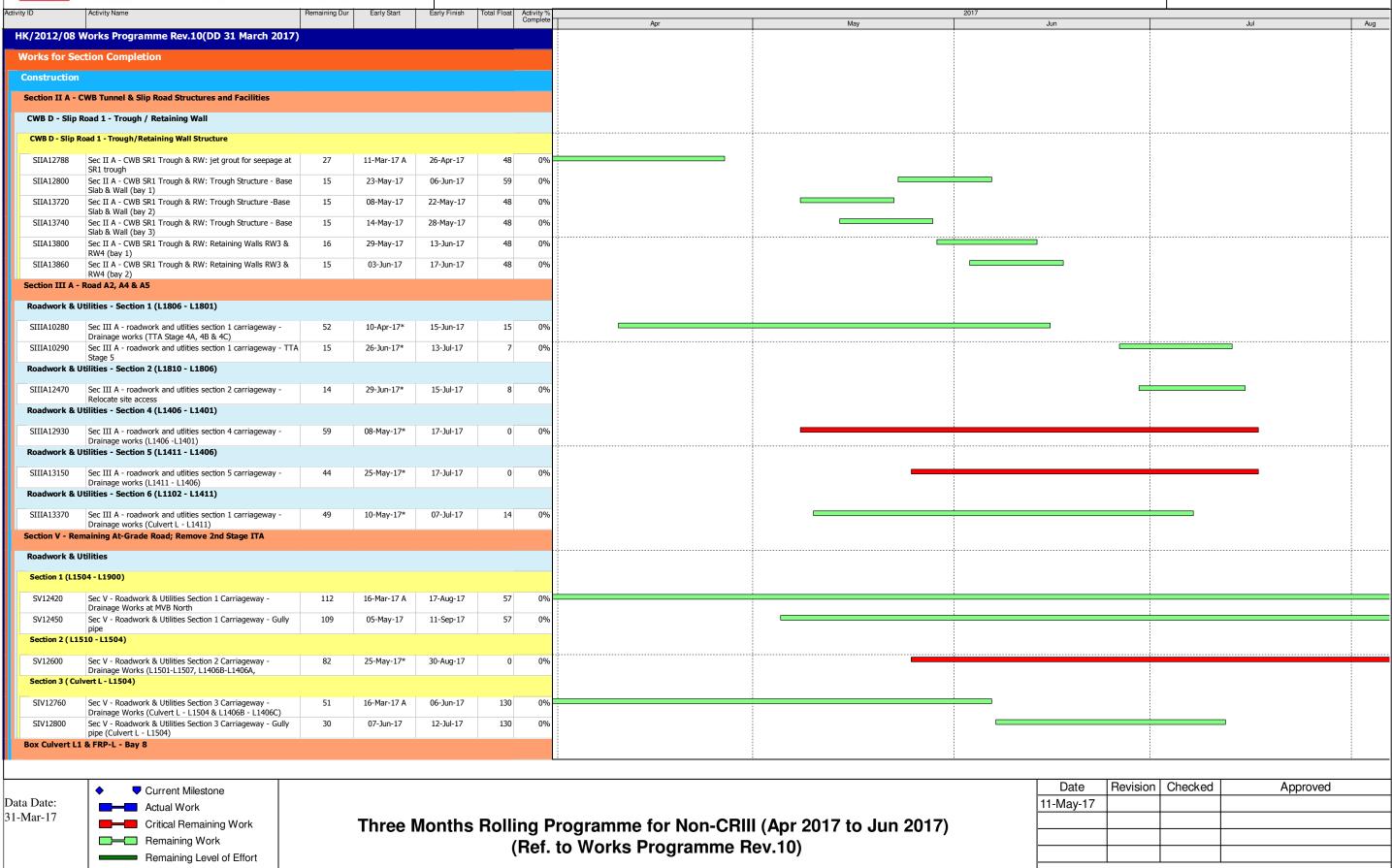
Date	Revision	Checked	Approved
	Rev. Programme (08-Apr		



## 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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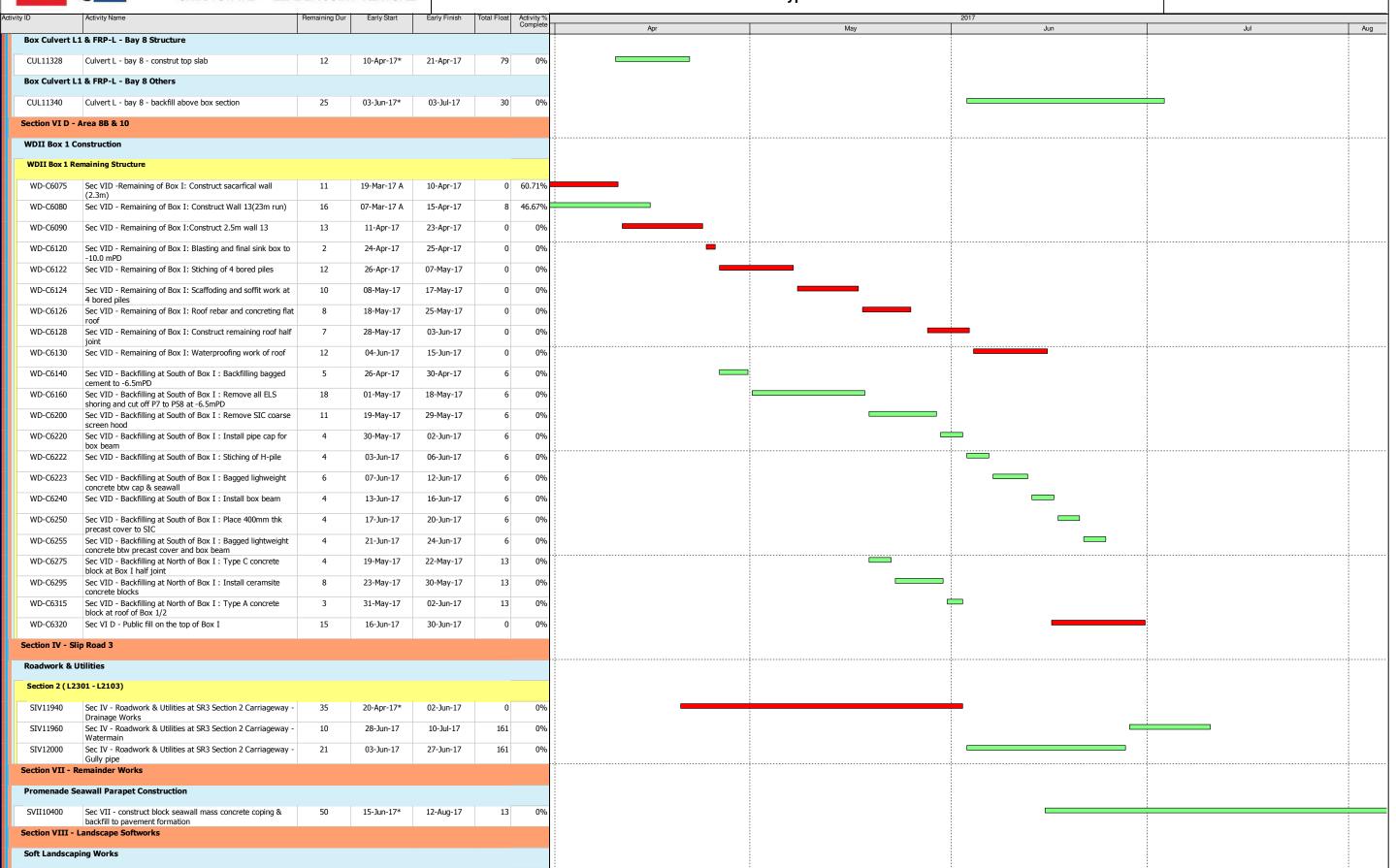




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#### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

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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

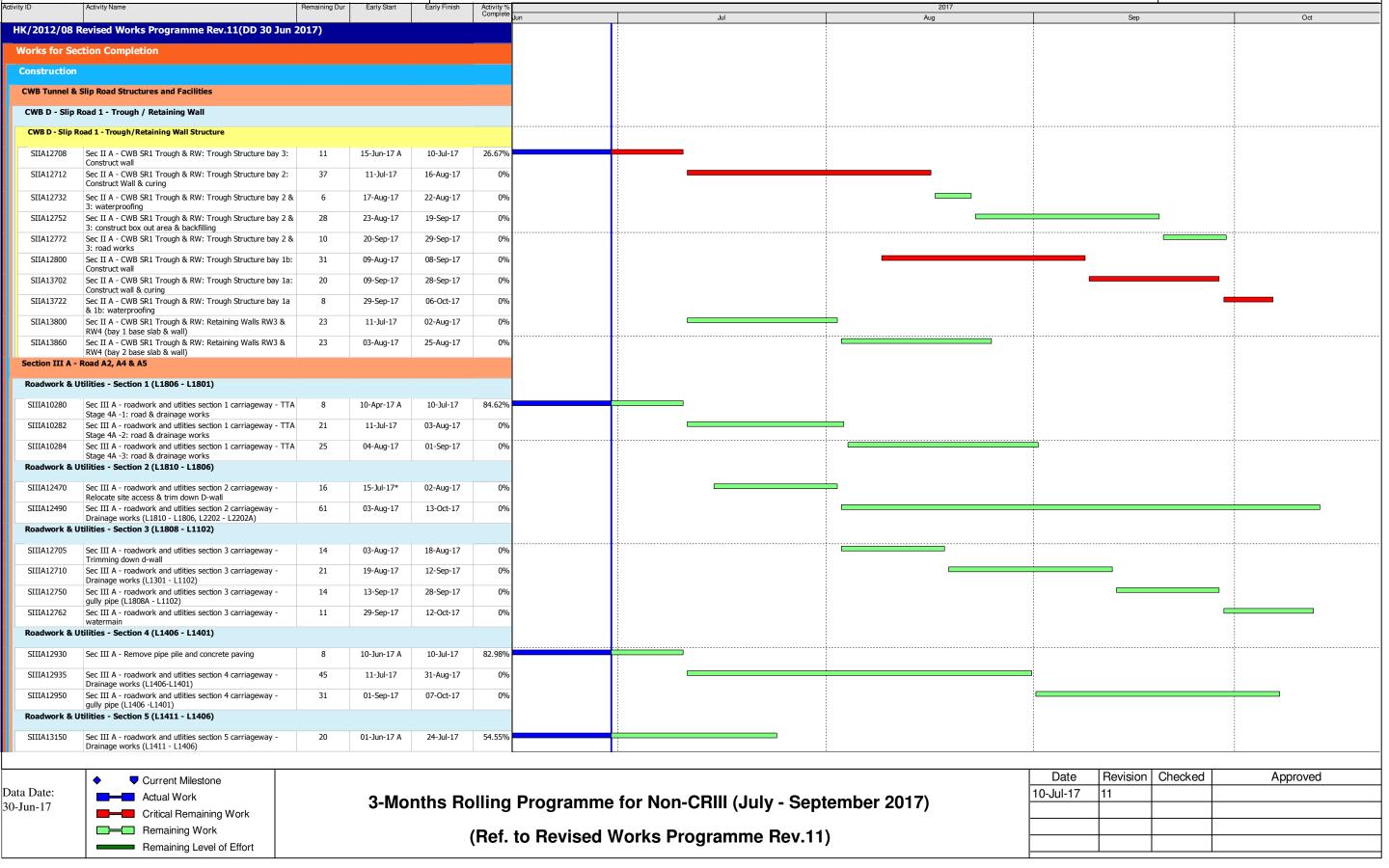
Page : 3 / 3

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	Activity %			2017	<b>'</b>	
						Complete	Apr	May	Jun	Jul	Aug
SVIII10040	Sec VIII - Trees Planting	118	31-Mar-17	24-Aug-17	0	0%					
Section X - Pro	otection & Preservation of Trees										
Soft Landscap	oing Works										
SX10020	Sec X - Protection & Preservation of Trees	234	31-Jan-13 A	19-Nov-17	0	85.66%					



