



**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/D,  
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 AND  
FEP-11/364/2009/B**

**MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

**- JANUARY 2016 -**

**CLIENTS:**

**Civil Engineering and Development  
Department**

**and**

**Highways Department**

**PREPARED BY:**

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**CERTIFIED BY:**

Raymond Dai  
Environmental Team Leader

**DATE:**

16 February 2016

Ref.: AACWBIECEM00\_0\_7751L.16

16 February 2016

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

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

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

**Monthly Environmental Monitoring and Audit Report (January 2016)  
for EP-364/2009/D, 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/B**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for January 2016 received by e-mail on 16 February 2016 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

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**EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – [January 2016](#) specific for Environmental Permit no. EP-364/2009/D, 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 and FEP-11/364/2009/B. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of [27 December 2015 to 26 January 2016](#).
- 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](#)
- [Bridges construction](#)

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

- [Stage 3 Backfilling works at CWB Tunnel top slab](#)
- [Construction of slip road 3](#)
- [Stage 4 ELS works and tunnel structure works.](#)
- [Removal of abandoned cooling main \(P7/P9\) at Convention Avenue](#)
- [Reinstatement of outfall](#)
- [Reinstatement of triangular planter at Fenwick Pier Street](#)
- [Roadworks /drains for Expo Drive East](#)

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

- [Removal of stockpile of material, site clearance works at OHVD at Tunnel Portion 1.](#)
- [Construction of road side barriers](#)
- [Struts installation for layer S6](#)
- [Excavation for formation level](#)

- Construction of blinding layer
- Breaking through bulkhead wall BW3
- Ground investigation works
- Bored pile construction
- Extraction of the temporary sheet pile seawall and removal of the temporary seawall blocks near the interface between Portion 2 and Portion 5
- Setting up of silo tanks, pre-treatment works for diaphragm wall construction
- Excavation at diaphragm wall panel

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

- Construction roadside barrier at Mined Tunnel
- Rock excavation at TPCWAW
- Demolition of bulkhead wall between TPCWAE and TPCWAW
- Construction RC structure at TPCWAW
- Remaining works inside tunnel at TS4 and TPCWAE
- Removal of standby Dewatering System and monitoring instrument along Hung Hing road

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

- Pier construction for IEC
- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe
- Oil Street drainage works
- Excavation / Construction of retaining wall/ADB
- Bridge segment erections
- Pre-bored H-pile for Approach Ramp
- Hing Fat Street modification works
- Bridge TA2 demolition
- Abutment D12 construction
- EVA Temporary works

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009B

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation



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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Sheet piling works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Diaphragm Wall, Barrette construction and king post installation works
- D-wall drill cutting 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-11/364/2009B

- Construction of Ventilation Buildings, inclusive of East Ventilation Shaft, West Ventilation Building
- Construction of Tunnel Thermal Barrier

### Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M1a - 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. Two limit level exceedances were recorded at noise monitoring station M1a – Harbour Road Sports Center on 12 and 19 January 2016. The exceedances were concluded as non-project related.
- vi. 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.
- vii. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No limit level exceedance was recorded in the reporting month.
- viii. 24-hour real time noise monitoring was conducted at RTN3 – Yu Lee Mo Fan Memorial School. No limit level exceedance was recorded in the reporting month.
- ix. 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

- x. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; 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.
- xi. Due to interruption of electricity supply, the 24hr TSP monitoring at CMA5b was rescheduled from 09 and 21 January 2016 to 11 and 22 January 2016 respectively
- xii. No action or limit level exceedance for TSP monitoring was recorded in the reporting month.

### Complaints, Notifications of Summons and Successful Prosecutions

- xiii. Three environmental complaints were received in the reporting month.
- xiv. First 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.

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.

- xv. Second public complaint 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 ICC 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 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 ICC complainant on 12 January 2016 (ICC Ref: #2-1759629742) reported that a foul sewer was found choking and foul water flows onto the carriageways.

ET confirmed with the Resident Site Staff that no discharge point from the Contractor of HY/2009/15 is located within the concern portion of public drain (roadside gully) along Hung Hing Road. The observed yellow pipe extending from the roadside gully at Hung Hing Road into the site area under Contract HY/2009/15 was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016.

According to relevant site records and information provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby. Based on relevant site information, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road while the observed yellow pipe extending from the roadside gully at Hung Hing Road into Contract HY/2009/15 site area was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016. In view of no discharge point established under Contractor HY/2009/15 was observed at the concerned portion of Hung Hing Road, no direct information indicating the association with the Contractor of 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.

- xvi. Third public complaint regarding the blockage of public drainage referred by EPD was received by ET on 22 January 2016 (EPD Case Ref.: H05/RS/00001524-16). The complainant reported that construction wastewater from the China State's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water starting from 11 January 2016.

ET confirmed with the Resident Site Staff that no construction activities with potential runoff at the main entrance of PRE Office was conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016. Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016.

Concreting for construction works at covered Tunnel by using concrete pump at TPCWAE was conducted under Contractor of HY/2009/15 on 13 January 2016 and 16 January 2016.

According to relevant site records and information 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.

- xvii. The final investigation report of the previous public complaint regarding illegal disposal of construction waste referred by EPD on 17 November 2015 was submitted to EPD on 05 February 2016 to conclude the construction waste disposal information and additional measures and inspection implemented by the Environmental Team and the CWB RSS team in response to the public concern and the respective findings.

#### Site Inspections and Audit

- xviii. 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.



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

### Future Key Issues

- xxii. In the 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

#### 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

- Stage 3 Backfilling works at CWB Tunnel top slab
- Construction of slip road 3
- Stage 4 demolition of the bulkhead wall and tunnel structure
- Removal of abandoned cooling main (P7/P9) at Convention Avenue
- Reinstatement of outfall
- Reinstatement of triangular planter at Fenwick Pier Street

#### 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

- Excavation of foundation level at east side
- Breaking through bulkhead wall BW3
- Pouring blinding layer concrete
- Tunnel construction at west side
- Waterproofing layer application
- Bored pile construction
- Pre-treatment works and guide wall construction for diaphragm wall
- Diaphragm wall construction

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

- Remedial works at Mined Tunnel
- RC structure works at TPCWAW
- Remaining works inside tunnel at TS4 and TPCWAE
- Removal of standby Dewatering System and monitoring instrument along Hung Hing road

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

- Pier construction for IEC
- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe

- Oil Street drainage works
- Excavation / Construction of retaining wall/Approach Ramp/ADB
- Bridge segment erections
- Pre-bored H-pile for Approach Ramp
- Hing Fat Street modification works
- Abutment D12 construction
- EVA Temporary works

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation

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,
- Sheet piling works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Diaphragm Wall, Barrette construction and king post installation works
- D-wall drill cutting 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-11/364/2009B

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



## 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/D 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-10/364/2009B and FEP-11/364/2009B 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/D, 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 and FEP-11/364/2009/B during the period [27 December 2015 to 26 January 2016](#).

### 1.2 Structure of the Report

**Section 1** *Introduction* – details the scope and structure of the report.

**Section 2** *Project Background* – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

**Section 3** *Status of Regulatory Compliance* – summarizes the status of valid Environmental Permits / Licenses during the reporting period.

**Section 4** *Monitoring Requirements* – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.

**Section 5** *Monitoring Results* – summarizes the monitoring results obtained in the reporting period.

**Section 6** *Compliance Audit* – summarizes the auditing of monitoring results, all exceedances environmental parameters.

**Section 7** *Cumulative Construction Impact due to the Concurrent Projects* –

summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

**Section 8**     ***Environmental Site Audit*** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

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

**Section 10**    ***Conclusion***

## 2 PROJECT BACKGROUND

### 2.1 Background

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

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

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

### 2.2 Scope of the Project and Site Description

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

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

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

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

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

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

### 2.3 Division of the Project Responsibility

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

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

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

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
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	3922 3388	3912 3010
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Manager	Mr. Simon Liu	2162 9909	2634 1626
		Site Agent	Mr. Andy Yu	9648 4896	
		Construction Manager	Mr. Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	





Party	Role	Post	Name	Contact No.	Contact Fax
		Construction Manager	Mr. Terry Tsang	6683 9394	
		Environmental Officer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Ms. Connie Chan	6157 7057	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Site Agent	Mr. K.K. Yuen	3658-3002	2827 9996
		Project Manager	Mr. Paul Yu	3658 3085	
		Environmental Officer	Mr. C.P. Ho	9191 8856	
Chun Wo - CRGL - MBEC_Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. David Lau	3758 8879	2570 8013
		Deputy Project Manager	Mr. William Luk	9456 9819	
		Deputy Site Agent	Eric Fong	6191 9337	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Environmental Engineer	Mr. Calvin Leung	9286 9208	
Leighton Contractors (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Jimmy Chu	2214 7700	2140 6799
		Deputy Site Agent	Mr. Bob Yeung	2214 7703	
		Environmental Officer	Mr. Chris Chan	2823 1161	
		Assistant Environmental Engineer	Mr. Christy So	3937 1065	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Mr. Chris Leung	3557 6393	2865 5229
		Site Manager	Mr. Y. Huo	3557 6368	2566 2192
		Contractor's Representative	Mr. Andrew Wong	3557 6371	
		Environmental Officer	Mr. Andy Mak	3557 6215	
		Environmental Supervisor	Mr. Harry Wong	3557 6348	
China State-Leader JV	Contractor under Contract no. HK/2012/08	Project Director	Mr. C.N. Lai	9137 1811	2877 1522
		Project Manager	Mr. Eddie Chung	9193 8871	
		Site Agent	Mr. Keith Tse	9095 7922	
		Environmental Officer	Mr. James MA	9130 9549	



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Supervisor	Mr. Y.L. Ho	6050 4919	
China State	Contractor under Contract no.HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Dr. Dave Chan	3467 4277	
		Environmental Officer	Mr. C.M. Wong	3557 6464	
		Environmental Supervisor	Mr. Louis Lam Tsz Kwan	3557 6470	
Leighton Joint Venture	Contractor under Contract no. HY/2011/08	Project Manager	Paul Evans	2823 1111	21406799
		Site Agent	Colman Wong	9730 0806	
		Environmental Officer	Malcom Leung	3973 0850	
		Environmental Supervisor	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
- Bridges construction

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

- Stage 3 Backfilling works at CWB Tunnel top slab
- Construction of slip road 3
- Stage 4 ELS works and tunnel structure works.
- Removal of abandoned cooling main (P7/P9) at Convention Avenue
- Reinstatement of outfall
- Reinstatement of triangular planter at Fenwick Pier Street
- Roadworks /drains for Expo Drive East

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

- Removal of stockpile of material, site clearance works at OHVD at Tunnel Portion 1.
- Construction of road side barriers
- Struts installation for layer S6
- Excavation for formation level
- Construction of blinding layer
- Breaking through bulkhead wall BW3
- Ground investigation works
- Bored pile construction
- Extraction of the temporary sheet pile seawall and removal of the temporary seawall blocks near the interface between Portion 2 and Portion 5
- Setting up of silo tanks, pre-treatment works for diaphragm wall construction
- Excavation at diaphragm wall panel

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

- Construction roadside barrier at Mined Tunnel
- Rock excavation at TPCWAW
- Demolition of bulkhead wall between TPCWAE and TPCWAW
- Construction RC structure at TPCWAW
- Remaining works inside tunnel at TS4 and TPCWAE
- Removal of standby Dewatering System and monitoring instrument along Hung Hing road

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

- Pier construction for IEC
- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe
- Oil Street drainage works
- Excavation / Construction of retaining wall/ADB
- Bridge segment erections
- Pre-bored H-pile for Approach Ramp
- Hing Fat Street modification works
- Bridge TA2 demolition
- Abutment D12 construction
- EVA Temporary works

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009B

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation

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

- Tree protection works next to existing BGO,
- Drainage improvement works,
- Sheet piling works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Diaphragm Wall, Barrette construction and king post installation works
- D-wall drill cutting 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-11/364/2009B

- Construction of Ventilation Buildings, inclusive of East Ventilation Shaft, West Ventilation Building
- Construction of Tunnel Thermal Barrier

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

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

- Stage 3 Backfilling works at CWB Tunnel top slab
- Construction of slip road 3
- Stage 4 demolition of the bulkhead wall and tunnel structure
- Removal of abandoned cooling main (P7/P9) at Convention Avenue
- Reinstatement of outfall
- Reinstatement of triangular planter at Fenwick Pier Street

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

- Excavation of foundation level at east side
- Breaking through bulkhead wall BW3
- Pouring blinding layer concrete
- Tunnel construction at west side
- Waterproofing layer application
- Bored pile construction
- Pre-treatment works and guide wall construction for diaphragm wall
- Diaphragm wall construction

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

- Remedial works at Mined Tunnel
- RC structure works at TPCWAW
- Remaining works inside tunnel at TS4 and TPCWAE
- Removal of standby Dewatering System and monitoring instrument along Hung Hing road

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

- Pier construction for IEC
- Construction of EVB
- Column modification at F1 to F8
- Watson Road laying of new water pipe
- Oil Street drainage works
- Excavation / Construction of retaining wall/Approach Ramp/ADB



- Bridge segment erections
- Pre-bored H-pile for Approach Ramp
- Hing Fat Street modification works
- Abutment D12 construction
- EVA Temporary works

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

- Grouting
- Construction of MVB
- Pre-bored H-pile construction
- Construction of concrete plug
- Excavation and lateral support installation

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,
- Sheet piling works,
- Excavation and Lateral Support for U-structure,
- Pipe piling & grouting works,
- Utility diversion works,
- Retaining wall works
- ELS works,
- Diaphragm Wall, Barrette construction and king post installation works
- D-wall drill cutting 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-11/364/2009B

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

### 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	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	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:

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

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

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

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

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

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

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

3.1.6. 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 Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0706-15	30 Jun 2015	02 Jul 2015 to 01 Jan 2016	Cancelled
	GW-RS0803-15	28 Jul 2015	21 Aug 2015 to 20 Feb 2016	Valid
	GW-RS0804-15	28 Jul 2015	22 Aug 2015 to 21 Feb 2016	Valid
	GW-RS0868-15	13 Aug 2015	14 Aug 2015 to 13 Feb 2016	Valid
	GW-RS1025-15	22 Sep 2015	24 Sep 2015 to 23 Mar 2016	Valid
	GW-RS1031-15	22 Sep 2015	29 Sep 2015 to 24 Mar 2016	Cancelled
	GW-RS1134-15	23 Oct 2015	08 Nov 2015 to 07 May 2016	Valid
	GW-RS1135-15	23 Oct 2015	26 Nov 2015 to 25 May 2016	Valid
	GW-RS1228-15	13 Nov 2015	16 Nov 2015 to 13 May 2016	Valid
	GW-RS1309-15	27 Nov 2015	30 Nov 2015 to 26 May 2016	Valid
	GW-RS1338-15	11 Dec 2015	01 Jan 2016 to 30 June 2016	Valid
	GW-RS0041-16	22 Jan 2016	25 Jan 2016 to 23 Jul 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Discharge Licence	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
	WT00021138-2015	17 Mar 2014	31 Mar 2020	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP_MD_16-018	02 Jun 2015	13 Oct 2015 to 12 Apr 2016	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 Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-pilling equipment	GW-RS0723-15	2 Jul 2015	7 July 2015 to 06 Jan 2016	Cancelled
	GW-RS0831-15	31 Jul 2015	03 Aug 2015 to 28 Jan 2016	Cancelled
	GW-RS0709-15	30 Jun 2015	02 July 2015 to 01 Jan 2016	Cancelled
	GW-RS0716-15	30 Jun 2015	04 July 2015 to 27 Dec 2015	Expired
	GW-RS0981-15	07 Sep 2015	09 Sep 2015 to 06 Mar 2016	Cancelled
	GW-RS1006-15	15 Sep 2015	18 Sep 2015 to 14 Mar 2016	Valid
	GW-RS1121-15	20 Oct 2015	22 Oct 2015 to 18 Apr 2016	Cancelled
	GW-RS1150-15	26 Oct 2015	28 Oct 2015 to 27 Apr 2016	Valid
	GW-RS1187-15	28 Oct 2015	30 Oct 2015 to 27 Apr 2016	Valid
	GW-RS1413-15	24 Dec 2015	02 Jan 2016 to 01 Jul 2016	Valid
	GW-RS1474-15	5/1/2016	08 Jan 2016 to 05 Apr 2016	Valid
Water Discharge License	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	01 Aug 2011	31 July 2016	Valid
	WT00022295-2015	12 Aug 2015	31 July 2020	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-034	26 Jun 2015	01 Jul 2015 to 31 Dec 2015	Expired
	EP/MD/16-146	24 Dec 2015	01 Jan 2016 to 30 Jun 2016	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

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

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
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0719-15	3 July 2015	06 Jul 2015 to 31 Dec 2015	Expired
	GW-RS0830-15	29 July 2014	30 Jul 2015 to 29 Jan 2016	Valid
	GW-RS1206-15	06 Nov 2015	12 Nov 2015 to 31 Mar 2016	Valid
	GW-RS1383-15	14 Dec 2015	19 Dec 2015 to 27 Mar 2016	Cancelled
	GW-RS1415-15	24 Dec 2015	01 Jan 2016 to 30 Jun 2016	Valid
	GW-RS0057-16	26 Jan 2016	27 Jan 2016 to 31 Mar 2016	Valid
Discharge Licenses	WT00012998-2012	25 May 2012	31 Jan 2016	Cancelled
	WT00013967-2012	17 Sep 2012	30 Sep 2017	Cancelled
	WT00014966-2013	08 Jan 2013	31 Jan 2018	Cancelled
	WT00020398-2014	21 Nov 2014	31 Jan 2016	Valid
	WT00020725-2015	14 Jan 2015	30 Jul 2017	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

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

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 Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS893-15	17 Aug 2015	17 Aug 2015 to 16 Feb 2016	Valid
	GW-RS0679-15	29 Jun 2015	1 Jul 2015 to 31 Dec 2015	Expired
	GW-RS0990-15	10 Sep 2015	10 Sep 2015 to 09 Mar 2016	Valid
	GW-RS1303-15	26 Nov 2015	26 Nov 2015 to 25 May 2016	Valid
	GW-RS1160-15	26 Oct 2015	28 Oct 2015 to 25 Apr 2016	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	27 Sep 2010 to 27 Jun 2016	Valid
Billing Account under Waste Disposal Ordinance (Disposal by Vessel)	7011761	26 Jun 2015	17 Oct 2015 to 17 Apr 2016	Valid
Water Discharge License (TS1)	WT00008780-2011	24 Nov 2011	24 Nov 2011 to 31 Mar 2016	Valid
Water Discharge License (Discharge at CHT area)	WT00019250-2014	6 Jun 2014	06 Jun 2014 to 31 May 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Water Discharge License (Discharge at TPCWAE)	WT00018167-2014	17 Jan 2014	17 Jan 2014 to 31 Dec 2015	Expired
Water Discharge License (Discharge at TS4)	WT00018542-2014	17 Mar 2014	17 Mar 2014 to 31 Jan 2016	Cancelled
Water Discharge Licence (Discharge at TPCWAW)	WT00020601-2014	18 Mar 2015	18 Mar 2015 to 31 Mar 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
	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

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

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 Permit	FEP-07/364/2009/A	25 Feb 2011	N/A	Superseded
	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
Construction Noise Permits (CNP) for non-piling equipment	GW-RS0741-15	10 Jul 2015	23 Jul 2015 to 22 Jan 2016	Cancelled
	GW-RS0869-15	13 Aug 2015	15 Aug 2015 to 12 Feb 2016	Valid
	GW-RS0909-15	21 Aug 2015	21 Aug 2015 to 20 Feb 2016	Valid
	GW-RS1036-15	22 Sep 2015	24 Sep 2015 to 23 Mar 2016	Cancelled
	GW-RS1324-15	01 Dec 2015	08 Dec 2015 to 07 Jun 2016	Valid
	GW-RS1398-15	17-Jun-15	18 Dec 2015 to 17 Jun 2016	Valid
Water Discharge License	WT00010093-2011	17 Aug 2012	30 Sep 2016	Valid
	WT00010865-2011	03 Nov 2011	30 Nov 2016	Cancelled
Dumping Permit (Approach Ramp) (Type 1 – Open Sea Disposal)	EP/MD/16-092	20 Nov 2015	15 May 2016	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.3)	19 August 2014
Condition 2.9	Noise Management Plan (Rev.4)	2 Feb 2015

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

3.1.11 The current status on licences and/or permits on environmental protection pertinent and submission under FEP-09/364/2009/B 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 March 2013	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	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0838-15	31 Jul 2015	03 Aug 2015 to 02 Feb 2016	Valid
	GW-RS0976-15	7 Sep 2015	23 Sep 2015 to 22 Mar 2016	Valid
Water Discharge Licence	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-09/364/2009/B**

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
	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
	WT00020468-2014	2014-12-03	2018-07-31	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0811-15	24 Jul 2015	29 Jul 2015 to 28 Jan 2016	Cancelled
	GW-RS0972-15	08 Sep 2015	09 Sep 2015 to 08 Mar 2016	Valid
	GW-RS0765-15	13 Jul 2015	13 July 2015 to 12 Jan 2016	Cancelled
	GW-RS0920-15	26 Aug 2015	28 Aug 2015 to 24 Feb 2016	Valid
	GW-RS0938-15	26 Aug 2015	28 Aug 2015 to 24 Feb 2016	Cancelled
	GW-RS1039-15	23 Sep 2015	23 Sep 2015 to 21 Mar 2016	Cancelled
	GW-RS1061-15	30 Sep 2015	02 Oct 2015 to 31 Mar 2016	Cancelled
	GW-RS1063-15	30 Sep 2015	02 Oct 2015 to 31 Mar 2016	Cancelled
	GW-RS1137-15	22 Oct 2015	22 Oct 2015 to 21 Apr 2016	Valid
	GW-RS1141-15	20 Oct 2015	22 Oct 2015 to 21 Apr 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1145-15	20 Oct 2015	22 Oct 2015 to 21 Apr 2016	Valid
	GW-RS1262-15	17 Nov 2015	18 Nov 2015 to 16 May 2016	Valid
	GW-RS1282-15	25 Nov 2015	25 Nov 2015 to 24 May 2016	Valid
	GW-RS0001-16	06 Jan 2016	06 Jan 2016 to 05 Jun 2016	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/B

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	N/A	Valid
Notification of Works Under APCO	LCAC-EN-LE-00017	7 Mar 2014	N/A	Valid
Registration as a Chemical Waste Producer	5213-121-L2837-01	21 May 2014	N/A	Valid
	5213-151-L2837-02	09 Oct 2015	N/A	Registered
	5213-134-L2898-01	16 Nov 2015	N/A	Registered
Billing Account under Waste Disposal Ordinance	7019640	27 Mar 2014	N/A	Valid
Construction Noise Permit	GW-RS0738-15	06 July 2015	07 July 2015 to 31 Dec 2015	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
(CNP) for non-piling equipment	GW-RS0758-15	07 July 2015	08 July 2015 to 31 Dec 2015	Expired
	GW-RS0856-15	10 Aug 2015	27 Aug 2015 to 26 Feb 2016	Valid
	GW-RS1235-15	12 Nov 2015	18 Nov 2015 to 30 Apr 2016	Valid
	GW-RS1423-15	24 Dec 2015	26 Dec 2015 to 31 May 2016	Valid
	GW-RS1426-15	29 Dec 2015	01 Jan 2016 to 30 Jun 2016	Valid
	GW-RS1433-15	29 Dec 2015	01 Jan 2016 to 30 Jun 2016	Valid
Water Discharge Licence	WT00020242-2014	04 Nov 2014	30 Nov 2019	Valid
	WT00020246-2015	15 Jul 2015	31 Jul 2019	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev.2)	27 Jan 2015
Condition 2.14	Landscape Plan (Rev.2)	18 Feb 2015
Condition 2.13	Operational Air Quality Management Plan for West Ventilation Building (Rev.0)	25 Nov 2014
Condition 2.13	Operational Air Quality Management Plan for East Ventilation Building and East Vent Shaft (Rev.0)	18 Feb 2015

## 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	Harbour Road Sports Centre
M2b	Noon-day Gun Area
M3a	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 1: Location ID has been updated from M7 to M8 for City Hall

\* Remark 2: M7e has become a reference station starting from 7 Aug 2012

#### REAL TIME NOISE MONITORING STATIONS

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

**Table 4.2 Real Time Noise Monitoring Stations**

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



### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

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

### MONITORING EQUIPMENT

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

**4.2 Air Quality Monitoring**

AIR QUALITY MONITORING STATIONS

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

**Table 4.3 Air Quality Monitoring Stations**

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

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.

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

AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days should be undertaken when the highest dust impact occurs.

## SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

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

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

## LABORATORY MEASUREMENT / ANALYSIS

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

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

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

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

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

## 5.0 MONITORING RESULTS

5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in **Figure 2.1** and **Figure 4.1**. The monitoring results are presented in according to the Individual Contract(s).

5.0.2. In the reporting 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

\* 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 **Appendix 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	Harbour Road Sports Centre

5.1.6 Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 12 and 19 January 2016 in this reporting month.

5.1.7 Breaking and piling works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 12 and 19 January 2016. As such, the exceedance was considered as non-Project related.

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

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

5.1.9 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
M3a	Tung Lo Wan Fire Station

5.1.10 No action or limit level exceedance was recorded in this reporting month.

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

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

5.1.12 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

5.1.13 No action or limit level exceedance was recorded in this reporting month.

5.1.14 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in **Appendix 5.2**. Details of the Notification of Exceedance can be referred in **Appendix 6.2**.

Contract no. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Raod 8 Section) under FEP-09/364/2009/B

5.1.15 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
M3a	Tung Lo Wan Fire Station

5.1.16 No action or limit level exceedance was recorded in this reporting month.

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

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

5.1.18 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

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

5.1.19 No action or limit level exceedance was recorded in this reporting month.

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

## **5.2 Real Time Noise Monitoring Results**

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



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

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

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

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

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

5.2.6. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.

5.2.7. No limit level exceedance was recorded at RTN2a-Hong Kong Electric Centre in the reporting month.

5.2.8. No limit level exceedances were recorded at RTN3-Yue Lee Mo Fan Memorial School in the reporting month.

5.2.9. No limit level exceedances were recorded at RTN4-Causeway Bay Community Centre in the reporting month.

5.2.10. 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

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

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

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitfield Depot

\* 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.



5.2.12. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.

**5.3 Air Quality Monitoring Results**

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

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 **Appendix 5.3**.

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**.

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

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**.

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

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	Oil Street Site Office
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/C 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 **Appendix 5.3**.

Contract no. HY/2010/08 – Central-Wanchai Bypass –Wanchai Bypass Tunnel (Slip Road 8 Section) under FEP-09/364/2009/B

- 5.3.19 The commencement of construction works for Contract no. HY/2010/08 under FEP-09/364/2009/B 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. 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. HY/2011/08 – Central - Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning

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

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

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

5.3.22 No exceedance was recorded in the reporting month.

5.3.23 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, m <sup>3</sup>	Nil	106130.58	TKO137, TM38
Inert C&D materials recycled, m <sup>3</sup>	442.5	98052.53	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	286.96	4015.16	SENT Landfill
Non-inert C&D materials recycled, kg	30090	1095856	N/A
Chemical waste disposed, kg	Nil	10400	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	1152.0	11527	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	Nil	16261	East of Cha Chau South Brothers

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

5.4.2. 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, m <sup>3</sup>	3559	459897.412	TKO137 / TM 38
Inert C&D materials recycled, m <sup>3</sup>	Nil	46520	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	73	2326.317	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	Nil	N/A	N/A
Chemical waste disposed, kg	Nil	18253	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	Nil	27889	South Cheung Chau

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

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, m <sup>3</sup>	1478.76	137018.12	T.K.O. 137, TM 38
Inert C&D materials recycled, m <sup>3</sup>	Nil	58787.05	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	93.72	3923.03	SENT Landfill
Non-inert C&D materials recycled, ton	Nil	878.37	N/A
Chemical waste disposed, kg	Nil	4440	N/A

Remarks: The cumulative amount of inert C&D material disposed and the cumulative amount of non-inert C&D material disposed has been clarified by the Contractor in the reporting period.



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

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 disposed, m <sup>3</sup>	1142.6 10.6	619698.07 251295.3	Tuen Mun Area 38 TKO137 FB
Inert C&D materials recycled, m <sup>3</sup>	Nil	358660.77	HY/2009/11 ex-PCWA TS4 /TS2 WDII Lun Ku Tan WENT
Non-inert C&D materials disposed, m <sup>3</sup>	115.48	3700.61	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	Nil	5496446.2	Xun Xiang Metalware Skylight Recycle (paper)
Chemical waste disposed, kg	Nil	22755	Dunwell Group
Marine Sediment (Type1-Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	Nil	5684	South of the Brothers

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

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>	5057.96	636878.47	N/A
Inert C&D materials recycled, <b>ton</b>	Nil	81822.39	N/A
Non-inert C&D materials disposed, <b>ton</b>	100.79	4239.41	SENT Landfill
Non-inert C&D materials recycled, <b>ton</b>	25.58	508.21	N/A
Chemical waste disposed, <b>kg</b>	Nil	9.69	N/A
Marine Sediment (Tunnel) (Type-1 Open Sea Disposal), <b>m<sup>3</sup></b>	Nil	20556	South of Cheung Chau
Marine Sediment (Tunnel) (Type 1- Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal), <b>m<sup>3</sup></b>	Nil	30751	East of Sha Chau

Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

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 disposed, <b>m<sup>3</sup></b>	13384	127498	TKO 137
Inert C&D materials recycled, <b>m<sup>3</sup></b>	847	36954	N/A
Non-inert C&D materials disposed, <b>m<sup>3</sup></b>	65	1005	SENT
Non-inert C&D materials recycled, <b>m<sup>3</sup></b>	Nil	Nil	N/A
Chemical waste disposed, <b>kg</b>	Nil	Nil	N/A
Marine sediment (Type 1) disposal, <b>m<sup>3</sup></b>	Nil	3145	South of Cheung Chau / East of Sha Chau / South of The Brothers

C

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

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
Inert C&D materials disposed, m <sup>3</sup>	41925	435174	TM 38
	19658	37272.5	WENT
	Nil	10452	SENT
	47	455	TKO area 137
Inert C&D materials recycled, m <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	104	1482	SENT
Non-inert C&D materials recycled, m <sup>3</sup>	Nil	Nil	N/A
Chemical waste disposed, kg	Nil	979	N/A

Remarks: The cumulative quantity for non-inert C&D material disposed and inert C&D materials disposed and the non-inert C&D material recycled under Contract HY/2010/08 has been clarified by the RSS 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-11/364/2009B

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, m <sup>3</sup>	22.26	354.13	CWPF & TKO137
Inert C&D materials recycled, m <sup>3</sup>	Nil	Nil	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	49.52	531.75	SENT
Non-inert C&D materials recycled, ton	Nil	31.72	N/A
Chemical waste disposed, kg	Nil	3800	N/A

Remarks: The cumulative amount of inert C&D material disposed and the cumulative amount of non-inert C&D material disposed has been clarified by the Contractor in the reporting period.

## 6.0 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. Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 12 and 19 January 2016 in this reporting month.

6.1.3. Breaking and piling works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 12 and 19 January 2016. As such, the exceedance was considered as non-Project related.

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

6.1.4. Two limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 12 and 19 January 2016 in this reporting month.

6.1.5. Breaking and piling works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 12 and 19 January 2016. As such, the exceedance was considered as non-Project related.

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

6.1.6. No exceedance was recorded in the reporting month.

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

6.1.7. No exceedance was recorded in the reporting month.

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

6.1.8. No exceedance was recorded in the reporting month.



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

6.1.9. No exceedance was recorded in the reporting month.

### Real Time Noise Monitoring

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

- 6.1.10. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.
- 6.1.11. No limit level exceedance was recorded at RTN2a-Hong Kong Electric Centre in the reporting month.
- 6.1.12. No limit level exceedances were recorded at RTN3-Yue Lee Mo Fan Memorial School in the reporting month.
- 6.1.13. No limit level exceedances were recorded at RTN4-Causeway Bay Community Centre 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-11/364/2009B

- 6.1.14. No limit level exceedance was recorded at RTN1-FEHD Hong Kong Transport Section Whitfield Depot in the reporting month.

### 6.2 Air Quality Monitoring

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

- 6.2.1. 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 and Exhibition Centre – Tunnel Works under FEP-02/364/2009

- 6.2.2. No exceedance was recorded in the reporting month.

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

- 6.2.3. No exceedance was recorded in the reporting month.

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

- 6.2.4. No exceedance was recorded in the reporting month.

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

- 6.2.5. No exceedance was recorded in the reporting month.

Contract no. HK/2012/08 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai West under FEP-09/364/2009/B

6.2.6. No exceedance was recorded in the reporting month.

Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Road 8 Section) under 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-11/364/2009B

6.2.1 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 and monitoring in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

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

6.4.1 There was no particular action taken since no non-compliance was recorded from the site audits and monitoring in the reporting period.

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

- 7.0.1. According to Condition 3.4 of the EP-364/2009/C, 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 caisson seawall installation, ELS works, road works and drainage works and Road P1 pedestrian road reinstatement were performed in January 2016 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 tunnel works, ELS works and road works at Wan Chai East and caisson installation, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, Tunnel works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park; D- wall construction, ELS works and tunnel works at TS3; IEC removal works, piling and tunnel works 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 area.
- 7.0.5. No significant air quality impact from construction activities was anticipated 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.



**8.0 ENVIRONMENTAL 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. No non-conformance was identified during the site inspections.

8.0.2. Five site inspections for Contract no. HY/2009/15 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.1**.

**Table 8.1 Summary of Environmental Inspections for Contract no. HY/2009/15**

Item	Date	Observations	Action taken by Contractor	Completion date
160112_1	12-Jan-2016	Cleared the leaked oil from PME as chemical waste (EX-PCWA)	Leaked oil was cleared as chemical waste.	Completed as observed on 12 Jan 2016

8.0.3. Four site inspections for Contract no. HY/2009/18 was carried out during this reporting period. No observation was found in the reporting month.

8.0.4. Four site inspections for Contract no. HY/2009/19 was carried out during this reporting period. No observation was found in the reporting month.