### ★ 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 Page : 1/3

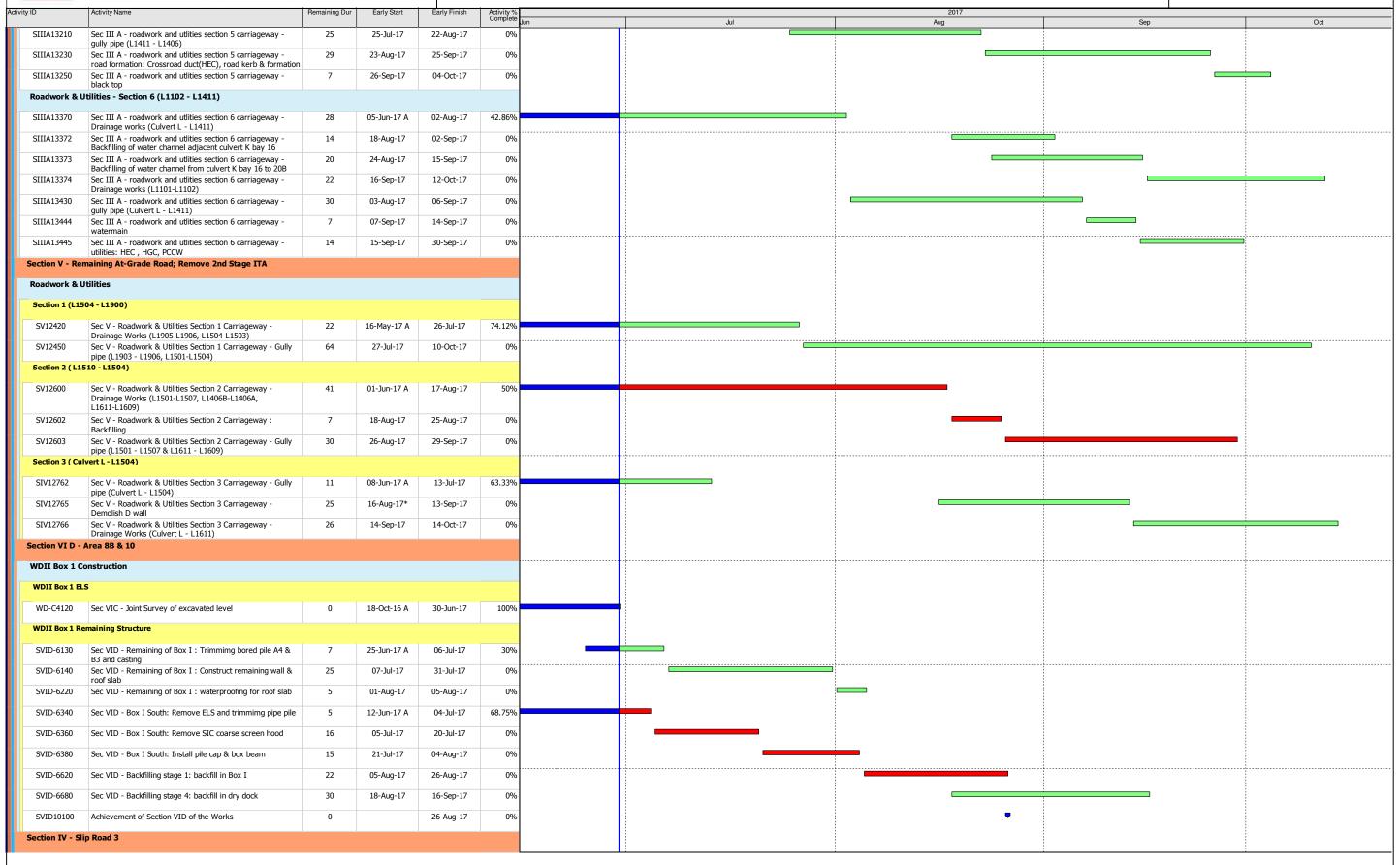




## 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

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

Page: 2/3

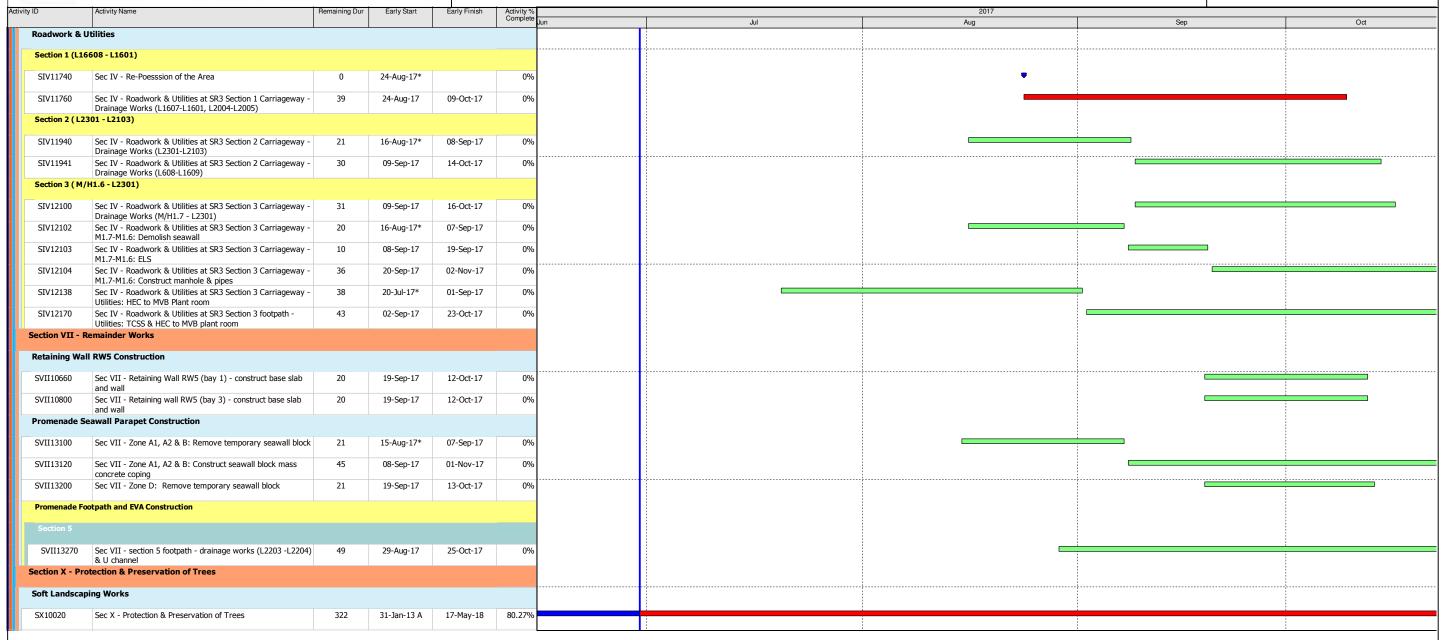


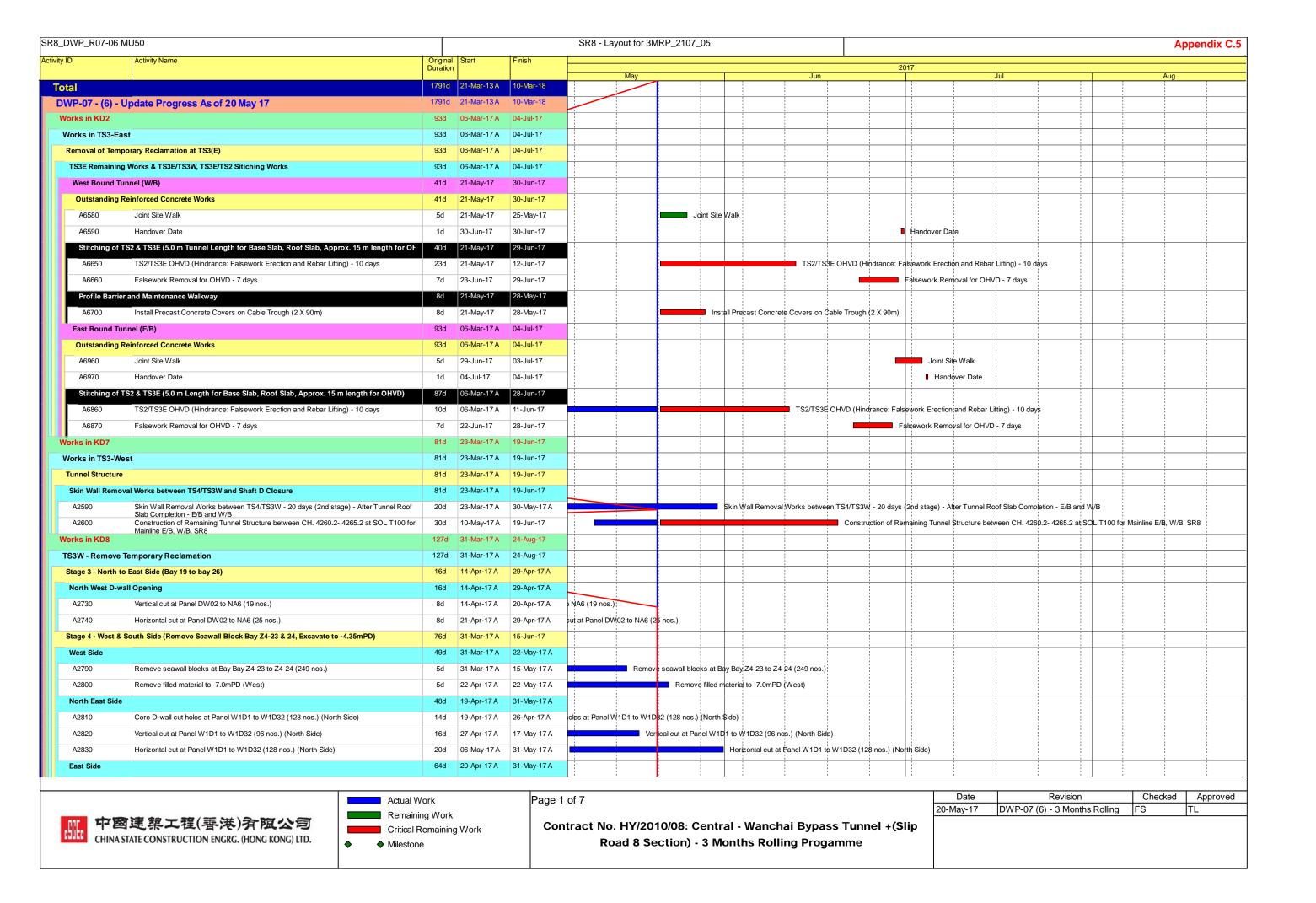


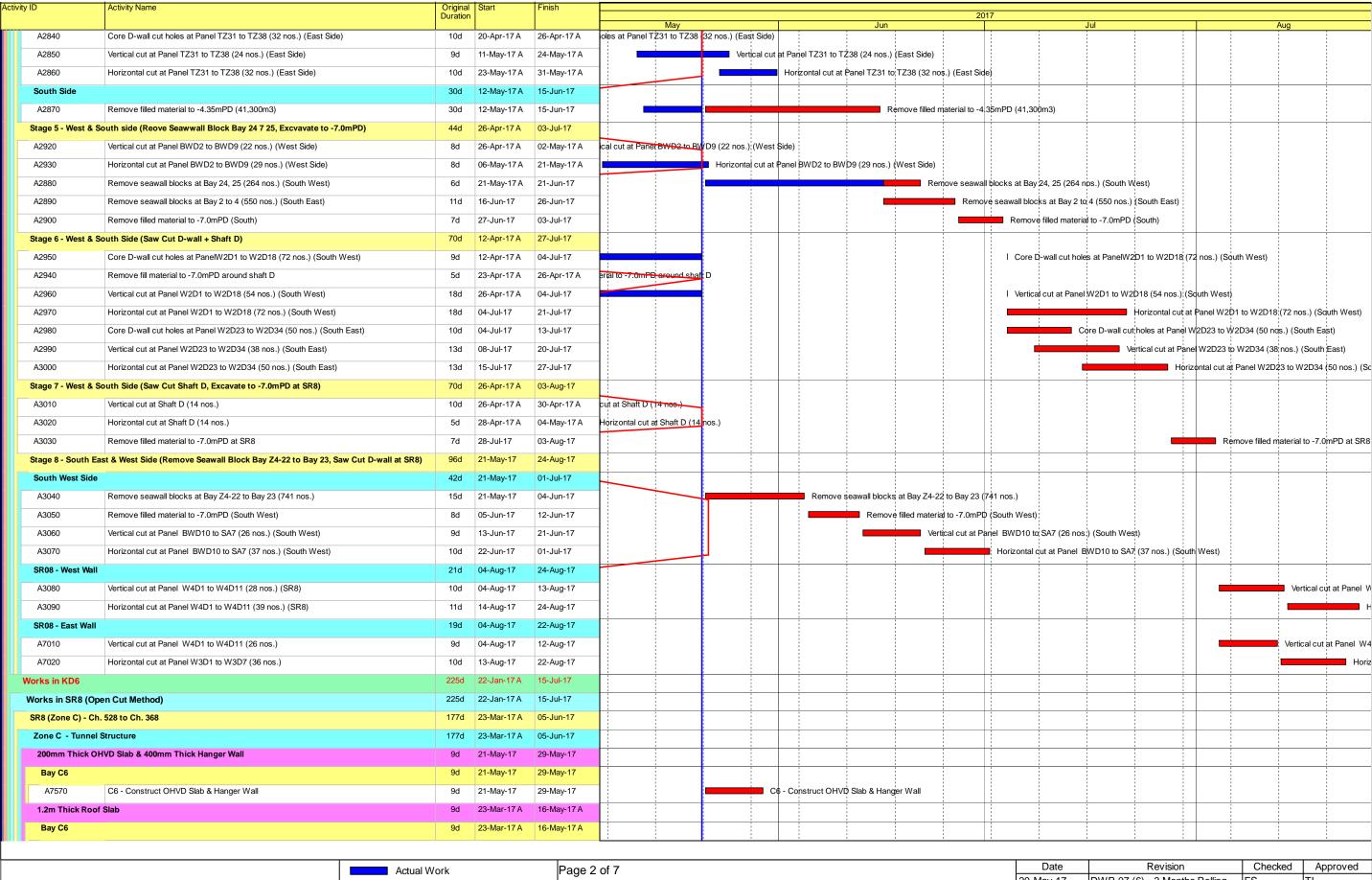
## H LEADER 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

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

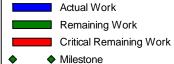
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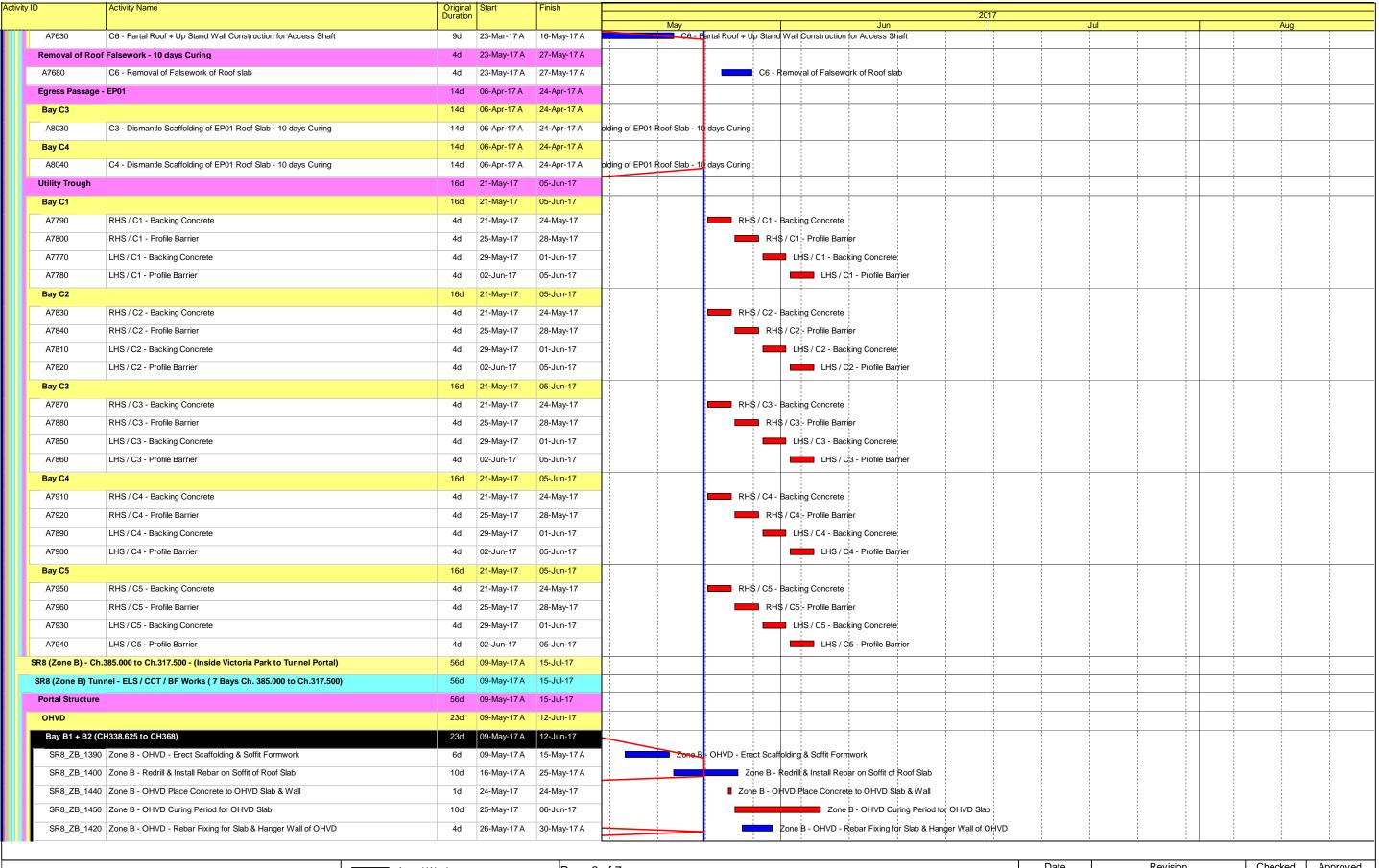




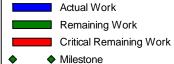




Date	Revision	Checked	Approved
20-May-17	DWP-07 (6) - 3 Months Rolling	FS	TL
	•	-	-