8.0.5. Four 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. Four site inspections for Contract no. HK/2009/02 was 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
151231_01	31-Dec-15	Hole of drip tray shall be covered at Portion 5.	The hole of drip tray was covered at Portion 5.	Completion as observed on 7 January 2016
160107_1	7-Jan-16	Drip tray shall be provided to oil containers at Portion 5.	Drip tray was provided for oil container.	Completion as observed on 14 January 2016
160114_01	14-Jan-16	Drip tray shall be provided for oil containers at Portion 5.	Drip tray was provided for oil containers at Portion 5.	Completion as observed on 19 January 2016

8.0.7. Five site inspection for Contract no. HK/2012/08 was 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
151229_01	29-Dec-15	Breaker shall be covered with acoustic material at Zone CE	Breaker was covered with acoustic material at Zone CE.	Completion as observed on 5 January 2016

8.0.8. Six site inspections for Contract no. HY/2010/08 was 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
151229_1	29-Dec-15	Drip tray shall be provided to oil container (TS3 North)	Oil container was removed	Completion as observed on 31 December 2015
151231_1	31-Dec-15	The wastewater treatment plant shall be critically review to avoid milky discharge (Victoria Park)	No further milky discharge was observed	Completion as observed on 8 January 2016
151231_2	31-Dec-15	Either exemption / approved of NRMM shall be provided for mechanical equipment deployed on-site (Victoria Park Road)	NRMM label was provided for the mechanical equipment	Completion as observed on 8 January 2016
160112_1	12-Jan-16	Cleaning the floating refuses and grease around the intake location (TS3 West)	Floating refuses and grease around the intake location was cleaned	Completion as observed on 13 January 2016
160112_2	12-Jan-16	NRMM label shall be provide for PME deployed on-site (TS3 North)	The concerned PME on site has been removed	Completion as observed on 20 January 2016
160112_3	12-Jan-16	Covering shall be provided for cement bags stored on-site (TS3)	Cement bags stored on-site was removed	Completion as observed on 13 January 2016
160113_1	13-Jan-16	Drip tray shall be provide to oil containers and leaked oil shall be cleaned (TS3 North)	Oil container was removed	Completion as observed on 27 January 2016
160120_1	20-Jan-16	Critical review the operation of waste water treatment plant to avoid potential turbid discharge (TS3 North)	No further turbid discharge was observed	Completion as observed on 27 January 2016



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

## 9.0 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.0.1. Three environmental complaints were received in the reporting month.

9.0.2. First 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.

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.

9.0.3. Second public complaint 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 ICC 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 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 ICC complainant on 12 January 2016 (ICC Ref: #2-1759629742) reported that a foul sewer was found choking and foul water flows onto the carriageways.

ET confirmed with the Resident Site Staff that no discharge point from the Contractor of HY/2009/15 is located within the concern portion of public drain (roadside gully) along Hung Hing Road. The observed yellow pipe extending from the roadside gully at Hung Hing Road into the site area under Contract HY/2009/15 was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016.

According to relevant site records and information provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby.

Based on relevant site information, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road while the observed yellow pipe extending from the roadside gully at Hung Hing Road into Contract HY/2009/15 site area was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016. In view of no discharge point established under Contractor HY/2009/15 was observed at the concerned portion of Hung Hing Road, no direct information indicating the association with the Contractor of 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.

- 9.0.4. Third public complaint regarding the blockage of public drainage referred by EPD was received by ET on 22 January 2016 (EPD Case Ref.: H05/RS/00001524-16). The complainant reported that construction wastewater from the China State's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water starting from 11 January 2016.

ET confirmed with the Resident Site Staff that no construction activities with potential runoff at the main entrance of PRE Office was conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016. Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016.

Concreting for construction works at covered Tunnel by using concrete pump at TPCWAE was conducted under Contractor of HY/2009/15 on 13 January 2016 and 16 January 2016.

According to relevant site records and information 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.

- 9.0.5. The final investigation report of the previous public complaint regarding illegal disposal of construction waste referred by EPD on 17 November 2015 was submitted to EPD on 05 February 2016 to conclude the construction waste disposal information and additional measures and inspection implemented by the Environmental Team and the CWB RSS team in response to the public concern and the respective findings.
- 9.0.6. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.7. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 9.1** and **Table 9.2** respectively.

**Table 9.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
January 2016	3
September 2010 – December 2015	53
<b>Total</b>	<b>56</b>

**Table 9.2 Cumulative Statistics on Successful Prosecutions**

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

**10 CONCLUSION**

10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in **Table 10.1**. The construction programmes of individual contracts are provided in [Appendix 10.1](#).

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	<ul style="list-style-type: none"> <li>• Remedial works at Mined Tunnel</li> <li>• RC structure works at TPCWAW</li> <li>• Remaining works inside tunnel at TS4 and TPCWAE</li> <li>• Removal of standby Dewatering System and monitoring instrument along Hung Hing road</li> </ul>	<ul style="list-style-type: none"> <li>• Dust control during dust generating activities</li> <li>• Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the nearby water.</li> </ul>
HY/2009/18	<ul style="list-style-type: none"> <li>• Drainage works</li> <li>• Road works</li> <li>• Landscaping works</li> </ul>	<ul style="list-style-type: none"> <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>

<p>HY/2009/19</p>	<ul style="list-style-type: none"> <li>• Pier construction for IEC</li> <li>• Construction of EVB</li> <li>• Column modification at F1 to F8</li> <li>• Watson Road laying of new water pipe</li> <li>• Oil Street drainage works</li> <li>• Excavation / Construction of retaining wall/Approach Ramp/ADB</li> <li>• Bridge segment erections</li> <li>• Pre-bored H-pile for Approach Ramp</li> <li>• Hing Fat Street modification works</li> <li>• Abutment D12 construction</li> <li>• EVA Temporary works</li> </ul>	<ul style="list-style-type: none"> <li>• Noise level shall be controlled by reducing the breaking operation rate.</li> <li>• Noise barrier shall be implemented</li> <li>• Dust control during dust generating works</li> <li>• Provide protection works and adequate drainage system to ensure no direct discharge into public drainage system or the sea.</li> </ul>
<p>HK/2009/01</p>	<ul style="list-style-type: none"> <li>• Stage 3 Backfilling works at CWB Tunnel top slab</li> <li>• Construction of slip road 3</li> <li>• Stage 4 demolition of the bulkhead wall and tunnel structure</li> <li>• Removal of abandoned cooling main (P7/P9) at Convention Avenue</li> <li>• Reinstatement of outfall</li> <li>• Reinstatement of triangular planter at Fenwick Pier Street</li> </ul>	<ul style="list-style-type: none"> <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> </ul>
<p>HK/2009/02</p>	<ul style="list-style-type: none"> <li>• Excavation of foundation level at east side</li> <li>• Breaking through bulkhead wall BW3</li> <li>• Pouring blinding layer concrete</li> <li>• Tunnel construction at west side</li> <li>• Waterproofing layer application</li> <li>• Bored pile construction</li> <li>• Pre-treatment works and guide wall construction for diaphragm wall</li> <li>• Diaphragm wall construction</li> </ul>	<ul style="list-style-type: none"> <li>• Dust control during dust generating works</li> <li>• Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>



HK/2012/08	<ul style="list-style-type: none"> <li>• Grouting</li> <li>• Construction of MVB</li> <li>• Pre-bored H-pile construction</li> <li>• Construction of concrete plug</li> <li>• Excavation and lateral support installation</li> </ul>	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>• Tree protection works next to existing BGO,</li> <li>• Drainage improvement works,</li> <li>• Sheet piling works,</li> <li>• Excavation and Lateral Support for U-structure,</li> <li>• Pipe piling &amp; grouting works,</li> <li>• Utility diversion works,</li> <li>• Retaining wall works</li> <li>• ELS works,</li> <li>• Diaphragm Wall, Barrette construction and king post installation works</li> <li>• D-wall drill cutting works</li> <li>• Construction works for subway extension</li> </ul>	<ul style="list-style-type: none"> <li>• Dust control during dust generating works</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 style="list-style-type: none"> <li>• Construction of Ventilation Buildings, inclusive of East Ventilation Shaft/Building, West Ventilation Building</li> <li>• Construction of Tunnel Thermal Barrier</li> <li>• Installation of Electricals and Mechanicals</li> </ul>	<ul style="list-style-type: none"> <li>• Dust control during dust generating works</li> </ul>

10.0.3. The construction works of Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A was completed, and the FEP was surrendered by the Contractor on 11 February 2011.

10.0.4. The construction works of Contract no. HY/2009/17 - Advance piling works at Whitfield Depot under FEP-03/264/2009 was completed, and the FEP was surrendered by the Contractor and found in order by EPD on 25 April 2013.

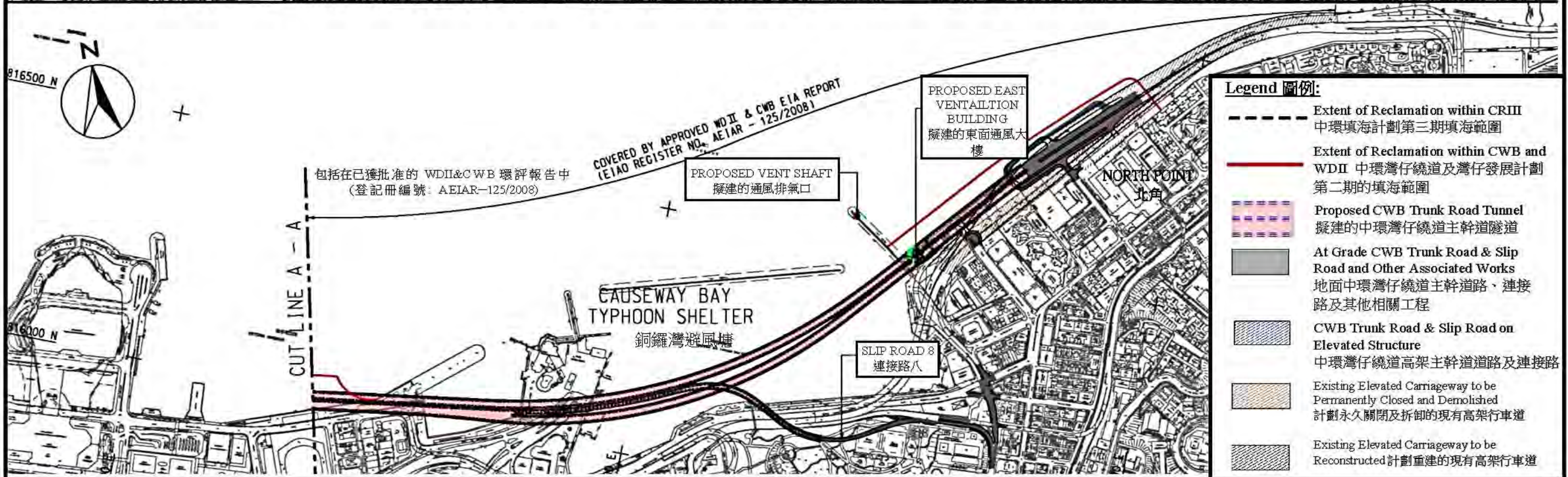
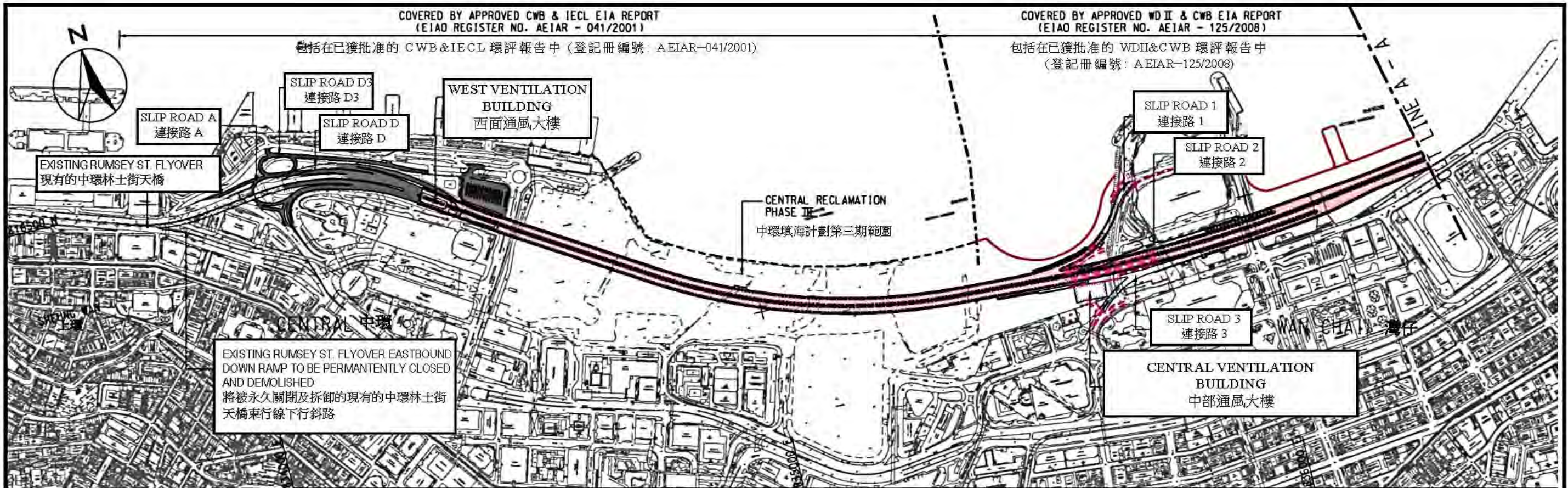
10.0.5. The construction works of Contract HK/2010/06 was completed, and the FEP-08/364/2009/A was surrendered by the Contractor on 3 October 2014.



***Figure 2.1***

***Project Layout***





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

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

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

(This figure was prepared based on Figure 1.1 of the Application for Environmental Permit (Application No.: AEP-364/2009))  
(本圖是根據環境許可證的申請(申請書編號 AEP-364/2009 圖 1.1 編製))



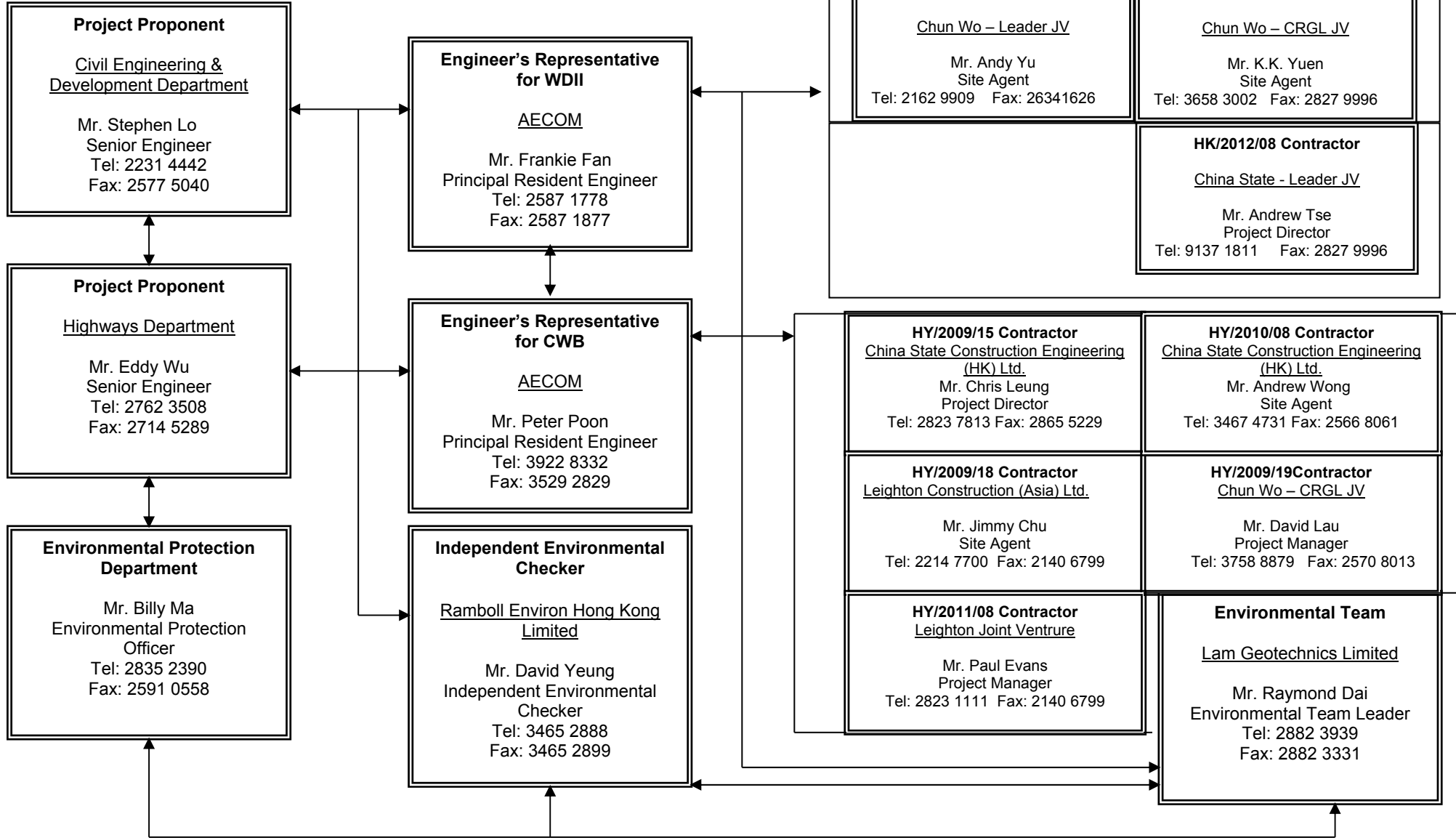


***Figure 2.2***

***Project Organization Chart***



**Project Organization Chart**



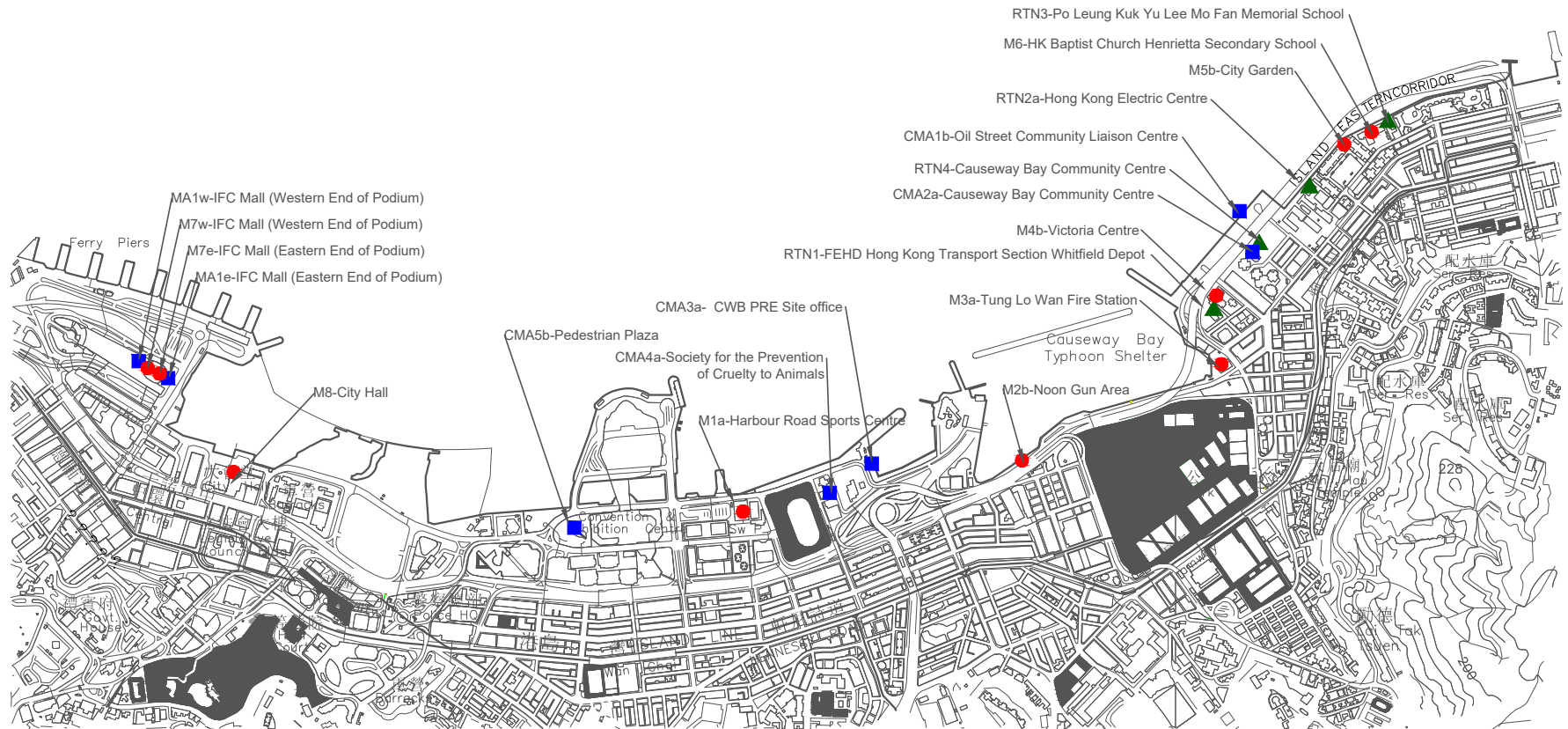


***Figure 4.1***

***Locations of Monitoring Stations***

### Legend

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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



***Appendix 4.1***

***Action and Limit Level***

**Action and Limit Level**

*Action and Limit Level for Noise Monitoring*

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

Note 1:

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

*Action and Limit Level for Air Monitoring*

Monitoring Location	1-hour TSP Level in $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
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***



## CERTIFICATE OF CALIBRATION

Certificate No.: 15CA1203 04-01 Page 1 of 2

### Item tested

Description:	Sound Level Meter (Type 1)	Microphone
Manufacturer:	B & K	B & K
Type/Model No.:	2236	4188
Serial/Equipment No.:	2100736	2288941
Adaptors used:	-	-

### Item submitted by

Customer Name: Lam Geotechnics Limited  
Address of Customer: -  
Request No.: -  
Date of receipt: 03-Dec-2015

Date of test: 04-Dec-2015

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	19-Jun-2016	CIGISMEC
Signal generator	DS 360	33873	16-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI

### Ambient conditions

Temperature:  $22 \pm 1$  °C  
Relative humidity:  $50 \pm 10$  %  
Air pressure:  $1010 \pm 10$  hPa

### Test specifications

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

Date: 05-Dec-2015

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.



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 15CA1203 04-01 Page 2 of 2

### 1. Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	2.1
	C	Pass	1.0	
	Lin	Pass	2.0	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	2.2
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	A	Pass	0.3	
	C	Pass	0.3	
Frequency weightings	Lin	Pass	0.3	
	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
	R.M.S. accuracy	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

### 2. Acoustic tests


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


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

### 3. Response to associated sound calibrator

N/A

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

Calibrated by:  - End -  
Date: 04-Dec-2015

Checked by:   
Date: 05-Dec-2015

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.





## CERTIFICATE OF CALIBRATION

Certificate No.: 15CA0528 04-03

Page: 1 of 2

### Item tested

Description: Acoustical Calibrator (Class 1)  
Manufacturer: Rion Co., Ltd.  
Type/Model No.: NC-73  
Serial/Equipment No.: 10465798  
Adaptors used: -

### Item submitted by

Customer: Lam Geotechnics Ltd.  
Address of Customer: -  
Request No.: -  
Date of receipt: 28-May-2015

Date of test: 30-May-2015

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

### Ambient conditions

Temperature:  $21 \pm 1$  °C  
Relative humidity:  $60 \pm 10$  %  
Air pressure:  $1000 \pm 5$  hPa

### Test specifications

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

### Test results

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.

Approved Signatory:

  
Huang Jian Min/Feng Jun Qi

Date: 01-Jun-2015

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.







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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jun 30, 2015 Rootmeter S/N 0438320 Ta (K) - 296  
 Operator Tisch Orifice I.D. - 0005 Pa (mm) - 749.3

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3930	3.2	2.00
2	NA	NA	1.00	0.9800	6.4	4.00
3	NA	NA	1.00	0.8790	7.9	5.00
4	NA	NA	1.00	0.8350	8.7	5.50
5	NA	NA	1.00	0.6900	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9883	0.7095	1.4090	0.9957	0.7148	0.8889
0.9841	1.0042	1.9926	0.9915	1.0117	1.2570
0.9820	1.1172	2.2278	0.9894	1.1256	1.4054
0.9810	1.1749	2.3365	0.9884	1.1837	1.4740
0.9757	1.4141	2.8179	0.9830	1.4247	1.7777
Qstd slope (m) = 2.00072			Qa slope (m) = 1.25282		
intercept (b) = -0.01209			intercept (b) = -0.00763		
coefficient (r) = 0.99995			coefficient (r) = 0.99995		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/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}



Lam Geotechnics Limited

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

Location : CMA1b  
 Equipment no. : EL452  
 Calibration Date : 30-Nov-15  
 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072	Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$\left( \frac{H \times P_a}{1013.3 \times 298 / T_a} \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7656	58	58.4579
2	4.8	4.8	9.6	1.5669	52	52.4105
3	3.7	3.7	7.4	1.3764	44	44.3474
4	2.4	2.4	4.8	1.1097	36	36.2842
5	1.5	1.5	3.0	0.8786	24	24.1895

By Linear Regression of Y on X

Slope, m = 37.9882      Intercept, b = -7.7457

Correlation Coefficient\* = 0.9953

Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au      Checked by : Derek Lo  
 Date : 30-Nov-15      Date : 30-Nov-15



Lam Geotechnics Limited

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

Location : CMA2a Calibration Date : 30-Nov-15  
 Equipment no. : EL449 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072
		Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	30-Jun-16		

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.7	6.7	13.4	1.8501	62	62.4895
2	5.3	5.3	10.6	1.6462	55	55.4342
3	4.1	4.1	8.2	1.4486	48	48.3789
4	2.7	2.7	5.4	1.1767	38	38.3000
5	1.6	1.6	3.2	0.9072	30	30.2368

By Linear Regression of Y on X

Slope, m = 34.6157 Intercept, b = -1.6936  
 Correlation Coefficient\* = 0.9994  
 Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au Checked by : Derek Lo  
 Date : 30-Nov-15 Date : 30-Nov-15





Lam Geotechnics Limited

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

Location : CMA4a  
 Equipment no. : EL390

Calibration Date : 30-Nov-15  
 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072	Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$\left( \frac{H \times P_a}{1013.3 \times 298 / T_a} \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.4	6.4	12.8	1.8084	58	58.4579
2	5.1	5.1	10.2	1.6149	52	52.4105
3	3.9	3.9	7.8	1.4130	46	46.3632
4	2.6	2.6	5.2	1.1548	34	34.2684
5	1.6	1.6	3.2	0.9072	24	24.1895

By Linear Regression of Y on X

Slope, m = 38.5259      Intercept, b = -10.0149  
 Correlation Coefficient\* = 0.9962  
 Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au  
 Date : 30-Nov-15

Checked by : Derek Lo  
 Date : 30-Nov-15



Lam Geotechnics Limited

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

Location : CMA5b  
 Equipment no. : EL222

Calibration Date : 30-Nov-15  
 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072	Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	5.2	5.2	10.4	1.6306	62	62.4895
2	4.3	4.3	8.6	1.4834	58	58.4579
3	3.3	3.3	6.6	1.3002	53	53.4184
4	2.0	2.0	4.0	1.0136	46	46.3632
5	1.3	1.3	2.6	0.8183	38	38.3000

By Linear Regression of Y on X

Slope, m = 28.8602      Intercept, b = 15.7526  
 Correlation Coefficient\* = 0.9958  
 Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au  
 Date : 30-Nov-15

Checked by : Derek Lo  
 Date : 30-Nov-15



Lam Geotechnics Limited

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

Location : CMA6a  
 Equipment no. : EL448  
 Calibration Date : 30-Nov-15  
 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072	Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$\left( \frac{H \times P_a}{1013.3 \times 298 / T_a} \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC <small>(W(P<sub>a</sub>/1013.3x298/T<sub>a</sub>)<sup>1/2</sup>/35.31)</small> Y-axis
	(up)	(down)	(difference)			
1	6.6	6.6	13.2	1.8363	60	60.4737
2	5.3	5.3	10.6	1.6462	54	54.4263
3	4.5	4.5	9.0	1.5173	50	50.3947
4	2.6	2.6	5.2	1.1548	40	40.3158
5	1.5	1.5	3.0	0.8786	30	30.2368

By Linear Regression of Y on X

Slope, m = 30.9785      Intercept, b = 3.5936

Correlation Coefficient\* = 0.9989

Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au      Checked by : Derek Lo  
 Date : 30-Nov-15      Date : 30-Nov-15





Lam Geotechnics Limited

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

Location : MA1e Calibration Date : 30-Nov-15  
 Equipment no. : EL455 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072
		Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$\left( H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	30-Jun-16		

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7800	59	59.4658
2	5.4	5.4	10.8	1.6616	50	50.3947
3	4.0	4.0	8.0	1.4309	44	44.3474
4	2.5	2.5	5.0	1.1325	30	30.2368
5	1.5	1.5	3.0	0.8786	20	20.1579

By Linear Regression of Y on X

Slope, m = 42.0478 Intercept, b = -16.9673  
 Correlation Coefficient\* = 0.9948  
 Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au Checked by : Derek Lo  
 Date : 30-Nov-15 Date : 30-Nov-15



Lam Geotechnics Limited

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

Location : MA1w Calibration Date : 30-Nov-15  
 Equipment no. : EL080 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072
		Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$\left( \frac{H \times P_a}{1013.3 \times 298 / T_a} \right)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	30-Jun-16		

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis
	(up)	(down)	(difference)			
1	6.5	6.5	13.0	1.8224	58	58.4579
2	5.2	5.2	10.4	1.6306	50	50.3947
3	4.0	4.0	8.0	1.4309	42	42.3316
4	2.5	2.5	5.0	1.1325	31	31.2447
5	1.5	1.5	3.0	0.8786	24	24.1895

By Linear Regression of Y on X

Slope, m = 36.5827 Intercept, b = -9.1241  
 Correlation Coefficient\* = 0.9973  
 Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au Checked by : Derek Lo  
 Date : 30-Nov-15 Date : 30-Nov-15



Lam Geotechnics Limited

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

Location : ACL1 Calibration Date : 30-Nov-15  
 Equipment no. : EL380 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072
		Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$\left( H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	30-Jun-16		

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.9	6.9	13.8	1.8775	56	56.4421
2	5.5	5.5	11.0	1.6768	50	50.3947
3	4.4	4.4	8.8	1.5005	46	46.3632
4	2.8	2.8	5.6	1.1982	38	38.3000
5	1.7	1.7	3.4	0.9349	30	30.2368

By Linear Regression of Y on X

Slope, m = 27.3339 Intercept, b = 5.0529  
 Correlation Coefficient\* = 0.9991  
 Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au Checked by : Derek Lo  
 Date : 30-Nov-15 Date : 30-Nov-15



Lam Geotechnics Limited

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

Location : ACL2a Calibration Date : 30-Nov-15  
 Equipment no. : EL111 Calibration Due Date : 30-Jan-16

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, T <sub>a</sub>	295	Kelvin	Pressure, P <sub>a</sub>
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m <sub>c</sub>	2.00072	Intercept, b <sub>c</sub>	-0.01209
Last Calibration Date	30-Jun-15	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	30-Jun-16				

Calibration of TSP						
Calibration Point	Manometer Reading			Q <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7800	63	63.4974
2	4.9	4.9	9.8	1.5831	56	56.4421
3	3.8	3.8	7.6	1.3948	50	50.3947
4	2.4	2.4	4.8	1.1097	42	42.3316
5	1.4	1.4	2.8	0.8490	30	30.2368

By Linear Regression of Y on X

Slope, m = 34.5978 Intercept, b = 2.1043

Correlation Coefficient\* = 0.9961

Calibration Accepted = Yes/No\*\*

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

\*\* Delete as appropriate.