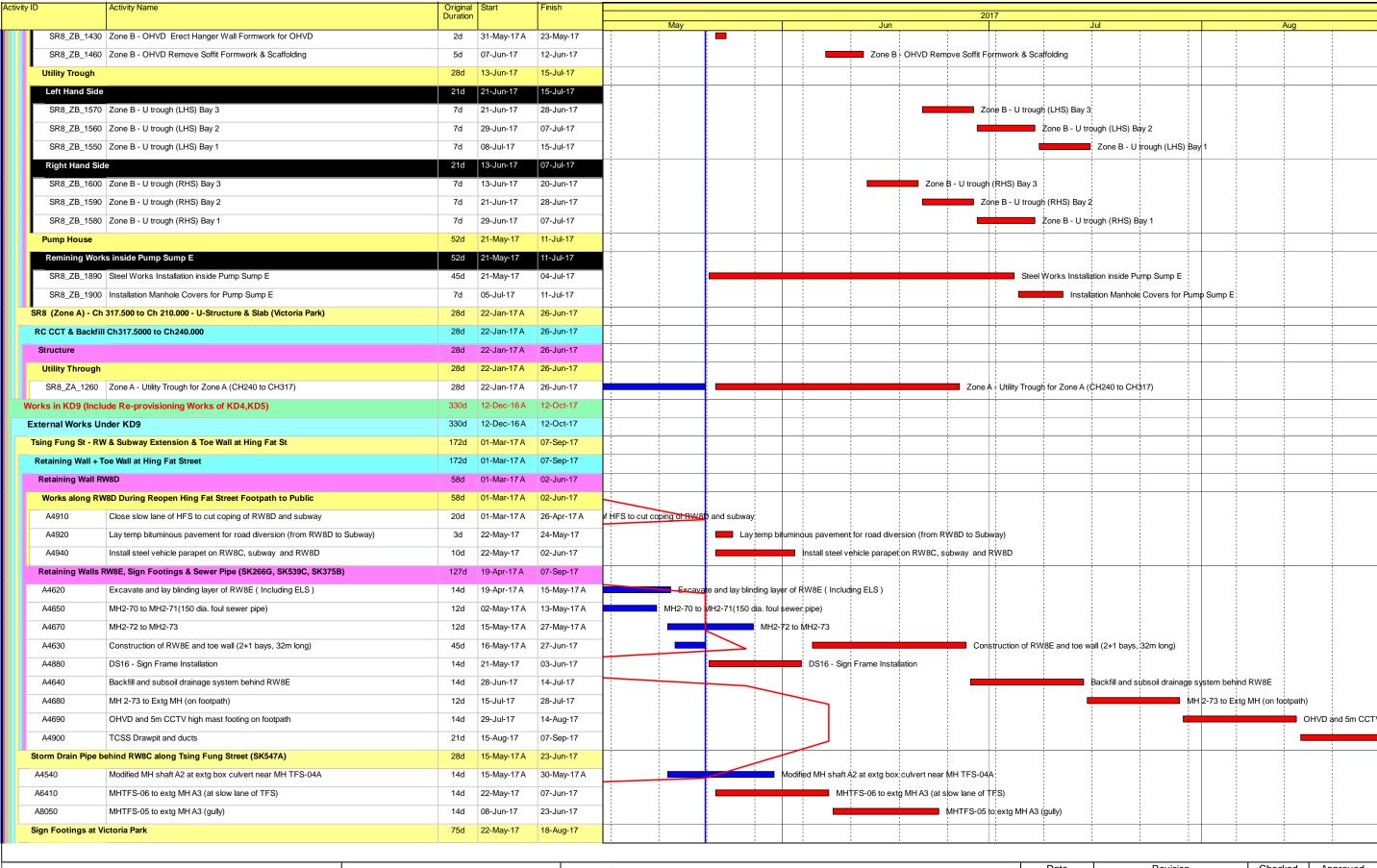




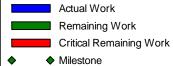


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Date	Revision	Checked	Approved
20-May-17	DWP-07 (6) - 3 Months Rolling	FS	TL

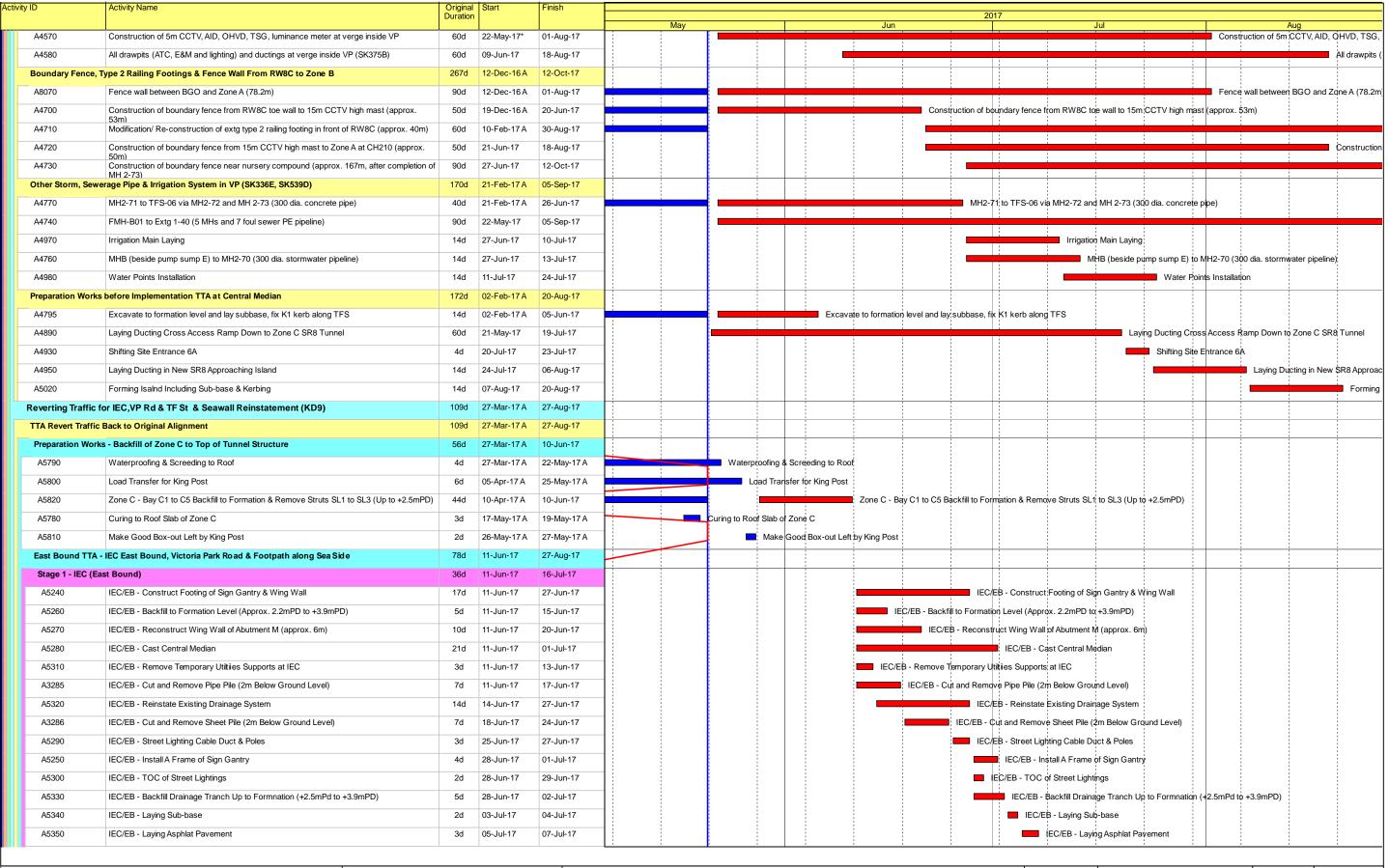






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Date	Revision	Checked	Approved
20-May-17	DWP-07 (6) - 3 Months Rolling	FS	TL
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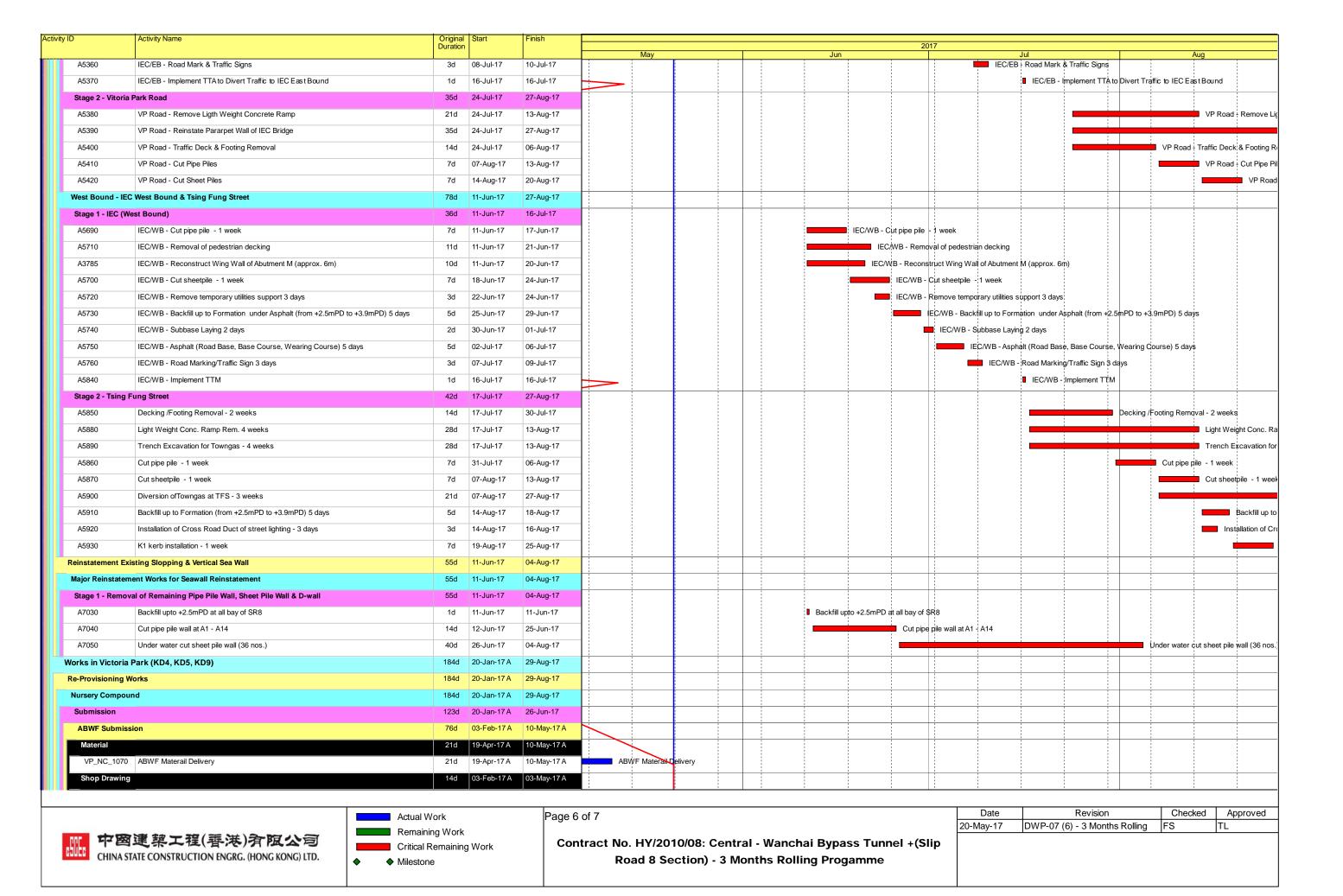


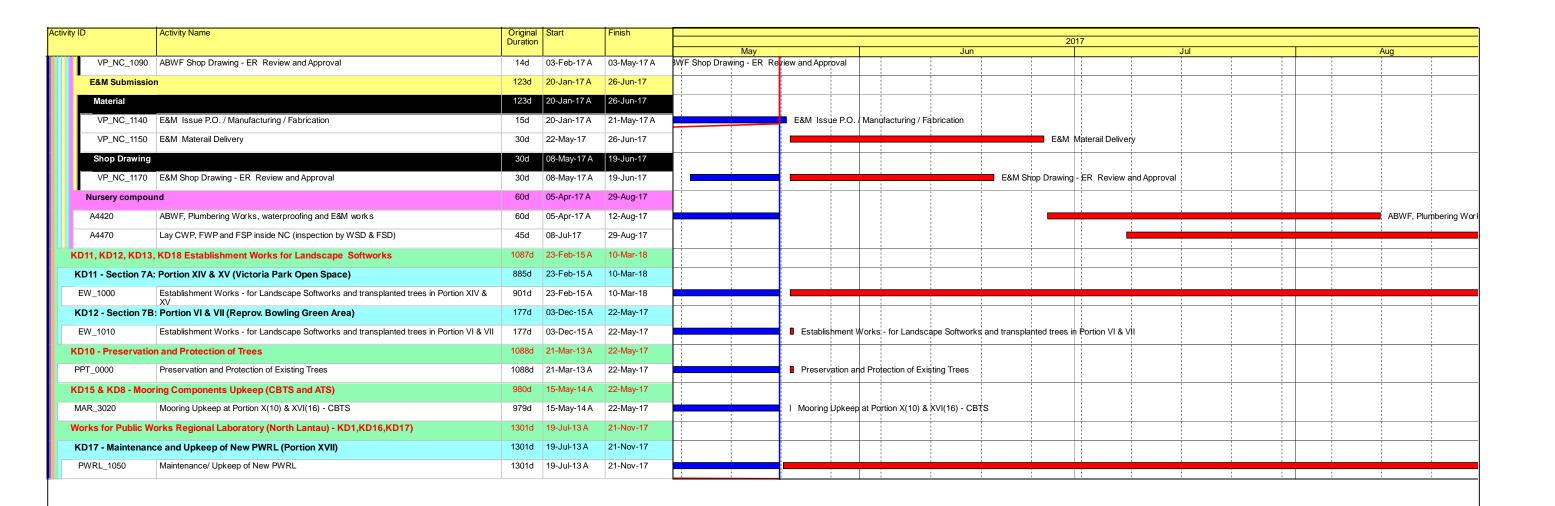




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Date	Revision	Checked	Approved
20-May-17	DWP-07 (6) - 3 Months Rolling	FS	TL





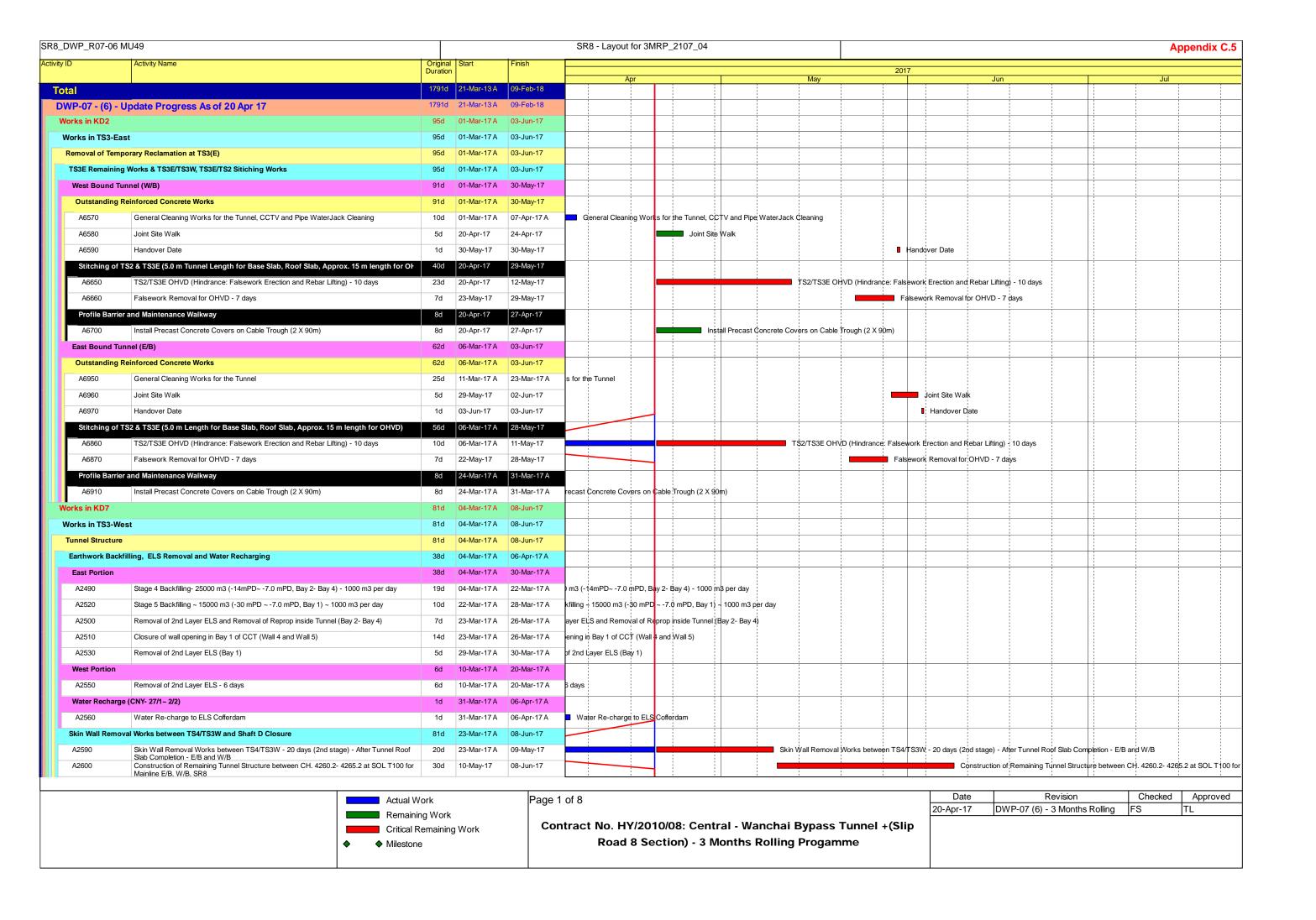


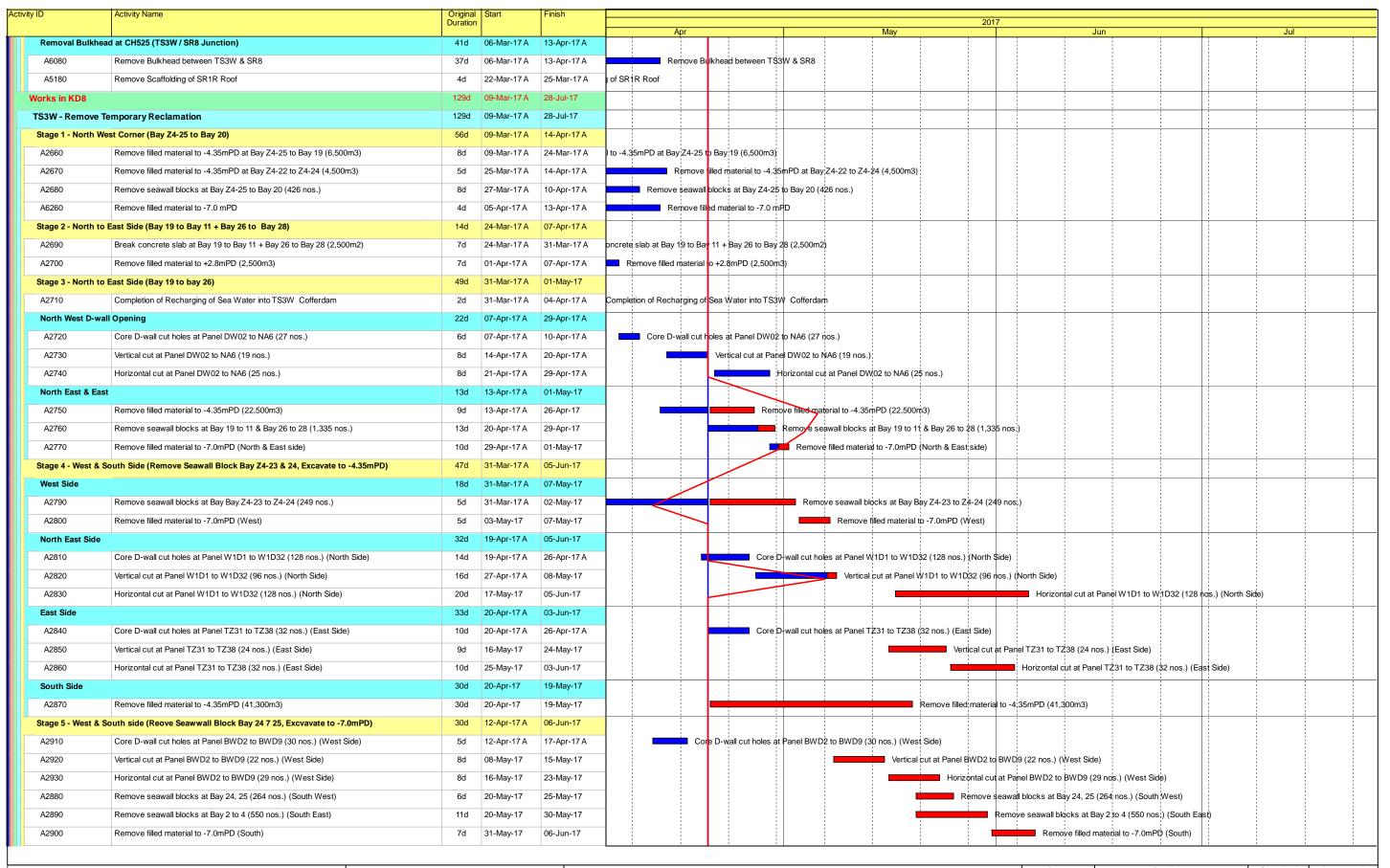


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Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip
Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
20-May-17	DWP-07 (6) - 3 Months Rolling	FS	TL



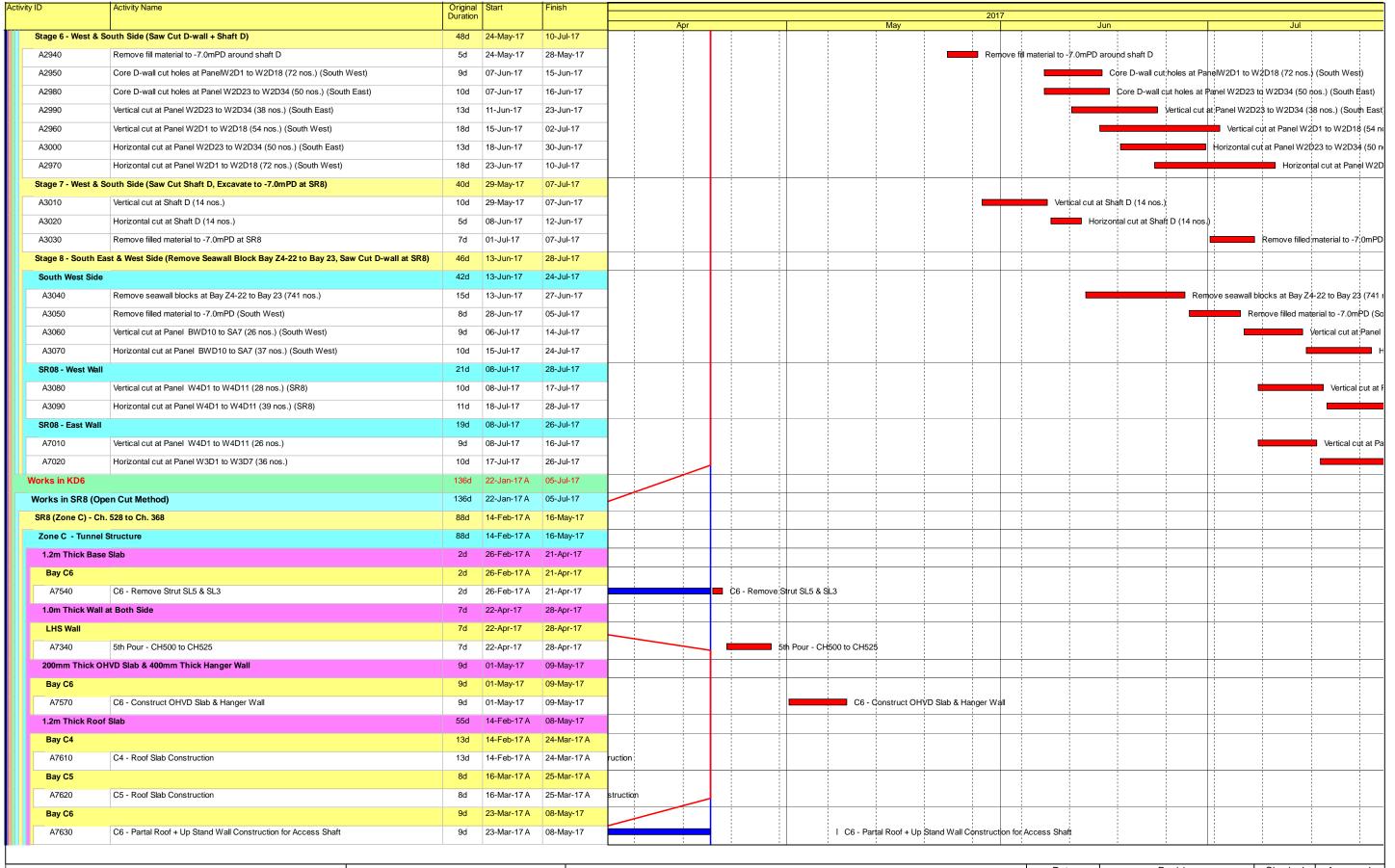




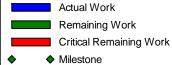


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Date	Revision	Checked	Approved
20-Apr-17	DWP-07 (6) - 3 Months Rolling	FS	TL

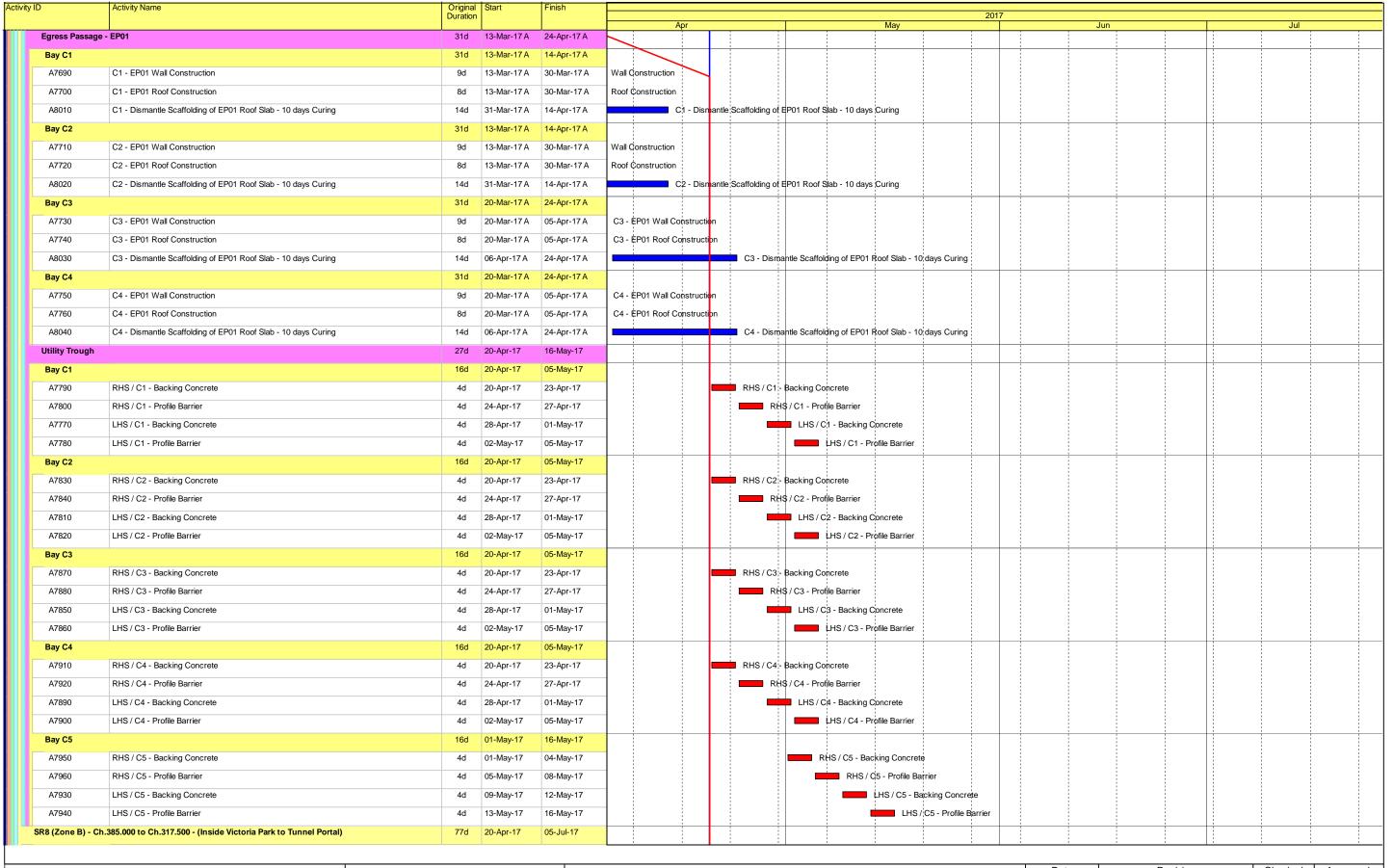






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Date	Revision	Checked	Approved
20-Apr-17	DWP-07 (6) - 3 Months Rolling	FS	TL

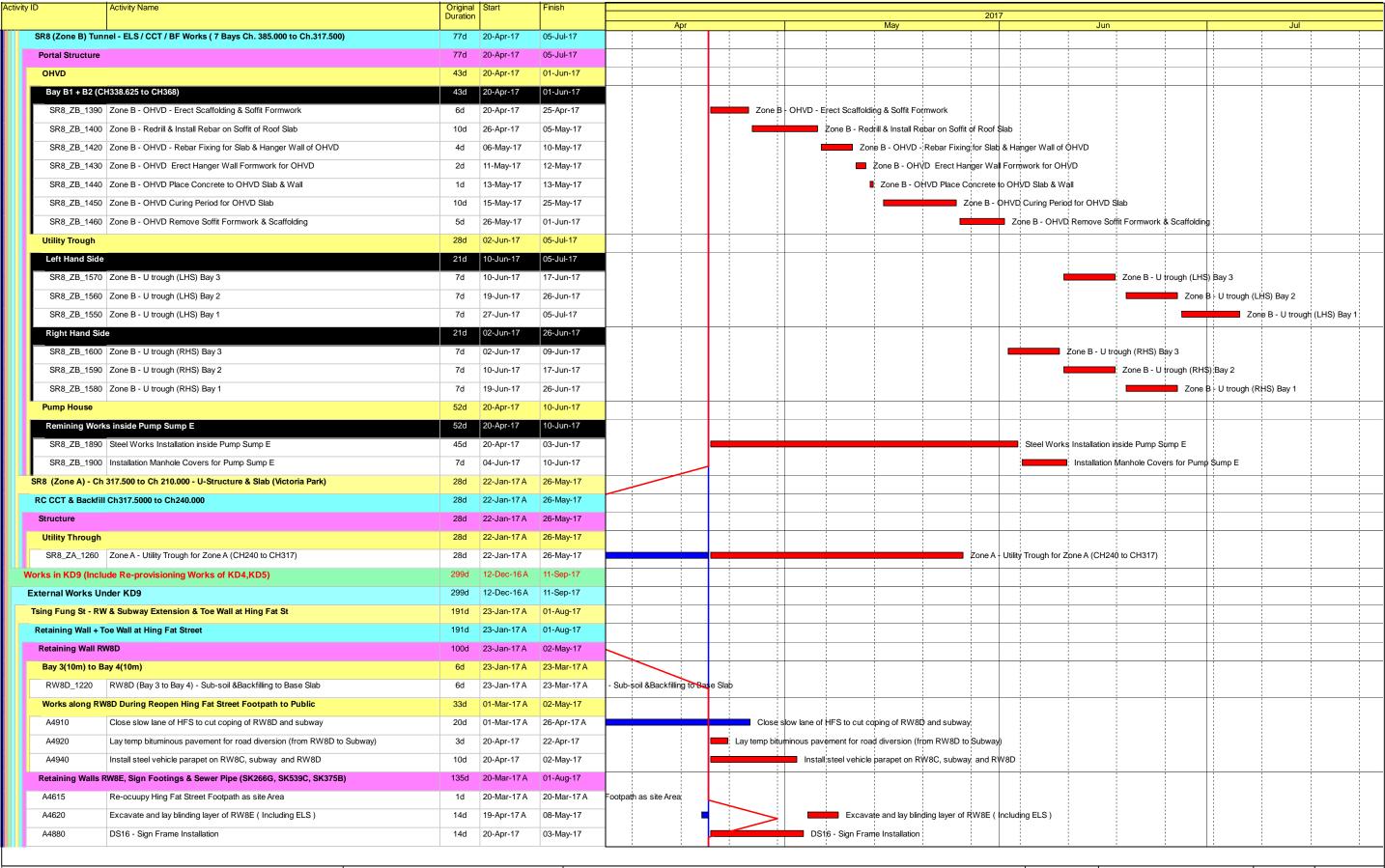




	Actual Work
	Remaining Work
	Critical Remaining Work
<b>•</b>	Milestone

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Date	Revision	Спескеа	Approved
20-Apr-17	DWP-07 (6) - 3 Months Rolling	FS	TL