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

Calibrated by : Kit Au Checked by : Derek Lo  
 Date : 30-Nov-15 Date : 30-Nov-15



***Appendix 5.1***

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

Contract No. HK/2015/01  
Wan Chai Development Phase II and Central-Wan Chai Bypass  
Sampling, Field Measurement and Testing Works (Stage 3)  
Environmental Monitoring Schedule  
January 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	1-Jan	2-Jan
	Noise (daytime) (M3a, M4b)	24hr TSP Noise (daytime) (M1a, M2b, M5b, M6, M7e, M7w, M8)	1hr TSP			
3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan
	24hr TSP Noise (daytime) (M3a, M4b, M5b, M6)	1hr TSP Noise (daytime) (M7e, M7w, M8)	Noise (daytime) (M1a, M2b)			24hr TSP
10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan
	24hr TSP (CMA5b) 1hr TSP Noise (daytime) (M7e, M7w, M8)	Noise (daytime) (M1a, M2b, M3a, M4b, M5, M6)			24hr TSP	1hr TSP
17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
		Noise (daytime)		24hr TSP	1hr TSP 24hr TSP (CMA5b)	
24-Jan	25-Jan	26-Jan	27-Jan			
		Noise (daytime) (M3a, M4b, M5b, M6, M8)	Noise (daytime) (M1a, M2b, M7e, M7w)			

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  
February 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			27-Jan 24hr TSP	28-Jan 1hr TSP	29-Jan	30-Jan
31-Jan 24hr TSP Noise (daytime)	1-Feb 1hr TSP Noise (daytime)	2-Feb	3-Feb	4-Feb	5-Feb 24hr TSP	6-Feb 1hr TSP
7-Feb	8-Feb	9-Feb	10-Feb 24hr TSP Noise (daytime)	11-Feb 1hr TSP Noise (daytime)	12-Feb	13-Feb
14-Feb Noise (daytime)	15-Feb	16-Feb Noise (daytime)	17-Feb 24hr TSP	18-Feb 1hr TSP	19-Feb	20-Feb
21-Feb Noise (daytime)	22-Feb	23-Feb 24hr TSP Noise (daytime)	24-Feb 1hr TSP	25-Feb	26-Feb	



***Appendix 5.2***

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





**Noise Monitoring Result**

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

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
29/12/15	11:00	Fine	77.1	78.5	74.0	72	75	75
06/01/16	10:15	Fine	77.0	79.0	76.0	72	75	75
12/01/16	11:00	Fine	79.7	81.0	77.5	72	79	75
19/01/16	10:25	Fine	84.8	86.5	80.5	72	85	75
27/01/16	11:25	Cloudy	76.2	78.0	71.5	72	74	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
29/12/15	13:00	Cloudy	69.5	71.0	66.5	68	65	75
06/01/16	11:10	Fine	68.6	70.0	67.0	68	62	75
12/01/16	13:00	Fine	69.6	70.5	67.5	68	65	75
19/01/16	11:30	Fine	68.0	69.5	66.5	68	57	75
27/01/16	10:45	Cloudy	70.6	72.0	68.0	68	68	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
28/12/15	14:22	Cloudy	66.0	67.5	63.5	69	66	75
04/01/16	8:00	Fine	66.5	67.5	65.0	69	67	75
12/01/16	8:00	Fine	65.5	67.5	63.0	69	66	75
19/01/16	13:00	Fine	66.7	67.5	65.0	69	67	75
26/01/16	9:40	Cloudy	65.2	66.5	63.0	69	65	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
28/12/15	15:05	Cloudy	67.2	69.5	63.0	67	67	75
04/01/16	8:45	Fine	68.5	69.0	67.0	67	62	75
12/01/16	8:40	Fine	70.5	71.0	68.0	67	68	75
19/01/16	13:41	Fine	68.9	71.5	65.5	67	64	75
26/01/16	10:15	Cloudy	67.2	69.0	64.5	67	67	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
29/12/15	13:47	Fine	67.8	69.0	65.0	68	68	75
04/01/16	9:30	Fine	64.5	66.0	63.5	68	65	75
12/01/16	9:25	Fine	65.5	66.0	64.5	68	66	75
19/01/16	14:24	Fine	71.0	72.5	65.5	68	68	75
26/01/16	10:55	Cloudy	68.2	69.5	65.0	68	55	75

Location: M6 - HK Baptist Church Henrietta Secondary School

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
29/12/15	14:26	Fine	70.4	72.0	67.0	71	70	70
04/01/16	10:05	Fine	72.3	73.0	70.5	71	67	70
12/01/16	10:00	Fine	72.4	73.5	70.0	71	68	70
19/01/16	15:00	Fine	72.8	74.0	71.0	71	69	70
26/01/16	11:30	Cloudy	71.5	72.0	70.0	71	64	70



**Noise Monitoring Result**

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

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
29/12/15	9:00	Fine	67.2	68.0	66.0	67	57	N/A
05/01/16	8:25	Fine	66.0	67.0	65.5	67	66	N/A
11/01/16	8:25	Fine	66.0	68.0	65.0	67	66	N/A
19/01/16	8:00	Fine	66.5	67.0	65.0	67	67	N/A
27/01/16	8:15	Cloudy	66.7	68.0	65.0	67	67	N/A

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
29/12/15	9:35	Fine	66.5	67.5	65.5	69	67	75
05/01/16	9:30	Fine	66.0	66.5	64.0	69	66	75
11/01/16	9:30	Fine	64.0	66.0	63.0	69	64	75
19/01/16	8:35	Fine	65.0	66.0	63.0	69	65	75
27/01/16	8:48	Cloudy	68.1	70.5	66.5	69	68	75

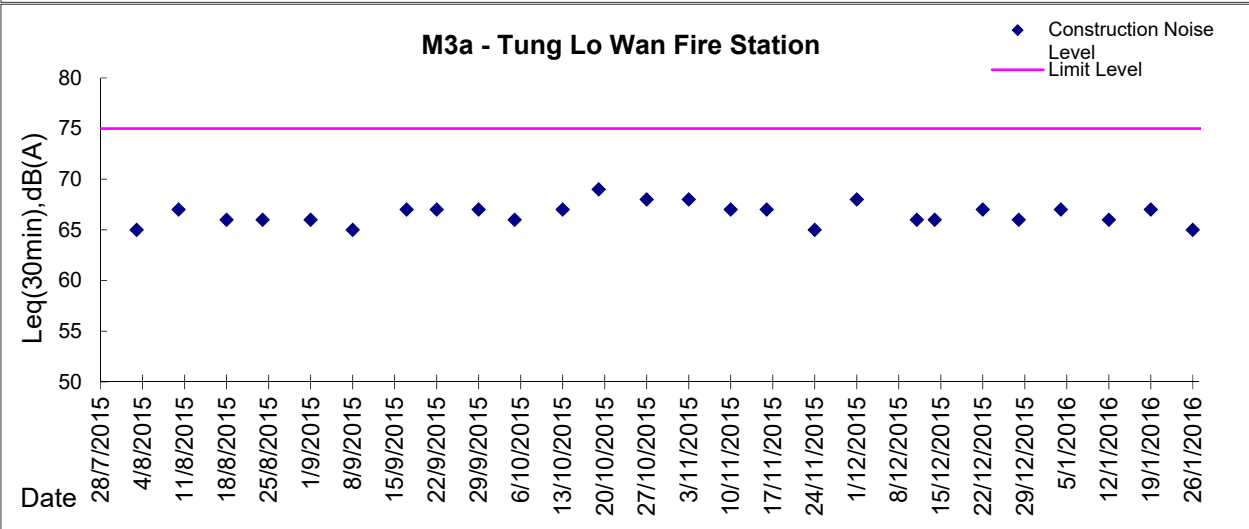
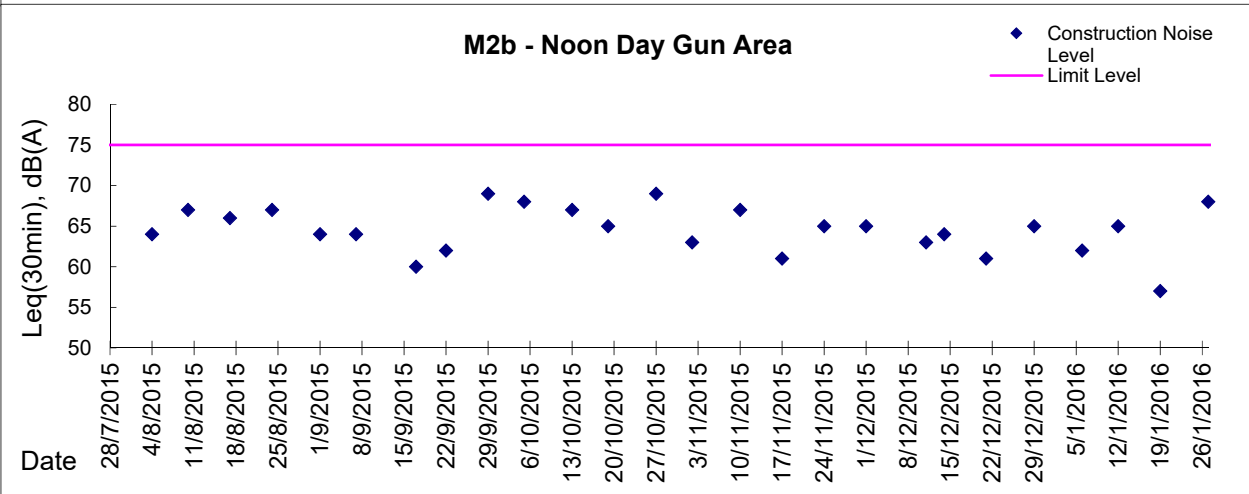
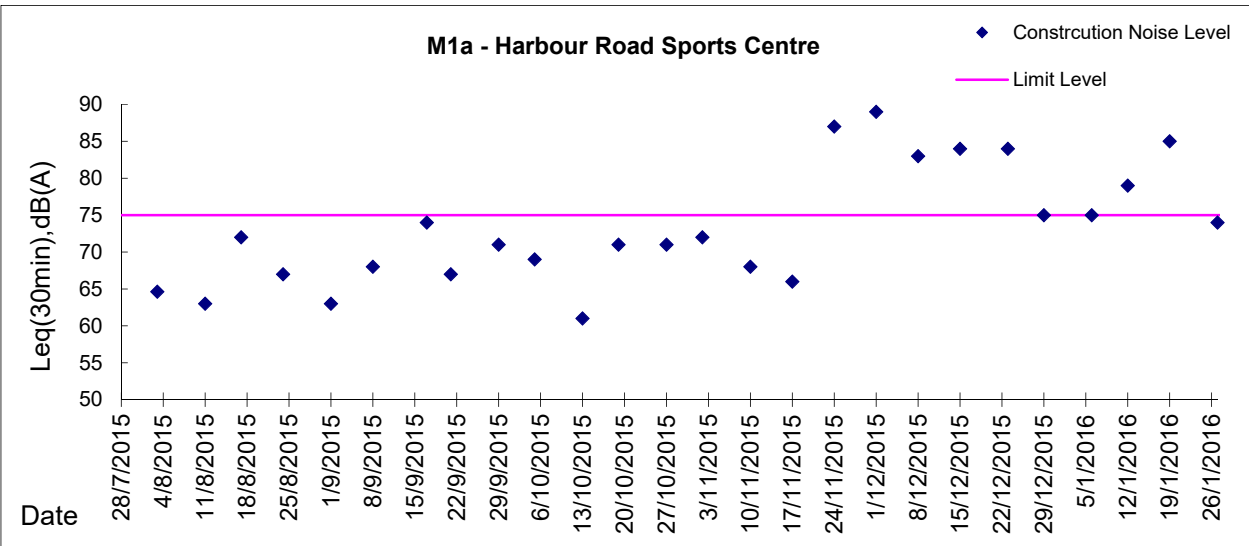
Location: M8 - City Hall

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
29/12/15	10:10	Fine	62.7	65.0	59.0	64	63	70
05/01/16	10:25	Fine	64.0	65.5	62.0	64	64	70
11/01/16	10:20	Fine	63.5	64.0	63.0	64	64	70
19/01/16	9:18	Fine	61.9	64.0	57.5	64	62	70
26/01/16	14:00	Cloudy	62.6	64.5	58.5	64	63	70



**Graphic Presentation of Noise Monitoring Result**

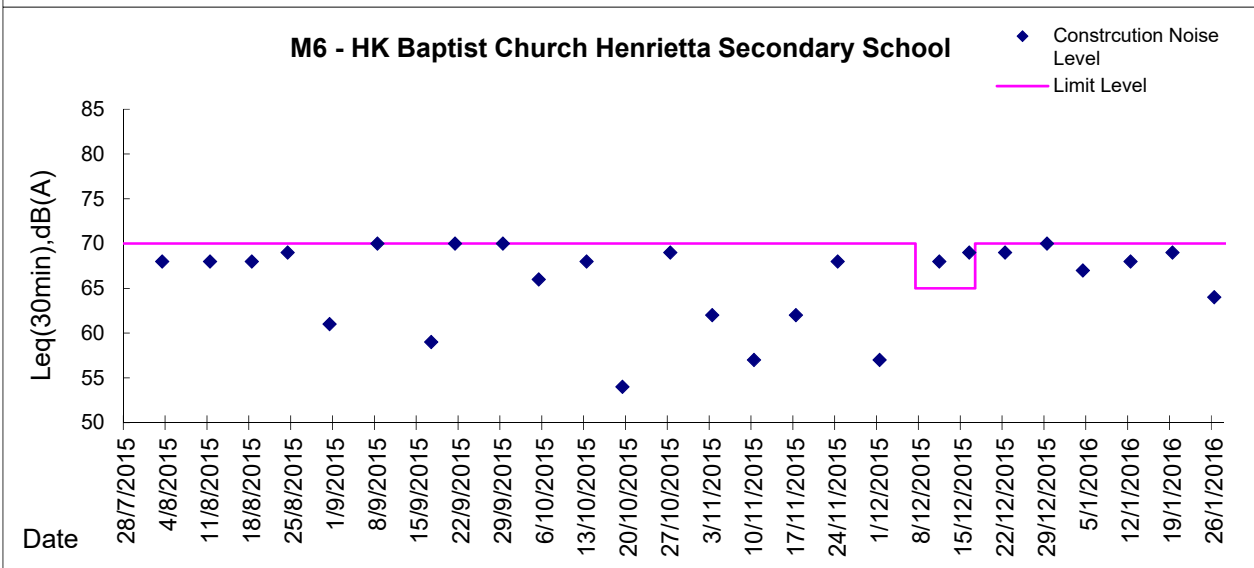
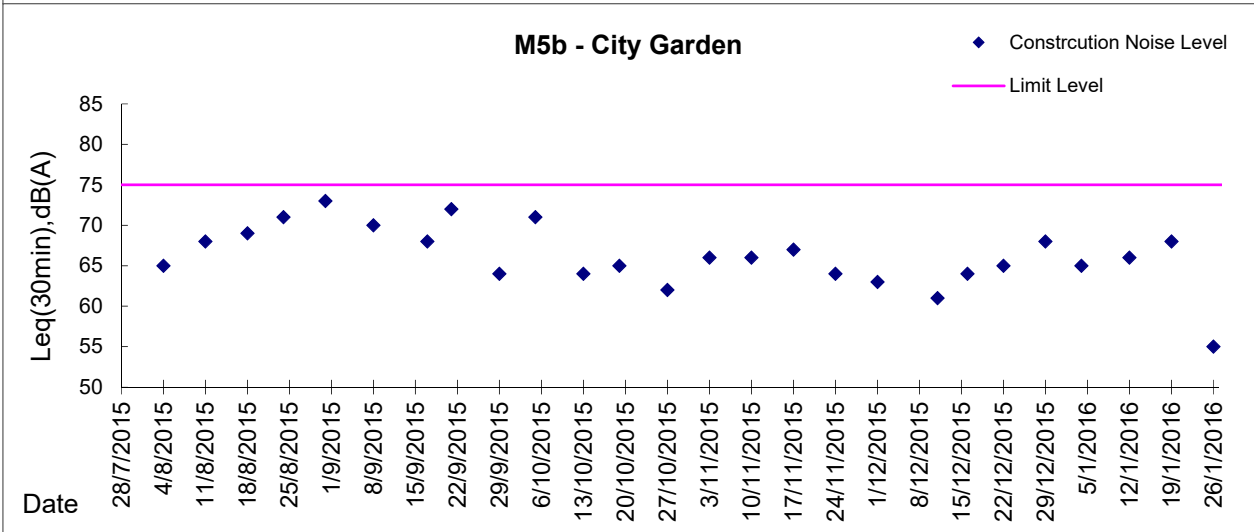
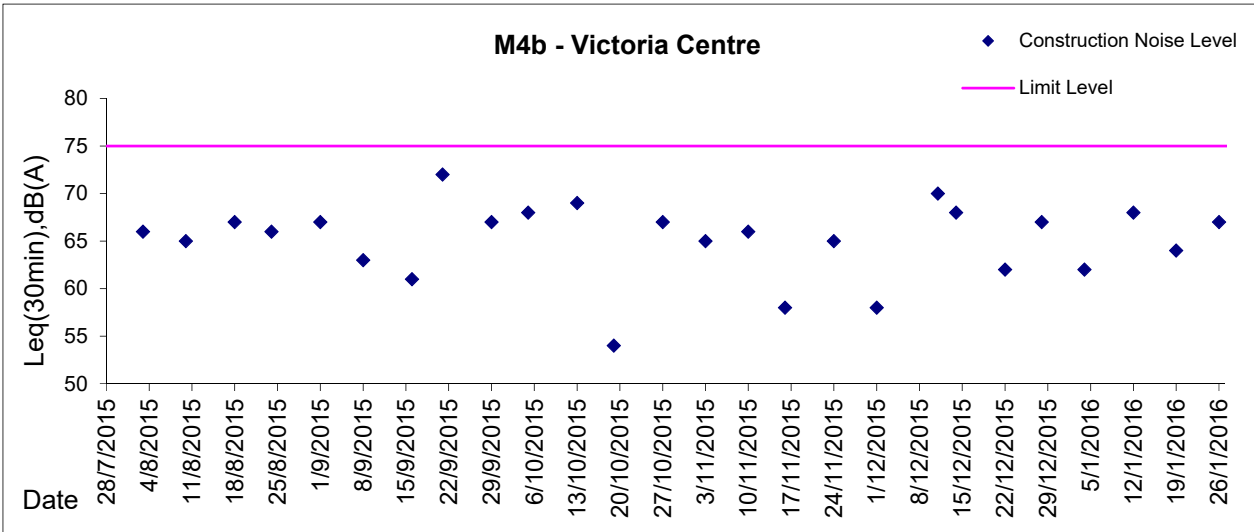
**Day Time (0700 - 1900hrs on normal weekdays)**





Graphic Presentation of Noise Monitoring Result

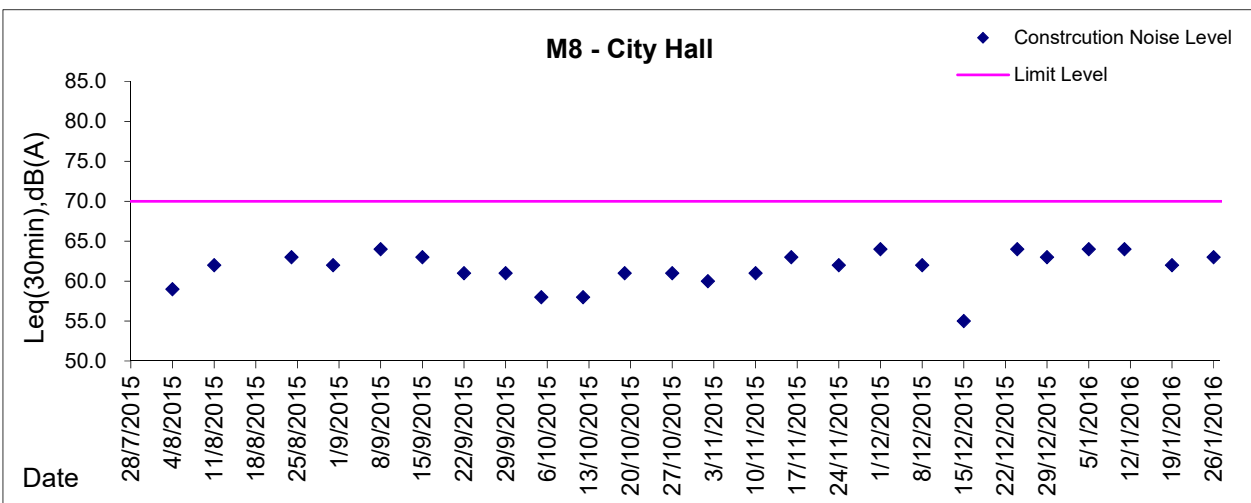
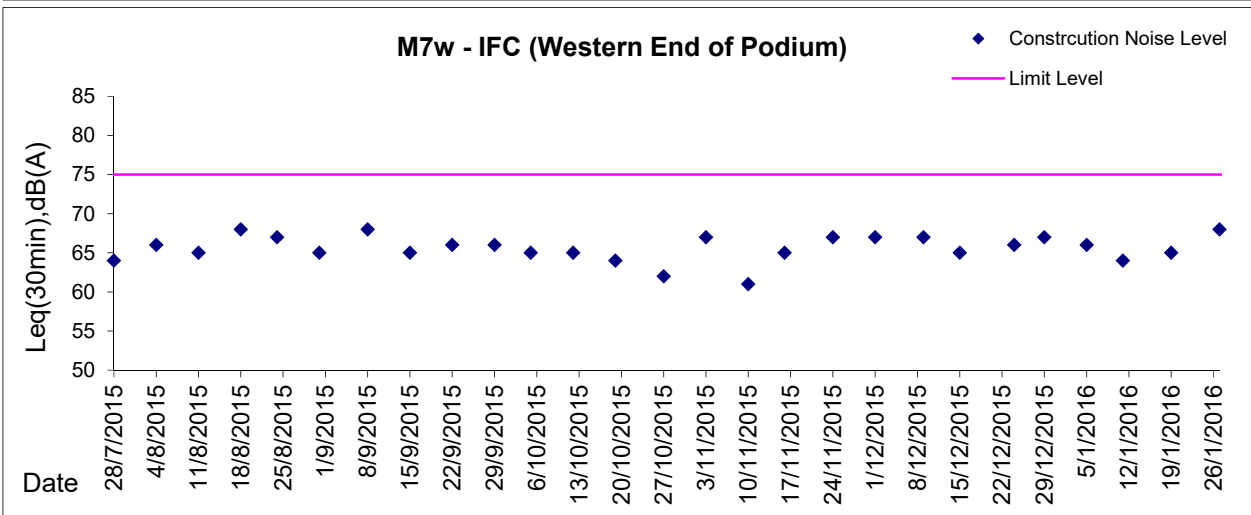
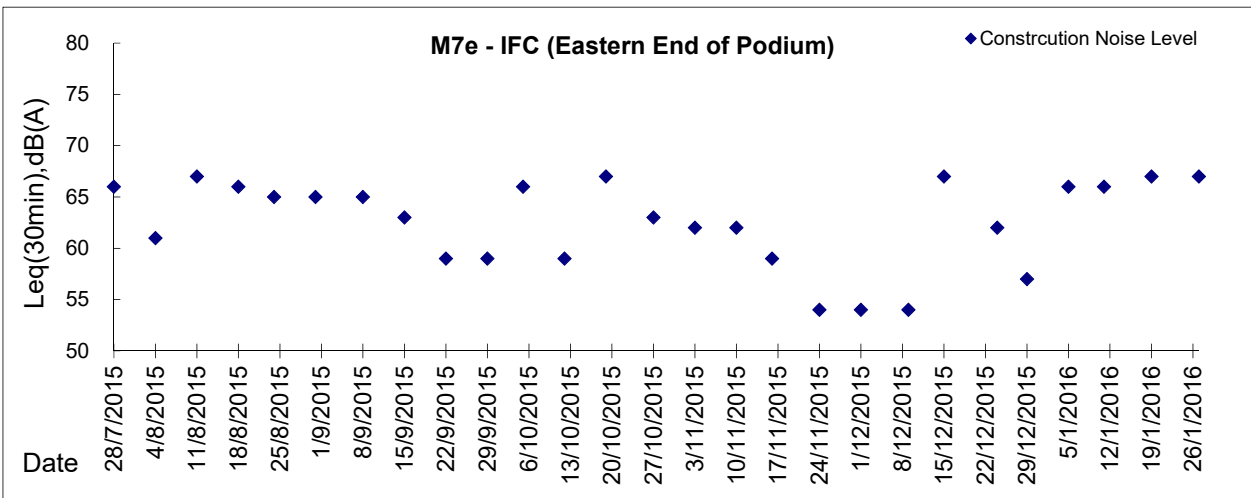
Day Time (0700 - 1900hrs on normal weekdays)





**Graphic Presentation of Noise Monitoring Result**

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



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



***Appendix 5.3***

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



Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 176.7

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014098	2.8945	3.1375	7465.10	7489.10	24.00	1.28	1.29	1.28	1850	131.3
4-Jan-16	8:00	Cloudy	014132	2.8075	2.9708	7492.10	7516.10	24.00	1.28	1.27	1.27	1836	89.0
9-Jan-16	8:00	Cloudy	014373	2.8137	3.0121	7519.10	7543.10	24.00	1.28	1.28	1.28	1844	107.6
15-Jan-16	8:00	Rainy	014483	2.7887	2.9066	7546.10	7570.10	24.00	1.28	1.28	1.28	1847	63.8
21-Jan-16	8:00	Cloudy	014463	2.7733	2.9025	7573.60	7597.60	24.00	1.28	1.29	1.29	1851	69.8

Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 320.1

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	9:10	Cloudy	014359	2.7908	2.8019	7489.10	7490.10	1.00	1.29	1.29	1.29	77	143.9
30-Dec-15	13:00	Cloudy	014361	2.8076	2.8195	7490.10	7491.10	1.00	1.29	1.29	1.29	77	154.3
30-Dec-15	15:00	Cloudy	014302	2.8965	2.9095	7491.10	7492.10	1.00	1.29	1.29	1.29	77	168.6
5-Jan-16	9:45	Rainy	014369	2.8261	2.8386	7516.10	7517.10	1.00	1.83	1.83	1.83	110	113.6
5-Jan-16	10:48	Rainy	014337	2.8311	2.8442	7517.10	7518.10	1.00	1.83	1.83	1.83	110	119.0
5-Jan-16	13:00	Rainy	014371	2.8232	2.8344	7518.10	7519.10	1.00	1.83	1.83	1.83	110	101.8
11-Jan-16	9:56	Rainy	014381	2.8030	2.8080	7543.10	7544.10	1.00	1.28	1.28	1.28	77	65.2
11-Jan-16	10:59	Rainy	014491	2.8139	2.8167	7544.10	7545.10	1.00	1.28	1.28	1.28	77	36.5
11-Jan-16	13:00	Rainy	014488	2.8169	2.8219	7545.10	7546.10	1.00	1.28	1.28	1.28	77	65.2
16-Jan-16	9:25	Cloudy	014472	2.7841	2.7957	7570.10	7571.10	1.00	1.28	1.28	1.28	77	150.9
16-Jan-16	10:44	Cloudy	014469	2.8099	2.8196	7571.10	7572.10	1.00	1.28	1.28	1.28	77	126.2
16-Jan-16	13:00	Cloudy	014466	2.8198	2.8373	7572.10	7573.10	1.00	1.28	1.28	1.28	77	227.6
22-Jan-16	8:55	Rainy	014404	2.7952	2.8061	7597.60	7598.60	1.00	1.29	1.29	1.29	77	141.1
22-Jan-16	10:35	Rainy	014407	2.7952	2.8048	7598.60	7599.60	1.00	1.29	1.29	1.29	77	124.3
22-Jan-16	13:00	Rainy	014410	2.7914	2.8074	7599.60	7600.60	1.00	1.29	1.29	1.29	77	207.1



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014261	2.8820	3.0305	17115.01	17139.01	24.00	1.23	1.24	1.24	1779	83.5
4-Jan-16	8:00	Cloudy	014365	2.8229	2.9015	17142.01	17166.01	24.00	1.11	1.11	1.11	1601	49.1
9-Jan-16	8:00	Cloudy	014372	2.8174	2.9294	17169.02	17193.02	24.00	1.17	1.17	1.17	1691	66.2
15-Jan-16	8:00	Rainy	014338	2.8186	2.9042	17196.02	17220.02	24.00	1.23	1.23	1.23	1775	48.2
21-Jan-16	8:00	Cloudy	014465	2.8336	2.9304	17223.02	17247.02	24.00	1.23	1.24	1.24	1780	54.4

Report on 1-hour TSP monitoring

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

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	9:09	Cloudy	014094	2.8857	2.8946	17139.01	17140.01	1.00	1.24	1.24	1.24	74	120.0
30-Dec-15	13:15	Cloudy	014344	2.8178	2.8260	17140.01	17141.01	1.00	1.24	1.24	1.24	74	110.6
30-Dec-15	15:15	Cloudy	014297	2.9060	2.9153	17141.01	17142.01	1.00	1.24	1.24	1.24	74	125.4
5-Jan-16	9:44	Rainy	014127	2.8069	2.8140	17166.01	17167.01	1.00	1.11	1.11	1.11	67	106.5
5-Jan-16	10:49	Rainy	014122	2.7876	2.7934	17167.01	17168.01	1.00	1.11	1.11	1.11	67	87.0
5-Jan-16	13:00	Rainy	014385	2.8197	2.8268	17168.01	17169.01	1.00	1.11	1.11	1.11	67	106.5
11-Jan-16	10:06	Rainy	014498	2.7917	2.7964	17193.02	17194.02	1.00	1.23	1.23	1.23	74	63.7
11-Jan-16	13:00	Rainy	014490	2.8020	2.8048	17194.02	17195.02	1.00	1.23	1.23	1.23	74	38.0
11-Jan-16	14:05	Rainy	014489	2.7948	2.7968	17195.02	17196.02	1.00	1.23	1.23	1.23	74	27.1
16-Jan-16	9:04	Cloudy	014505	2.7965	2.8040	17220.02	17221.02	1.00	1.23	1.23	1.23	74	101.5
16-Jan-16	10:39	Cloudy	014509	2.8165	2.8239	17221.02	17222.02	1.00	1.23	1.23	1.23	74	100.2
16-Jan-16	13:00	Cloudy	014513	2.7867	2.7979	17222.02	17223.02	1.00	1.23	1.23	1.23	74	151.6
22-Jan-16	9:04	Rainy	014388	2.8154	2.8186	17247.02	17248.02	1.00	1.24	1.24	1.24	74	43.1
22-Jan-16	10:31	Rainy	014392	2.8363	2.8378	17248.02	17249.02	1.00	1.24	1.24	1.24	74	20.2
22-Jan-16	13:00	Rainy	014396	2.8318	2.8397	17249.02	17250.02	1.00	1.24	1.24	1.24	74	106.4





Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 171

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014275	2.8627	3.0136	4607.15	4631.15	24.00	1.25	1.25	1.25	1800	83.9
4-Jan-16	8:00	Cloudy	014301	2.8710	2.9349	4634.15	4658.15	24.00	1.22	1.21	1.22	1750	36.5
9-Jan-16	8:00	Cloudy	014375	2.8154	2.9456	4661.15	4685.15	24.00	1.22	1.22	1.22	1757	74.1
15-Jan-16	8:00	Rainy	014482	2.7936	2.9525	4688.15	4712.15	24.00	1.32	1.32	1.32	1906	83.4
21-Jan-16	8:00	Cloudy	014477	2.7941	2.8649	4715.15	4739.15	24.00	1.32	1.33	1.33	1910	37.1

Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 311.3

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	8:50	Cloudy	014358	2.8175	2.8274	4631.15	4632.15	1.00	1.25	1.25	1.25	75	132.3
30-Dec-15	10:45	Cloudy	014360	2.8186	2.8251	4632.15	4633.15	1.00	1.25	1.25	1.25	75	86.9
30-Dec-15	14:35	Cloudy	014364	2.7787	2.7866	4633.15	4634.15	1.00	1.25	1.25	1.25	75	105.6
5-Jan-16	9:25	Rainy	014368	2.8314	2.8356	4658.15	4659.15	1.00	1.12	1.12	1.12	67	62.6
5-Jan-16	10:30	Rainy	014340	2.8343	2.8417	4659.15	4660.15	1.00	1.23	1.23	1.23	74	100.0
5-Jan-16	13:00	Rainy	014348	2.8044	2.8136	4660.15	4661.15	1.00	1.29	1.29	1.29	78	118.7
11-Jan-16	9:35	Rainy	014380	2.7975	2.8020	4685.15	4686.15	1.00	1.18	1.18	1.18	71	63.5
11-Jan-16	13:00	Rainy	014500	2.8069	2.8108	4686.15	4687.15	1.00	1.21	1.21	1.21	73	53.7
11-Jan-16	14:12	Rainy	014484	2.8000	2.8038	4687.15	4688.15	1.00	1.21	1.21	1.21	73	52.3
16-Jan-16	8:55	Cloudy	014473	2.7899	2.7953	4712.15	4713.15	1.00	1.13	1.13	1.13	68	80.0
16-Jan-16	10:26	Cloudy	014470	2.8081	2.8147	4713.15	4714.15	1.00	1.13	1.13	1.13	68	97.7
16-Jan-16	13:00	Cloudy	014467	2.7745	2.7856	4714.15	4715.15	1.00	1.24	1.24	1.24	75	148.9
22-Jan-16	8:40	Rainy	014403	2.7949	2.7967	4739.15	4740.15	1.00	1.22	1.22	1.22	73	24.6
22-Jan-16	10:15	Rainy	014406	2.7806	2.7843	4740.15	4741.15	1.00	1.22	1.25	1.23	74	49.9
22-Jan-16	13:00	Rainy	014409	2.7895	2.7972	4741.15	4742.15	1.00	1.25	1.25	1.25	75	102.7



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring  
Action Level ( $\mu\text{g}/\text{m}^3$ ) - 171.2  
Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014255	2.8650	3.1169	21392.00	21416.00	24.00	1.33	1.33	1.33	1909	131.9
4-Jan-16	8:00	Cloudy	014366	2.8351	2.9713	21419.00	21443.00	24.00	1.32	1.32	1.32	1895	71.9
9-Jan-16	8:00	Cloudy	014374	2.8135	2.9867	21446.00	21470.00	24.00	1.32	1.32	1.32	1903	91.0
15-Jan-16	8:00	Rainy	014339	2.8324	2.9450	21473.00	21497.00	24.00	1.32	1.32	1.32	1906	59.1
21-Jan-16	8:00	Cloudy	014478	2.7803	2.8979	21500.00	21524.00	24.00	1.27	1.28	1.28	1837	64.0

Report on 1-hour TSP monitoring  
Action Level ( $\mu\text{g}/\text{m}^3$ ) - 312.5  
Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	8:09	Cloudy	014095	2.8832	2.8914	21416.00	21417.00	1.00	1.33	1.33	1.33	80	103.0
30-Dec-15	10:41	Cloudy	014342	2.8165	2.8264	21417.00	21418.00	1.00	1.33	1.33	1.33	80	124.4
30-Dec-15	14:38	Cloudy	014133	2.7929	2.8016	21418.00	21419.00	1.00	1.33	1.33	1.33	80	109.3
5-Jan-16	9:21	Rainy	014129	2.7824	2.7925	21443.00	21444.00	1.00	1.32	1.32	1.32	79	128.0
5-Jan-16	10:26	Rainy	014124	2.8033	2.8128	21444.00	21445.00	1.00	1.32	1.32	1.32	79	120.4
5-Jan-16	13:00	Rainy	014383	2.8072	2.8152	21445.00	21446.00	1.00	1.32	1.32	1.32	79	101.4
11-Jan-16	9:35	Rainy	014497	2.7939	2.7989	21470.00	21471.00	1.00	1.32	1.32	1.32	79	63.1
11-Jan-16	13:00	Rainy	014499	2.8095	2.8136	21471.00	21472.00	1.00	1.32	1.32	1.32	79	51.8
11-Jan-16	14:05	Rainy	014356	2.7949	2.8023	21472.00	21473.00	1.00	1.32	1.32	1.32	79	93.4
16-Jan-16	8:59	Cloudy	014504	2.7911	2.7989	21497.00	21498.00	1.00	1.32	1.32	1.32	79	98.3
16-Jan-16	10:22	Cloudy	014508	2.8019	2.8136	21498.00	21499.00	1.00	1.32	1.32	1.32	79	147.5
16-Jan-16	13:00	Cloudy	014512	2.7922	2.8028	21499.00	21500.00	1.00	1.32	1.32	1.32	79	133.6
22-Jan-16	8:44	Rainy	014521	2.8639	2.8676	21524.00	21525.00	1.00	1.28	1.28	1.28	77	48.3
22-Jan-16	10:18	Rainy	014391	2.8259	2.8285	21525.00	21526.00	1.00	1.28	1.28	1.28	77	33.9
22-Jan-16	13:00	Rainy	014395	2.8083	2.8204	21526.00	21527.00	1.00	1.28	1.28	1.28	77	157.9



Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 181

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014284	2.8777	3.0825	5922.03	5946.03	24.00	0.81	0.81	0.81	1165	175.7
4-Jan-16	8:00	Cloudy	014134	2.7954	2.9188	5949.03	5973.03	24.00	0.80	0.80	0.80	1147	107.6
11-Jan-16	15:20	Rainy	014476	2.7770	2.8254	5979.03	6003.03	24.00	0.73	0.74	0.74	1060	45.6
15-Jan-16	8:00	Rainy	014501	2.7884	2.8376	6003.03	6027.03	24.00	0.74	0.74	0.74	1064	46.3
22-Jan-16	14:00	Cloudy	014464	2.7580	2.8283	6047.07	6071.07	24.00	0.81	0.83	0.82	1182	59.5

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 9 and 21 January 2016 to 11 and 22 January 2016 respectively.

Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 332

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	8:41	Cloudy	014096	2.8800	2.8857	5946.03	5947.03	1.00	0.74	0.74	0.74	45	128.0
30-Dec-15	9:45	Cloudy	014341	2.8254	2.8316	5947.03	5948.03	1.00	0.74	0.74	0.74	45	139.2
30-Dec-15	13:00	Cloudy	014345	2.8339	2.8407	5948.03	5949.03	1.00	0.78	0.78	0.78	47	146.0
5-Jan-16	9:08	Rainy	014130	2.8063	2.8116	5973.03	5974.03	1.00	0.73	0.73	0.73	44	121.3
5-Jan-16	10:15	Rainy	014125	2.8053	2.8111	5974.03	5975.03	1.00	0.73	0.73	0.73	44	132.7
5-Jan-16	13:00	Rainy	014382	2.8059	2.8119	5975.03	5976.03	1.00	0.73	0.73	0.73	44	137.3
11-Jan-16	8:34	Rainy	014496	2.7943	2.7963	5976.03	5977.03	1.00	0.80	0.80	0.80	48	41.6
11-Jan-16	10:45	Rainy	014494	2.7957	2.8004	5977.03	5978.03	1.00	0.87	0.87	0.87	52	90.1
11-Jan-16	13:30	Rainy	014485	2.8273	2.8316	5978.03	5979.03	1.00	0.73	0.73	0.73	44	97.6
16-Jan-16	8:40	Cloudy	014503	2.7979	2.8033	6027.03	6028.03	1.00	0.74	0.74	0.74	44	122.1
16-Jan-16	10:09	Cloudy	014507	2.7989	2.8047	6028.03	6029.03	1.00	0.74	0.74	0.74	44	131.1
16-Jan-16	13:00	Cloudy	014511	2.7986	2.8099	6029.03	6030.03	1.00	0.74	0.74	0.74	44	255.4
22-Jan-16	8:30	Rainy	014520	2.8739	2.8752	6044.07	6045.07	1.00	0.74	0.74	0.74	45	29.1
22-Jan-16	10:05	Rainy	014390	2.8280	2.8303	6045.07	6046.07	1.00	0.81	0.81	0.81	49	47.2
22-Jan-16	13:00	Rainy	014394	2.8188	2.8207	6046.07	6047.07	1.00	0.74	0.74	0.74	45	42.5



Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level - 187.3  $\mu\text{g}/\text{m}^3$   
Limit Level - 260  $\mu\text{g}/\text{m}^3$

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014260	2.8895	3.0876	20972.29	20996.29	24.00	1.21	1.21	1.21	1742	113.7
4-Jan-16	8:00	Cloudy	014363	2.8034	2.9580	20999.29	21023.29	24.00	1.20	1.20	1.20	1724	89.7
9-Jan-16	8:00	Cloudy	014377	2.8135	3.0566	21026.29	21050.29	24.00	1.21	1.20	1.20	1734	140.2
15-Jan-16	8:00	Rainy	014481	2.7994	2.8940	21053.29	21077.29	24.00	1.21	1.21	1.21	1738	54.4
21-Jan-16	8:00	Cloudy	014514	2.7900	2.9128	21080.29	21104.29	24.00	1.21	1.21	1.21	1743	70.5

Report on 1-hour TSP monitoring

Action Level - 300.1  $\mu\text{g}/\text{m}^3$   
Limit Level - 500  $\mu\text{g}/\text{m}^3$

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	8:25	Cloudy	014357	2.8035	2.8132	20996.29	20997.29	1.00	1.21	1.21	1.21	73	133.6
30-Dec-15	9:35	Cloudy	014360	2.7959	2.8052	20997.29	20998.29	1.00	1.21	1.21	1.21	73	128.1
30-Dec-15	10:40	Cloudy	014362	2.8024	2.8116	20998.29	20999.29	1.00	1.21	1.21	1.21	73	126.7
5-Jan-16	8:50	Rainy	014367	2.8182	2.8255	21023.29	21024.29	1.00	1.76	1.76	1.76	106	69.2
5-Jan-16	10:00	Rainy	014370	2.8284	2.8358	21024.29	21025.29	1.00	1.76	1.76	1.76	106	70.1
5-Jan-16	13:00	Rainy	014347	2.8112	2.8225	21025.29	21026.29	1.00	1.76	1.76	1.76	106	107.1
11-Jan-16	8:20	Rainy	014379	2.8205	2.8255	21050.29	21051.29	1.00	1.20	1.20	1.20	72	69.3
11-Jan-16	10:56	Rainy	014493	2.7860	2.7923	21051.29	21052.29	1.00	1.20	1.20	1.20	72	87.3
11-Jan-16	13:00	Rainy	014486	2.8148	2.8207	21052.29	21053.29	1.00	1.20	1.20	1.20	72	81.8
16-Jan-16	8:06	Cloudy	014474	2.8196	2.8296	21077.29	21078.29	1.00	1.21	1.21	1.21	72	138.3
16-Jan-16	9:56	Cloudy	014471	2.7911	2.7982	21078.29	21079.29	1.00	1.21	1.21	1.21	72	98.2
16-Jan-16	11:00	Cloudy	014468	2.7894	2.7988	21079.29	21080.29	1.00	1.21	1.21	1.21	72	130.0
22-Jan-16	8:25	Rainy	014402	2.8027	2.8052	21104.29	21105.29	1.00	1.21	1.21	1.21	73	34.4
22-Jan-16	9:50	Rainy	014405	2.7885	2.7900	21105.29	21106.29	1.00	1.21	1.21	1.21	73	20.6
22-Jan-16	11:00	Rainy	014408	2.7867	2.7965	21106.29	21107.29	1.00	1.21	1.21	1.21	73	134.7



Location: MA1e - International Finance Centre (Eastern Wing)

## Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 173.4Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014258	2.8849	3.0212	18075.67	18099.67	24.00	1.29	1.29	1.29	1853	73.5
4-Jan-16	8:00	Cloudy	014331	2.8136	2.8661	18102.67	18126.67	24.00	1.28	1.28	1.28	1841	28.5
9-Jan-16	8:00	Cloudy	014290	2.8929	3.1201	18129.67	18153.67	24.00	1.28	1.28	1.28	1848	122.9
15-Jan-16	8:00	Rainy	014352	2.8073	2.8669	16156.68	16180.68	24.00	1.29	1.28	1.29	1851	32.2
21-Jan-16	8:00	Cloudy	014565	2.8317	2.9036	16183.68	16207.68	24.00	1.29	1.29	1.29	1854	38.8

## Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 325.1Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	8:03	Cloudy	014322	2.8279	2.8308	18099.67	18100.67	1.00	1.36	1.36	1.36	81	35.6
30-Dec-15	9:06	Cloudy	014325	2.8273	2.8298	18100.67	18101.67	1.00	1.38	1.38	1.38	83	30.2
30-Dec-15	10:10	Cloudy	014328	2.7979	2.8000	18101.67	18102.67	1.00	1.38	1.38	1.38	83	25.4
5-Jan-16	8:04	Rainy	014300	2.8886	2.8931	18126.67	18127.67	1.00	1.28	1.28	1.28	77	58.7
5-Jan-16	9:12	Rainy	014296	2.8919	2.8988	18127.67	18128.67	1.00	1.28	1.28	1.28	77	90.0
5-Jan-16	10:19	Rainy	014293	2.8999	2.9032	18128.67	18129.67	1.00	1.28	1.28	1.28	77	43.0
11-Jan-16	8:04	Rainy	014287	2.8819	2.8834	18153.68	18154.68	1.00	1.31	1.31	1.31	78	19.1
11-Jan-16	9:15	Rainy	014334	2.8157	2.8173	18154.68	18155.68	1.00	1.28	1.28	1.28	77	20.8
11-Jan-16	10:21	Rainy	014349	2.8186	2.8203	18155.68	18156.68	1.00	1.28	1.28	1.28	77	22.1
16-Jan-16	8:15	Cloudy	014563	2.8664	2.8702	16180.68	16181.68	1.00	1.28	1.28	1.28	77	49.3
16-Jan-16	9:20	Cloudy	014562	2.8587	2.8615	16181.68	16182.68	1.00	1.28	1.28	1.28	77	36.3
16-Jan-16	10:30	Cloudy	014561	2.8430	2.8465	16182.68	16183.68	1.00	1.28	1.28	1.28	77	45.4
22-Jan-16	8:14	Rainy	014462	2.7762	2.7776	16207.68	16208.68	1.00	1.29	1.29	1.29	77	18.1
22-Jan-16	9:22	Rainy	014459	2.7900	2.7916	16208.68	16209.68	1.00	1.29	1.29	1.29	77	20.7
22-Jan-16	10:26	Rainy	014456	2.7864	2.7881	16209.68	16210.68	1.00	1.29	1.29	1.29	77	22.0



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 173.4  
Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

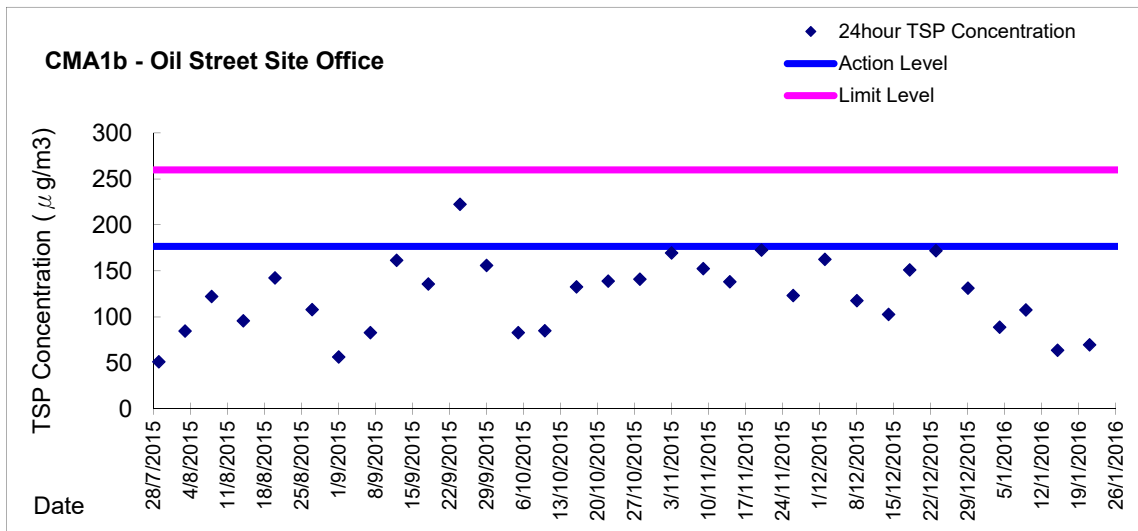
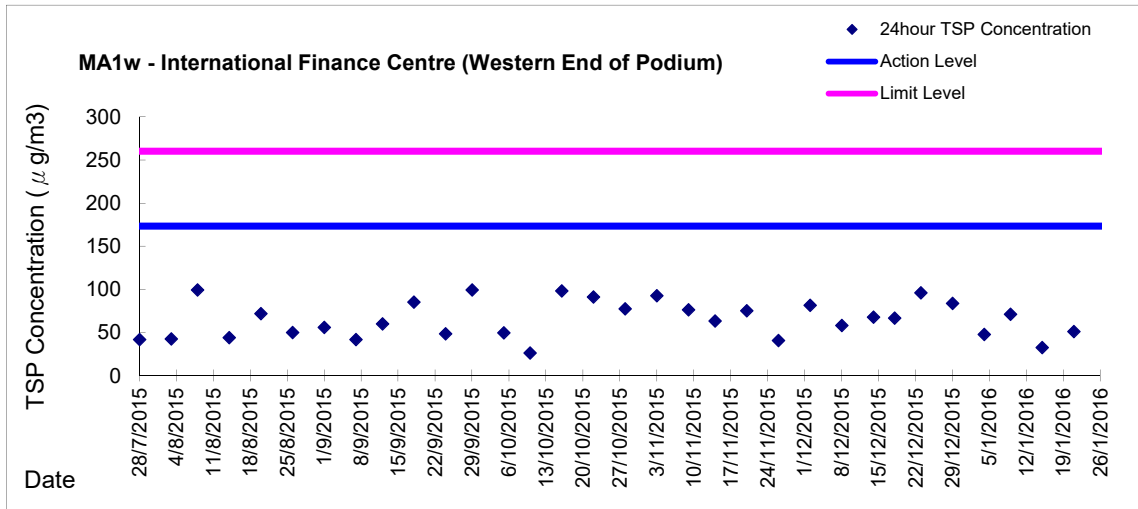
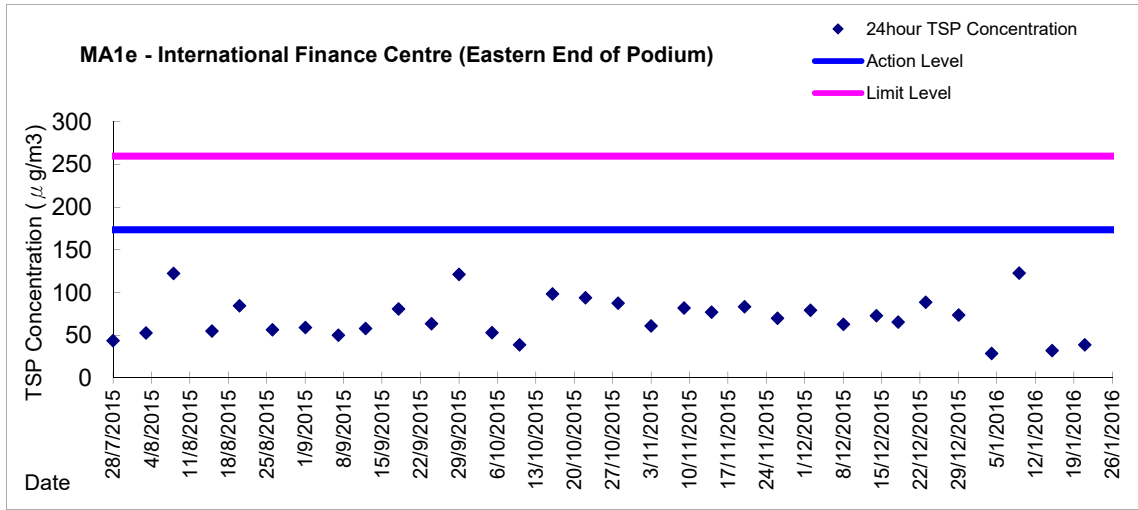
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
29-Dec-15	8:00	Cloudy	014257	2.8739	3.0269	18100.02	18124.02	24.00	1.26	1.27	1.26	1822	84.0
4-Jan-16	8:00	Cloudy	014332	2.8159	2.9025	18127.02	18151.02	24.00	1.26	1.25	1.26	1808	47.9
9-Jan-16	8:00	Cloudy	014289	2.8831	3.0124	18154.02	18178.02	24.00	1.26	1.26	1.26	1816	71.2
15-Jan-16	8:00	Rainy	014353	2.7942	2.8537	18181.03	18205.03	24.00	1.26	1.26	1.26	1818	32.7
21-Jan-16	8:00	Cloudy	014564	2.8399	2.9330	18208.03	18232.03	24.00	1.26	1.27	1.27	1822	51.1

Report on 1-hour TSP monitoring

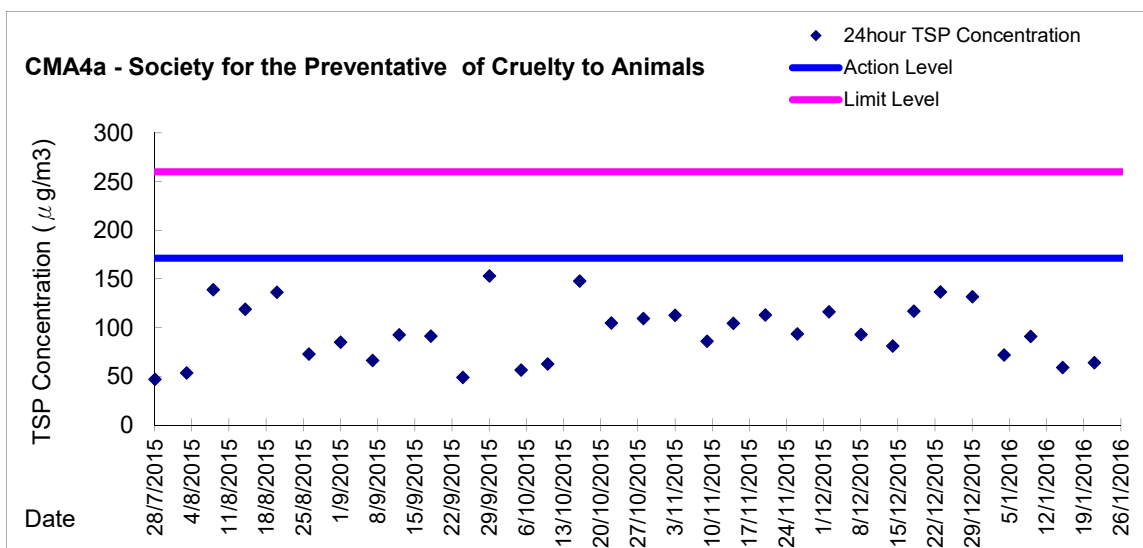
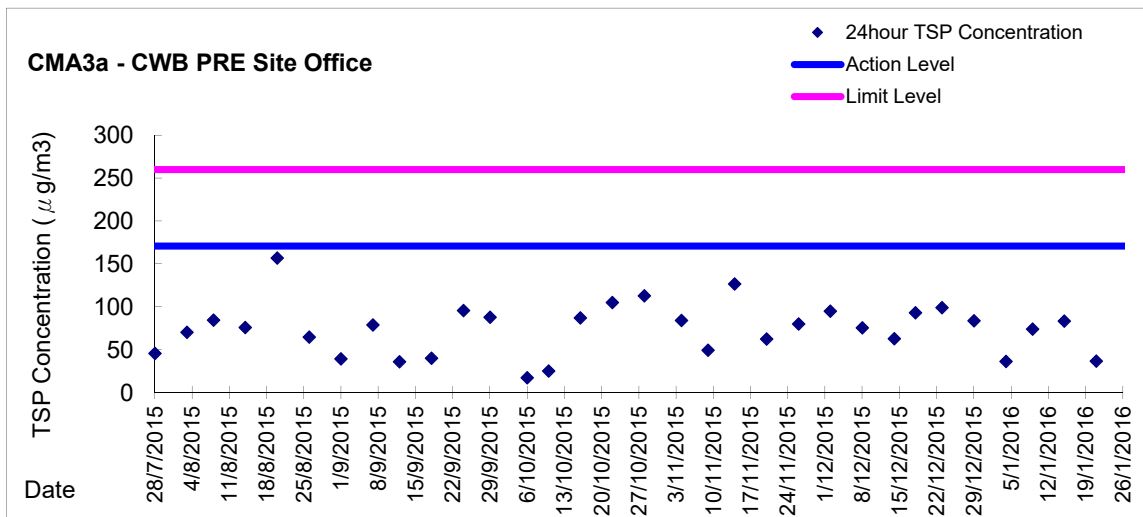
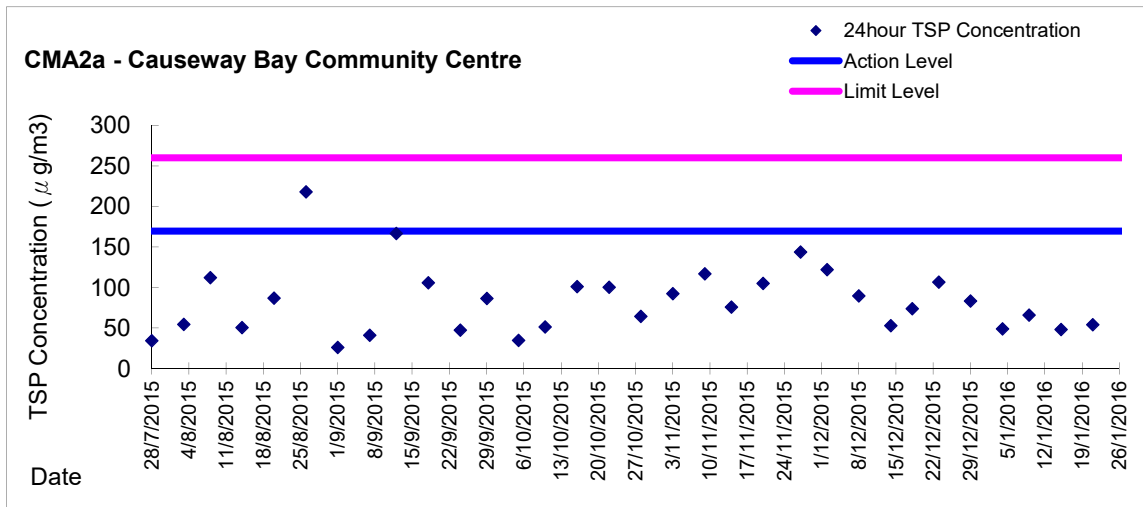
Action Level ( $\mu\text{g}/\text{m}^3$ ) - 325.1  
Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
30-Dec-15	8:05	Cloudy	014323	2.8231	2.8265	18124.02	18125.02	1.00	1.27	1.27	1.27	76	44.8
30-Dec-15	9:08	Cloudy	014326	2.8205	2.8233	18125.02	18126.02	1.00	1.29	1.29	1.29	78	36.1
30-Dec-15	10:11	Cloudy	014329	2.8070	2.8105	18126.02	18127.02	1.00	1.32	1.32	1.32	79	44.2
5-Jan-16	8:05	Rainy	014299	2.8804	2.8869	18151.02	18152.02	1.00	1.25	1.25	1.25	75	86.3
5-Jan-16	9:08	Rainy	014295	2.8943	2.8992	18152.02	18153.02	1.00	1.25	1.25	1.25	75	65.1
5-Jan-16	10:04	Rainy	014292	2.8787	2.8815	18153.02	18154.02	1.00	1.25	1.25	1.25	75	37.2
11-Jan-16	8:05	Rainy	014286	2.8591	2.8599	18178.03	18179.03	1.00	1.31	1.26	1.29	77	10.4
11-Jan-16	9:09	Rainy	014335	2.8310	2.8325	18179.03	18180.03	1.00	1.26	1.26	1.26	76	19.8
11-Jan-16	10:13	Rainy	014350	2.8127	2.8137	18180.03	18181.03	1.00	1.26	1.26	1.26	76	13.2
16-Jan-16	8:20	Cloudy	014560	2.8594	2.8662	18205.03	18206.03	1.00	1.26	1.26	1.26	76	89.8
16-Jan-16	9:30	Cloudy	014567	2.8501	2.8546	18206.03	18207.03	1.00	1.26	1.26	1.26	76	59.4
16-Jan-16	10:35	Cloudy	014566	2.8499	2.8544	18207.03	18208.03	1.00	1.26	1.26	1.26	76	59.4
22-Jan-16	8:05	Rainy	014461	2.7860	2.7905	18232.03	18233.03	1.00	1.27	1.27	1.27	76	59.2
22-Jan-16	9:09	Rainy	014458	2.7750	2.7762	18233.03	18234.03	1.00	1.27	1.27	1.27	76	15.8
22-Jan-16	10:12	Rainy	014455	2.7941	2.7945	18234.03	18235.03	1.00	1.27	1.27	1.27	76	5.3

Graphic Presentation of 24 hour TSP Result

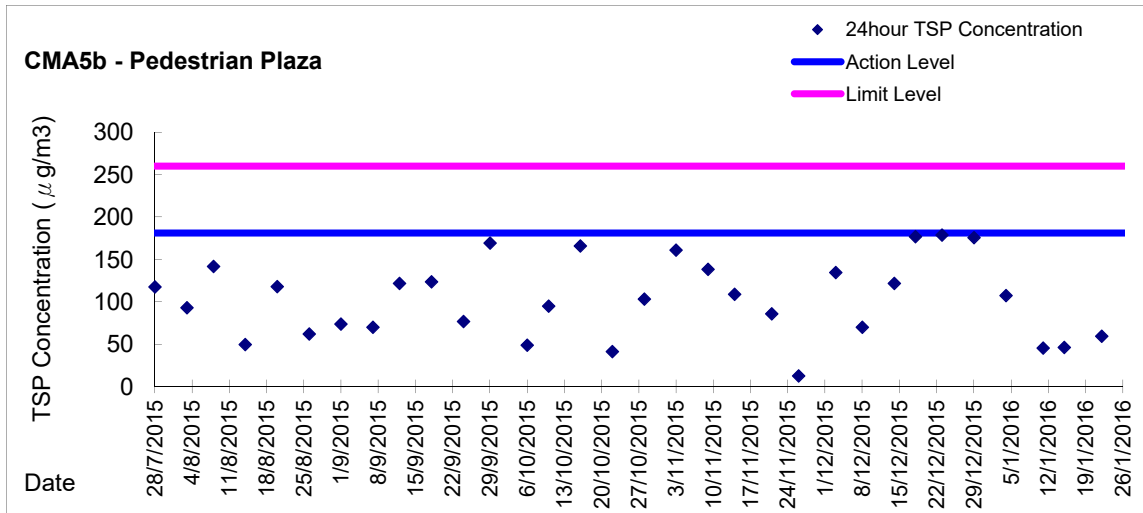


Graphic Presentation of 24 hour TSP Result

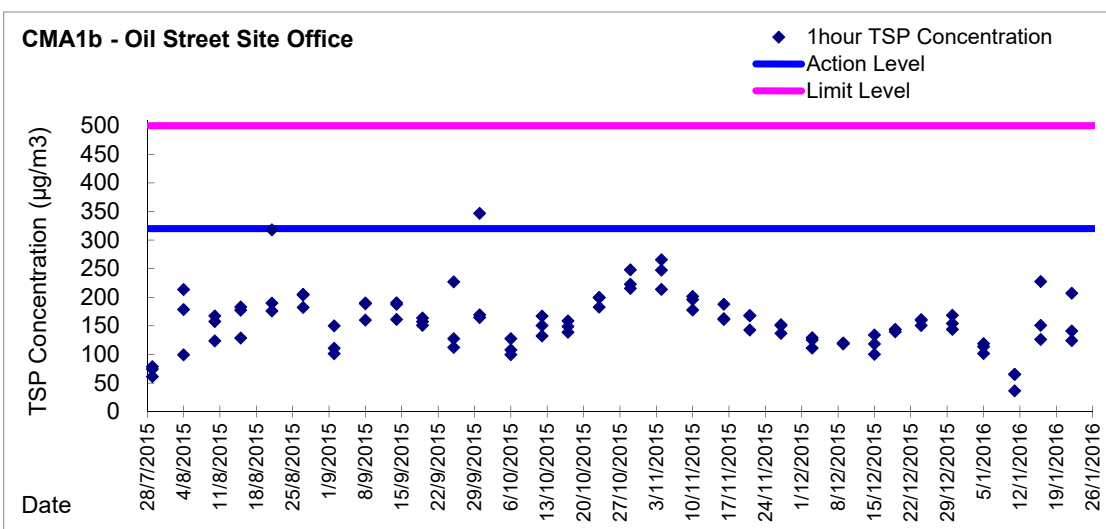
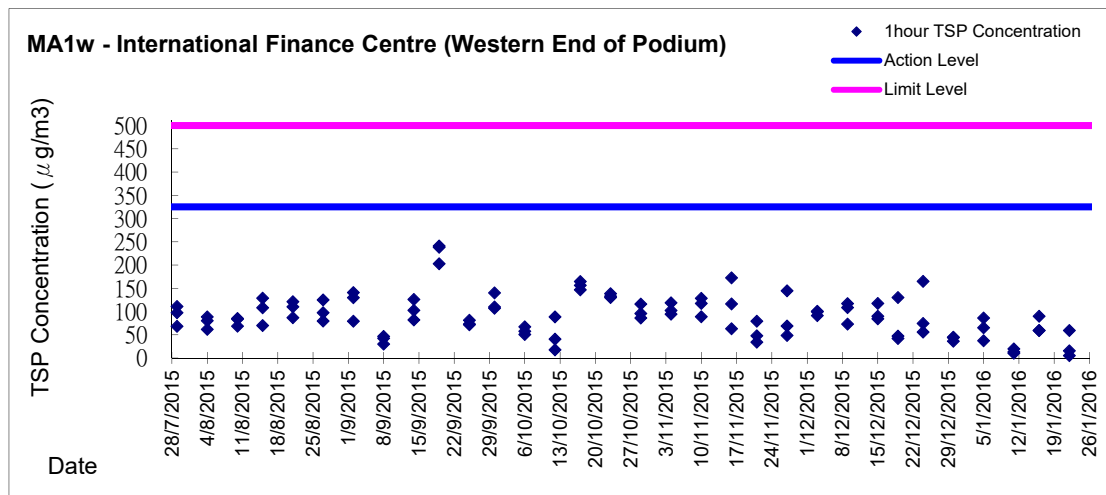
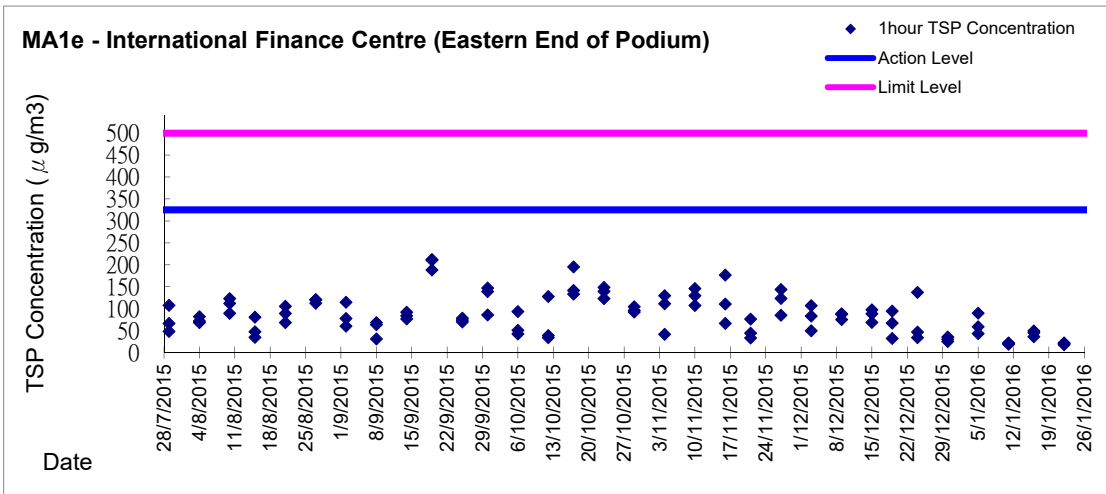