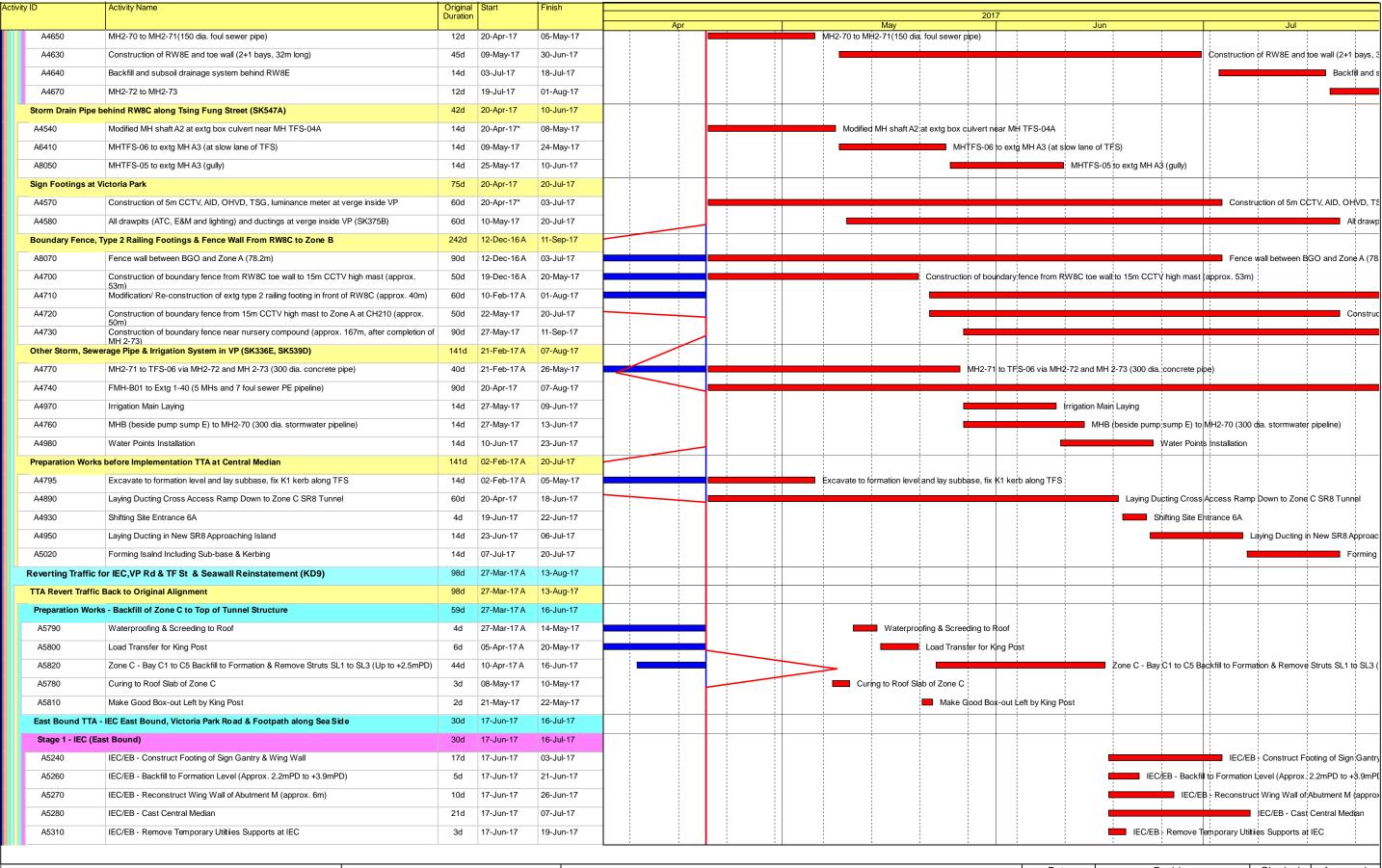




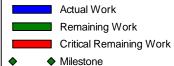


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Date	Revision	Checked	Approved
20-Apr-17	DWP-07 (6) - 3 Months Rolling	FS	TL







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Date	Revision	Спескеа	Approvea
20-Apr-17	DWP-07 (6) - 3 Months Rolling	FS	TL

ID	Activity Name	Original Duration		Finish		20	17
A3285	IEC/EB - Cut and Remove Pipe Pile (2m Below Ground Level)	7d	17-Jun-17	23-Jun-17	Apr	May	Jun Jul  IEC/EB - Cut and Remove Pipe Pile (2m Below Grou
A5320	IEC/EB - Reinstate Existing Drainage System	14d	20-Jun-17	03-Jul-17			IEC/EB - Reinstate Existing Drain
A3286	IEC/EB - Cut and Remove Sheet Pile (2m Below Ground Level)	7d	24-Jun-17	30-Jun-17			IEC/EB - Cut and Remove Sheet Pile (2
	` '						
A5290	IEC/EB - Street Lighting Cable Duct & Poles	3d	01-Jul-17	03-Jul-17			IEC/EB - Street Lighting Cable Du
A5250	IEC/EB - Install A Frame of Sign Gantry	4d	04-Jul-17	07-Jul-17	_		EC/EB - Install A Frame (
A5300	IEC/EB - TOC of Street Lightings	2d	04-Jul-17	05-Jul-17	_		■ IEC/EB - TOC of Street Lighti
A5330	IEC/EB - Backfill Drainage Tranch Up to Formnation (+2.5mPd to +3.9mPD)	5d	04-Jul-17	08-Jul-17			IEC/EB - Backfill Draina
A5340	IEC/EB - Laying Sub-base	2d	09-Jul-17	10-Jul-17			■ IEC/EB Laying Sul
A5350	IEC/EB - Laying Asphlat Pavement	3d	11-Jul-17	13-Jul-17			IEC/EB - Layir
A5360	IEC/EB - Road Mark & Traffic Signs	3d	14-Jul-17	16-Jul-17			IEC/EB
West Bound - IE	EC West Bound & Tsing Fung Street	58d	17-Jun-17	13-Aug-17			
Stage 1 - IEC (\	West Bound)	30d	17-Jun-17	16-Jul-17			
A5690	IEC/WB - Cut pipe pile - 1 week	7d	17-Jun-17	23-Jun-17	]		IEC/WB - Cut pipe pile - 1 week
A5710	IEC/WB - Removal of pedestrian decking	11d	17-Jun-17	27-Jun-17	1		IEC/WB - Removal of pedestrian decking
A3785	IEC/WB - Reconstruct Wing Wall of Abutment M (approx. 6m)	10d	17-Jun-17	26-Jun-17	1		IEC/WB - Reconstruct Wing Wall of Abutment I
A5700	IEC/WB - Cut sheetpile - 1 week	7d	24-Jun-17	30-Jun-17			IEC/WB - Cut sheetpile - 1 week
A5720	IEC/WB - Remove temporary utilities support 3 days	3d	28-Jun-17	30-Jun-17	1		EC/WB - Remove temporary utilities su
A5730	IEC/WB - Backfill up to Formation under Asphalt (from +2.5mPD to +3.9mPD) 5 days	5d	01-Jul-17	05-Jul-17	1		IEC/WB - Backfill up to Forma
A5740	IEC/WB - Subbase Laying 2 days	2d	06-Jul-17	07-Jul-17	-		■ IEC/WB - Subbase Laying
A5750	IEC/WB - Asphalt (Road Base, Base Course, Wearing Course) 5 days	5d	08-Jul-17	12-Jul-17			IEC/WB - Aspha
A5760	IEC/WB - Road Marking/Traffic Sign 3 days	3d	13-Jul-17	15-Jul-17	-		■ IEC/WB -
A5840	IEC/WB - Implement TTM	1d	16-Jul-17	16-Jul-17	-		<b>■</b> IEC/WB
Stage 2 - Tsing		28d	17-Jul-17	13-Aug-17			
A5850	Decking /Footing Removal - 2 weeks	14d	17-Jul-17	30-Jul-17			
A5880	Light Weight Conc. Ramp Rem. 4 weeks	28d	17-Jul-17	13-Aug-17	_		_
A5890	Trench Excavation for Towngas - 4 weeks	28d	17-Jul-17	13-Aug-17			
	Existing Slopping & Vertical Sea Wall	55d	17-Jun-17	10-Aug-17			
Major Reinstate	ement Works for Seawall Reinstatement	55d	17-Jun-17	10-Aug-17			
Stage 1 - Remo	oval of Remaining Pipe Pile Wall, Sheet Pile Wall & D-wall	55d	17-Jun-17	10-Aug-17			
A7030	Backfill upto +2.5mPD at all bay of SR8	1d	17-Jun-17	17-Jun-17			■ Backfill upto +2.5mPD at all bay of SR8
A7040	Cut pipe pile wall at A1 - A14	14d	18-Jun-17	01-Jul-17			Cut pipe pile wall at A1 - A14
A7050	Under water cut sheet pile wall (36 nos.)	40d	02-Jul-17	10-Aug-17	]		
Works in Victoria	a Park (KD4, KD5, KD9)	184d	20-Jan-17 A	06-Sep-17			
Re-Provisioning	Works	184d	20-Jan-17 A	06-Sep-17			
Nursery Compo	ound	184d	20-Jan-17 A	06-Sep-17			
Submission		124d	20-Jan-17 A	27-Jun-17			
ABWF Submis	ssion	99d	01-Feb-17 A	02-Jun-17			
Material		99d	01-Feb-17 A	12-May-17			
VP_NC_1060	0 ABWF Issue P.O. / Manufacturing / Fabrication	14d	01-Feb-17 A	18-Apr-17 A	ABWF Issue P.O. /	Manufacturing / Fabrication	
VP_NC_1070	0 ABWF Materail Delivery		19-Apr-17 A	12-May-17		ABWF Materail Delivery	
Shop Drawin	, , , , , , , , , , , , , , , , , , ,	14d	03-Feb-17 A	02-Jun-17			
	0 ABWF Shop Drawing - ER Review and Approval		03-Feb-17 A				ABWF Shop Drawing - ER Review and Approval
E&M Submiss			20-Jan-17 A				1.5.1. Stop planning Lit increase and approval
	NOI!						
Material		124d	20-Jan-17 A	27-Jun-17			





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Date	Revision	Checked	Approved
20-Apr-17	DWP-07 (6) - 3 Months Rolling	FS	TL

vity ID		Activity Name	Original Start Duration	Finish		2017
			Duration		Apr	Z017 May Jun Jul
V	/P_NC_1140	E&M Issue P.O. / Manufacturing / Fabrication	15d 20-Jan-1	7 A 22-May-17		E&M Issue P.O. / Manufacturing / Fabrication
V	/P_NC_1150	E&M Materail Delivery	30d 23-May-1	7 27-Jun-17		E&M Materail Delivery
Sh	hop Drawing		30d 20-Apr-1	7 26-May-17		
V	/P_NC_1170	E&M Shop Drawing - ER Review and Approval	30d 20-Apr-1	7 26-May-17		E&M Shop Drawing - ER Review and Approval
Nurs	sery compou	nd	125d 09-Mar-1	7 A 06-Sep-17		
A44	410	Concreting of two concrete plinths, 150 thick curbs and 1450H parapet wall above roof slab	7d 09-Mar-1	7 A 30-Mar-17 A	g of two concrete plinths, 150	thick curbs and 1450H parapet wall above ropf slab
A44	420	ABWF, Plumbering Works, waterproofing and E&M works	60d 05-Apr-1	7 A 06-Sep-17		
KD11, K	KD12, KD13,	, KD18 Establishment Works for Landscape Softworks	1087d 23-Feb-1	5 A 09-Feb-18		
KD11 -	- Section 7A:	: Portion XIV & XV (Victoria Park Open Space)	885d 23-Feb-1	5 A 09-Feb-18		
EW_10	000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV &	901d 23-Feb-1	5 A 09-Feb-18		
KD12 -	- Section 7B	: Portion VI & VII (Reprov. Bowling Green Area)	177d 03-Dec-1	5 A 20-Apr-17		
EW_10	010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	177d 03-Dec-1	5 A 20-Apr-17		■ Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII
KD10 -	Preservation	n and Protection of Trees	1088d 21-Mar-1	3 A 20-Apr-17		
PPT_00	000	Preservation and Protection of Existing Trees	1088d 21-Mar-1	3 A 20-Apr-17		■ Preservation and Protection of Existing Trees
KD15 &	& KD8 - Moor	ring Components Upkeep (CBTS and ATS)	980d 15-May-1	4 A 20-Apr-17		
MAR_3	3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d 15-May-1	4 A 20-Apr-17		I Mooring Upkeep at Portion X(10) & XVI(16) - CBTS
Works f	for Public W	orks Regional Laboratory (North Lantau) - KD1,KD16,KD17)	1301d 19-Jul-13	A 21-Nov-17		
KD17 -	- Maintenand	ce and Upkeep of New PWRL (Portion XVII)	1301d 19-Jul-13	A 21-Nov-17		
PWRL	L_1050	Maintenance/ Upkeep of New PWRL	1301d 19-Jul-13	A 21-Nov-17		





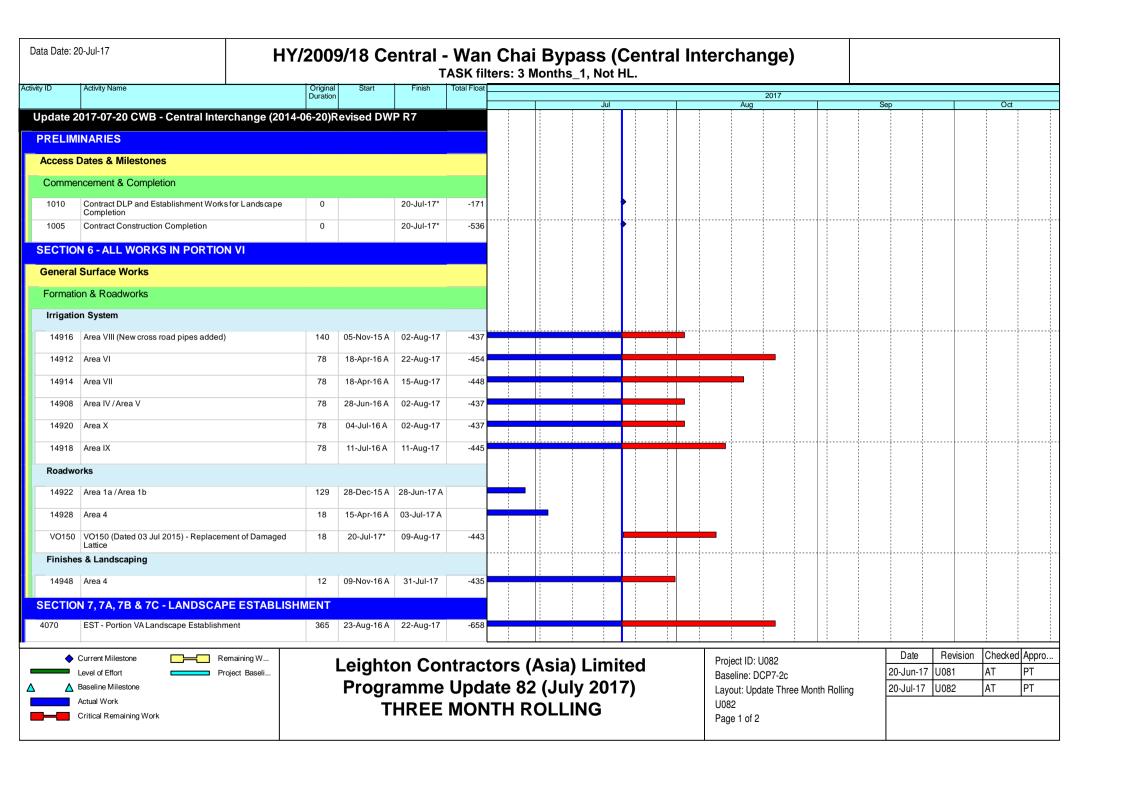
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Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip
Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
20-Apr-17	DWP-07 (6) - 3 Months Rolling	FS	TL

# China State Construction Engineering (Hong Kong) Ltd. Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay)

A ativity Nama	Ctout	Dini de			
Activity Name	Start	Finish	Jul	Aug	Sep
Hung Hing Road Resurfacing	1/6/2017	30/9/2017			
Defect works inside tunnel	1/4/2017	30/9/2017			