Graphic Presentation of 24 hour TSP Result

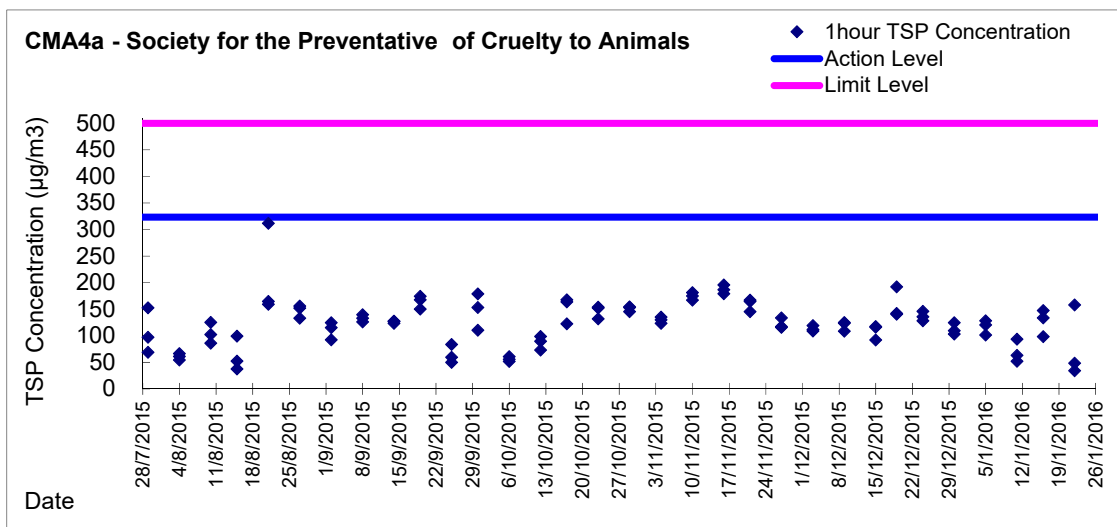
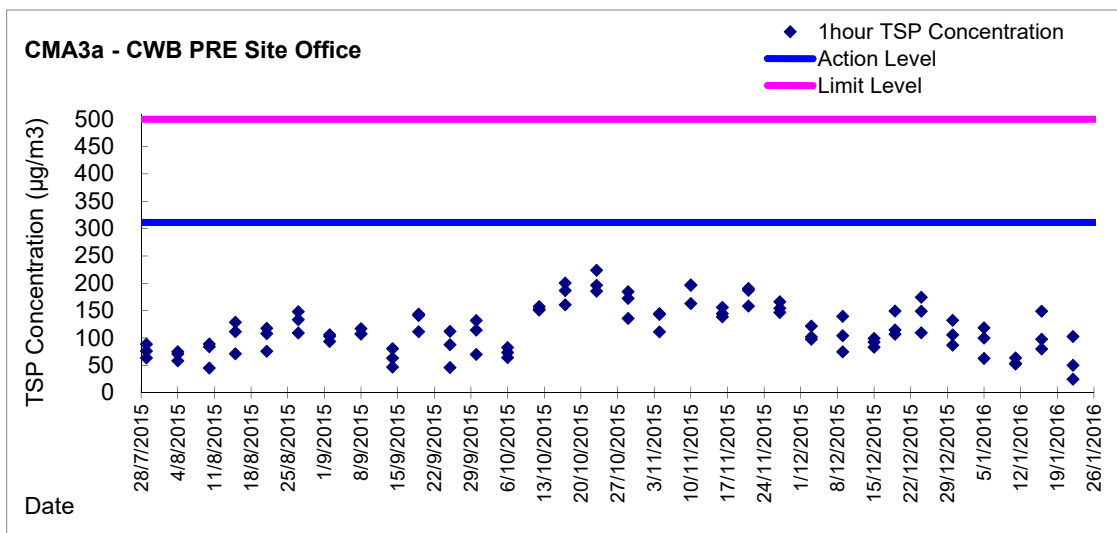
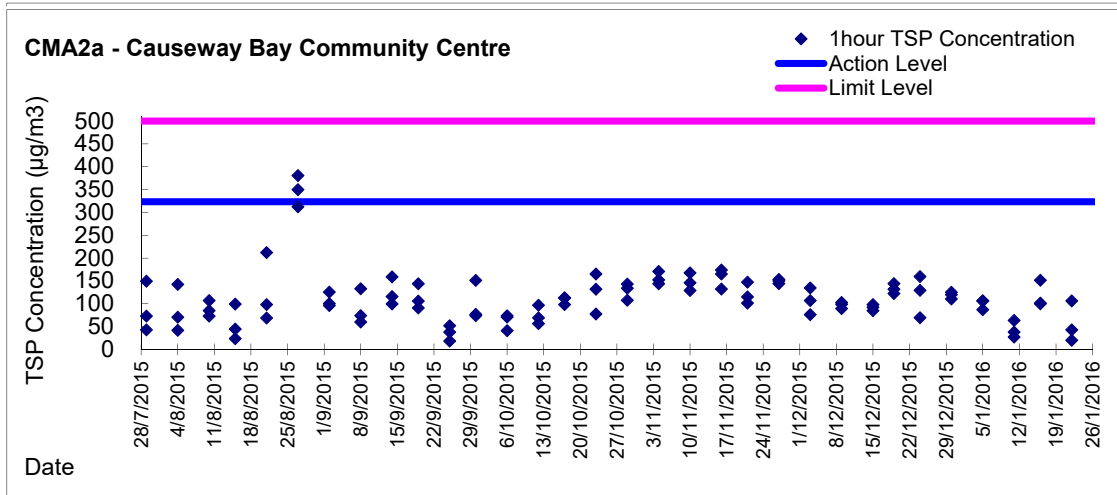


Graphic Presentation of 1 hour TSP Result

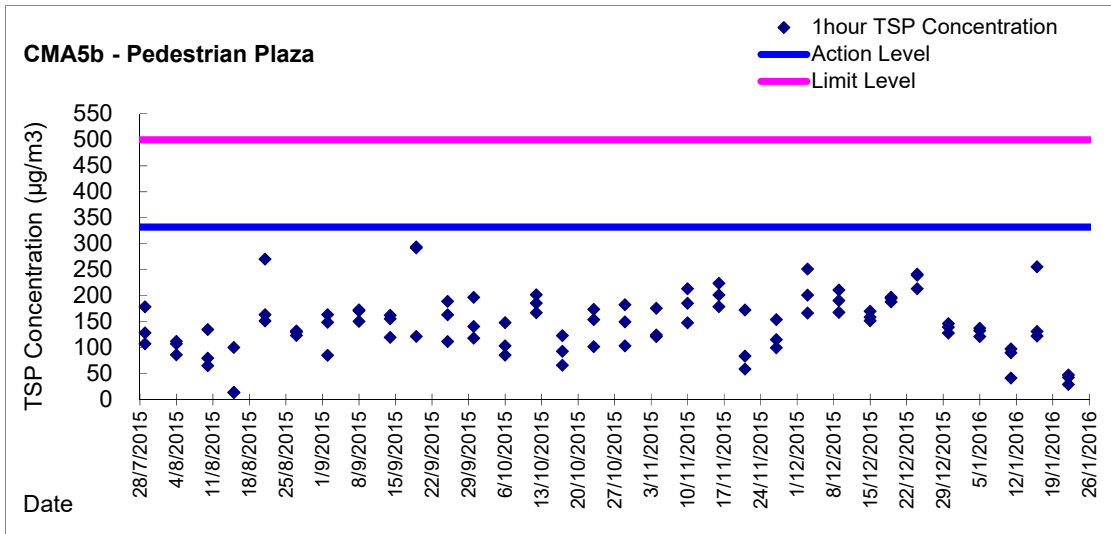




Graphic Presentation of 1 hour TSP Result



**Graphic Presentation of 1 hour TSP Result**





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

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

Normal Day 07:00-19:00

Table with 12 columns of noise data. Each row contains a date and time followed by a noise level value. The first column lists dates from 28/12/2015 to 2/1/2016. The remaining 11 columns contain noise level measurements at various times throughout the day.

Normal Day 19:00-23:00

Sunday & Holiday

07:00-23:00

Table with 2 columns of noise data. The first column lists dates from 27/12/2015 to 27/12/2015. The second column contains noise level measurements.

















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

Table with 8 columns: Date/Time, RTN1 (Food and Environmental Hygiene Department Depot), and 6 other columns of noise data. The table contains 951 rows of data, starting from 19/1/2016 5:11 and ending at 20/1/2016 6:11.

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

26/1/2016 3:41	59
26/1/2016 3:46	58
26/1/2016 3:51	58
26/1/2016 3:56	59
26/1/2016 4:01	58
26/1/2016 4:06	59
26/1/2016 4:11	58
26/1/2016 4:16	58
26/1/2016 4:21	59
26/1/2016 4:26	59
26/1/2016 4:31	58
26/1/2016 4:36	58
26/1/2016 4:41	58
26/1/2016 4:46	59
26/1/2016 4:51	58
26/1/2016 4:56	58
26/1/2016 5:01	59
26/1/2016 5:06	58
26/1/2016 5:11	59
26/1/2016 5:16	59
26/1/2016 5:21	59
26/1/2016 5:26	60
26/1/2016 5:31	61
26/1/2016 5:36	60
26/1/2016 5:41	60
26/1/2016 5:46	60
26/1/2016 5:51	60
26/1/2016 5:56	60
26/1/2016 6:01	60
26/1/2016 6:06	61
26/1/2016 6:11	61
26/1/2016 6:16	62
26/1/2016 6:21	62
26/1/2016 6:26	56
26/1/2016 6:31	52
26/1/2016 6:36	57
26/1/2016 6:41	60
26/1/2016 6:46	58
26/1/2016 6:51	59
26/1/2016 6:56	59
26/1/2016 23:01	60
26/1/2016 23:06	62
26/1/2016 23:11	60
26/1/2016 23:16	59
26/1/2016 23:21	61
26/1/2016 23:26	61
26/1/2016 23:31	59
26/1/2016 23:36	61
26/1/2016 23:41	60
26/1/2016 23:46	60
26/1/2016 23:51	60
26/1/2016 23:56	57

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

Normal Day 07:00-19:00

Table with 2 columns: Date/Time (e.g., 28/12/2015 7:01) and Value (e.g., 62). Rows range from 28/12/2015 7:01 to 2/1/2016 12:01.

Table with 2 columns: Date/Time (e.g., 8/1/2016 7:01) and Value (e.g., 62). Rows range from 8/1/2016 7:01 to 13/1/2016 13:01.

Table with 2 columns: Date/Time (e.g., 13/1/2016 13:31) and Value (e.g., 65). Rows range from 13/1/2016 13:31 to 19/1/2016 7:31.

Table with 2 columns: Date/Time (e.g., 19/1/2016 8:01) and Value (e.g., 66). Rows range from 19/1/2016 8:01 to 23/1/2016 14:31.

Table with 2 columns: Date/Time (e.g., 23/1/2016 14:31) and Value (e.g., 67). Rows range from 23/1/2016 14:31 to 27/12/2015 10:51.

Normal Day 19:00-23:00
Sunday & Holiday
07:00-23:00

Table with 2 columns: Date/Time (e.g., 27/12/2015 7:01) and Value (e.g., 59). Rows range from 27/12/2015 7:01 to 27/12/2015 10:51.



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

Table with 6 columns: Date/Time, RTN2a (Hong Kong Electric Centre), Noise Level (dB), Date/Time, Noise Level (dB), Date/Time. Rows contain noise measurement data from 27/12/2015 10:56:48 to 27/12/2015 19:56:50.

















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

26/1/2016 3:41	58
26/1/2016 3:46	56
26/1/2016 3:51	55
26/1/2016 3:56	56
26/1/2016 4:01	56
26/1/2016 4:06	57
26/1/2016 4:11	56
26/1/2016 4:16	56
26/1/2016 4:21	55
26/1/2016 4:26	56
26/1/2016 4:31	57
26/1/2016 4:36	56
26/1/2016 4:41	56
26/1/2016 4:46	56
26/1/2016 4:51	56
26/1/2016 4:56	56
26/1/2016 5:01	56
26/1/2016 5:06	56
26/1/2016 5:11	56
26/1/2016 5:16	56
26/1/2016 5:21	56
26/1/2016 5:26	56
26/1/2016 5:31	57
26/1/2016 5:36	50
26/1/2016 5:41	58
26/1/2016 5:46	58
26/1/2016 5:51	58
26/1/2016 5:56	57
26/1/2016 6:01	57
26/1/2016 6:06	58
26/1/2016 6:11	47
26/1/2016 6:16	50
26/1/2016 6:21	53
26/1/2016 6:26	53
26/1/2016 6:31	55
26/1/2016 6:36	54
26/1/2016 6:41	56
26/1/2016 6:46	57
26/1/2016 6:51	58
26/1/2016 6:56	59
26/1/2016 23:01	57
26/1/2016 23:06	57
26/1/2016 23:11	60
26/1/2016 23:16	57
26/1/2016 23:21	57
26/1/2016 23:26	58
26/1/2016 23:31	57
26/1/2016 23:36	58
26/1/2016 23:41	58
26/1/2016 23:46	57
26/1/2016 23:51	57
26/1/2016 23:56	55

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

Normal Day 07:00-19:00

28/12/2015 7:01	66	2/1/2016 13:31	67	8/1/2016 7:01	68	13/1/2016 13:31	67	19/1/2016 8:01	67	23/1/2016 14:31	66
28/12/2015 7:31	68	2/1/2016 13:01	68	8/1/2016 7:31	67	13/1/2016 14:01	67	19/1/2016 8:31	65	23/1/2016 15:01	67
28/12/2015 8:01	66	2/1/2016 13:31	68	8/1/2016 8:01	68	13/1/2016 14:31	67	19/1/2016 9:01	65	23/1/2016 15:31	69
28/12/2015 8:31	68	2/1/2016 14:01	68	8/1/2016 8:31	66	13/1/2016 15:01	67	19/1/2016 9:31	65	23/1/2016 16:01	68
28/12/2015 9:01	68	2/1/2016 14:31	68	8/1/2016 9:01	67	13/1/2016 15:31	67	19/1/2016 10:01	68	23/1/2016 16:31	69
28/12/2015 9:31	68	2/1/2016 15:01	69	8/1/2016 9:31	66	13/1/2016 16:01	67	19/1/2016 10:31	68	23/1/2016 17:01	68
28/12/2015 10:01	67	2/1/2016 15:31	68	8/1/2016 10:01	68	13/1/2016 16:31	68	19/1/2016 11:01	68	23/1/2016 17:31	68
28/12/2015 10:31	67	2/1/2016 16:01	67	8/1/2016 10:31	68	13/1/2016 17:01	67	19/1/2016 11:31	67	23/1/2016 18:01	68
28/12/2015 10:31	67	2/1/2016 16:31	67	8/1/2016 11:01	68	13/1/2016 17:31	68	19/1/2016 12:01	68	23/1/2016 18:31	68
28/12/2015 11:01	68	2/1/2016 17:01	67	8/1/2016 11:31	67	13/1/2016 18:01	67	19/1/2016 12:31	68	25/1/2016 7:01	67
28/12/2015 11:31	68	2/1/2016 17:31	67	8/1/2016 12:01	67	13/1/2016 18:31	67	19/1/2016 13:01	67	25/1/2016 7:31	68
28/12/2015 12:01	68	2/1/2016 18:01	66	8/1/2016 12:31	67	14/1/2016 7:01	67	19/1/2016 13:31	68	25/1/2016 8:01	68
28/12/2015 12:31	68	2/1/2016 18:31	67	8/1/2016 13:01	67	14/1/2016 7:31	67	19/1/2016 14:01	68	25/1/2016 8:31	65
28/12/2015 13:01	68	4/1/2016 7:01	67	8/1/2016 13:31	68	14/1/2016 8:01	67	19/1/2016 14:31	68	25/1/2016 9:01	66
28/12/2015 13:31	68	4/1/2016 7:31	69	8/1/2016 14:01	69	14/1/2016 8:31	65	19/1/2016 15:01	67	25/1/2016 9:31	68
28/12/2015 14:01	68	4/1/2016 8:01	69	8/1/2016 14:31	67	14/1/2016 9:01	65	19/1/2016 15:31	68	25/1/2016 10:01	68
28/12/2015 14:31	67	4/1/2016 8:31	66	8/1/2016 15:01	68	14/1/2016 9:31	67	19/1/2016 16:01	67	25/1/2016 10:31	68
28/12/2015 14:31	67	4/1/2016 9:01	66	8/1/2016 15:31	68	14/1/2016 10:01	68	19/1/2016 16:31	67	25/1/2016 11:01	67
28/12/2015 15:01	66	4/1/2016 9:31	69	8/1/2016 16:01	67	14/1/2016 10:31	68	19/1/2016 17:01	67	25/1/2016 11:31	68
28/12/2015 15:31	68	4/1/2016 10:01	69	8/1/2016 16:31	67	14/1/2016 11:01	68	19/1/2016 17:31	67	25/1/2016 12:01	67
28/12/2015 16:01	67	4/1/2016 10:31	68	8/1/2016 17:01	67	14/1/2016 11:31	67	19/1/2016 18:01	66	25/1/2016 12:31	67
28/12/2015 16:31	68	4/1/2016 11:01	68	8/1/2016 17:31	68	14/1/2016 12:01	67	19/1/2016 18:31	67	25/1/2016 13:01	67
28/12/2015 17:01	67	4/1/2016 11:31	68	8/1/2016 18:01	66	14/1/2016 12:31	67	20/1/2016 7:01	67	25/1/2016 13:31	67
28/12/2015 17:31	67	4/1/2016 12:01	68	8/1/2016 18:31	66	14/1/2016 13:01	68	20/1/2016 7:31	67	25/1/2016 14:01	67
28/12/2015 18:01	67	4/1/2016 12:31	68	9/1/2016 7:01	66	14/1/2016 13:31	68	20/1/2016 8:01	66	25/1/2016 14:31	67
28/12/2015 18:31	66	4/1/2016 13:01	68	9/1/2016 7:31	66	14/1/2016 14:01	68	20/1/2016 8:31	65	25/1/2016 15:01	63
29/12/2015 7:01	66	4/1/2016 13:31	68	9/1/2016 8:01	68	14/1/2016 14:31	68	20/1/2016 9:01	66	25/1/2016 15:31	63
29/12/2015 7:31	67	4/1/2016 14:01	68	9/1/2016 8:31	67	14/1/2016 15:01	68	20/1/2016 9:31	66	25/1/2016 16:01	63
29/12/2015 8:01	68	4/1/2016 14:31	68	9/1/2016 9:01	68	14/1/2016 15:31	67	20/1/2016 10:01	66	25/1/2016 16:31	64
29/12/2015 8:31	68	4/1/2016 15:01	67	9/1/2016 9:31	67	14/1/2016 16:01	68	20/1/2016 10:31	67	25/1/2016 17:01	67
29/12/2015 9:01	68	4/1/2016 15:31	67	9/1/2016 10:01	67	14/1/2016 16:31	68	20/1/2016 11:01	65	25/1/2016 17:31	67
29/12/2015 9:31	68	4/1/2016 16:01	67	9/1/2016 10:31	67	14/1/2016 17:01	67	20/1/2016 11:31	68	25/1/2016 18:01	67
29/12/2015 10:01	67	4/1/2016 16:31	68	9/1/2016 11:01	68	14/1/2016 17:31	67	20/1/2016 12:01	67	25/1/2016 18:31	66
29/12/2015 10:31	67	4/1/2016 17:01	67	9/1/2016 11:31	67	14/1/2016 18:01	67	20/1/2016 12:31	68	26/1/2016 7:01	67
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31/12/2015 7:01	66	6/1/2016 13:31	67	12/1/2016 8:01	68	16/1/2016 14:31	64	22/1/2016 9:01	64		
31/12/2015 7:31	67	6/1/2016 14:01	67	12/1/2016 8:31	67	16/1/2016 15:01	67	22/1/2016 9:31	64		
31/12/2015 8:01	68	6/1/2016 14:31	67	12/1/2016 9:01							

Real-time Noise Data	RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)					
27/12/2015 10:56 66	27/12/2015 20:01 65	29/12/2015 21:06 66	31/12/2015 22:11 65	1/1/2016 15:16 66	2/1/2016 20:21 66	
27/12/2015 11:01 45	27/12/2015 20:06 65	29/12/2015 21:11 65	31/12/2015 22:16 66	1/1/2016 15:21 59	2/1/2016 20:26 65	
27/12/2015 11:06 66	27/12/2015 20:11 65	29/12/2015 21:16 65	31/12/2015 22:21 65	1/1/2016 15:26 66	2/1/2016 20:31 66	
27/12/2015 11:11 66	27/12/2015 20:16 66	29/12/2015 21:21 66	31/12/2015 22:26 65	1/1/2016 15:31 66	2/1/2016 20:36 65	
27/12/2015 11:16 66	27/12/2015 20:21 65	29/12/2015 21:26 65	31/12/2015 22:31 65	1/1/2016 15:36 66	2/1/2016 20:41 66	
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27/12/2015 11:26 66	27/12/2015 20:31 66	29/12/2015 21:36 66	31/12/2015 22:41 65	1/1/2016 15:46 66	2/1/2016 20:51 65	
27/12/2015 11:31 66	27/12/2015 20:36 65	29/12/2015 21:41 66	31/12/2015 22:46 65	1/1/2016 15:51 65	2/1/2016 20:56 65	
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27/12/2015 11:41 66	27/12/2015 20:46 65	29/12/2015 21:51 65	31/12/2015 22:56 57	1/1/2016 16:01 66	2/1/2016 21:06 65	
27/12/2015 11:46 66	27/12/2015 20:51 65	29/12/2015 21:56 66	1/1/2016 7:01 64	1/1/2016 16:06 66	2/1/2016 21:11 66	
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27/12/2015 12:41 66	27/12/2015 21:46 66	29/12/2015 22:51 66	1/1/2016 7:56 65	1/1/2016 17:01 66	2/1/2016 22:06 66	
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27/12/2015 12:56 53	27/12/2015 22:01 66	30/12/2015 19:06 66	1/1/2016 8:11 66	1/1/2016 17:16 66	2/1/2016 22:21 66	
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27/12/2015 13:21 66	27/12/2015 22:26 66	30/12/2015 19:31 53	1/1/2016 8:36 65	1/1/2016 17:41 66	2/1/2016 22:46 66	
27/12/2015 13:26 66	27/12/2015 22:31 66	30/12/2015 19:36 49	1/1/2016 8:41 66	1/1/2016 17:46 66	2/1/2016 22:51 66	
27/12/2015 13:31 66	27/12/2015 22:36 66	30/12/2015 19:41 57	1/1/2016 8:46 65	1/1/2016 17:51 46	2/1/2016 22:56 65	
27/12/2015 13:36 66	27/12/2015 22:41 66	30/12/2015 19:46 60	1/1/2016 8:51 65	1/1/2016 17:56 66	3/1/2016 7:01 64	
27/12/2015 13:41 66	27/12/2015 22:46 66	30/12/2015 19:51 56	1/1/2016 8:56 66	1/1/2016 18:01 66	3/1/2016 7:06 64	
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27/12/2015 13:51 66	27/12/2015 22:56 66	30/12/2015 20:01 66	1/1/2016 9:06 65	1/1/2016 18:11 66	3/1/2016 7:16 65	
27/12/2015 13:56 66	28/12/2015 19:01 40	30/12/2015 20:06 45	1/1/2016 9:11 65	1/1/2016 18:16 59	3/1/2016 7:21 63	
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27/12/2015 17:51 66	28/12/2015 22:56 65	31/12/2015 20:01 66	1/1/2016 13:06 66	1/1/2016 22:11 65	3/1/2016 11:16 61	
27/12/2015 17:56 47	29/12/2015 19:01 66	31/12/2015 20:06 57	1/1/2016 13:11 66	1/1/2016 22:16 65	3/1/2016 11:21 60	
27/12/2015 18:01 50	29/12/2015 19:06 57	31/12/2015 20:11 65	1/1/2016 13:16 66	1/1/2016 22:21 66	3/1/2016 11:26 62	
27/12/2015 18:06 66	29/12/2015					

Real-time Noise Data		RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)									
3/1/2016 13:26	56	3/1/2016 22:31	66	6/1/2016 19:36	58	8/1/2016 20:41	66	10/1/2016 9:46	64	10/1/2016 18:51	66
3/1/2016 13:31	56	3/1/2016 22:36	66	6/1/2016 19:41	61	8/1/2016 20:46	51	10/1/2016 9:51	49	10/1/2016 18:56	66
3/1/2016 13:36	58	3/1/2016 22:41	65	6/1/2016 19:46	59	8/1/2016 20:51	66	10/1/2016 9:56	66	10/1/2016 19:01	66
3/1/2016 13:41	51	3/1/2016 22:46	65	6/1/2016 19:51	56	8/1/2016 20:56	66	10/1/2016 10:01	66	10/1/2016 19:06	66
3/1/2016 13:46	56	3/1/2016 22:51	65	6/1/2016 19:56	66	8/1/2016 21:01	66	10/1/2016 10:06	66	10/1/2016 19:11	66
3/1/2016 13:51	46	3/1/2016 22:56	65	6/1/2016 20:01	66	8/1/2016 21:06	66	10/1/2016 10:11	66	10/1/2016 19:16	65
3/1/2016 13:56	52	4/1/2016 19:01	55	6/1/2016 20:06	66	8/1/2016 21:11	66	10/1/2016 10:16	54	10/1/2016 19:21	66
3/1/2016 14:01	58	4/1/2016 19:06	67	6/1/2016 20:11	66	8/1/2016 21:16	66	10/1/2016 10:21	53	10/1/2016 19:26	65
3/1/2016 14:06	59	4/1/2016 19:11	51	6/1/2016 20:16	61	8/1/2016 21:21	66	10/1/2016 10:26	66	10/1/2016 19:31	66
3/1/2016 14:11	61	4/1/2016 19:16	66	6/1/2016 20:21	51	8/1/2016 21:26	66	10/1/2016 10:31	59	10/1/2016 19:36	65
3/1/2016 14:16	50	4/1/2016 19:21	66	6/1/2016 20:26	53	8/1/2016 21:31	66	10/1/2016 10:36	66	10/1/2016 19:41	65
3/1/2016 14:21	59	4/1/2016 19:26	66	6/1/2016 20:31	51	8/1/2016 21:36	57	10/1/2016 10:41	66	10/1/2016 19:46	65
3/1/2016 14:26	64	4/1/2016 19:31	66	6/1/2016 20:36	56	8/1/2016 21:41	66	10/1/2016 10:46	60	10/1/2016 19:51	65
3/1/2016 14:31	69	4/1/2016 19:36	46	6/1/2016 20:41	66	8/1/2016 21:46	66	10/1/2016 10:51	56	10/1/2016 19:56	65
3/1/2016 14:36	59	4/1/2016 19:41	55	6/1/2016 20:46	66	8/1/2016 21:51	66	10/1/2016 10:56	54	10/1/2016 20:01	65
3/1/2016 14:41	66	4/1/2016 19:46	66	6/1/2016 20:51	66	8/1/2016 21:56	66	10/1/2016 11:01	66	10/1/2016 20:06	64
3/1/2016 14:46	64	4/1/2016 19:51	47	6/1/2016 20:56	66	8/1/2016 22:01	66	10/1/2016 11:06	45	10/1/2016 20:11	65
3/1/2016 14:51	64	4/1/2016 19:56	66	6/1/2016 21:01	66	8/1/2016 22:06	66	10/1/2016 11:11	58	10/1/2016 20:16	65
3/1/2016 14:56	62	4/1/2016 20:01	54	6/1/2016 21:06	66	8/1/2016 22:11	66	10/1/2016 11:16	56	10/1/2016 20:21	65
3/1/2016 15:01	60	4/1/2016 20:06	46	6/1/2016 21:11	66	8/1/2016 22:16	65	10/1/2016 11:21	53	10/1/2016 20:26	64
3/1/2016 15:06	61	4/1/2016 20:11	66	6/1/2016 21:16	66	8/1/2016 22:21	50	10/1/2016 11:26	56	10/1/2016 20:31	65
3/1/2016 15:11	60	4/1/2016 20:16	43	6/1/2016 21:21	66	8/1/2016 22:26	66	10/1/2016 11:31	49	10/1/2016 20:36	56
3/1/2016 15:16	59	4/1/2016 20:21	66	6/1/2016 21:26	66	8/1/2016 22:31	66	10/1/2016 11:36	56	10/1/2016 20:41	65
3/1/2016 15:21	60	4/1/2016 20:26	66	6/1/2016 21:31	49	8/1/2016 22:36	66	10/1/2016 11:41	60	10/1/2016 20:46	65
3/1/2016 15:26	60	4/1/2016 20:31	66	6/1/2016 21:36	66	8/1/2016 22:41	66	10/1/2016 11:46	56	10/1/2016 20:51	65
3/1/2016 15:31	57	4/1/2016 20:36	66	6/1/2016 21:41	50	8/1/2016 22:46	66	10/1/2016 11:51	66	10/1/2016 20:56	65
3/1/2016 15:36	60	4/1/2016 20:41	66	6/1/2016 21:46	66	8/1/2016 22:51	66	10/1/2016 11:56	66	10/1/2016 21:01	65
3/1/2016 15:41	60	4/1/2016 20:46	66	6/1/2016 21:51	66	8/1/2016 22:56	65	10/1/2016 12:01	54	10/1/2016 21:06	65
3/1/2016 15:46	60	4/1/2016 20:51	66	6/1/2016 21:56	66	9/1/2016 19:01	66	10/1/2016 12:06	43	10/1/2016 21:11	65
3/1/2016 15:51	58	4/1/2016 20:56	66	6/1/2016 22:01	66	9/1/2016 19:06	67	10/1/2016 12:11	49	10/1/2016 21:16	65
3/1/2016 15:56	59	4/1/2016 21:01	66	6/1/2016 22:06	66	9/1/2016 19:11	66	10/1/2016 12:16	66	10/1/2016 21:21	65
3/1/2016 16:01	55	4/1/2016 21:06	65	6/1/2016 22:11	66	9/1/2016 19:16	66	10/1/2016 12:21	51	10/1/2016 21:26	65
3/1/2016 16:06	58	4/1/2016 21:11	66	6/1/2016 22:16	66	9/1/2016 19:21	53	10/1/2016 12:26	49	10/1/2016 21:31	65
3/1/2016 16:11	58	4/1/2016 21:16	65	6/1/2016 22:21	66	9/1/2016 19:26	66	10/1/2016 12:31	52	10/1/2016 21:36	65
3/1/2016 16:16	60	4/1/2016 21:21	65	6/1/2016 22:26	66	9/1/2016 19:31	66	10/1/2016 12:36	53	10/1/2016 21:41	65
3/1/2016 16:21	58	4/1/2016 21:26	65	6/1/2016 22:31	66	9/1/2016 19:36	66	10/1/2016 12:41	66	10/1/2016 21:46	64
3/1/2016 16:26	59	4/1/2016 21:31	65	6/1/2016 22:36	66	9/1/2016 19:41	66	10/1/2016 12:46	57	10/1/2016 21:51	65
3/1/2016 16:31	57	4/1/2016 21:36	65	6/1/2016 22:41	66	9/1/2016 19:46	66	10/1/2016 12:51	49	10/1/2016 21:56	65
3/1/2016 16:36	55	4/1/2016 21:41	65	6/1/2016 22:46	53	9/1/2016 19:51	66	10/1/2016 12:56	66	10/1/2016 22:01	65
3/1/2016 16:41	51	4/1/2016 21:46	65	6/1/2016 22:51	66	9/1/2016 19:56	66	10/1/2016 13:01	66	10/1/2016 22:06	66
3/1/2016 16:46	66	4/1/2016 21:51	66	6/1/2016 22:56	65	9/1/2016 20:01	66	10/1/2016 13:06	56	10/1/2016 22:11	66
3/1/2016 16:51	66	4/1/2016 21:56	66	7/1/2016 19:01	66	9/1/2016 20:06	66	10/1/2016 13:11	45	10/1/2016 22:16	66
3/1/2016 16:56	66	4/1/2016 22:01	65	7/1/2016 19:06	56	9/1/2016 20:11	53	10/1/2016 13:16	66	10/1/2016 22:21	51
3/1/2016 17:01	55	4/1/2016 22:06	66	7/1/2016 19:11	66	9/1/2016 20:16	66	10/1/2016 13:21	66	10/1/2016 22:26	60
3/1/2016 17:06	56	4/1/2016 22:11	66	7/1/2016 19:16	57	9/1/2016 20:21	66	10/1/2016 13:26	59	10/1/2016 22:31	59
3/1/2016 17:11	66	4/1/2016 22:16	65	7/1/2016 19:21	55	9/1/2016 20:26	66	10/1/2016 13:31	43	10/1/2016 22:36	53
3/1/2016 17:16	52	4/1/2016 22:21	66	7/1/2016 19:26	50	9/1/2016 20:31	66	10/1/2016 13:36	54	10/1/2016 22:41	58
3/1/2016 17:21	51	4/1/2016 22:26	65	7/1/2016 19:31	66	9/1/2016 20:36	65	10/1/2016 13:41	66	10/1/2016 22:46	66
3/1/2016 17:26	55	4/1/2016 22:31	65	7/1/2016 19:36	66	9/1/2016 20:41	65	10/1/2016 13:46	59	10/1/2016 22:51	66
3/1/2016 17:31	55	4/1/2016 22:36	66	7/1/2016 19:41	66	9/1/2016 20:46	66	10/1/2016 13:51	43	10/1/2016 22:56	66
3/1/2016 17:36	66	4/1/2016 22:41	66	7/1/2016 19:46	66	9/1/2016 20:51	65	10/1/2016 13:56	66	11/1/2016 19:01	66
3/1/2016 17:41	59	4/1/2016 22:46	65	7/1/2016 19:51	66	9/1/2016 20:56	65	10/1/2016 14:01	55	11/1/2016 19:06	66
3/1/2016 17:46	50	4/1/2016 22:51	65	7/1/2016 19:56	66	9/1/2016 21:01	66	10/1/2016 14:06	66	11/1/2016 19:11	66
3/1/2016 17:51	58	4/1/2016 22:56	66	7/1/2016 20:01	66	9/1/2016 21:06	66	10/1/2016 14:11	66	11/1/2016 19:16	66
3/1/2016 17:56	55	5/1/2016 19:01	61	7/1/2016 20:06	66	9/1/2016 21:11	66	10/1/2016 14:16	61	11/1/2016 19:21	49
3/1/2016 18:01	47	5/1/2016 19:06	60	7/1/2016 20:11	66	9/1/2016 21:16	66	10/1/2016 14:21	58	11/1/2016 19:26	50
3/1/2016 18:06	48	5/1/2016 19:11	60	7/1/2016 20:16	66	9/1/2016 21:21	65	10/1/2016 14:26	51	11/1/2016 19:31	66
3/1/2016 18:11	54	5/1/2016 19:16	61	7/1/2016 20:21	57	9/1/2016 21:26	66	10/1/2016 14:31	55	11/1/2016 19:36	66
3/1/2016 18:16	54	5/1/2016 19:21	61	7/1/2016 20:26	66	9/1/2016 21:31	65	10/1/2016 14:36	49	11/1/2016 19:41	55
3/1/2016 18:21	56	5/1/2016 19:26	60	7/1/2016 20:31	52	9/1/2016 21:36	65	10/1/2016 14:41	66	11/1/2016 19:46	49
3/1/2016 18:26	57	5/1/2016 19:31	59	7/1/2016 20:36	66	9/1/2016 21:41	65	10/1/2016 14:46	53	11/1/2016 19:51	66
3/1/2016 18:31	56	5/1/2016 19:36	58	7/1/2016 20:41	66	9/1/2016 21:46	65	10/1/2016 14:51	61	11/1/2016 19:56	56
3/1/2016 18:36	56	5/1/2016 19:41	53	7/1/2016 20:46	43	9/1/2016 21:51	66	10/1/2016 14:56	63	11/1/2016 20:01	66
3/1/2016 18:41	66	5/1/2016 19:46	57	7/1/2016 20:51	66	9/1/2016 21:56	66	10/1/2016 15:01	49	11/1/2016 20:06	58
3/1/2016 18:46	66	5/1/2016 19:51	51	7/1/2016 20:56	66	9/1/2016 22:01	66	10/1/2016 15:06	54	11/1/2016 20:11	66
3/1/2016 18:51	66	5/1/2016 19:56	55	7/1/2016 21:01	66	9/1/2016 22:06	65	10/1/2016 15:11	66	11/1/2016 20:16	66
3/1/2016 18:56	49	5/1/2016 20:01	56	7/1/2016 21:06	66	9/1/2016 22:11	65	10/1/2016 15:16	66	11/1/2016 20:21	55
3/1/2016 19:01	49	5/1/2016 20:06	59	7/1/2016 21:11	66	9/1/2016 22:16	66	10/1/2016 15:21	66	11/1/2016 20:26	51
3/1/2016 19:06	53	5/1/2016 20:11	61	7/1/2016 21:16	66	9/1/2016 22:21	66	10/1/2016 15:26	58	11/1/2016 20:31	49
3/1/2016 19:11	66	5/1/2016 20:16	54	7/1/2016 21:21	65	9/1/2016 22:26	66	10/1/2016 15:31	66	11/1/2016 20:36	66
3/1/2016 19:16	66	5/1/2016 20:21	60	7/1/2016 21:26	66	9/1/2016 22:31	65	10/1/2016 15:36	66	11/1/2016 20:41	50
3/1/2016 19:21	66	5/1/2016 20:26	57	7/1/2016 21:31	66	9/1/2016 22:36	66	10/1/2016 15:41	51	11/1/2016 20:46	66
3/1/2016 19:26	43	5/1/2016 20:31	56	7/1/2016 21:36	66	9/1/2016 22:41	65	10/1/2016 15:46	66	11/1/2016 20:51	66
3/1/2016 19:31	66	5/1/2016 20:36	56	7/1/2016 21:41	66	9/1/2016 22:46	66	10/1/2016 15:51	66	11/1/2016 20:56	66
3/1/2016 19:36	66	5/1/2016 20:41	52	7/1/2016 21:46	66	9/1/2016 22:51	65	10/1/2016 15:56	58	11/1/2016 21:01	66
3/1/2016 19:41	66	5/1/2016 20:46	4								