Data Date: 20-Jul-17 HY/2009/18 Central - Wan Chai Bypass (Central Interchange) TASK filters: 3 Months\_1, Not HL. Activity ID Activity Name Original Duration Finish Total Float 2017 Aug Oct EST - Portion VI Landscape Establishment 4040 01-Aug-17 31-Jul-18 **SECTION 8 - PRESERVATION & PROTECTION OF TREES** Tree - Preservation & Protection of Existing Trees 14-Dec-10 A 31-Jul-17 -548 **Key Dates for Completion of Sections Anticipated Completion** 1094 KD12 - Anticipated Completion 20-Jul-17\* -624 0 1124 KD11 - Anticipated Completion 20-Jul-17\* -529 1139 KD16 - Anticipated Completion 0 31-Jul-17\* -548 1114 KD10 - Anticipated Completion 0 22-Aug-17\* -570 **Portion Handover Dates Anticipated Handover** Portion IIIA Handover - Remaining (KD3 + 28 days) - (EOT 20-Jul-17\* -839



**Leighton Contractors (Asia) Limited Programme Update 82 (July 2017)** THREE MONTH ROLLING

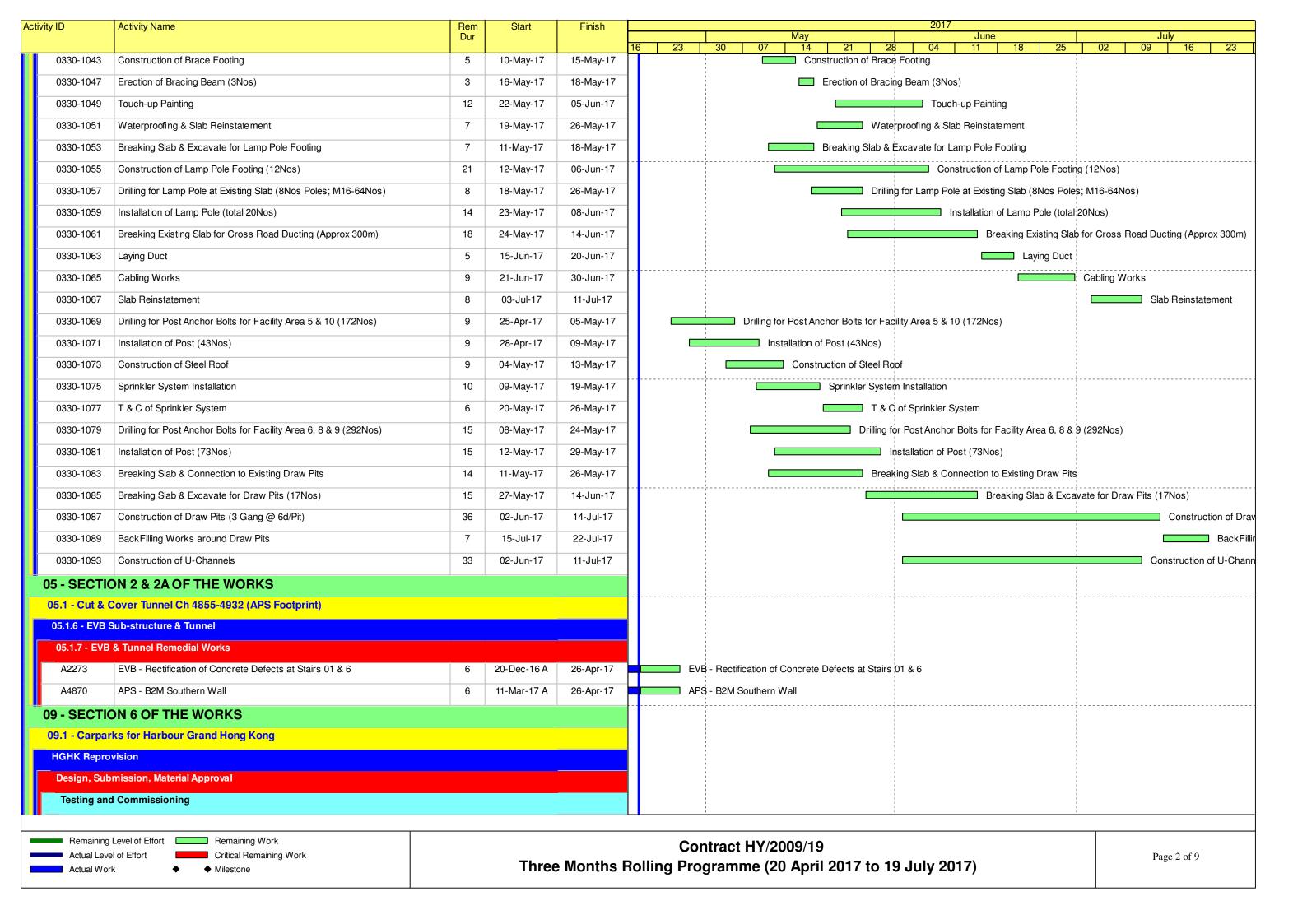
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Baseline: DCP7-2c
Layout: Update Three Month Rolling

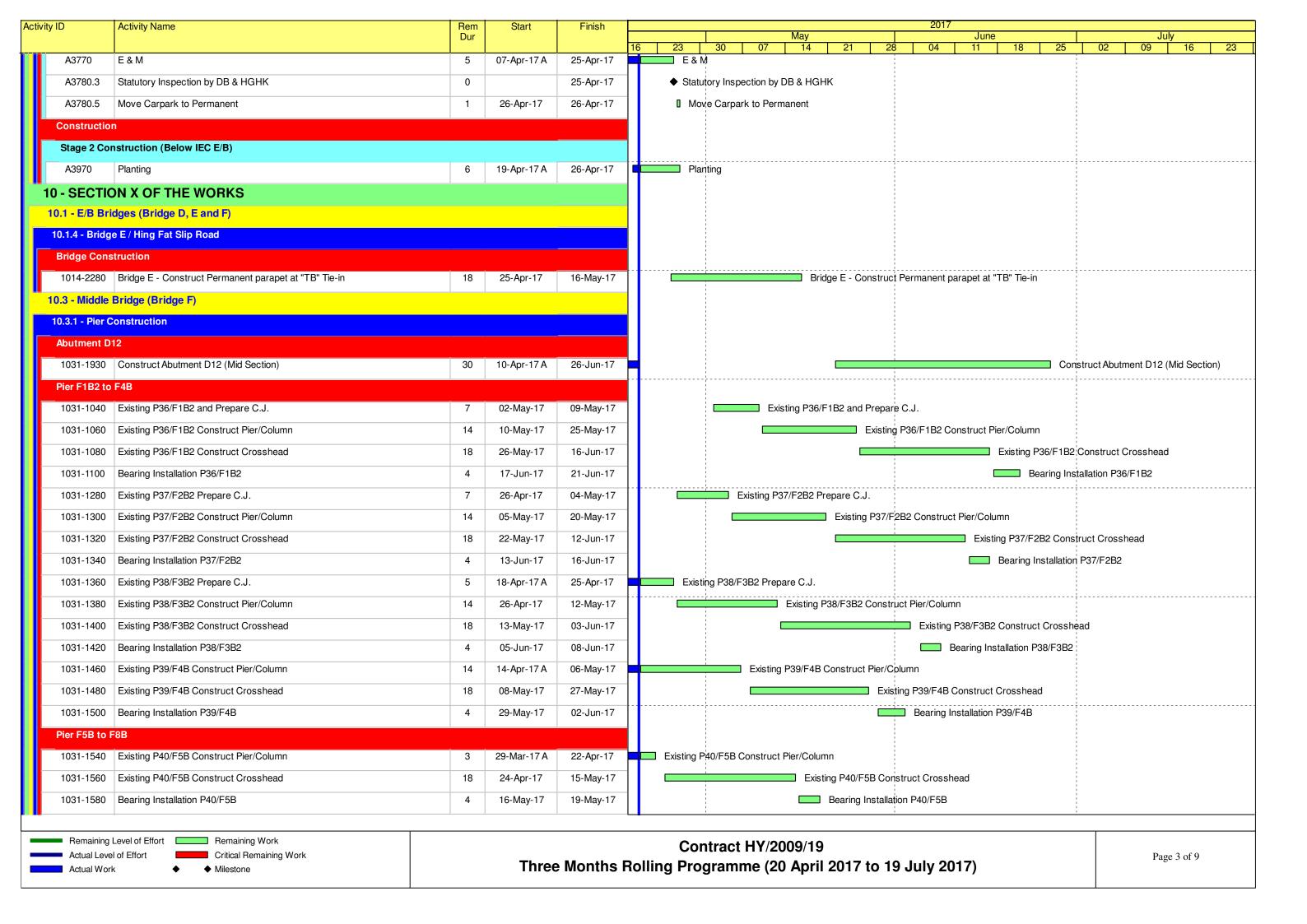
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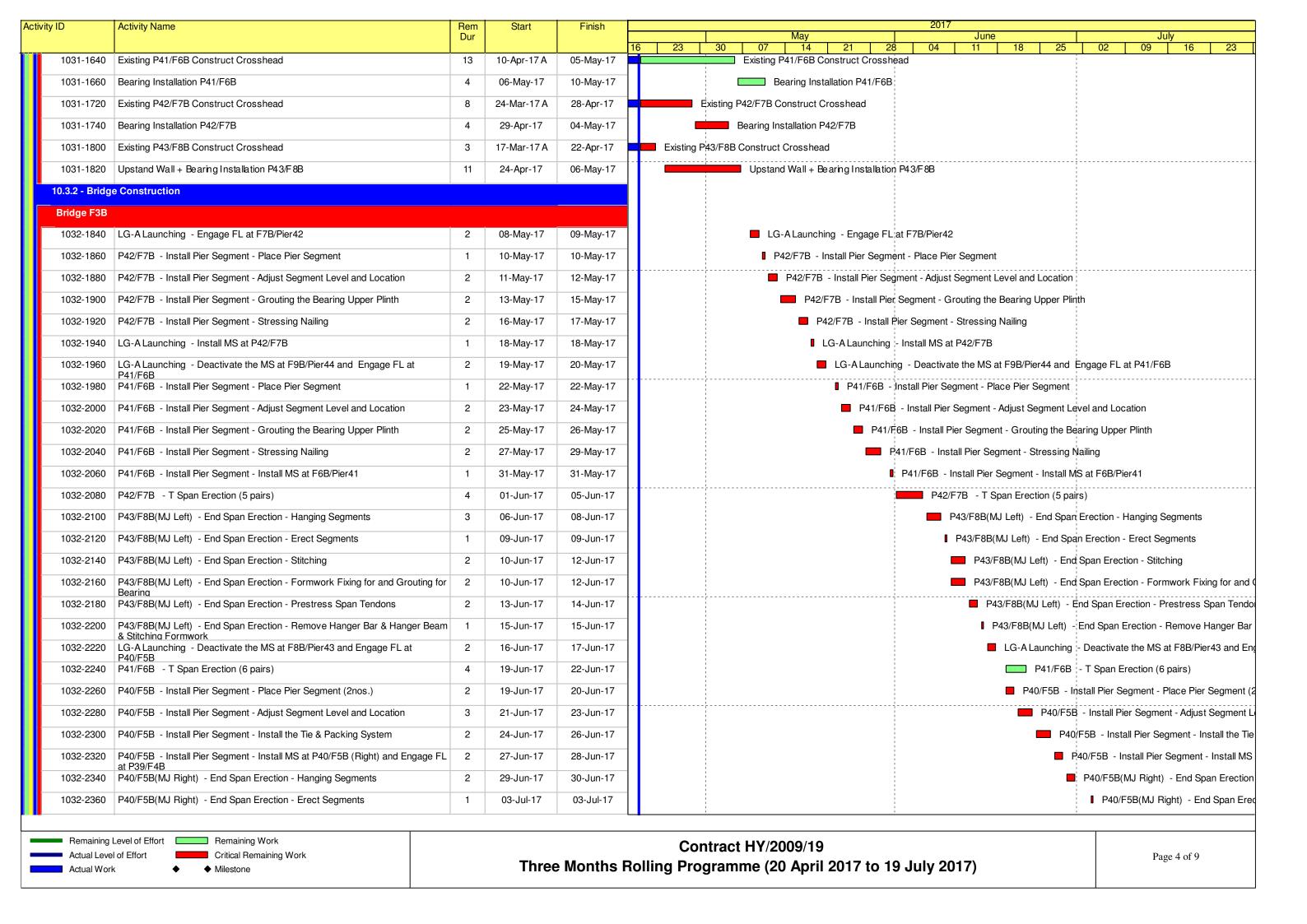
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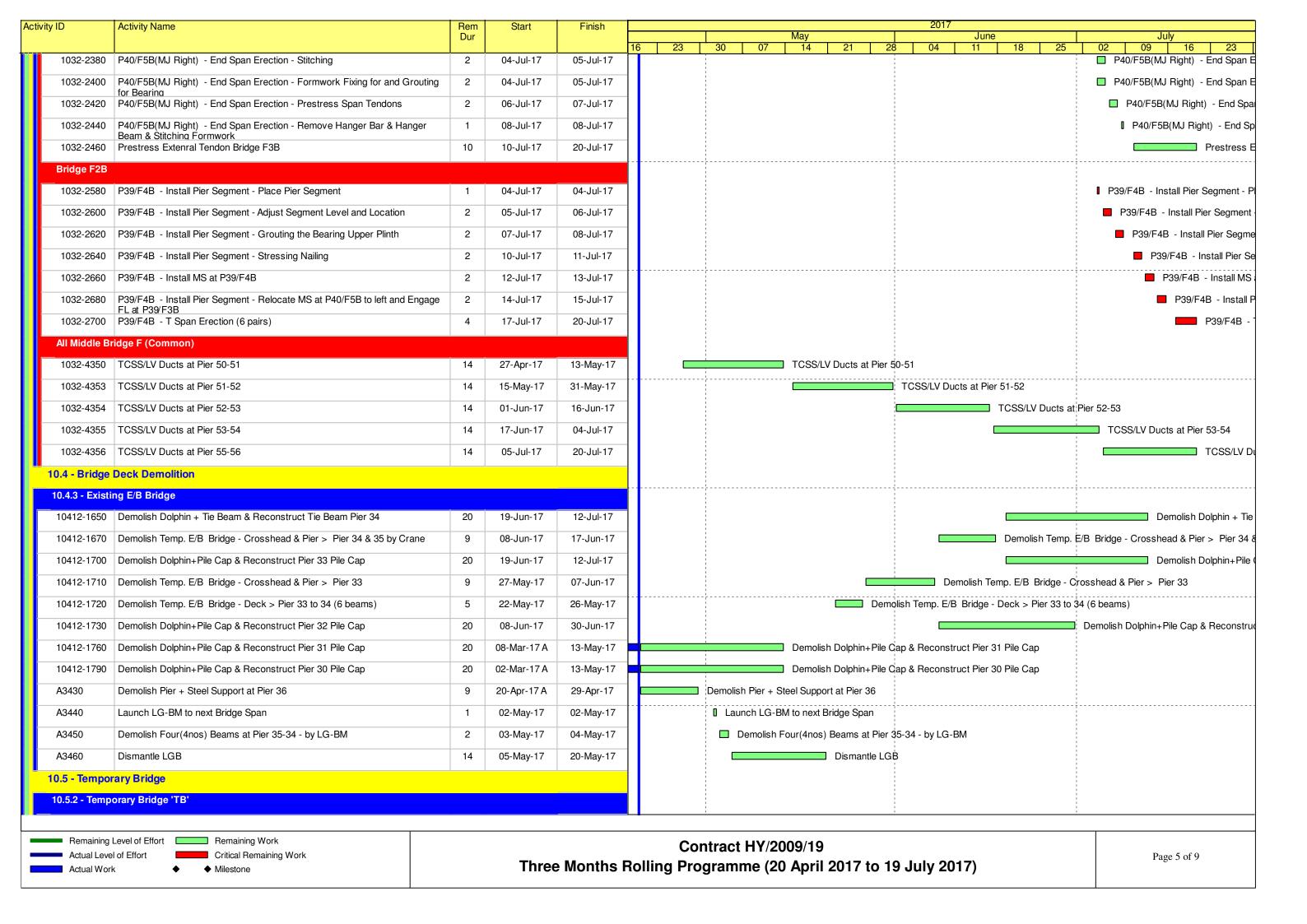
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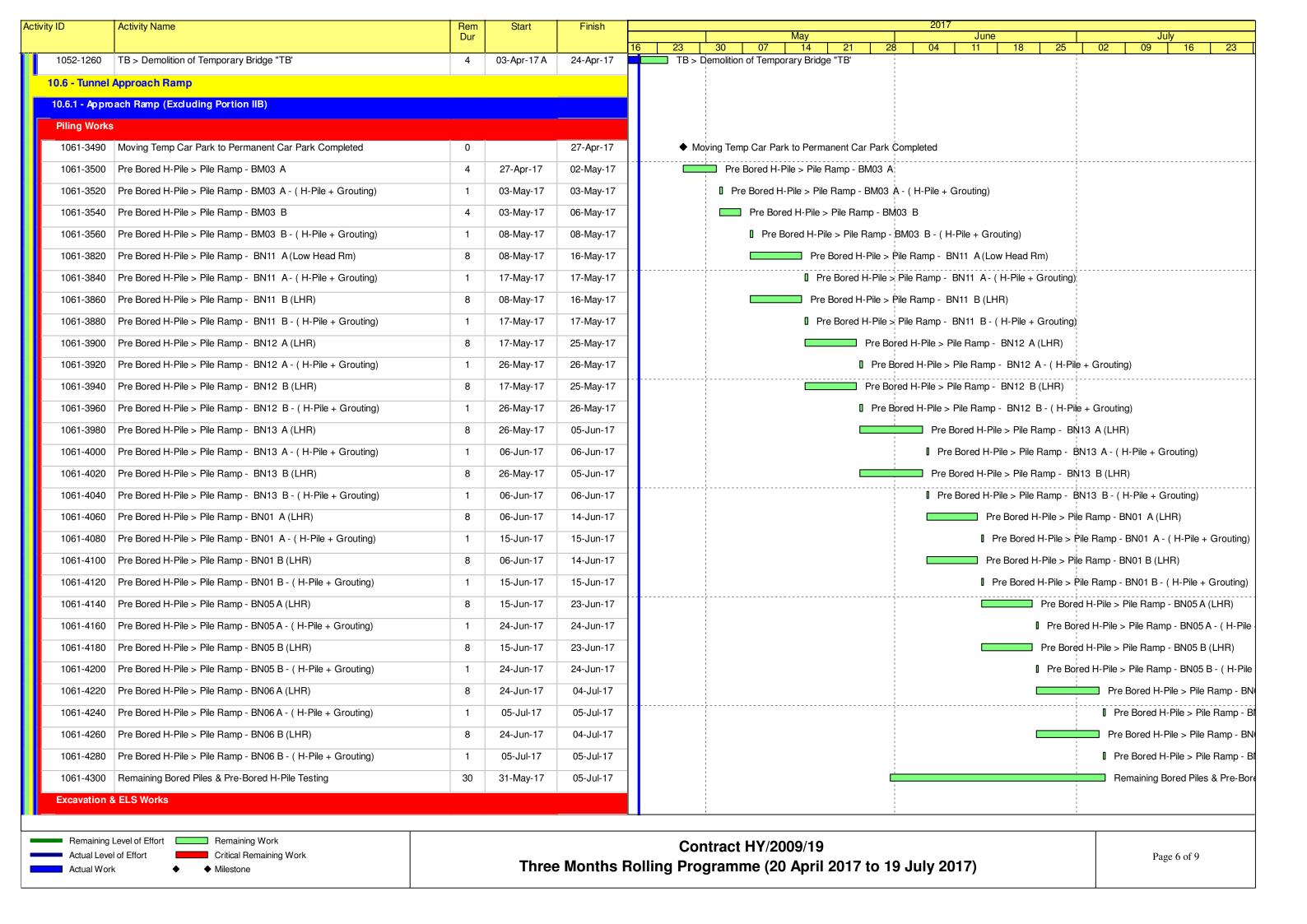
Date	Revision	Checked	Appro
20-Jun-17	U081	AT	PT
20-Jul-17	U082	AT	PT