Real-time Noise Data		RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)									
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12/1/2016 20:01	49	14/1/2016 21:06	66	16/1/2016 22:11	61	17/1/2016 15:16	60	18/1/2016 20:21	66	20/1/2016 21:26	66
12/1/2016 20:06	47	14/1/2016 21:11	65	16/1/2016 22:16	66	17/1/2016 15:21	60	18/1/2016 20:26	66	20/1/2016 21:31	66
12/1/2016 20:11	55	14/1/2016 21:16	66	16/1/2016 22:21	67	17/1/2016 15:26	58	18/1/2016 20:31	66	20/1/2016 21:36	54
12/1/2016 20:16	66	14/1/2016 21:21	65	16/1/2016 22:26	63	17/1/2016 15:31	61	18/1/2016 20:36	66	20/1/2016 21:41	66
12/1/2016 20:21	66	14/1/2016 21:26	66	16/1/2016 22:31	63	17/1/2016 15:36	46	18/1/2016 20:41	54	20/1/2016 21:46	48
12/1/2016 20:26	66	14/1/2016 21:31	66	16/1/2016 22:36	61	17/1/2016 15:41	59	18/1/2016 20:46	59	20/1/2016 21:51	66
12/1/2016 20:31	66	14/1/2016 21:36	66	16/1/2016 22:41	60	17/1/2016 15:46	61	18/1/2016 20:51	66	20/1/2016 21:56	66
12/1/2016 20:36	66	14/1/2016 21:41	66	16/1/2016 22:46	60	17/1/2016 15:51	60	18/1/2016 20:56	65	20/1/2016 22:01	54
12/1/2016 20:41	66	14/1/2016 21:46	66	16/1/2016 22:51	63	17/1/2016 15:56	57	18/1/2016 21:01	66	20/1/2016 22:06	66
12/1/2016 20:46	66	14/1/2016 21:51	40	16/1/2016 22:56	60	17/1/2016 16:01	59	18/1/2016 21:06	66	20/1/2016 22:11	66
12/1/2016 20:51	66	14/1/2016 21:56	65	17/1/2016 7:01	58	17/1/2016 16:06	57	18/1/2016 21:11	66	20/1/2016 22:16	66
12/1/2016 20:56	66	14/1/2016 22:01	66	17/1/2016 7:06	61	17/1/2016 16:11	58	18/1/2016 21:16	66	20/1/2016 22:21	66
12/1/2016 21:01	66	14/1/2016 22:06	65	17/1/2016 7:11	60	17/1/2016 16:16	55	18/1/2016 21:21	66	20/1/2016 22:26	66
12/1/2016 21:06	66	14/1/2016 22:11	66	17/1/2016 7:16	61	17/1/2016 16:21	56	18/1/2016 21:26	66	20/1/2016 22:31	51
12/1/2016 21:11	66	14/1/2016 22:16	66	17/1/2016 7:21	58	17/1/2016 16:26	55	18/1/2016 21:31	66	20/1/2016 22:36	40
12/1/2016 21:16	66	14/1/2016 22:21	66	17/1/2016 7:26	58	17/1/2016 16:31	60	18/1/2016 21:36	66	20/1/2016 22:41	43
12/1/2016 21:21	65	14/1/2016 22:26	66	17/1/2016 7:31	58	17/1/2016 16:36	57	18/1/2016 21:41	65	20/1/2016 22:46	66
12/1/2016 21:26	66	14/1/2016 22:31	66	17/1/2016 7:36	58	17/1/2016 16:41	62	18/1/2016 21:46	66	20/1/2016 22:51	66
12/1/2016 21:31	66	14/1/2016 22:36	66	17/1/2016 7:41	58	17/1/2016 16:46	60	18/1/2016 21:51	66	20/1/2016 22:56	66
12/1/2016 21:36	66	14/1/2016 22:41	65	17/1/2016 7:46	56	17/1/2016 16:51	58	18/1/2016 21:56	66	21/1/2016 19:01	57
12/1/2016 21:41	66	14/1/2016 22:46	66	17/1/2016 7:51	61	17/1/2016 16:56	60	18/1/2016 22:01	66	21/1/2016 19:06	47
12/1/2016 21:46	55	14/1/2016 22:51	66	17/1/2016 7:56	64	17/1/2016 17:01	64	18/1/2016 22:06	65	21/1/2016 19:11	58
12/1/2016 21:51	66	14/1/2016 22:56	65	17/1/2016 8:01	57	17/1/2016 17:06	60	18/1/2016 22:11	66	21/1/2016 19:16	55
12/1/2016 21:56	66	15/1/2016 19:01	63	17/1/2016 8:06	59	17/1/2016 17:11	54	18/1/2016 22:16	66	21/1/2016 19:21	61
12/1/2016 22:01	66	15/1/2016 19:06	64	17/1/2016 8:11	60	17/1/2016 17:16	59	18/1/2016 22:21	66	21/1/2016 19:26	56
12/1/2016 22:06	66	15/1/2016 19:11	63	17/1/2016 8:16	56	17/1/2016 17:21	57	18/1/2016 22:26	65	21/1/2016 19:31	53
12/1/2016 22:11	66	15/1/2016 19:16	63	17/1/2016 8:21	57	17/1/2016 17:26	53	18/1/2016 22:31	66	21/1/2016 19:36	59
12/1/2016 22:16	66	15/1/2016 19:21	64	17/1/2016 8:26	56	17/1/2016 17:31	51	18/1/2016 22:36	65	21/1/2016 19:41	49
12/1/2016 22:21	66	15/1/2016 19:26	64	17/1/2016 8:31	66	17/1/2016 17:36	59	18/1/2016 22:41	66	21/1/2016 19:46	52
12/1/2016 22:26	66	15/1/2016 19:31	63	17/1/2016 8:36	59	17/1/2016 17:41	55	18/1/2016 22:46	65	21/1/2016 19:51	66
12/1/2016 22:31	66	15/1/2016 19:36	64	17/1/2016 8:41	58	17/1/2016 17:46	51	18/1/2016 22:51	66	21/1/2016 19:56	66
12/1/2016 22:36	66	15/1/2016 19:41	64	17/1/2016 8:46	64	17/1/2016 17:51	55	18/1/2016 22:56	66	21/1/2016 20:01	51
12/1/2016 22:41	66	15/1/2016 19:46	56	17/1/2016 8:51	56	17/1/2016 17:56	55	19/1/2016 19:01	54	21/1/2016 20:06	58
12/1/2016 22:46	66	15/1/2016 19:51	60	17/1/2016 8:56	57	17/1/2016 18:01	52	19/1/2016 19:06	53	21/1/2016 20:11	66
12/1/2016 22:51	65	15/1/2016 19:56	61	17/1/2016 9:01	59	17/1/2016 18:06	57	19/1/2016 19:11	50	21/1/2016 20:16	55
12/1/2016 22:56	65	15/1/2016 20:01	59	17/1/2016 9:06	63	17/1/2016 18:11	50	19/1/2016 19:16	52	21/1/2016 20:21	66
13/1/2016 19:01	54	15/1/2016 20:06	60	17/1/2016 9:11	60	17/1/2016 18:16	58	19/1/2016 19:21	66	21/1/2016 20:26	53
13/1/2016 19:06	66	15/1/2016 20:11	61	17/1/2016 9:16	60	17/1/2016 18:21	56	19/1/2016 19:26	66	21/1/2016 20:31	66
13/1/2016 19:11	57	15/1/2016 20:16	61	17/1/2016 9:21	59	17/1/2016 18:26	61	19/1/2016 19:31	54	21/1/2016 20:36	66
13/1/2016 19:16	62	15/1/2016 20:21	61	17/1/2016 9:26	60	17/1/2016 18:31	56	19/1/2016 19:36	66	21/1/2016 20:41	66
13/1/2016 19:21	40	15/1/2016 20:26	63	17/1/2016 9:31	65	17/1/2016 18:36	59	19/1/2016 19:41	48	21/1/2016 20:46	54
13/1/2016 19:26	58	15/1/2016 20:31	60	17/1/2016 9:36	60	17/1/2016 18:41	57	19/1/2016 19:46	60	21/1/2016 20:51	66
13/1/2016 19:31	66	15/1/2016 20:36	58	17/1/2016 9:41	62	17/1/2016 18:46	58	19/1/2016 19:51	66	21/1/2016 20:56	66
13/1/2016 19:36	55	15/1/2016 20:41	57	17/1/2016 9:46	62	17/1/2016 18:51	58	19/1/2016 19:56	66	21/1/2016 21:01	66
13/1/2016 19:41	66	15/1/2016 20:46	60	17/1/2016 9:51	64	17/1/2016 18:56	60	19/1/2016 20:01	66	21/1/2016 21:06	66
13/1/2016 19:46	66	15/1/2016 20:51	52	17/1/2016 9:56	63	17/1/2016 19:01	56	19/1/2016 20:06	57	21/1/2016 21:11	66
13/1/2016 19:51	59	15/1/2016 20:56	51	17/1/2016 10:01	61	17/1/2016 19:06	57	19/1/2016 20:11	66	21/1/2016 21:16	66
13/1/2016 19:56	66	15/1/2016 21:01	55	17/1/2016 10:06	62	17/1/2016 19:11	66	19/1/2016 20:16	66	21/1/2016 21:21	66
13/1/2016 20:01	66	15/1/2016 21:06	56	17/1/2016 10:11	64	17/1/2016 19:16	66	19/1/2016 20:21	53	21/1/2016 21:26	66
13/1/2016 20:06	50	15/1/2016 21:11	50	17/1/2016 10:16	61	17/1/2016 19:21	59	19/1/2016 20:26	65	21/1/2016 21:31	66
13/1/2016 20:11	60	15/1/2016 21:16	59	17/1/2016 10:21	61	17/1/2016 19:26	66	19/1/2016 20:31	66	21/1/2016 21:36	66
13/1/2016 20:16	66	15/1/2016 21:21	53	17/1/2016 10:26	61	17/1/2016 19:31	66	19/1/2016 20:36	66	21/1/2016 21:41	66
13/1/2016 20:21	66	15/1/2016 21:26	53	17/1/2016 10:31	61	17/1/2016 19:36	49	19/1/2016 20:41	65	21/1/2016 21:46	65
13/1/2016 20:26	64	15/1/2016 21:31	49	17/1/2016 10:36	62	17/1/2016 19:41	57	19/1/2016 20:46	66	21/1/2016 21:51	45
13/1/2016 20:31	66	15/1/2016 21:36	55	17/1/2016 10:41	61	17/1/2016 19:46	50	19/1/2016 20:51	66	21/1/2016 21:56	66
13/1/2016 20:36	66	15/1/2016 21:41	66	17/1/2016 10:46	61	17/1/2016 19:51	66	19/1/2016 20:56	65	21/1/2016 22:01	66
13/1/2016 20:41	66	15/1/2016 21:46	58	17/1/2016 10:51	61	17/1/2016 19:56	58	19/1/2016 21:01	65	21/1/2016 22:06	66
13/1/2016 20:46	66	15/1/2016 21:51	57	17/1/2016 10:56	60	17/1/2016 20:01	66	19/1/2016 21:06	66	21/1/2016 22:11	66
13/1/2016 20:51	66	15/1/2016 21:56	49	17/1/2016 11:01	64	17/1/2016 20:06	66	19/1/2016 21:11	53	21/1/2016 22:16	66
13/1/2016 20:56	66	15/1/2016 22:01	66	17/1/2016 11:06	61	17/1/2016 20:11	66	19/1/2016 21:16	66	21/1/2016 22:21	66
13/1/2016 21:01	66	15/1/2016 22:06	55	17/1/2016 11:11	61	17/1/2016 20:16	47	19/1/2016 21:21	66	21/1/2016 22:26	66
13/1/2016 21:06	66	15/1/2016 22:11	66	17/1/2016 11:16	63	17/1/2016 20:21	66	19/1/2016 21:26	66	21/1/2016 22:31	66
13/1/2016 21:11	66	15/1/2016 22:16	56	17/1/2016 11:21	66	17/1/2016 20:26	54	19/1/2016 21:31	66	21/1/2016 22:36	66
13/1/2016 21:16	66	15/1/2016 22:21	54	17/1/2016 11:26	60	17/1/2016 20:31	66	19/1/2016 21:36	57	21/1/2016 22:41	66
13/1/2016 21:21	65	15/1/2016 22:26	52	17/1/2016 11:31	66	17/1/2016 20:36	66	19/1/2016 21:41	51	21/1/2016 22:46	50
13/1/2016 21:26	66	15/1/2016 22:31	57	17/1/2016 11:36	54	17/1/2016 20:41	66	19/1/2016 21:46	66	21/1/2016 22:51	66
13/1/2016 21:31	65	15/1/2016 22:36	57	17/1/2016 11:41	55	17/1/2016 20:46	66	19/1/2016 21:51	66	21/1/2016 22:56	66
13/1/2016 21:36	66	15/1/2016 22:41	51	17/1/2016 11:46	61	17/1/2016 20:51	66	19/1/2016 21:56	66	22/1/2016 19:01	64
13/1/2016 21:41	66	15/1/2016 22:46	58	17/1/2016 11:51	47	17/1/2016 20:56	62	19/1/2016 22:01	66	22/1/2016 19:06	63
13/1/2016 21:46	66	15/1/2016 22:51	46	17/1/2016 11:56	52	17/1/2016 21:01	57	19/1/2016 22:06	66	22/1/2016 19:11	62
13/1/2016 21:51	66	15/1/2016 22:56	53	17/1/2016 12:01	58	17/1/2016 21:06	51	19/1/2016 22:11	65	22/1/2016 19:16	63
13/1/2016 21:56	66	16/1/2016 19:01	58	17/1/2016 12:06	54	17/1/2016 21:11	66	19/1/2016 22:16	66	22/1/2016 19:21	63
13/1/2016 22:01	65	16/1/2016 19:06	58	17/1/2016 12:11	60	17/1/2016 21:16	66	19/1/2016 22:			

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

22/1/2016 22:26	58	24/1/2016 11:31	63	24/1/2016 20:36	62	26/1/2016 21:41	53	27/12/2015 23:31	61	29/12/2015 0:36	59
22/1/2016 22:31	63	24/1/2016 11:36	63	24/1/2016 20:41	58	26/1/2016 21:46	66	27/12/2015 23:36	62	29/12/2015 0:41	52
22/1/2016 22:36	61	24/1/2016 11:41	63	24/1/2016 20:46	59	26/1/2016 21:51	66	27/12/2015 23:41	62	29/12/2015 0:46	46
22/1/2016 22:41	58	24/1/2016 11:46	63	24/1/2016 20:51	62	26/1/2016 21:56	56	27/12/2015 23:46	59	29/12/2015 0:51	52
22/1/2016 22:46	62	24/1/2016 11:51	64	24/1/2016 20:56	58	26/1/2016 22:01	66	27/12/2015 23:51	55	29/12/2015 0:56	54
22/1/2016 22:51	60	24/1/2016 11:56	64	24/1/2016 21:01	57	26/1/2016 22:06	66	27/12/2015 23:56	58	29/12/2015 1:01	62
22/1/2016 22:56	61	24/1/2016 12:01	66	24/1/2016 21:06	61	26/1/2016 22:11	66	28/12/2015 0:01	58	29/12/2015 1:06	42
23/1/2016 19:01	61	24/1/2016 12:06	63	24/1/2016 21:11	58	26/1/2016 22:16	66	28/12/2015 0:06	59	29/12/2015 1:11	63
23/1/2016 19:06	59	24/1/2016 12:11	64	24/1/2016 21:16	48	26/1/2016 22:21	66	28/12/2015 0:11	58	29/12/2015 1:16	63
23/1/2016 19:11	62	24/1/2016 12:16	63	24/1/2016 21:21	56	26/1/2016 22:26	66	28/12/2015 0:16	54	29/12/2015 1:21	58
23/1/2016 19:16	63	24/1/2016 12:21	64	24/1/2016 21:26	66	26/1/2016 22:31	66	28/12/2015 0:21	60	29/12/2015 1:26	62
23/1/2016 19:21	63	24/1/2016 12:26	63	24/1/2016 21:31	54	26/1/2016 22:36	66	28/12/2015 0:26	58	29/12/2015 1:31	47
23/1/2016 19:26	64	24/1/2016 12:31	64	24/1/2016 21:36	56	26/1/2016 22:41	66	28/12/2015 0:31	53	29/12/2015 1:36	63
23/1/2016 19:31	64	24/1/2016 12:36	63	24/1/2016 21:41	56	26/1/2016 22:46	66	28/12/2015 0:36	56	29/12/2015 1:41	62
23/1/2016 19:36	64	24/1/2016 12:41	62	24/1/2016 21:46	62	26/1/2016 22:51	66	28/12/2015 0:41	52	29/12/2015 1:46	62
23/1/2016 19:41	61	24/1/2016 12:46	61	24/1/2016 21:51	59	26/1/2016 22:56	65	28/12/2015 0:46	63	29/12/2015 1:51	61
23/1/2016 19:46	61	24/1/2016 12:51	63	24/1/2016 21:56	61			28/12/2015 0:51	62	29/12/2015 1:56	61
23/1/2016 19:51	61	24/1/2016 12:56	63	24/1/2016 22:01	64			28/12/2015 0:56	62	29/12/2015 2:01	61
23/1/2016 19:56	58	24/1/2016 13:01	62	24/1/2016 22:06	61			28/12/2015 1:01	63	29/12/2015 2:06	62
23/1/2016 20:01	57	24/1/2016 13:06	62	24/1/2016 22:11	57			28/12/2015 1:06	62	29/12/2015 2:11	61
23/1/2016 20:06	66	24/1/2016 13:11	61	24/1/2016 22:16	62	27/12/2015 0:01	58	28/12/2015 1:11	63	29/12/2015 2:16	61
23/1/2016 20:11	54	24/1/2016 13:16	61	24/1/2016 22:21	54	27/12/2015 0:06	59	28/12/2015 1:16	63	29/12/2015 2:21	61
23/1/2016 20:16	57	24/1/2016 13:21	58	24/1/2016 22:26	59	27/12/2015 0:11	58	28/12/2015 1:21	61	29/12/2015 2:26	61
23/1/2016 20:21	45	24/1/2016 13:26	57	24/1/2016 22:31	60	27/12/2015 0:16	57	28/12/2015 1:26	62	29/12/2015 2:31	61
23/1/2016 20:26	66	24/1/2016 13:31	61	24/1/2016 22:36	58	27/12/2015 0:21	57	28/12/2015 1:31	62	29/12/2015 2:36	61
23/1/2016 20:31	66	24/1/2016 13:36	60	24/1/2016 22:41	55	27/12/2015 0:26	58	28/12/2015 1:36	62	29/12/2015 2:41	61
23/1/2016 20:36	67	24/1/2016 13:41	61	24/1/2016 22:46	40	27/12/2015 0:31	56	28/12/2015 1:36	62	29/12/2015 2:41	61
23/1/2016 20:41	54	24/1/2016 13:46	60	24/1/2016 22:46	40	27/12/2015 0:36	61	28/12/2015 1:41	61	29/12/2015 2:46	60
23/1/2016 20:46	66	24/1/2016 13:51	61	24/1/2016 22:51	66	27/12/2015 0:41	56	28/12/2015 1:46	61	29/12/2015 2:51	61
23/1/2016 20:51	66	24/1/2016 13:56	61	24/1/2016 22:56	57	27/12/2015 0:46	59	28/12/2015 1:51	62	29/12/2015 2:56	60
23/1/2016 20:56	66	24/1/2016 14:01	60	25/1/2016 19:01	45	27/12/2015 0:51	52	28/12/2015 1:56	61	29/12/2015 3:01	60
23/1/2016 21:01	66	24/1/2016 14:06	63	25/1/2016 19:06	66	27/12/2015 0:56	55	28/12/2015 2:01	61	29/12/2015 3:06	60
23/1/2016 21:06	66	24/1/2016 14:11	63	25/1/2016 19:11	65	27/12/2015 1:01	37	28/12/2015 2:06	61	29/12/2015 3:11	63
23/1/2016 21:11	66	24/1/2016 14:16	62	25/1/2016 19:16	66	27/12/2015 1:06	55	28/12/2015 2:11	62	29/12/2015 3:16	61
23/1/2016 21:16	66	24/1/2016 14:21	63	25/1/2016 19:21	66	27/12/2015 1:11	54	28/12/2015 2:16	60	29/12/2015 3:21	60
23/1/2016 21:21	66	24/1/2016 14:26	63	25/1/2016 19:26	56	27/12/2015 1:16	57	28/12/2015 2:21	61	29/12/2015 3:26	60
23/1/2016 21:26	57	24/1/2016 14:31	65	25/1/2016 19:31	53	27/12/2015 1:21	52	28/12/2015 2:26	61	29/12/2015 3:31	68
23/1/2016 21:31	66	24/1/2016 14:36	62	25/1/2016 19:36	66	27/12/2015 1:26	63	28/12/2015 2:31	61	29/12/2015 3:36	60
23/1/2016 21:36	55	24/1/2016 14:41	64	25/1/2016 19:41	56	27/12/2015 1:31	63	28/12/2015 2:36	60	29/12/2015 3:41	60
23/1/2016 21:41	56	24/1/2016 14:46	63	25/1/2016 19:46	66	27/12/2015 1:36	48	28/12/2015 2:41	59	29/12/2015 3:46	60
23/1/2016 21:46	51	24/1/2016 14:51	64	25/1/2016 19:51	54	27/12/2015 1:41	58	28/12/2015 2:46	59	29/12/2015 3:51	60
23/1/2016 21:51	62	24/1/2016 14:56	63	25/1/2016 19:56	56	27/12/2015 1:46	63	28/12/2015 2:51	60	29/12/2015 3:56	59
23/1/2016 21:56	61	24/1/2016 15:01	63	25/1/2016 20:01	66	27/12/2015 1:51	63	28/12/2015 2:56	59	29/12/2015 4:01	60
23/1/2016 22:01	57	24/1/2016 15:06	64	25/1/2016 20:06	66	27/12/2015 1:56	54	28/12/2015 3:01	59	29/12/2015 4:06	60
23/1/2016 22:06	55	24/1/2016 15:11	64	25/1/2016 20:11	55	27/12/2015 2:01	63	28/12/2015 3:06	59	29/12/2015 4:11	59
23/1/2016 22:11	58	24/1/2016 15:16	63	25/1/2016 20:16	58	27/12/2015 2:06	63	28/12/2015 3:11	58	29/12/2015 4:16	60
23/1/2016 22:16	57	24/1/2016 15:21	63	25/1/2016 20:21	49	27/12/2015 2:11	49	28/12/2015 3:16	59	29/12/2015 4:21	60
23/1/2016 22:21	57	24/1/2016 15:26	63	25/1/2016 20:26	66	27/12/2015 2:16	62	28/12/2015 3:21	60	29/12/2015 4:26	60
23/1/2016 22:26	56	24/1/2016 15:31	62	25/1/2016 20:31	66	27/12/2015 2:21	55	28/12/2015 3:26	59	29/12/2015 4:31	58
23/1/2016 22:31	60	24/1/2016 15:36	62	25/1/2016 20:36	66	27/12/2015 2:26	62	28/12/2015 3:31	59	29/12/2015 4:36	60
23/1/2016 22:36	57	24/1/2016 15:41	63	25/1/2016 20:41	54	27/12/2015 2:31	62	28/12/2015 3:36	59	29/12/2015 4:41	59
23/1/2016 22:41	51	24/1/2016 15:46	64	25/1/2016 20:46	66	27/12/2015 2:36	62	28/12/2015 3:41	59	29/12/2015 4:46	59
23/1/2016 22:46	53	24/1/2016 15:51	64	25/1/2016 20:51	66	27/12/2015 2:41	62	28/12/2015 3:46	59	29/12/2015 4:51	59
23/1/2016 22:51	59	24/1/2016 15:56	62	25/1/2016 20:56	65	27/12/2015 2:46	61	28/12/2015 3:51	59	29/12/2015 4:56	59
23/1/2016 22:56	59	24/1/2016 16:01	64	25/1/2016 21:01	66	27/12/2015 2:51	63	28/12/2015 3:56	59	29/12/2015 5:01	60
24/1/2016 7:01	65	24/1/2016 16:06	63	25/1/2016 21:06	66	27/12/2015 2:56	62	28/12/2015 4:01	60	29/12/2015 5:06	60
24/1/2016 7:06	65	24/1/2016 16:11	62	25/1/2016 21:11	65	27/12/2015 3:01	61	28/12/2015 4:06	59	29/12/2015 5:11	59
24/1/2016 7:11	66	24/1/2016 16:16	63	25/1/2016 21:16	66	27/12/2015 3:06	62	28/12/2015 4:11	59	29/12/2015 5:16	60
24/1/2016 7:16	59	24/1/2016 16:21	63	25/1/2016 21:21	66	27/12/2015 3:11	61	28/12/2015 4:16	59	29/12/2015 5:21	61
24/1/2016 7:21	62	24/1/2016 16:26	66	25/1/2016 21:26	65	27/12/2015 3:16	62	28/12/2015 4:21	60	29/12/2015 5:26	61
24/1/2016 7:26	66	24/1/2016 16:31	64	25/1/2016 21:31	65	27/12/2015 3:21	61	28/12/2015 4:26	59	29/12/2015 5:31	61
24/1/2016 7:31	60	24/1/2016 16:36	64	25/1/2016 21:36	66	27/12/2015 3:26	61	28/12/2015 4:31	59	29/12/2015 5:36	61
24/1/2016 7:36	58	24/1/2016 16:41	64	25/1/2016 21:41	65	27/12/2015 3:31	61	28/12/2015 4:36	59	29/12/2015 5:41	61
24/1/2016 7:41	62	24/1/2016 16:46	64	25/1/2016 21:46	65	27/12/2015 3:36	62	28/12/2015 4:41	60	29/12/2015 5:46	62
24/1/2016 7:46	60	24/1/2016 16:51	64	25/1/2016 21:51	65	27/12/2015 3:41	61	28/12/2015 4:46	60	29/12/2015 5:51	63
24/1/2016 7:51	60	24/1/2016 16:56	64	25/1/2016 21:56	65	27/12/2015 3:46	61	28/12/2015 4:51	60	29/12/2015 5:56	61
24/1/2016 7:56	63	24/1/2016 17:01	62	25/1/2016 22:01	51	27/12/2015 3:51	62	28/12/2015 4:56	60	29/12/2015 6:01	61
24/1/2016 8:01	66	24/1/2016 17:06	62	25/1/2016 22:06	66	27/12/2015 3:56	61	28/12/2015 5:01	60	29/12/2015 6:06	62
24/1/2016 8:06	64	24/1/2016 17:11	62	25/1/2016 22:11	66	27/12/2015 4:01	61	28/12/2015 5:06	60	29/12/2015 6:11	62
24/1/2016 8:11	66	24/1/2016 17:16	62	25/1/2016 22:16	66	27/12/2015 4:06	60	28/12/2015 5:11	59	29/12/2015 6:16	62
24/1/2016 8:16	65	24/1/2016 17:21	62	25/1/2016 22:21	66	27/12/2015 4:11	61	28/12/2015 5:16	60	29/12/2015 6:21	47
24/1/2016 8:21	66	24/1/2016 17:26	62	25/1/2016 22:26	65	27/12/2015 4:16	61	28/12/2015 5:21	60	29/12/2015 6:26	63
24/1/2016 8:26	65	24/1/2016 17:31	63	25/1/2016 22:31	66	27/12/2015 4:21	61	28/12/2015 5:26	61	29/12/2015 6:31	55
24/1/2016 8:31	66	24/1/2016 17:36	64	25/1/2016 22:36	66	27/12/2015 4:26	60	28/12/2015 5:31	61	29/12/2015 6:36	57
24/1/2016 8:36											

Real-time Noise Data		RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)									
30/12/2015 1:41	62	31/12/2015 2:46	62	1/1/2016 3:51	63	2/1/2016 4:56	59	3/1/2016 6:01	62	4/1/2016 23:06	63
30/12/2015 1:46	62	31/12/2015 2:51	61	1/1/2016 3:56	62	2/1/2016 5:01	61	3/1/2016 6:06	62	4/1/2016 23:11	62
30/12/2015 1:51	61	31/12/2015 2:56	62	1/1/2016 4:01	62	2/1/2016 5:06	60	3/1/2016 6:11	62	4/1/2016 23:16	61
30/12/2015 1:56	61	31/12/2015 3:01	62	1/1/2016 4:06	62	2/1/2016 5:11	60	3/1/2016 6:16	61	4/1/2016 23:21	60
30/12/2015 2:01	61	31/12/2015 3:06	62	1/1/2016 4:11	56	2/1/2016 5:16	59	3/1/2016 6:21	63	4/1/2016 23:26	62
30/12/2015 2:06	61	31/12/2015 3:11	61	1/1/2016 4:16	62	2/1/2016 5:21	60	3/1/2016 6:26	62	4/1/2016 23:31	62
30/12/2015 2:11	63	31/12/2015 3:16	61	1/1/2016 4:21	62	2/1/2016 5:26	61	3/1/2016 6:31	63	4/1/2016 23:36	65
30/12/2015 2:16	61	31/12/2015 3:21	61	1/1/2016 4:26	63	2/1/2016 5:31	60	3/1/2016 6:36	51	4/1/2016 23:41	65
30/12/2015 2:21	61	31/12/2015 3:26	61	1/1/2016 4:31	46	2/1/2016 5:36	61	3/1/2016 6:41	54	4/1/2016 23:46	63
30/12/2015 2:26	60	31/12/2015 3:31	61	1/1/2016 4:36	63	2/1/2016 5:41	60	3/1/2016 6:46	54	4/1/2016 23:51	56
30/12/2015 2:31	61	31/12/2015 3:36	60	1/1/2016 4:41	62	2/1/2016 5:46	62	3/1/2016 6:51	52	4/1/2016 23:56	59
30/12/2015 2:36	60	31/12/2015 3:41	61	1/1/2016 4:46	62	2/1/2016 5:51	61	3/1/2016 6:56	54	5/1/2016 0:01	59
30/12/2015 2:41	61	31/12/2015 3:46	61	1/1/2016 4:51	62	2/1/2016 5:56	61	3/1/2016 23:01	60	5/1/2016 0:06	57
30/12/2015 2:46	61	31/12/2015 3:51	60	1/1/2016 4:56	62	2/1/2016 6:01	61	3/1/2016 23:06	61	5/1/2016 0:11	62
30/12/2015 2:51	61	31/12/2015 3:56	61	1/1/2016 5:01	61	2/1/2016 6:06	61	3/1/2016 23:11	60	5/1/2016 0:16	58
30/12/2015 2:56	61	31/12/2015 4:01	60	1/1/2016 5:06	62	2/1/2016 6:11	62	3/1/2016 23:16	61	5/1/2016 0:21	58
30/12/2015 3:01	61	31/12/2015 4:06	61	1/1/2016 5:11	62	2/1/2016 6:16	62	3/1/2016 23:21	61	5/1/2016 0:26	58
30/12/2015 3:06	61	31/12/2015 4:11	59	1/1/2016 5:16	62	2/1/2016 6:21	63	3/1/2016 23:26	61	5/1/2016 0:31	62
30/12/2015 3:11	60	31/12/2015 4:16	59	1/1/2016 5:21	62	2/1/2016 6:26	63	3/1/2016 23:31	59	5/1/2016 0:36	52
30/12/2015 3:16	61	31/12/2015 4:21	60	1/1/2016 5:26	62	2/1/2016 6:31	51	3/1/2016 23:36	59	5/1/2016 0:41	51
30/12/2015 3:21	60	31/12/2015 4:26	59	1/1/2016 5:31	61	2/1/2016 6:36	54	3/1/2016 23:41	59	5/1/2016 0:46	52
30/12/2015 3:26	59	31/12/2015 4:31	61	1/1/2016 5:36	47	2/1/2016 6:41	56	3/1/2016 23:46	60	5/1/2016 0:51	58
30/12/2015 3:31	60	31/12/2015 4:36	60	1/1/2016 5:41	62	2/1/2016 6:46	59	3/1/2016 23:51	53	5/1/2016 0:56	49
30/12/2015 3:36	60	31/12/2015 4:41	60	1/1/2016 5:46	63	2/1/2016 6:51	60	3/1/2016 23:56	60	5/1/2016 1:01	49
30/12/2015 3:41	60	31/12/2015 4:46	60	1/1/2016 5:51	63	2/1/2016 6:56	59	4/1/2016 0:01	56	5/1/2016 1:06	45
30/12/2015 3:46	60	31/12/2015 4:51	62	1/1/2016 5:56	62	2/1/2016 23:01	62	4/1/2016 0:06	55	5/1/2016 1:11	63
30/12/2015 3:51	58	31/12/2015 4:56	61	1/1/2016 6:01	63	2/1/2016 23:06	63	4/1/2016 0:11	63	5/1/2016 1:16	62
30/12/2015 3:56	60	31/12/2015 5:01	61	1/1/2016 6:06	63	2/1/2016 23:11	62	4/1/2016 0:16	63	5/1/2016 1:21	63
30/12/2015 4:01	59	31/12/2015 5:06	61	1/1/2016 6:11	53	2/1/2016 23:16	62	4/1/2016 0:21	63	5/1/2016 1:26	62
30/12/2015 4:06	60	31/12/2015 5:11	61	1/1/2016 6:16	53	2/1/2016 23:21	61	4/1/2016 0:26	47	5/1/2016 1:31	61
30/12/2015 4:11	59	31/12/2015 5:16	61	1/1/2016 6:21	63	2/1/2016 23:26	61	4/1/2016 0:31	55	5/1/2016 1:36	46
30/12/2015 4:16	60	31/12/2015 5:21	61	1/1/2016 6:26	61	2/1/2016 23:31	60	4/1/2016 0:36	62	5/1/2016 1:41	63
30/12/2015 4:21	60	31/12/2015 5:26	61	1/1/2016 6:31	59	2/1/2016 23:36	61	4/1/2016 0:41	62	5/1/2016 1:46	61
30/12/2015 4:26	59	31/12/2015 5:31	61	1/1/2016 6:36	56	2/1/2016 23:41	62	4/1/2016 0:46	63	5/1/2016 1:51	61
30/12/2015 4:31	58	31/12/2015 5:36	62	1/1/2016 6:41	60	2/1/2016 23:46	61	4/1/2016 0:51	62	5/1/2016 1:56	61
30/12/2015 4:36	59	31/12/2015 5:41	62	1/1/2016 6:46	57	2/1/2016 23:51	61	4/1/2016 0:56	62	5/1/2016 2:01	61
30/12/2015 4:41	59	31/12/2015 5:46	62	1/1/2016 6:51	60	2/1/2016 23:56	62	4/1/2016 1:01	62	5/1/2016 2:06	60
30/12/2015 4:46	60	31/12/2015 5:51	63	1/1/2016 6:56	53	3/1/2016 0:01	59	4/1/2016 1:06	62	5/1/2016 2:11	61
30/12/2015 4:51	59	31/12/2015 5:56	61	1/1/2016 23:01	61	3/1/2016 0:06	60	4/1/2016 1:11	62	5/1/2016 2:16	61
30/12/2015 4:56	60	31/12/2015 6:01	62	1/1/2016 23:06	58	4/1/2016 0:11	60	4/1/2016 1:16	62	5/1/2016 2:21	60
30/12/2015 5:01	59	31/12/2015 6:06	63	1/1/2016 23:11	61	3/1/2016 0:16	59	4/1/2016 1:21	62	5/1/2016 2:26	60
30/12/2015 5:06	59	31/12/2015 6:11	63	1/1/2016 23:16	64	3/1/2016 0:21	59	4/1/2016 1:26	62	5/1/2016 2:31	60
30/12/2015 5:11	60	31/12/2015 6:16	63	1/1/2016 23:21	60	3/1/2016 0:26	59	4/1/2016 1:31	62	5/1/2016 2:36	60
30/12/2015 5:16	60	31/12/2015 6:21	56	1/1/2016 23:26	60	3/1/2016 0:31	66	4/1/2016 1:36	61	5/1/2016 2:41	59
30/12/2015 5:21	60	31/12/2015 6:26	56	1/1/2016 23:31	58	3/1/2016 0:36	55	4/1/2016 1:41	60	5/1/2016 2:46	54
30/12/2015 5:26	60	31/12/2015 6:31	55	1/1/2016 23:36	59	3/1/2016 0:41	56	4/1/2016 1:46	60	5/1/2016 2:51	59
30/12/2015 5:31	60	31/12/2015 6:36	58	1/1/2016 23:41	59	3/1/2016 0:46	58	4/1/2016 1:51	62	5/1/2016 2:56	59
30/12/2015 5:36	61	31/12/2015 6:41	60	1/1/2016 23:46	60	3/1/2016 0:51	56	4/1/2016 1:56	59	5/1/2016 3:01	58
30/12/2015 5:41	62	31/12/2015 6:46	60	1/1/2016 23:51	56	3/1/2016 0:56	57	4/1/2016 2:01	60	5/1/2016 3:06	59
30/12/2015 5:46	62	31/12/2015 6:51	61	1/1/2016 23:56	60	3/1/2016 1:01	61	4/1/2016 2:06	60	5/1/2016 3:11	58
30/12/2015 5:51	61	31/12/2015 6:56	63	2/1/2016 0:01	55	3/1/2016 1:06	51	4/1/2016 2:11	61	5/1/2016 3:16	59
30/12/2015 5:56	62	31/12/2015 23:01	60	2/1/2016 0:06	58	3/1/2016 1:11	50	4/1/2016 2:16	61	5/1/2016 3:21	60
30/12/2015 6:01	62	31/12/2015 23:06	59	2/1/2016 0:11	55	3/1/2016 1:16	63	4/1/2016 2:21	60	5/1/2016 3:26	60
30/12/2015 6:06	62	31/12/2015 23:11	62	2/1/2016 0:16	58	3/1/2016 1:21	53	4/1/2016 2:26	61	5/1/2016 3:31	60
30/12/2015 6:11	62	31/12/2015 23:16	61	2/1/2016 0:21	61	3/1/2016 1:26	49	4/1/2016 2:31	59	5/1/2016 3:36	60
30/12/2015 6:16	62	31/12/2015 23:21	61	2/1/2016 0:26	59	3/1/2016 1:31	52	4/1/2016 2:36	61	5/1/2016 3:41	59
30/12/2015 6:21	63	31/12/2015 23:26	62	2/1/2016 0:31	58	3/1/2016 1:36	43	4/1/2016 2:41	60	5/1/2016 3:46	59
30/12/2015 6:26	56	31/12/2015 23:31	62	2/1/2016 0:36	48	3/1/2016 1:41	62	4/1/2016 2:46	60	5/1/2016 3:51	58
30/12/2015 6:31	63	31/12/2015 23:36	60	2/1/2016 0:41	63	3/1/2016 1:46	62	4/1/2016 2:51	58	5/1/2016 3:56	59
30/12/2015 6:36	57	31/12/2015 23:41	62	2/1/2016 0:46	63	3/1/2016 1:51	62	4/1/2016 2:56	59	5/1/2016 4:01	58
30/12/2015 6:41	57	31/12/2015 23:46	57	2/1/2016 0:51	63	3/1/2016 1:56	62	4/1/2016 3:01	59	5/1/2016 4:06	59
30/12/2015 6:46	59	31/12/2015 23:51	60	2/1/2016 0:56	63	3/1/2016 2:01	62	4/1/2016 3:06	59	5/1/2016 4:11	59
30/12/2015 6:51	60	31/12/2015 23:56	62	2/1/2016 1:01	62	3/1/2016 2:06	62	4/1/2016 3:11	58	5/1/2016 4:16	58
30/12/2015 6:56	61	1/1/2016 0:01	71	2/1/2016 1:06	62	3/1/2016 2:11	62	4/1/2016 3:16	59	5/1/2016 4:21	60
30/12/2015 23:01	62	1/1/2016 0:06	68	2/1/2016 1:11	63	3/1/2016 2:16	62	4/1/2016 3:21	59	5/1/2016 4:26	59
30/12/2015 23:06	62	1/1/2016 0:11	61	2/1/2016 1:16	55	3/1/2016 2:21	61	4/1/2016 3:26	59	5/1/2016 4:31	60
30/12/2015 23:11	63	1/1/2016 0:16	63	2/1/2016 1:21	62	3/1/2016 2:26	62	4/1/2016 3:31	57	5/1/2016 4:36	61
30/12/2015 23:16	63	1/1/2016 0:21	37	2/1/2016 1:26	63	3/1/2016 2:31	62	4/1/2016 3:36	60	5/1/2016 4:41	60
30/12/2015 23:21	62	1/1/2016 0:26	59	2/1/2016 1:31	48	3/1/2016 2:36	62	4/1/2016 3:41	59	5/1/2016 4:46	60
30/12/2015 23:26	62	1/1/2016 0:31	60	2/1/2016 1:36	62	3/1/2016 2:41	61	4/1/2016 3:46	59	5/1/2016 4:51	60
30/12/2015 23:31	61	1/1/2016 0:36	63	2/1/2016 1:41	62	3/1/2016 2:46	62	4/1/2016 3:51	59	5/1/2016 4:56	60
30/12/2015 23:36	64	1/1/2016 0:41	61	2/1/2016 1:46	63	3/1/2016 2:51	63	4/1/2016 3:56	59	5/1/2016 5:01	60
30/12/2015 23:41	61	1/1/2016 0:46	60	2/1/2016 1:51	63	3/1/2016 2:56	61	4/1/2016 4:01	60	5/1/2016 5:06	60
30/12/2015 23:46	62	1/1/2016 0:51	61	2/1/2016 1:56	63	3/1/2016 3:01	61	4/1/2016 4:06	59	5/1/2016 5:11	59
30/12/2015 23:51	64	1/1/2016 0:56	62	2/1/2016 2:01	61	3/1/2016 3:06	60	4/1/2016 4:11	59	5/1/2016 5:16	60
30/12/2015 23:56	61	1/1/2016 1:01	61	2/1/2016 2:06	62	3/1/2016 3:11	60	4/1/2016 4:16	59	5/1/2016 5:21	60
31/12/2015 0:01	61	1/1/2016 1:06	62	2/1/2016 2:11	63	3/1/2016 3:16	60	4/1/2016 4:21	58	5/1/2016 5:26	60
31/12											

Real-time Noise Data		RTN3 (Po Leung Kuk Yu Lee Mo Fan Memorial School)									
6/1/2016 0:11	61	7/1/2016 1:16	62	8/1/2016 2:21	62	9/1/2016 3:26	62	10/1/2016 4:31	62	11/1/2016 5:36	50
6/1/2016 0:16	57	7/1/2016 1:21	51	8/1/2016 2:26	62	9/1/2016 3:31	62	10/1/2016 4:36	61	11/1/2016 5:41	48
6/1/2016 0:21	59	7/1/2016 1:26	55	8/1/2016 2:31	61	9/1/2016 3:36	62	10/1/2016 4:41	60	11/1/2016 5:46	58
6/1/2016 0:26	59	7/1/2016 1:31	61	8/1/2016 2:36	60	9/1/2016 3:41	62	10/1/2016 4:46	61	11/1/2016 5:51	62
6/1/2016 0:31	58	7/1/2016 1:36	62	8/1/2016 2:41	60	9/1/2016 3:46	61	10/1/2016 4:51	61	11/1/2016 5:56	62
6/1/2016 0:36	58	7/1/2016 1:41	63	8/1/2016 2:46	60	9/1/2016 3:51	62	10/1/2016 4:56	48	11/1/2016 6:01	61
6/1/2016 0:41	58	7/1/2016 1:46	62	8/1/2016 2:51	60	9/1/2016 3:56	62	10/1/2016 5:01	62	11/1/2016 6:06	61
6/1/2016 0:46	50	7/1/2016 1:51	62	8/1/2016 2:56	61	9/1/2016 4:01	61	10/1/2016 5:06	61	11/1/2016 6:11	61
6/1/2016 0:51	50	7/1/2016 1:56	61	8/1/2016 3:01	61	9/1/2016 4:06	62	10/1/2016 5:11	61	11/1/2016 6:16	62
6/1/2016 0:56	55	7/1/2016 2:01	62	8/1/2016 3:06	60	9/1/2016 4:11	62	10/1/2016 5:16	61	11/1/2016 6:21	64
6/1/2016 1:01	63	7/1/2016 2:06	62	8/1/2016 3:11	60	9/1/2016 4:16	61	10/1/2016 5:21	61	11/1/2016 6:26	66
6/1/2016 1:06	45	7/1/2016 2:11	62	8/1/2016 3:16	60	9/1/2016 4:21	60	10/1/2016 5:26	60	11/1/2016 6:31	66
6/1/2016 1:11	63	7/1/2016 2:16	61	8/1/2016 3:21	60	9/1/2016 4:26	62	10/1/2016 5:31	61	11/1/2016 6:36	66
6/1/2016 1:16	62	7/1/2016 2:21	61	8/1/2016 3:26	61	9/1/2016 4:31	62	10/1/2016 5:36	62	11/1/2016 6:41	68
6/1/2016 1:21	63	7/1/2016 2:26	62	8/1/2016 3:31	60	9/1/2016 4:36	61	10/1/2016 5:41	62	11/1/2016 6:46	68
6/1/2016 1:26	62	7/1/2016 2:31	61	8/1/2016 3:36	59	9/1/2016 4:41	62	10/1/2016 5:46	61	11/1/2016 6:51	68
6/1/2016 1:31	62	7/1/2016 2:36	60	8/1/2016 3:41	60	9/1/2016 4:46	61	10/1/2016 5:51	61	11/1/2016 6:56	68
6/1/2016 1:36	62	7/1/2016 2:41	60	8/1/2016 3:46	61	9/1/2016 4:51	62	10/1/2016 5:56	62	11/1/2016 23:01	61
6/1/2016 1:41	62	7/1/2016 2:46	60	8/1/2016 3:51	58	9/1/2016 4:56	61	10/1/2016 6:01	55	11/1/2016 23:06	61
6/1/2016 1:46	61	7/1/2016 2:51	60	8/1/2016 3:56	60	9/1/2016 5:01	61	10/1/2016 6:06	61	11/1/2016 23:11	60
6/1/2016 1:51	62	7/1/2016 2:56	61	8/1/2016 4:01	61	9/1/2016 5:06	61	10/1/2016 6:11	61	11/1/2016 23:16	61
6/1/2016 1:56	61	7/1/2016 3:01	59	8/1/2016 4:06	60	9/1/2016 5:11	61	10/1/2016 6:16	62	11/1/2016 23:21	62
6/1/2016 2:01	62	7/1/2016 3:06	61	8/1/2016 4:11	60	9/1/2016 5:16	61	10/1/2016 6:21	62	11/1/2016 23:26	63
6/1/2016 2:06	62	7/1/2016 3:11	61	8/1/2016 4:16	59	9/1/2016 5:21	61	10/1/2016 6:26	63	11/1/2016 23:31	60
6/1/2016 2:11	61	7/1/2016 3:16	59	8/1/2016 4:21	60	9/1/2016 5:26	62	10/1/2016 6:31	62	11/1/2016 23:36	61
6/1/2016 2:16	62	7/1/2016 3:21	59	8/1/2016 4:26	61	9/1/2016 5:31	61	10/1/2016 6:36	52	11/1/2016 23:41	60
6/1/2016 2:21	60	7/1/2016 3:26	60	8/1/2016 4:31	59	9/1/2016 5:36	62	10/1/2016 6:41	63	11/1/2016 23:46	60
6/1/2016 2:26	61	7/1/2016 3:31	59	8/1/2016 4:36	59	9/1/2016 5:41	62	10/1/2016 6:46	42	11/1/2016 23:51	60
6/1/2016 2:31	61	7/1/2016 3:36	61	8/1/2016 4:41	59	9/1/2016 5:46	62	10/1/2016 6:51	53	11/1/2016 23:56	59
6/1/2016 2:36	61	7/1/2016 3:41	59	8/1/2016 4:46	59	9/1/2016 5:51	63	10/1/2016 6:56	57	12/1/2016 0:01	60
6/1/2016 2:41	61	7/1/2016 3:46	58	8/1/2016 4:51	60	9/1/2016 5:56	62	10/1/2016 23:01	64	12/1/2016 0:06	57
6/1/2016 2:46	61	7/1/2016 3:51	60	8/1/2016 4:56	61	9/1/2016 6:01	62	10/1/2016 23:06	63	12/1/2016 0:11	58
6/1/2016 2:51	60	7/1/2016 3:56	60	8/1/2016 5:01	60	9/1/2016 6:06	62	10/1/2016 23:11	64	12/1/2016 0:16	58
6/1/2016 2:56	62	7/1/2016 4:01	59	8/1/2016 5:06	59	9/1/2016 6:11	62	10/1/2016 23:16	63	12/1/2016 0:21	59
6/1/2016 3:01	60	7/1/2016 4:06	60	8/1/2016 5:11	59	9/1/2016 6:16	48	10/1/2016 23:21	63	12/1/2016 0:26	62
6/1/2016 3:06	60	7/1/2016 4:11	59	8/1/2016 5:16	61	9/1/2016 6:21	63	10/1/2016 23:26	64	12/1/2016 0:31	57
6/1/2016 3:11	60	7/1/2016 4:16	60	8/1/2016 5:21	60	9/1/2016 6:26	54	10/1/2016 23:31	64	12/1/2016 0:36	53
6/1/2016 3:16	60	7/1/2016 4:21	60	8/1/2016 5:26	61	9/1/2016 6:31	57	10/1/2016 23:36	63	12/1/2016 0:41	57
6/1/2016 3:21	60	7/1/2016 4:26	59	8/1/2016 5:31	62	9/1/2016 6:36	57	10/1/2016 23:41	62	12/1/2016 0:46	54
6/1/2016 3:26	60	7/1/2016 4:31	59	8/1/2016 5:36	63	9/1/2016 6:41	57	10/1/2016 23:46	63	12/1/2016 0:51	54
6/1/2016 3:31	60	7/1/2016 4:36	60	8/1/2016 5:41	61	9/1/2016 6:46	58	10/1/2016 23:51	62	12/1/2016 0:56	51
6/1/2016 3:36	61	7/1/2016 4:41	59	8/1/2016 5:46	61	9/1/2016 6:51	63	10/1/2016 23:56	63	12/1/2016 1:01	63
6/1/2016 3:41	61	7/1/2016 4:46	60	8/1/2016 5:51	62	9/1/2016 6:56	62	11/1/2016 0:01	65	12/1/2016 1:06	63
6/1/2016 3:46	60	7/1/2016 4:51	60	8/1/2016 5:56	63	9/1/2016 23:01	61	11/1/2016 0:06	64	12/1/2016 1:11	63
6/1/2016 3:51	60	7/1/2016 4:56	60	8/1/2016 6:01	63	9/1/2016 23:06	61	11/1/2016 0:11	61	12/1/2016 1:16	62
6/1/2016 3:56	60	7/1/2016 5:01	61	8/1/2016 6:06	63	9/1/2016 23:11	61	11/1/2016 0:16	59	12/1/2016 1:21	63
6/1/2016 4:01	60	7/1/2016 5:06	60	8/1/2016 6:11	53	9/1/2016 23:16	61	11/1/2016 0:21	61	12/1/2016 1:26	63
6/1/2016 4:06	60	7/1/2016 5:11	60	8/1/2016 6:16	63	9/1/2016 23:21	62	11/1/2016 0:26	61	12/1/2016 1:31	62
6/1/2016 4:11	58	7/1/2016 5:16	61	8/1/2016 6:21	56	9/1/2016 23:26	61	11/1/2016 0:31	58	12/1/2016 1:36	63
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6/1/2016 4:46	61	7/1/2016 5:51	62	8/1/2016 6:56	67	10/1/2016 0:01	60	11/1/2016 1:06	63	12/1/2016 2:11	62
6/1/2016 4:51	60	7/1/2016 5:56	62	8/1/2016 23:01	63	10/1/2016 0:06	59	11/1/2016 1:11	57	12/1/2016 2:16	61
6/1/2016 4:56	60	7/1/2016 6:01	61	8/1/2016 23:06	62	10/1/2016 0:11	60	11/1/2016 1:16	55	12/1/2016 2:21	62
6/1/2016 5:01	60	7/1/2016 6:06	62	8/1/2016 23:11	63	10/1/2016 0:16	60	11/1/2016 1:21	57	12/1/2016 2:26	61
6/1/2016 5:06	60	7/1/2016 6:11	53	8/1/2016 23:16	62	10/1/2016 0:21	60	11/1/2016 1:26	55	12/1/2016 2:31	61
6/1/2016 5:11	61	7/1/2016 6:16	54	8/1/2016 23:21	62	10/1/2016 0:26	59	11/1/2016 1:31	58	12/1/2016 2:36	61
6/1/2016 5:16	60	7/1/2016 6:21	57	8/1/2016 23:26	63	10/1/2016 0:31	61	11/1/2016 1:36	55	12/1/2016 2:41	61
6/1/2016 5:21	61	7/1/2016 6:26	55	8/1/2016 23:31	60	10/1/2016 0:36	57	11/1/2016 1:41	57	12/1/2016 2:46	60
6/1/2016 5:26	61	7/1/2016 6:31	60	8/1/2016 23:36	62	10/1/2016 0:41	58	11/1/2016 1:46	53	12/1/2016 2:51	60
6/1/2016 5:31	61	7/1/2016 6:36	59	8/1/2016 23:41	63	10/1/2016 0:46	56	11/1/2016 1:51	55	12/1/2016 2:56	60
6/1/2016 5:36	63	7/1/2016 6:41	60	8/1/2016 23:46	62	10/1/2016 0:51	59	11/1/2016 1:56	63	12/1/2016 3:01	59
6/1/2016 5:41	62	7/1/2016 6:46	62	8/1/2016 23:51	62	10/1/2016 0:56	57	11/1/2016 2:01	61	12/1/2016 3:06	60
6/1/2016 5:46	62	7/1/2016 6:51	63	8/1/2016 23:56	61	10/1/2016 1:01	57	11/1/2016 2:06	62	12/1/2016 3:11	60
6/1/2016 5:51	62	7/1/2016 6:56	66	9/1/2016 0:01	61	10/1/2016 1:06	62	11/1/2016 2:11	47	12/1/2016 3:16	60
6/1/2016 5:56	62	7/1/2016 23:01	61	9/1/2016 0:06	62	10/1/2016 1:11	59	11/1/2016 2:16	62	12/1/2016 3:21	60
6/1/2016 6:01	62	7/1/2016 23:06	62	9/1/2016 0:11	61	10/1/2016 1:16	63	11/1/2016 2:21	62	12/1/2016 3:26	60
6/1/2016 6:06	51	7/1/2016 23:11	63	9/1/2016 0:16	59	10/1/2016 1:21	56	11/1/2016 2:26	61	12/1/2016 3:31	60
6/1/2016 6:11	63	7/1/2016 23:16	62	9/1/2016 0:21	59	10/1/2016 1:26	48	11/1/2016 2:31	61	12/1/2016 3:36	61
6/1/2016 6:16	50	7/1/2016 23:21	63	9/1/2016 0:26	61	10/1/2016 1:31	63	11/1/2016 2:36	61	12/1/2016 3:41	60
6/1/2016 6:21	50	7/1/2016 23:26	62	9/1/2016 0:31	60	10/1/2016 1:36	63	11/1/2016 2:41	61	12/1/2016 3:46	59
6/1/2016 6:26	58	7/1/2016 23:31	60	9/1/2016 0:36	58	10/1/2016 1:41	63	11/1/2016 2:46	61	12/1/2016 3:51	59
6/1/2016 6:31	59	7/1/2016 23:36	61	9/1/2016 0:41	61	10/1/2016 1:46	62	11/1/2016 2:51	60	12/1/2016 3:56	59
6/1/2016 6:36	60	7/1/2016 23:41	62	9/1/2016 0:46	59	10/1/2016 1:51	63	11/1/2016 2:56	60		







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

26/1/2016 3:41	61
26/1/2016 3:46	58
26/1/2016 3:51	59
26/1/2016 3:56	61
26/1/2016 4:01	60
26/1/2016 4:06	60
26/1/2016 4:11	59
26/1/2016 4:16	59
26/1/2016 4:21	60
26/1/2016 4:26	62
26/1/2016 4:31	59
26/1/2016 4:36	60
26/1/2016 4:41	60
26/1/2016 4:46	60
26/1/2016 4:51	60
26/1/2016 4:56	61
26/1/2016 5:01	60
26/1/2016 5:06	59
26/1/2016 5:11	59
26/1/2016 5:16	61
26/1/2016 5:21	60
26/1/2016 5:26	61
26/1/2016 5:31	62
26/1/2016 5:36	62
26/1/2016 5:41	61
26/1/2016 5:46	61
26/1/2016 5:51	61
26/1/2016 5:56	62
26/1/2016 6:01	62
26/1/2016 6:06	63
26/1/2016 6:11	62
26/1/2016 6:16	53
26/1/2016 6:21	55
26/1/2016 6:26	60
26/1/2016 6:31	58
26/1/2016 6:36	59
26/1/2016 6:41	61
26/1/2016 6:46	61
26/1/2016 6:51	61
26/1/2016 6:56	64
26/1/2016 23:01	61
26/1/2016 23:06	61
26/1/2016 23:11	62
26/1/2016 23:16	60
26/1/2016 23:21	61
26/1/2016 23:26	63
26/1/2016 23:31	61
26/1/2016 23:36	62
26/1/2016 23:41	63
26/1/2016 23:46	62
26/1/2016 23:51	60
26/1/2016 23:56	60













Real-time Noise Data	RTN4 (Causeway Bay Community Centre)				
30/12/2015 1:40 63	31/12/2015 2:45 60	1/1/2016 3:50 63	2/1/2016 4:55 61	3/1/2016 6:00 61	4/1/2016 23:05 65
30/12/2015 1:45 61	31/12/2015 2:50 56	1/1/2016 3:55 62	2/1/2016 5:00 57	3/1/2016 6:05 61	4/1/2016 23:10 65
30/12/2015 1:50 60	31/12/2015 2:55 59	1/1/2016 4:00 60	2/1/2016 5:05 58	3/1/2016 6:10 62	4/1/2016 23:15 65
30/12/2015 1:55 60	31/12/2015 3:00 58	1/1/2016 4:05 63	2/1/2016 5:10 61	3/1/2016 6:15 61	4/1/2016 23:20 64
30/12/2015 2:00 60	31/12/2015 3:05 61	1/1/2016 4:10 62	2/1/2016 5:15 56	3/1/2016 6:20 62	4/1/2016 23:25 64
30/12/2015 2:05 61	31/12/2015 3:10 58	1/1/2016 4:15 62	2/1/2016 5:20 61	3/1/2016 6:25 64	4/1/2016 23:30 65
30/12/2015 2:10 60	31/12/2015 3:15 57	1/1/2016 4:20 61	2/1/2016 5:25 59	3/1/2016 6:30 63	4/1/2016 23:35 66
30/12/2015 2:15 60	31/12/2015 3:20 57	1/1/2016 4:25 61	2/1/2016 5:30 55	3/1/2016 6:35 64	4/1/2016 23:40 66
30/12/2015 2:20 60	31/12/2015 3:25 55	1/1/2016 4:30 64	2/1/2016 5:35 59	3/1/2016 6:40 64	4/1/2016 23:45 64
30/12/2015 2:25 57	31/12/2015 3:30 56	1/1/2016 4:35 61	2/1/2016 5:40 59	3/1/2016 6:45 64	4/1/2016 23:50 63
30/12/2015 2:30 59	31/12/2015 3:35 55	1/1/2016 4:40 62	2/1/2016 5:45 60	3/1/2016 6:50 63	4/1/2016 23:55 63
30/12/2015 2:35 57	31/12/2015 3:40 58	1/1/2016 4:45 62	2/1/2016 5:50 62	3/1/2016 6:55 64	5/1/2016 0:00 65
30/12/2015 2:40 60	31/12/2015 3:45 54	1/1/2016 4:50 60	2/1/2016 5:55 59	3/1/2016 23:00 64	5/1/2016 0:05 63
30/12/2015 2:45 60	31/12/2015 3:50 53	1/1/2016 4:55 63	2/1/2016 6:00 55	3/1/2016 23:05 65	5/1/2016 0:10 63
30/12/2015 2:50 56	31/12/2015 3:55 55	1/1/2016 5:00 61	2/1/2016 6:05 59	3/1/2016 23:10 64	5/1/2016 0:15 62
30/12/2015 2:55 58	31/12/2015 4:00 55	1/1/2016 5:05 60	2/1/2016 6:10 61	3/1/2016 23:15 65	5/1/2016 0:20 62
30/12/2015 3:00 59	31/12/2015 4:05 59	1/1/2016 5:10 61	2/1/2016 6:15 62	3/1/2016 23:20 64	5/1/2016 0:25 63
30/12/2015 3:05 59	31/12/2015 4:10 61	1/1/2016 5:15 61	2/1/2016 6:20 63	3/1/2016 23:25 65	5/1/2016 0:30 63
30/12/2015 3:10 59	31/12/2015 4:15 51	1/1/2016 5:20 61	2/1/2016 6:25 63	3/1/2016 23:30 64	5/1/2016 0:35 63
30/12/2015 3:15 58	31/12/2015 4:20 61	1/1/2016 5:25 60	2/1/2016 6:30 65	3/1/2016 23:35 64	5/1/2016 0:40 62
30/12/2015 3:20 56	31/12/2015 4:25 61	1/1/2016 5:30 58	2/1/2016 6:35 64	3/1/2016 23:40 64	5/1/2016 0:45 63
30/12/2015 3:25 56	31/12/2015 4:30 58	1/1/2016 5:35 63	2/1/2016 6:40 65	3/1/2016 23:45 64	5/1/2016 0:50 62
30/12/2015 3:30 54	31/12/2015 4:35 56	1/1/2016 5:40 60	2/1/2016 6:45 65	3/1/2016 23:50 63	5/1/2016 0:55 62
30/12/2015 3:35 58	31/12/2015 4:40 61	1/1/2016 5:45 61	2/1/2016 6:50 65	3/1/2016 23:55 64	5/1/2016 1:00 62
30/12/2015 3:40 56	31/12/2015 4:45 55	1/1/2016 5:50 64	2/1/2016 6:55 63	4/1/2016 0:00 63	5/1/2016 1:05 62
30/12/2015 3:45 59	31/12/2015 4:50 58	1/1/2016 5:55 62	2/1/2016 23:00 65	4/1/2016 0:05 62	5/1/2016 1:10 62
30/12/2015 3:50 61	31/12/2015 4:55 54	1/1/2016 6:00 59	2/1/2016 23:05 66	4/1/2016 0:10 62	5/1/2016 1:15 60
30/12/2015 3:55 58	31/12/2015 5:00 59	1/1/2016 6:05 62	2/1/2016 23:10 66	4/1/2016 0:15 60	5/1/2016 1:20 61
30/12/2015 4:00 48	31/12/2015 5:05 52	1/1/2016 6:10 63	2/1/2016 23:15 65	4/1/2016 0:20 61	5/1/2016 1:25 61
30/12/2015 4:05 54	31/12/2015 5:10 58	1/1/2016 6:15 63	2/1/2016 23:20 64	4/1/2016 0:25 61	5/1/2016 1:30 60
30/12/2015 4:10 53	31/12/2015 5:15 57	1/1/2016 6:20 63	2/1/2016 23:25 65	4/1/2016 0:30 63	5/1/2016 1:35 62
30/12/2015 4:15 51	31/12/2015 5:20 57	1/1/2016 6:25 64	2/1/2016 23:30 65	4/1/2016 0:35 61	5/1/2016 1:40 61
30/12/2015 4:20 55	31/12/2015 5:25 54	1/1/2016 6:30 64	2/1/2016 23:35 65	4/1/2016 0:40 58	5/1/2016 1:45 60
30/12/2015 4:25 52	31/12/2015 5:30 57	1/1/2016 6:35 65	2/1/2016 23:40 65	4/1/2016 0:45 61	5/1/2016 1:50 58
30/12/2015 4:30 54	31/12/2015 5:35 59	1/1/2016 6:40 65	2/1/2016 23:45 65	4/1/2016 0:50 60	5/1/2016 1:55 56
30/12/2015 4:35 53	31/12/2015 5:40 61	1/1/2016 6:45 65	2/1/2016 23:50 65	4/1/2016 0:55 58	5/1/2016 2:00 58
30/12/2015 4:40 57	31/12/2015 5:45 61	1/1/2016 6:50 63	2/1/2016 23:55 64	4/1/2016 1:00 60	5/1/2016 2:05 52
30/12/2015 4:45 53	31/12/2015 5:50 62	1/1/2016 6:55 63	3/1/2016 0:00 63	4/1/2016 1:05 61	5/1/2016 2:10 59
30/12/2015 4:50 57	31/12/2015 5:55 58	1/1/2016 23:00 65	3/1/2016 0:05 64	4/1/2016 1:10 59	5/1/2016 2:15 60
30/12/2015 4:55 53	31/12/2015 6:00 61	1/1/2016 23:05 64	3/1/2016 0:10 64	4/1/2016 1:15 59	5/1/2016 2:20 57
30/12/2015 5:00 55	31/12/2015 6:05 62	1/1/2016 23:10 65	3/1/2016 0:15 64	4/1/2016 1:20 60	5/1/2016 2:25 56
30/12/2015 5:05 50	31/12/2015 6:10 61	1/1/2016 23:15 66	3/1/2016 0:20 64	4/1/2016 1:25 60	5/1/2016 2:30 59
30/12/2015 5:10 57	31/12/2015 6:15 62	1/1/2016 23:20 64	3/1/2016 0:25 63	4/1/2016 1:30 60	5/1/2016 2:35 57
30/12/2015 5:15 56	31/12/2015 6:20 65	1/1/2016 23:25 64	3/1/2016 0:30 66	4/1/2016 1:35 56	5/1/2016 2:40 55
30/12/2015 5:20 53	31/12/2015 6:25 65	1/1/2016 23:30 63	3/1/2016 0:35 64	4/1/2016 1:40 55	5/1/2016 2:45 55
30/12/2015 5:25 57	31/12/2015 6:30 65	1/1/2016 23:35 64	3/1/2016 0:40 63	4/1/2016 1:45 58	5/1/2016 2:50 58
30/12/2015 5:30 57	31/12/2015 6:35 65	1/1/2016 23:40 63	3/1/2016 0:45 63	4/1/2016 1:50 59	5/1/2016 2:55 61
30/12/2015 5:35 59	31/12/2015 6:40 65	1/1/2016 23:45 64	3/1/2016 0:50 65	4/1/2016 1:55 56	5/1/2016 3:00 61
30/12/2015 5:40 62	31/12/2015 6:45 65	1/1/2016 23:50 63	3/1/2016 0:55 64	4/1/2016 2:00 57	5/1/2016 3:05 53
30/12/2015 5:45 61	31/12/2015 6:50 65	1/1/2016 23:55 65	3/1/2016 1:00 65	4/1/2016 2:05 53	5/1/2016 3:10 51
30/12/2015 5:50 60	31/12/2015 6:55 66	2/1/2016 0:00 63	3/1/2016 1:05 63	4/1/2016 2:10 56	5/1/2016 3:15 61
30/12/2015 5:55 62	31/12/2015 23:00 66	2/1/2016 0:05 64	3/1/2016 1:10 62	4/1/2016 2:15 56	5/1/2016 3:20 55
30/12/2015 6:00 60	31/12/2015 23:05 65	2/1/2016 0:10 63	3/1/2016 1:15 63	4/1/2016 2:20 51	5/1/2016 3:25 57
30/12/2015 6:05 62	31/12/2015 23:10 66	2/1/2016 0:15 64	3/1/2016 1:20 63	4/1/2016 2:25 59	5/1/2016 3:30 58
30/12/2015 6:10 62	31/12/2015 23:15 68	2/1/2016 0:20 64	3/1/2016 1:25 62	4/1/2016 2:30 53	5/1/2016 3:35 56
30/12/2015 6:15 62	31/12/2015 23:20 66	2/1/2016 0:25 63	3/1/2016 1:30 62	4/1/2016 2:35 48	5/1/2016 3:40 53
30/12/2015 6:20 63	31/12/2015 23:25 66	2/1/2016 0:30 63	3/1/2016 1:35 63	4/1/2016 2:40 58	5/1/2016 3:45 61
30/12/2015 6:25 64	31/12/2015 23:30 66	2/1/2016 0:35 63	3/1/2016 1:40 61	4/1/2016 2:45 53	5/1/2016 3:50 51
30/12/2015 6:30 65	31/12/2015 23:35 65	2/1/2016 0:40 62	3/1/2016 1:45 61	4/1/2016 2:50 46	5/1/2016 3:55 55
30/12/2015 6:35 65	31/12/2015 23:40 66	2/1/2016 0:45 61	3/1/2016 1:50 60	4/1/2016 2:55 60	5/1/2016 4:00 61
30/12/2015 6:40 65	31/12/2015 23:45 63	2/1/2016 0:50 63	3/1/2016 1:55 61	4/1/2016 3:00 44	5/1/2016 4:05 54
30/12/2015 6:45 65	31/12/2015 23:50 64	2/1/2016 0:55 60	3/1/2016 2:00 61	4/1/2016 3:05 60	5/1/2016 4:10 56
30/12/2015 6:50 65	31/12/2015 23:55 62	2/1/2016 1:00 60	3/1/2016 2:05 60	4/1/2016 3:10 60	5/1/2016 4:15 46
30/12/2015 6:55 65	1/1/2016 0:00 75	2/1/2016 1:05 60	3/1/2016 2:10 58	4/1/2016 3:15 59	5/1/2016 4:20 56
30/12/2015 23:00 65	1/1/2016 0:05 79	2/1/2016 1:10 63	3/1/2016 2:15 59	4/1/2016 3:20 61	5/1/2016 4:25 49
30/12/2015 23:05 65	1/1/2016 0:10 67	2/1/2016 1:15 60	3/1/2016 2:20 57	4/1/2016 3:25 44	5/1/2016 4:30 59
30/12/2015 23:10 66	1/1/2016 0:15 55	2/1/2016 1:20 61	3/1/2016 2:25 60	4/1/2016 3:30 59	5/1/2016 4:35 56
30/12/2015 23:15 66	1/1/2016 0:20 58	2/1/2016 1:25 62	3/1/2016 2:30 60	4/1/2016 3:35 52	5/1/2016 4:40 59
30/12/2015 23:20 66	1/1/2016 0:25 61	2/1/2016 1:30 63	3/1/2016 2:35 61	4/1/2016 3:40 47	5/1/2016 4:45 60
30/12/2015 23:25 66	1/1/2016 0:30 64	2/1/2016 1:35 61	3/1/2016 2:40 59	4/1/2016 3:45 60	5/1/2016 4:50 55
30/12/2015 23:30 65	1/1/2016 0:35 65	2/1/2016 1:40 60	3/1/2016 2:45 59	4/1/2016 3:50 61	5/1/2016 4:55 55
30/12/2015 23:35 66	1/1/2016 0:40 64	2/1/2016 1:45 61	3/1/2016 2:50 61	4/1/2016 3:55 43	5/1/2016 5:00 51
30/12/2015 23:40 65	1/1/2016 0:45 65	2/1/2016 1:50 59	3/1/2016 2:55 58	4/1/2016 4:00 55	5/1/2016 5:05 54
30/12/2015 23:45 65	1/1/2016 0:50 65	2/1/2016 1:55 62	3/1/2016 3:00 56	4/1/2016 4:05 54	5/1/2016 5:10 56
30/12/2015 23:50 65	1/1/2016 0:55 65	2/1/2016 2:00 58	3/1/2016 3:05 53	4/1/2016 4:10 60	5/1/2016 5:15 54
30/12/2015 23:55 65	1/1/2016 1:00 65	2/1/2016 2:05 59	3/1/2016 3:10 59	4/1/2016 4:15 46	5/1/2016 5:20 59
31/12/2015 0:00 65	1/1/2016 1:05 65	2/1/2016 2:10 63	3/1/2016 3:15 58	4/1/2016 4:20 59	5/1/2016 5:25 55
31/12/2015 0:05 65	1/1/2016 1:10 66	2/1/2016 2:15 61	3/1/2016 3:20 51	4/1/2016 4:25 61	5/1/2016 5:30 59
31/12/2015 0:10 65	1/1/2016 1:15 65	2/1/2016 2:20 60	3/1/2016 3:25 57	4/1/2016 4:30 57	5/1/2016 5:35 61
31/12/2015 0:15 64	1/1/2016 1:20 64	2/1/2016 2:25 58	3/1/2016 3:30 56	4/1/2016 4:35 46	5/1/2016 5:40 59
31/12/2015 0:20 64	1/1/2016 1:25 64	2/1/2016 2:30 61	3/1/2016 3:35 58	4/1/2016 4:40 61	5/1/2016 5:45 61
31/12/2015 0:25 64	1/1/2016 1:30 65	2/1/2016 2:35 58	3/1/2016 3:40 59	4/1/2016 4:45 54	5/1/2016 5:50 60
31/12/2015 0:30 64	1/1/2016 1:35 65	2/1/2016 2:40 57	3/1/2016 3:45 56	4/1/2016 4:50 53	5/1/2016 5:55 61
31/12/2015 0:35 62	1/1/2016 1:40 65	2/1/2016 2:45 57	3/1/2016 3:50 59	4/1/2016 4:55 38	5/1/2016 6:00 58
31/12/2015 0:40 62	1/1/2016 1:45 64	2/1/2016 2:50 60	3/1/2016 3:55 45	4/1/2016 5:00 53	5/1/2016 6:05 62
31/12/2015 0:45 63	1/1/2016 1:50 64	2/1/2016 2:55 59	3/1/2016 4:00 57	4/1/2016 5:05 52	5/1/2016 6:10 62
31/12/2015 0:50 62	1/1/2016 1:55 64	2/1/2016 3:00 60	3/1/2016 4:05 49	4/1/2016 5:10 55	5/1/2016 6:15 62
31/12/2015 0:55 61	1/1/2016 2:00 64	2/1/2016 3:05 60	3/1/2016 4:10 58	4/1/2016 5:15 53	5/1/2016 6:20 63
31/12/2015 1:00 62	1/1/2016 2:05 64	2/1/2016 3:10 53	3/1/2016 4:15 57	4/1/2016 5:20 58	5/1/2016 6:25 64
31/12/2015 1:05 63	1/1/2016 2:10 64	2/1/2016 3:15 54	3/1/2016 4:20 57	4/1/2016 5:25 58	5/1/2016 6:30 65
31/12/2015 1:10 62	1/1/2016 2:15 64	2/1/2016 3:20 52	3/1/2016 4:25 61	4/1/2016 5:30 59	5/1/2016 6:35 65