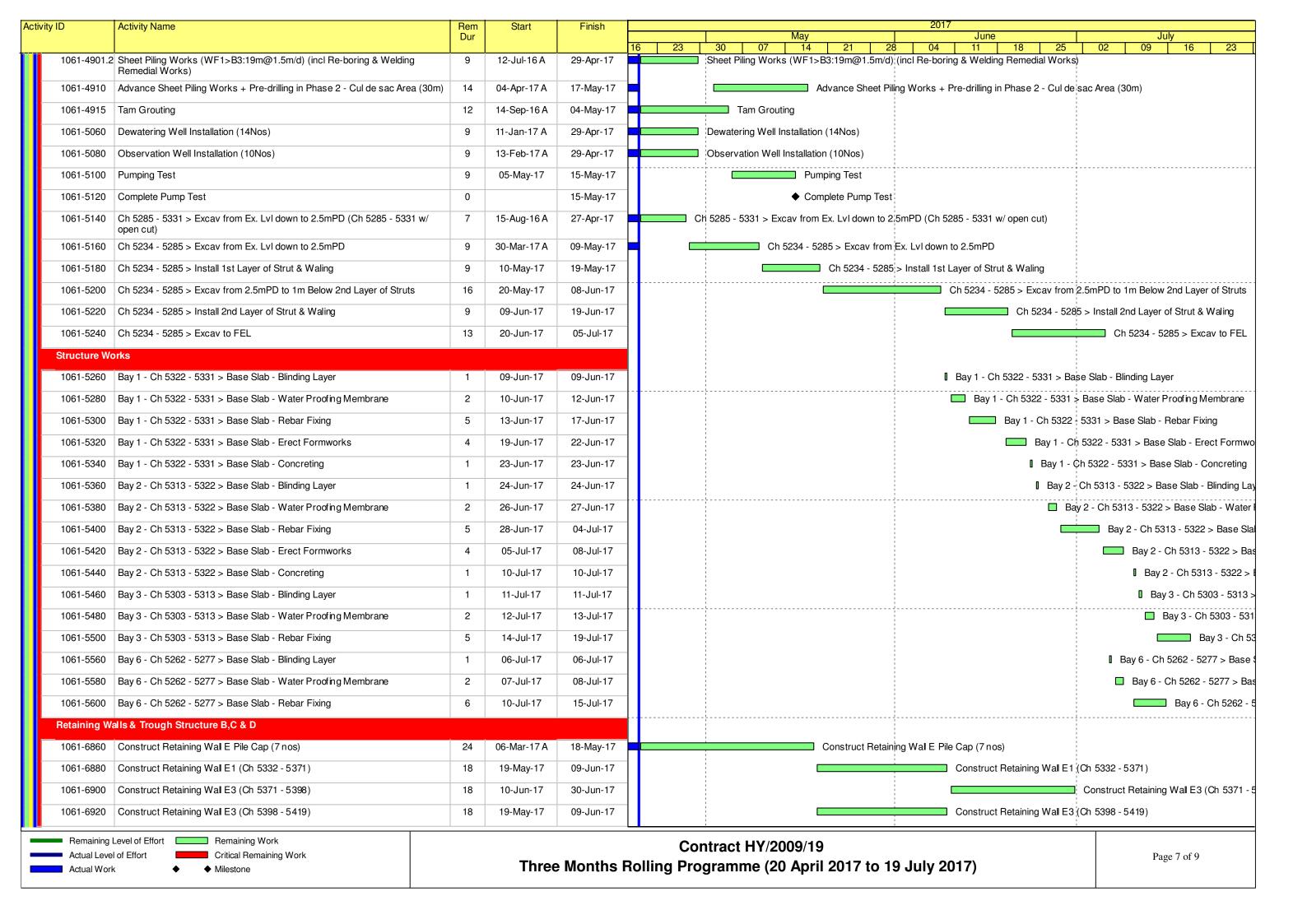


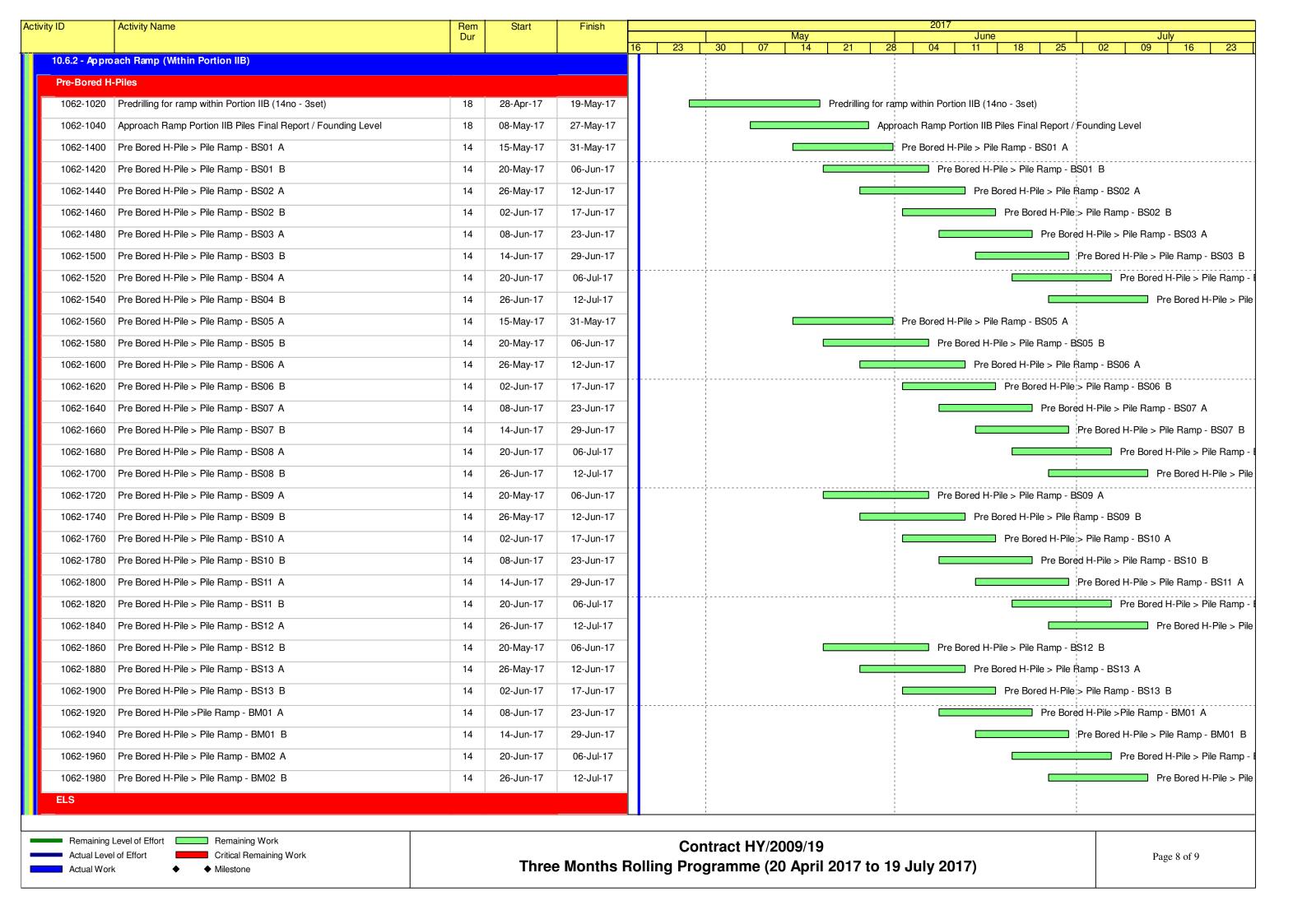


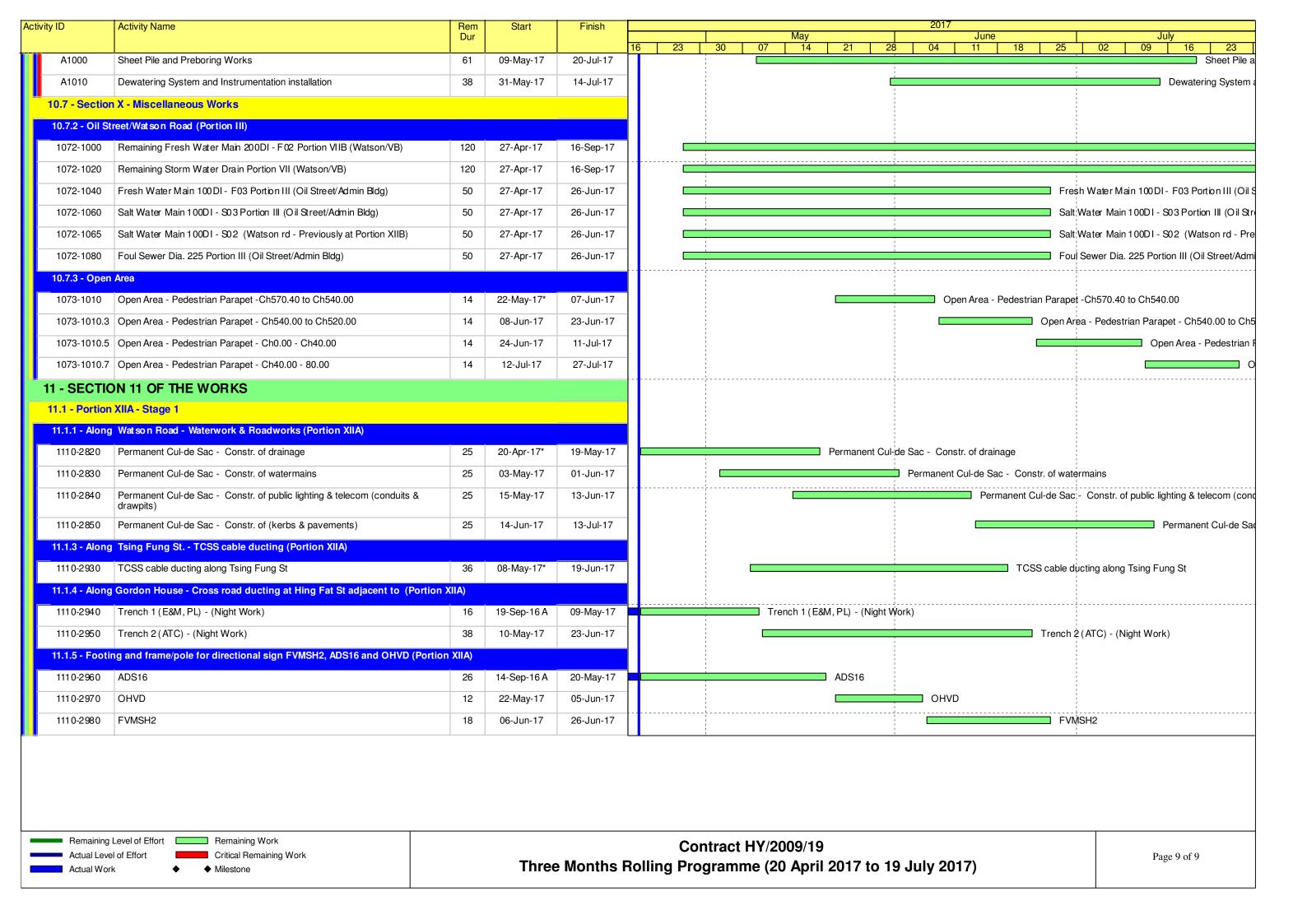


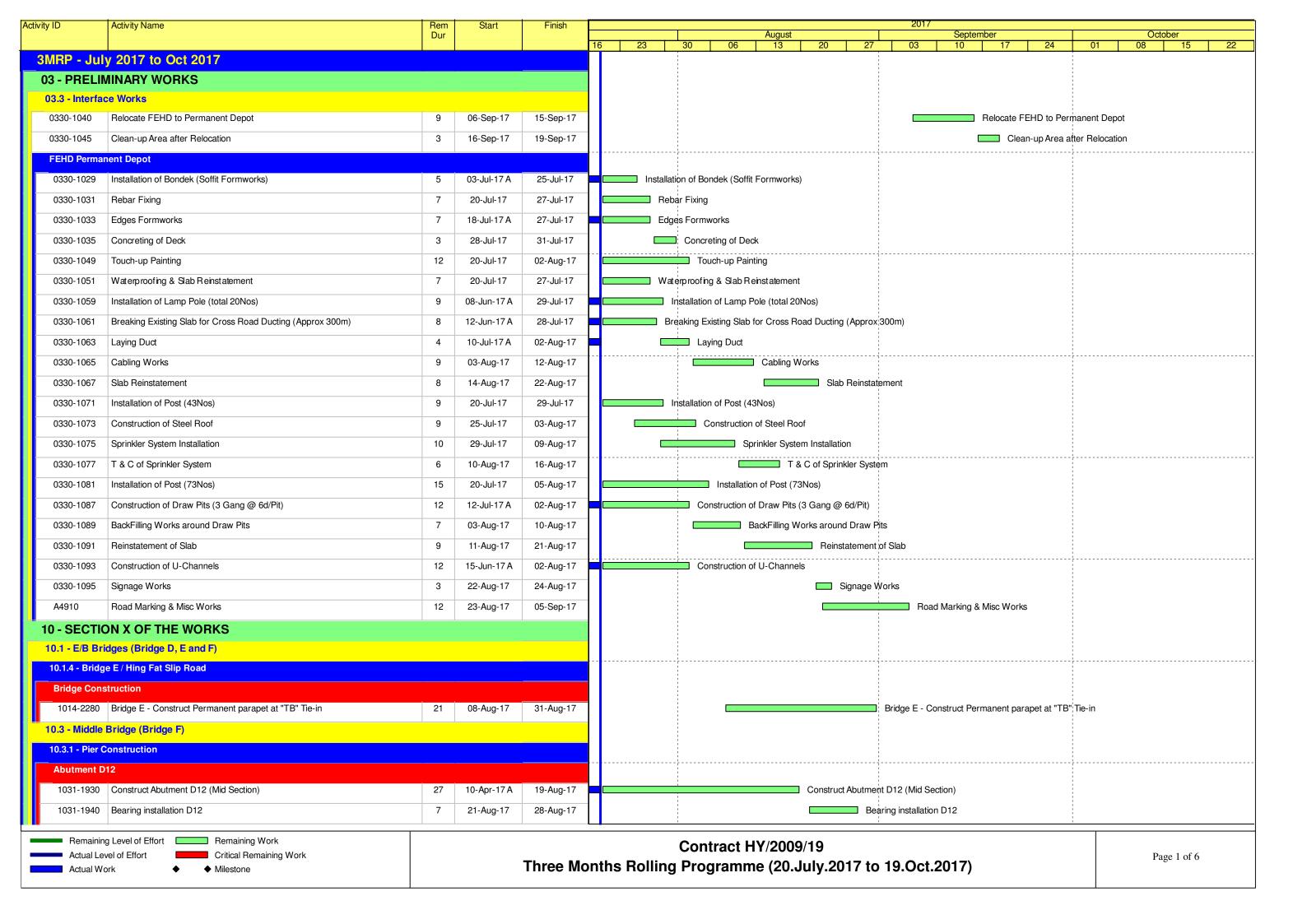












Activity ID	Activity Name	Rem	Start	Finish	2017
		Dur			August         September         October           16         23         30         06         13         20         27         03         10         17         24         01         08         15         22
Pier F1B2 to	F4B				
1031-1080	Existing P36/F1B2 Construct Crosshead	9	10-Jul-17 A	29-Jul-17	Existing P36/F1B2 Construct Crosshead
1031-1100	Bearing Installation P36/F1B2	4	31-Jul-17	03-Aug-17	Bearing Installation P36/F1B2
1031-1320	Existing P37/F2B2 Construct Crosshead	3	22-Jun-17 A	22-Jul-17	Existing P37/F2B2 Construct Crosshead
1031-1340	Bearing Installation P37/F2B2	4	24-Jul-17	27-Jul-17	Bearing Installation P37/F2B2
10.3.2 - Bridg	e Construction				
Bridge F3B					
1032-2240	P41/F6B - T Span Erection (6 pairs)	2	19-Jul-17 A	21-Jul-17	P41/F6B - T \$pan Erection (6 pairs)
1032-2260	P40/F5B - Install Pier Segment - Place Pier Segment (2nos.)	2	20-Jul-17	21-Jul-17	P40/F5B - Install Pier Segment - Place Pier Segment (2nos.)
1032-2280	P40/F5B - Install Pier Segment - Adjust Segment Level and Location	3	22-Jul-17	25-Jul-17	P40/F5B - Install Pier Segment - Adjust Segment Level and Location
1032-2300	P40/F5B - Install Pier Segment - Install the Tie & Packing System	2	26-Jul-17	27-Jul-17	P40/F5B - Install Pier Segment - Install the Tie & Packing System
1032-2320	P40/F5B - Install Pier Segment - Install MS at P40/F5B (Right) and Engage FL at P39/F4B	2	28-Jul-17	29-Jul-17	P40/F5B - Install Pier Segment - Install MS at P40/F5B (Right) and Engage FL at P39/F4B
1032-2340	P40/F5B(MJ Right) - End Span Erection - Hanging Segments	2	31-Jul-17	01-Aug-17	P40/F5B(MJ Right) - End Span Erection - Hanging Segments
1032-2360	P40/F5B(MJ Right) - End Span Erection - Erect Segments	1	02-Aug-17	02-Aug-17	P40/F5B(MJ Right) - End Span Erection - Erect Segments
1032-2380	P40/F5B(MJ Right) - End Span Erection - Stitching	2	03-Aug-17	04-Aug-17	P40/F5B(MJ Right) - End Span Erection - \$titching
1032-2400	P40/F5B(MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing	2	03-Aug-17	04-Aug-17	P40/F5B(MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing
1032-2420	P40/F5B(MJ Right) - End Span Erection - Prestress Span Tendons	2	05-Aug-17	07-Aug-17	P40/F5B(MJ Right) - End Span Erection - Prestress Span Tendons
1032-2440	P40/F5B(MJ Right) - End Span Erection - Remove Hanger Bar & Hanger	1	08-Aug-17	08-Aug-17	P40/F5B(MJ Right) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork
1032-2460	Beam & Stitching Formwork  Prestress Extenral Tendon Bridge F3B	10	09-Aug-17	19-Aug-17	Prestress Extenral Tendon Bridge F3B
1032-2480	Bridge F3B - Construct South Parapet	15	21-Aug-17	06-Sep-17	Bridge F3B - Construct South Parapet
1032-2500	Bridge F3B - Lingitudinal Stitching	15	21-Aug-17	06-Sep-17	Bridge F3B - Lingitudinal Stitching
1032-2520	Bridge F3B - Construct Median Barriers	18	07-Sep-17	27-Sep-17	Bridge F3B - Construct Median Barriers
Bridge F2B					
1032-2580	P39/F4B - Install Pier Segment - Place Pier Segment	1	03-Aug-17	03-Aug-17	P39/F4B - Install Pier Segment - Place Pier Segment
1032-2600	P39/F4B - Install Pier Segment - Adjust Segment Level and Location	2	04-Aug-17	05-Aug-17	P39/F4B - Install Pier Segment - Adjust Segment Level and Location
1032-2620	P39/F4B - Install Pier Segment - Grouting the Bearing Upper Plinth	2	07-Aug-17	08-Aug-17	P39/F4B - Install Pier Segment - Grouting the Bearing Upper Plinth
1032-2640	P39/F4B - Install Pier Segment - Stressing Nailing	2	09-Aug-17	10-Aug-17	P39/F4B - Install Pier Segment - Stressing Nailing
1032-2660	P39/F4B - Install MS at P39/F4B	2	11-Aug-17	12-Aug-17	P39/F4B - Install MS at P39/F4B
1032-2680	P39/F4B - Install Pier Segment - Relocate MS at P40/F5B to left and Engage FL at P39/F3B	2	14-Aug-17	15-Aug-17	P39/F4B - Install Pier Segment - Relocate MS at P40/F5B to left and Engage FL at P39/F3B
1032-2700	P39/F4B - T Span Erection (6 pairs)	4	16-Aug-17	19-Aug-17	P39/F4B - T Span Erection (6 pairs)
1032-2720	P40/F5B(MJ Left) - End Span Erection - Hanging Segments	2	21-Aug-17	22-Aug-17	P40/F5B(MJ Left) - End Span Erection - Hanging Segments
1032-2740	P40/F5B(MJ Left) - End Span Erection - Erect Segments	1	23-Aug-17	23-Aug-17	□ P40/F5B(MJ Left) - End Span Erection - Erect Segments
1032-2760	P40/F5B(MJ Left) - End Span Erection - Stitching	2	24-Aug-17	25-Aug-17	P40/F5B(MJ Left) - End Span Erection - Stitching
1032-2780	P40/F5B(MJ Left) - End Span Erection - Formwork Fixing for and Grouting for	2	24-Aug-17	25-Aug-17	■ P40/F5B(MJ Left) - End Span Erection - Formwork Fixing for and Grouting for Bearing
1032-2800	Bearing P40/F5B(MJ Left) - End Span Erection - Prestress Span Tendons	2	26-Aug-17	28-Aug-17	P40/F5B(MJ Left) - End Span Erection - Prestress Span Tendons
	P40/F5B(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam	1	29-Aug-17	29-Aug-17	☐ P40/F5B(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwo
	& Stitching Formwork				2 1 John Selling Lotto Lotto Flampor Ball & Harrigor Bealth & Ottorning Formity
Actual Lev	g Level of Effort Remaining Work  vel of Effort Critical Remaining Work			Throe Ma	Contract HY/2009/19 Page 2 of 6
Actual Wo	ork ♦ Milestone			inree MC	onths Rolling Programme (20.July.2017 to 19.Oct.2017)

activity ID	Activity Name	Rem Dur	Start	Finish	2017 August September October
1032-2840	LG-A Launching - Deactivate the MS at F5B/Pier40 and Engage FL at	2	30-Aug-17	31-Aug-17	6 23 30 06 13 20 27 03 10 17 24 01 08 15 2
	P38/F4B  P38/F4B - Install Pier Segment - Place Pier Segment	2	01-Sep-17	02-Sep-17	P38/F4B - Install Pier Segment - Place Pier Segment
1032-2880	·	3	04-Sep-17	02-Sep-17 06-Sep-17	P38/F4B - Install Pier Segment - Adjust Segment Level and Location
1032-2000		1	07-Sep-17	00-Sep-17 07-Sep-17	P38/F4B - Install Pier Segment - Install the Tie & Packing System
		'	07-Sep-17 08-Sep-17	07-Sep-17 08-Sep-17	P38/F4B - Launch LG -A and Engage FL at F2B/Pier37
	P38/F4B(MJ Right) - End Span Erection - Hanging Segments	2	09-Sep-17	11-Sep-17	P38/F4B(MJ Right) - End Span Erection - Hanging Segments
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		·		, , , ,
	P38/F4B(MJ Right) - End Span Erection - Erect Segments	1	12-Sep-17	12-Sep-17	P38/F4B(MJ Right) - End Span Erection - Erect Segments
1032-2980		2	13-Sep-17	14-Sep-17	P38/F4B(MJ Right) - End Span Erection - Stitching
1032-3000	P38/F4B(MJ Right) - End Span Erection - Formwork Fixing for and Grouting for Bearing	2	13-Sep-17	14-Sep-17	P38/F4B(MJ Right) - End Span Erection - Formwork Fixing for an
1032-3020	P38/F4B(MJ Right) - End Span Erection - Prestress Span Tendons	2	15-Sep-17	16-Sep-17	P38/F4B(MJ Right) - End Span Erection - Prestress Span Tend
1032-3040	P38/F4B(MJ Right) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwork	1	18-Sep-17	18-Sep-17	P38/F4B(MJ Right) - End Span Erection - Remove Hanger
1032-3060	Prestress Extenral Tendon of Bridge F2B	12	19-Sep-17	03-Oct-17	Prestress Extenral Tendon of Bridg
1032-3080	Bridge F2B - Longitudinal Stitching	12	04-Oct-17	18-Oct-17	Bridge F2
Bridge F1B	2	,			
1032-1000	Relignment LG - A for Launching at Bridge F1B2	4	19-Sep-17	22-Sep-17	Relignment LG - A for Launching at Bridge F1B2
1032-3160	P38/F4B - Install Pier Segment - Place Pier Segment	1	23-Sep-17	23-Sep-17	P38/F4B - Install Pier Segment - Place Pier Segme
1032-3180	P38/F4B - Install Pier Segment - Adjust Segment Level and Location	2	25-Sep-17	26-Sep-17	P38/F4B - Install Pier Segment - Adjust Segm
1032-3200	P38/F4B - Install Pier Segment - Grouting the Bearing Upper Plinth	3	27-Sep-17	29-Sep-17	P38/F4B - Install Pier Segment - Groutin
1032-3220	P38/F4B - Install Pier Segment - Stressing Nailing	2	30-Sep-17	03-Oct-17	P38/F4B - Install Pier Segment - S
1032-3240	P38/F4B - Install MS at Pier 38 and Engage FL at P37/F2B	2	04-Oct-17	06-Oct-17	P38/F4B - Install MS at Pier
1032-3260	P37/F2B - Install Pier Segment - Place Pier Segment	1	07-Oct-17	07-Oct-17	☐ P37/F2B - Install Pier Segn
1032-3280	P37/F2B - Install Pier Segment - Adjust Segment Level and Location	2	09-Oct-17	10-Oct-17	☐ P37/F2B - Install Pier
1032-3300	P37/F2B - Install Pier Segment - Grouting the Bearing Upper Plinth	3	11-Oct-17	13-Oct-17	P37/F2B - Install
1032-3320	P37/F2B - Install Pier Segment - Stressing Nailing	2	14-Oct-17	16-Oct-17	P37/F2B - I
1032-3340	P37/F2B - Install MS at F1B2/Pier37 and Engage FL at F1B/Pier36	2	17-Oct-17	18-Oct-17	□ P37/F2B
1032-3360	P37/F2B - T Span Erection (5 pairs)	4	19-Oct-17	23-Oct-17	F
Bridge F1B	1				
1032-1080	Re-assemble LG-BM to F1B1	11	27-Jun-17 A	01-Aug-17	Re-assemble LG-BM to F1B1
1032-1100	P36/F1A - Install Pier Segment - Place Pier Segment	2	02-Aug-17	03-Aug-17	P36/F1A - Install Pier Segment - Place Pier Segment
1032-1120	P36/F1A - Install Pier Segment - Adjust Segment Level and Location	2	04-Aug-17	05-Aug-17	P36/F1A - Install Pier Segment - Adjust Segment Level and Location
1032-1140	P36/F1A - Install Pier Segment - Grouting the Bearing Upper Plinth	3	07-Aug-17	09-Aug-17	P36/F1A - Install Pier Segment - Grouting the Bearing Upper Plinth
1032-1160	P36/F1A - Install Pier Segment - Stressing Nailing	2	10-Aug-17	11-Aug-17	☐ P36/F1A - Install Pier Segment - Stressing Nailing
1032-1180	P36/F1A - Install MS at F1B/Pier36 and Engage RL at D12	2	12-Aug-17	14-Aug-17	P36/F1A - Install MS at F1B/Pier36 and Engage RL at D12
1032-1200	P36/F1A - T Span Erection (6 pairs)	3	15-Aug-17	17-Aug-17	P36/F1A - T Span Erection (6 pairs)
1032-1220	Abut. D12 - Install MS at D12	1	18-Aug-17	18-Aug-17	☐ Abut. D12 - Install MS at D12
1032-1240	Abut. D12 (MJ Right) - End Span Erection - Hanging Segments	2	19-Aug-17	21-Aug-17	Abut. D12 (MJ Right) - End Span Erection - Hanging Segments
1032-1260	Abut. D12 (MJ Right) - End Span Erection - Erect Segments	2	22-Aug-17	23-Aug-17	Abut. D12 (MJ Right) - End Span Erection - Erect Segments
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	ng Level of Effort Remaining Work				Contract HY/2009/19
Actual Le	evel of Effort Critical Remaining Work  Ork Milestone			Three Mo	oths Rolling Programme (20.July.2017 to 19.Oct.2017)
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