Real-time Noise Data		RTN4 (Causeway Bay Community Centre)									
6/1/2016 0:10	64	7/1/2016 1:15	61	8/1/2016 2:20	59	9/1/2016 3:25	61	10/1/2016 4:30	61	11/1/2016 5:35	63
6/1/2016 0:15	64	7/1/2016 1:20	62	8/1/2016 2:25	59	9/1/2016 3:30	62	10/1/2016 4:35	60	11/1/2016 5:40	63
6/1/2016 0:20	64	7/1/2016 1:25	63	8/1/2016 2:30	58	9/1/2016 3:35	61	10/1/2016 4:40	56	11/1/2016 5:45	64
6/1/2016 0:25	64	7/1/2016 1:30	58	8/1/2016 2:35	57	9/1/2016 3:40	60	10/1/2016 4:45	59	11/1/2016 5:50	67
6/1/2016 0:30	64	7/1/2016 1:35	61	8/1/2016 2:40	60	9/1/2016 3:45	59	10/1/2016 4:50	58	11/1/2016 5:55	66
6/1/2016 0:35	63	7/1/2016 1:40	62	8/1/2016 2:45	56	9/1/2016 3:50	60	10/1/2016 4:55	60	11/1/2016 6:00	66
6/1/2016 0:40	64	7/1/2016 1:45	60	8/1/2016 2:50	55	9/1/2016 3:55	61	10/1/2016 5:00	61	11/1/2016 6:05	66
6/1/2016 0:45	63	7/1/2016 1:50	63	8/1/2016 2:55	56	9/1/2016 4:00	57	10/1/2016 5:05	60	11/1/2016 6:10	66
6/1/2016 0:50	63	7/1/2016 1:55	58	8/1/2016 3:00	55	9/1/2016 4:05	61	10/1/2016 5:10	57	11/1/2016 6:15	68
6/1/2016 0:55	63	7/1/2016 2:00	59	8/1/2016 3:05	53	9/1/2016 4:10	60	10/1/2016 5:15	59	11/1/2016 6:20	68
6/1/2016 1:00	62	7/1/2016 2:05	59	8/1/2016 3:10	55	9/1/2016 4:15	57	10/1/2016 5:20	59	11/1/2016 6:25	69
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6/1/2016 1:10	61	7/1/2016 2:15	58	8/1/2016 3:20	48	9/1/2016 4:25	61	10/1/2016 5:30	59	11/1/2016 6:35	70
6/1/2016 1:15	61	7/1/2016 2:20	57	8/1/2016 3:25	57	9/1/2016 4:30	60	10/1/2016 5:35	60	11/1/2016 6:40	70
6/1/2016 1:20	63	7/1/2016 2:25	58	8/1/2016 3:30	58	9/1/2016 4:35	60	10/1/2016 5:40	61	11/1/2016 6:45	70
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6/1/2016 1:30	61	7/1/2016 2:35	58	8/1/2016 3:40	35	9/1/2016 4:45	59	10/1/2016 5:50	60	11/1/2016 6:55	70
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6/1/2016 1:55	57	7/1/2016 3:00	60	8/1/2016 4:05	55	9/1/2016 5:10	56	10/1/2016 6:15	62	11/1/2016 23:20	65
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6/1/2016 2:15	62	7/1/2016 3:20	56	8/1/2016 4:25	52	9/1/2016 5:30	57	10/1/2016 6:35	64	11/1/2016 23:40	65
6/1/2016 2:20	57	7/1/2016 3:25	55	8/1/2016 4:30	61	9/1/2016 5:35	61	10/1/2016 6:40	64	11/1/2016 23:45	63
6/1/2016 2:25	56	7/1/2016 3:30	54	8/1/2016 4:35	46	9/1/2016 5:40	60	10/1/2016 6:45	63	11/1/2016 23:50	64
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6/1/2016 2:35	56	7/1/2016 3:40	50	8/1/2016 4:45	51	9/1/2016 5:50	64	10/1/2016 6:55	62	12/1/2016 0:00	64
6/1/2016 2:40	59	7/1/2016 3:45	61	8/1/2016 4:50	60	9/1/2016 5:55	62	10/1/2016 23:00	66	12/1/2016 0:05	63
6/1/2016 2:45	59	7/1/2016 3:50	55	8/1/2016 4:55	57	9/1/2016 6:00	61	10/1/2016 23:05	66	12/1/2016 0:10	62
6/1/2016 2:50	57	7/1/2016 3:55	56	8/1/2016 5:00	52	9/1/2016 6:05	61	10/1/2016 23:10	66	12/1/2016 0:15	64
6/1/2016 2:55	56	7/1/2016 4:00	52	8/1/2016 5:05	48	9/1/2016 6:10	62	10/1/2016 23:15	67	12/1/2016 0:20	63
6/1/2016 3:00	61	7/1/2016 4:05	54	8/1/2016 5:10	52	9/1/2016 6:15	63	10/1/2016 23:20	66	12/1/2016 0:25	65
6/1/2016 3:05	51	7/1/2016 4:10	56	8/1/2016 5:15	56	9/1/2016 6:20	64	10/1/2016 23:25	66	12/1/2016 0:30	64
6/1/2016 3:10	55	7/1/2016 4:15	39	8/1/2016 5:20	57	9/1/2016 6:25	64	10/1/2016 23:30	66	12/1/2016 0:35	63
6/1/2016 3:15	57	7/1/2016 4:20	57	8/1/2016 5:25	59	9/1/2016 6:30	64	10/1/2016 23:35	66	12/1/2016 0:40	64
6/1/2016 3:20	58	7/1/2016 4:25	61	8/1/2016 5:30	59	9/1/2016 6:35	64	10/1/2016 23:40	65	12/1/2016 0:45	63
6/1/2016 3:25	56	7/1/2016 4:30	55	8/1/2016 5:35	61	9/1/2016 6:40	64	10/1/2016 23:45	65	12/1/2016 0:50	63
6/1/2016 3:30	55	7/1/2016 4:35	60	8/1/2016 5:40	60	9/1/2016 6:45	64	10/1/2016 23:50	66	12/1/2016 0:55	62
6/1/2016 3:35	55	7/1/2016 4:40	53	8/1/2016 5:45	59	9/1/2016 6:50	64	10/1/2016 23:55	66	12/1/2016 1:00	61
6/1/2016 3:40	58	7/1/2016 4:45	41	8/1/2016 5:50	60	9/1/2016 6:55	64	11/1/2016 0:00	66	12/1/2016 1:05	61
6/1/2016 3:45	53	7/1/2016 4:50	54	8/1/2016 5:55	60	9/1/2016 23:00	65	11/1/2016 0:05	66	12/1/2016 1:10	61
6/1/2016 3:50	61	7/1/2016 4:55	57	8/1/2016 6:00	62	9/1/2016 23:05	65	11/1/2016 0:10	65	12/1/2016 1:15	60
6/1/2016 3:55	54	7/1/2016 5:00	54	8/1/2016 6:05	62	9/1/2016 23:10	65	11/1/2016 0:15	64	12/1/2016 1:20	62
6/1/2016 4:00	53	7/1/2016 5:05	51	8/1/2016 6:10	62	9/1/2016 23:15	65	11/1/2016 0:20	64	12/1/2016 1:25	59
6/1/2016 4:05	58	7/1/2016 5:10	52	8/1/2016 6:15	64	9/1/2016 23:20	65	11/1/2016 0:25	65	12/1/2016 1:30	61
6/1/2016 4:10	54	7/1/2016 5:15	56	8/1/2016 6:20	64	9/1/2016 23:25	66	11/1/2016 0:30	65	12/1/2016 1:35	62
6/1/2016 4:15	51	7/1/2016 5:20	57	8/1/2016 6:25	65	9/1/2016 23:30	65	11/1/2016 0:35	63	12/1/2016 1:40	60
6/1/2016 4:20	51	7/1/2016 5:25	59	8/1/2016 6:30	65	9/1/2016 23:35	65	11/1/2016 0:40	65	12/1/2016 1:45	58
6/1/2016 4:25	60	7/1/2016 5:30	56	8/1/2016 6:35	66	9/1/2016 23:40	65	11/1/2016 0:45	62	12/1/2016 1:50	58
6/1/2016 4:30	54	7/1/2016 5:35	59	8/1/2016 6:40	66	9/1/2016 23:45	65	11/1/2016 0:50	64	12/1/2016 1:55	58
6/1/2016 4:35	52	7/1/2016 5:40	61	8/1/2016 6:45	66	9/1/2016 23:50	65	11/1/2016 0:55	64	12/1/2016 2:00	51
6/1/2016 4:40	56	7/1/2016 5:45	59	8/1/2016 6:50	66	9/1/2016 23:55	65	11/1/2016 1:00	62	12/1/2016 2:05	56
6/1/2016 4:45	55	7/1/2016 5:50	61	8/1/2016 6:55	65	10/1/2016 0:00	65	11/1/2016 1:05	61	12/1/2016 2:10	60
6/1/2016 4:50	59	7/1/2016 5:55	61	8/1/2016 23:00	66	10/1/2016 0:05	64	11/1/2016 1:10	64	12/1/2016 2:15	55
6/1/2016 4:55	58	7/1/2016 6:00	58	8/1/2016 23:05	65	10/1/2016 0:10	65	11/1/2016 1:15	62	12/1/2016 2:20	55
6/1/2016 5:00	47	7/1/2016 6:05	62	8/1/2016 23:10	67	10/1/2016 0:15	65	11/1/2016 1:20	63	12/1/2016 2:25	55
6/1/2016 5:05	60	7/1/2016 6:10	63	8/1/2016 23:15	65	10/1/2016 0:20	65	11/1/2016 1:25	63	12/1/2016 2:30	54
6/1/2016 5:10	59	7/1/2016 6:15	63	8/1/2016 23:20	65	10/1/2016 0:25	64	11/1/2016 1:30	63	12/1/2016 2:35	56
6/1/2016 5:15	56	7/1/2016 6:20	65	8/1/2016 23:25	66	10/1/2016 0:30	65	11/1/2016 1:35	65	12/1/2016 2:40	57
6/1/2016 5:20	56	7/1/2016 6:25	64	8/1/2016 23:30	65	10/1/2016 0:35	64	11/1/2016 1:40	64	12/1/2016 2:45	57
6/1/2016 5:25	59	7/1/2016 6:30	65	8/1/2016 23:35	65	10/1/2016 0:40	64	11/1/2016 1:45	64	12/1/2016 2:50	52
6/1/2016 5:30	60	7/1/2016 6:35	65	8/1/2016 23:40	66	10/1/2016 0:45	64	11/1/2016 1:50	64	12/1/2016 2:55	54
6/1/2016 5:35	62	7/1/2016 6:40	65	8/1/2016 23:45	65	10/1/2016 0:50	64	11/1/2016 1:55	62	12/1/2016 3:00	61
6/1/2016 5:40	61	7/1/2016 6:45	66	8/1/2016 23:50	65	10/1/2016 0:55	66	11/1/2016 2:00	60	12/1/2016 3:05	61
6/1/2016 5:45	62	7/1/2016 6:50	66	8/1/2016 23:55	65	10/1/2016 1:00	64	11/1/2016 2:05	62	12/1/2016 3:10	61
6/1/2016 5:50	60	7/1/2016 6:55	66	9/1/2016 0:00	65	10/1/2016 1:05	63	11/1/2016 2:10	61	12/1/2016 3:15	59
6/1/2016 5:55	62	7/1/2016 23:00	65	9/1/2016 0:05	65	10/1/2016 1:10	64	11/1/2016 2:15	60	12/1/2016 3:20	53
6/1/2016 6:00	62	7/1/2016 23:05	65	9/1/2016 0:10	65	10/1/2016 1:15	63	11/1/2016 2:20	60	12/1/2016 3:25	43
6/1/2016 6:05	63	7/1/2016 23:10	65	9/1/2016 0:15	64	10/1/2016 1:20	62	11/1/2016 2:25	61	12/1/2016 3:30	61
6/1/2016 6:10	62	7/1/2016 23:15	65	9/1/2016 0:20	64	10/1/2016 1:25	63	11/1/2016 2:30	58	12/1/2016 3:35	56
6/1/2016 6:15	63	7/1/2016 23:20	66	9/1/2016 0:25	65	10/1/2016 1:30	62	11/1/2016 2:35	57	12/1/2016 3:40	53
6/1/2016 6:20	64	7/1/2016 23:25	65	9/1/2016 0:30	64	10/1/2016 1:35	62	11/1/2016 2:40	55	12/1/2016 3:45	50
6/1/2016 6:25	65	7/1/2016 23:30	64	9/1/2016 0:35	64	10/1/2016 1:40	61	11/1/2016 2:45	58	12/1/2016 3:50	47
6/1/2016 6:30	66	7/1/2016 23:35	64	9/1/2016 0:40	65	10/1/2016 1:45	60	11/1/2016 2:50	55	12/1/2016 3:55	52
6/1/2016 6:35	66	7/1/2016 23:40	64	9/1/2016 0:45	63	10/1/2016 1:50	63</				

Real-time Noise Data	RTN4 (Causeway Bay Community Centre)										
12/1/2016 6:40	66	13/1/2016 23:45	64	15/1/2016 0:50	65	16/1/2016 1:55	65	17/1/2016 3:00	55	18/1/2016 4:05	42
12/1/2016 6:45	67	13/1/2016 23:50	65	15/1/2016 0:55	62	16/1/2016 2:00	65	17/1/2016 3:05	54	18/1/2016 4:10	60
12/1/2016 6:50	66	13/1/2016 23:55	64	15/1/2016 1:00	64	16/1/2016 2:05	64	17/1/2016 3:10	53	18/1/2016 4:15	54
12/1/2016 6:55	66	14/1/2016 0:00	65	15/1/2016 1:05	61	16/1/2016 2:10	64	17/1/2016 3:15	51	18/1/2016 4:20	60
12/1/2016 23:00	65	14/1/2016 0:05	63	15/1/2016 1:10	61	16/1/2016 2:15	65	17/1/2016 3:20	54	18/1/2016 4:25	57
12/1/2016 23:05	64	14/1/2016 0:10	63	15/1/2016 1:15	62	16/1/2016 2:20	63	17/1/2016 3:25	53	18/1/2016 4:30	52
12/1/2016 23:10	64	14/1/2016 0:15	65	15/1/2016 1:20	62	16/1/2016 2:25	63	17/1/2016 3:30	54	18/1/2016 4:35	56
12/1/2016 23:15	65	14/1/2016 0:20	63	15/1/2016 1:25	61	16/1/2016 2:30	62	17/1/2016 3:35	53	18/1/2016 4:40	56
12/1/2016 23:20	64	14/1/2016 0:25	63	15/1/2016 1:30	62	16/1/2016 2:35	64	17/1/2016 3:40	53	18/1/2016 4:45	50
12/1/2016 23:25	65	14/1/2016 0:30	64	15/1/2016 1:35	61	16/1/2016 2:40	63	17/1/2016 3:45	52	18/1/2016 4:50	61
12/1/2016 23:30	64	14/1/2016 0:35	64	15/1/2016 1:40	61	16/1/2016 2:45	63	17/1/2016 3:50	51	18/1/2016 4:55	48
12/1/2016 23:35	65	14/1/2016 0:40	63	15/1/2016 1:45	61	16/1/2016 2:50	63	17/1/2016 3:55	52	18/1/2016 5:00	55
12/1/2016 23:40	64	14/1/2016 0:45	63	15/1/2016 1:50	60	16/1/2016 2:55	63	17/1/2016 4:00	51	18/1/2016 5:05	55
12/1/2016 23:45	64	14/1/2016 0:50	62	15/1/2016 1:55	55	16/1/2016 3:00	62	17/1/2016 4:05	51	18/1/2016 5:10	58
12/1/2016 23:50	64	14/1/2016 0:55	63	15/1/2016 2:00	56	16/1/2016 3:05	62	17/1/2016 4:10	53	18/1/2016 5:15	58
12/1/2016 23:55	63	14/1/2016 1:00	64	15/1/2016 2:05	60	16/1/2016 3:10	62	17/1/2016 4:15	51	18/1/2016 5:20	56
13/1/2016 0:00	64	14/1/2016 1:05	62	15/1/2016 2:10	63	16/1/2016 3:15	64	17/1/2016 4:20	51	18/1/2016 5:25	62
13/1/2016 0:05	63	14/1/2016 1:10	62	15/1/2016 2:15	63	16/1/2016 3:20	62	17/1/2016 4:25	51	18/1/2016 5:30	56
13/1/2016 0:10	63	14/1/2016 1:15	63	15/1/2016 2:20	63	16/1/2016 3:25	62	17/1/2016 4:30	50	18/1/2016 5:35	62
13/1/2016 0:15	63	14/1/2016 1:20	60	15/1/2016 2:25	62	16/1/2016 3:30	60	17/1/2016 4:35	53	18/1/2016 5:40	61
13/1/2016 0:20	63	14/1/2016 1:25	60	15/1/2016 2:30	62	16/1/2016 3:35	62	17/1/2016 4:40	54	18/1/2016 5:45	59
13/1/2016 0:25	62	14/1/2016 1:30	63	15/1/2016 2:35	59	16/1/2016 3:40	62	17/1/2016 4:45	51	18/1/2016 5:50	61
13/1/2016 0:30	63	14/1/2016 1:35	61	15/1/2016 2:40	59	16/1/2016 3:45	61	17/1/2016 4:50	50	18/1/2016 5:55	62
13/1/2016 0:35	63	14/1/2016 1:40	58	15/1/2016 2:45	61	16/1/2016 3:50	63	17/1/2016 4:55	53	18/1/2016 6:00	63
13/1/2016 0:40	63	14/1/2016 1:45	59	15/1/2016 2:50	61	16/1/2016 3:55	62	17/1/2016 5:00	51	18/1/2016 6:05	64
13/1/2016 0:45	63	14/1/2016 1:50	60	15/1/2016 2:55	60	16/1/2016 4:00	61	17/1/2016 5:05	52	18/1/2016 6:10	64
13/1/2016 0:50	61	14/1/2016 1:55	60	15/1/2016 3:00	58	16/1/2016 4:05	63	17/1/2016 5:10	50	18/1/2016 6:15	63
13/1/2016 0:55	62	14/1/2016 2:00	59	15/1/2016 3:05	60	16/1/2016 4:10	60	17/1/2016 5:15	50	18/1/2016 6:20	66
13/1/2016 1:00	61	14/1/2016 2:05	61	15/1/2016 3:10	59	16/1/2016 4:15	60	17/1/2016 5:20	51	18/1/2016 6:25	66
13/1/2016 1:05	61	14/1/2016 2:10	58	15/1/2016 3:15	57	16/1/2016 4:20	62	17/1/2016 5:25	50	18/1/2016 6:30	66
13/1/2016 1:10	61	14/1/2016 2:15	55	15/1/2016 3:20	57	16/1/2016 4:25	62	17/1/2016 5:30	51	18/1/2016 6:35	67
13/1/2016 1:15	61	14/1/2016 2:20	61	15/1/2016 3:25	60	16/1/2016 4:30	61	17/1/2016 5:35	51	18/1/2016 6:40	67
13/1/2016 1:20	61	14/1/2016 2:25	58	15/1/2016 3:30	57	16/1/2016 4:35	60	17/1/2016 5:40	52	18/1/2016 6:45	66
13/1/2016 1:25	61	14/1/2016 2:30	53	15/1/2016 3:35	61	16/1/2016 4:40	62	17/1/2016 5:45	51	18/1/2016 6:50	67
13/1/2016 1:30	61	14/1/2016 2:35	58	15/1/2016 3:40	61	16/1/2016 4:45	62	17/1/2016 5:50	51	18/1/2016 6:55	66
13/1/2016 1:35	61	14/1/2016 2:40	58	15/1/2016 3:45	59	16/1/2016 4:50	61	17/1/2016 5:55	52	18/1/2016 23:00	66
13/1/2016 1:40	55	14/1/2016 2:45	54	15/1/2016 3:50	58	16/1/2016 4:55	63	17/1/2016 6:00	53	18/1/2016 23:05	65
13/1/2016 1:45	57	14/1/2016 2:50	45	15/1/2016 3:55	60	16/1/2016 5:00	62	17/1/2016 6:05	54	18/1/2016 23:10	65
13/1/2016 1:50	61	14/1/2016 2:55	52	15/1/2016 4:00	63	16/1/2016 5:05	62	17/1/2016 6:10	56	18/1/2016 23:15	65
13/1/2016 1:55	61	14/1/2016 3:00	56	15/1/2016 4:05	57	16/1/2016 5:10	62	17/1/2016 6:15	56	18/1/2016 23:20	66
13/1/2016 2:00	58	14/1/2016 3:05	51	15/1/2016 4:10	57	16/1/2016 5:15	60	17/1/2016 6:20	57	18/1/2016 23:25	65
13/1/2016 2:05	56	14/1/2016 3:10	56	15/1/2016 4:15	58	16/1/2016 5:20	60	17/1/2016 6:25	54	18/1/2016 23:30	64
13/1/2016 2:10	58	14/1/2016 3:15	58	15/1/2016 4:20	59	16/1/2016 5:25	62	17/1/2016 6:30	55	18/1/2016 23:35	66
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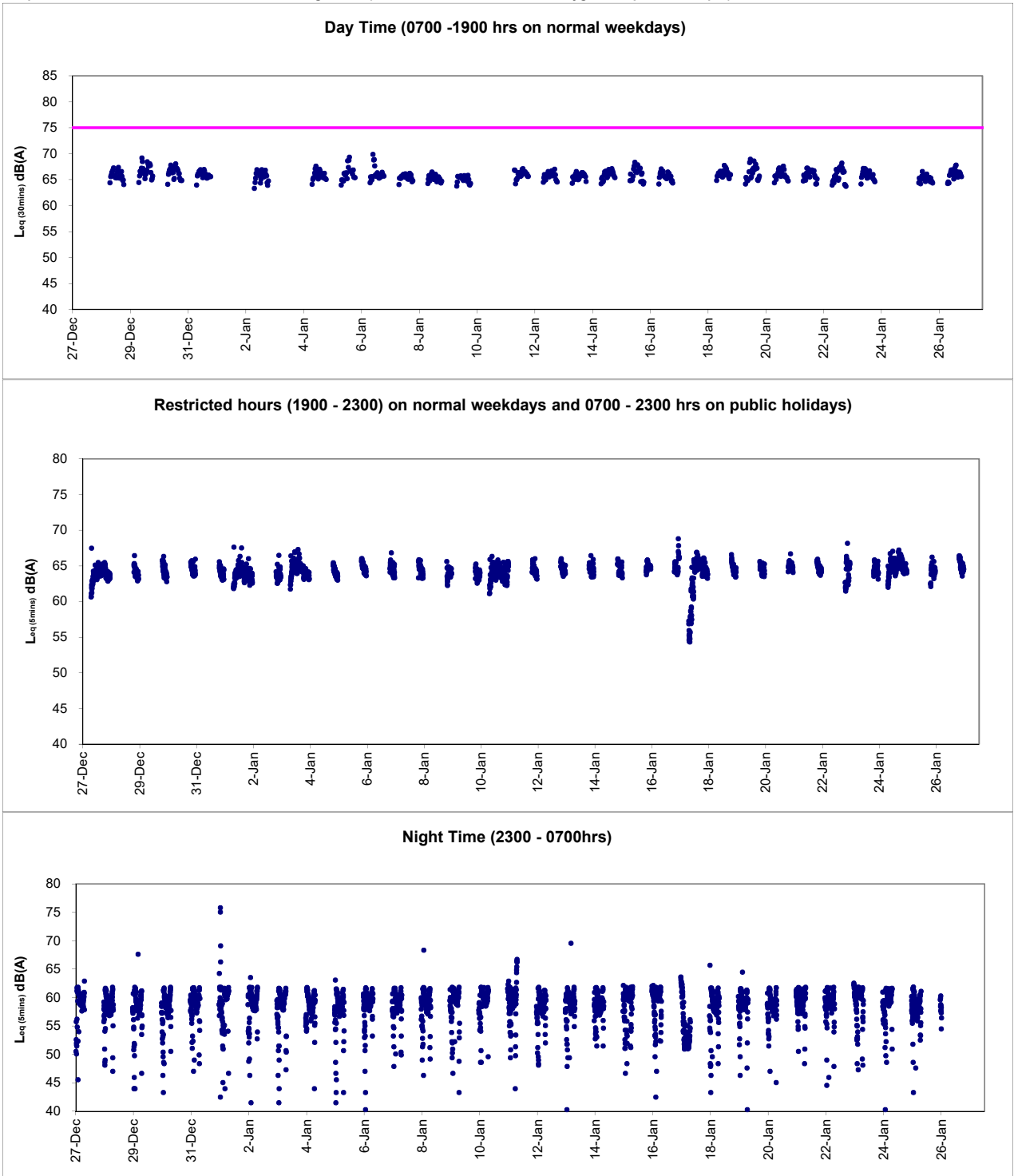
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19/1/2016 5:30	59	20/1/2016 6:35	65	21/1/2016 23:40	65	23/1/2016 0:45	67	24/1/2016 1:50	62	25/1/2016 2:55	61
19/1/2016 5:35	58	20/1/2016 6:40	66	21/1/2016 23:45	65	23/1/2016 0:50	67	24/1/2016 1:55	62	25/1/2016 3:00	59
19/1/2016 5:40	60	20/1/2016 6:45	66	21/1/2016 23:50	65	23/1/2016 0:55	65	24/1/2016 2:00	63	25/1/2016 3:05	60
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19/1/2016 6:40	66	20/1/2016 23:45	65	22/1/2016 0:50	64	23/1/2016 1:55	64	24/1/2016 3:00	59	25/1/2016 4:05	57
19/1/2016 6:45	66	20/1/2016 23:50	65	22/1/2016 0:55	63	23/1/2016 2:00	64	24/1/2016 3:05	62	25/1/2016 4:10	60
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19/1/2016 6:55	65	21/1/2016 0:00	66	22/1/2016 1:05	62	23/1/2016 2:10	64	24/1/2016 3:15	60	25/1/2016 4:20	56
19/1/2016 23:00	65	21/1/2016 0:05	65	22/1/2016 1:10	62	23/1/2016 2:15	65	24/1/2016 3:20	60	25/1/2016 4:25	60
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20/1/2016 0:00	64	21/1/2016 1:05	61	22/1/2016 2:10	59	23/1/2016 3:15	62	24/1/2016 4:20	60	25/1/2016 5:25	60
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Real-time Noise Data      RTN4 (Causeway Bay Community Centre)

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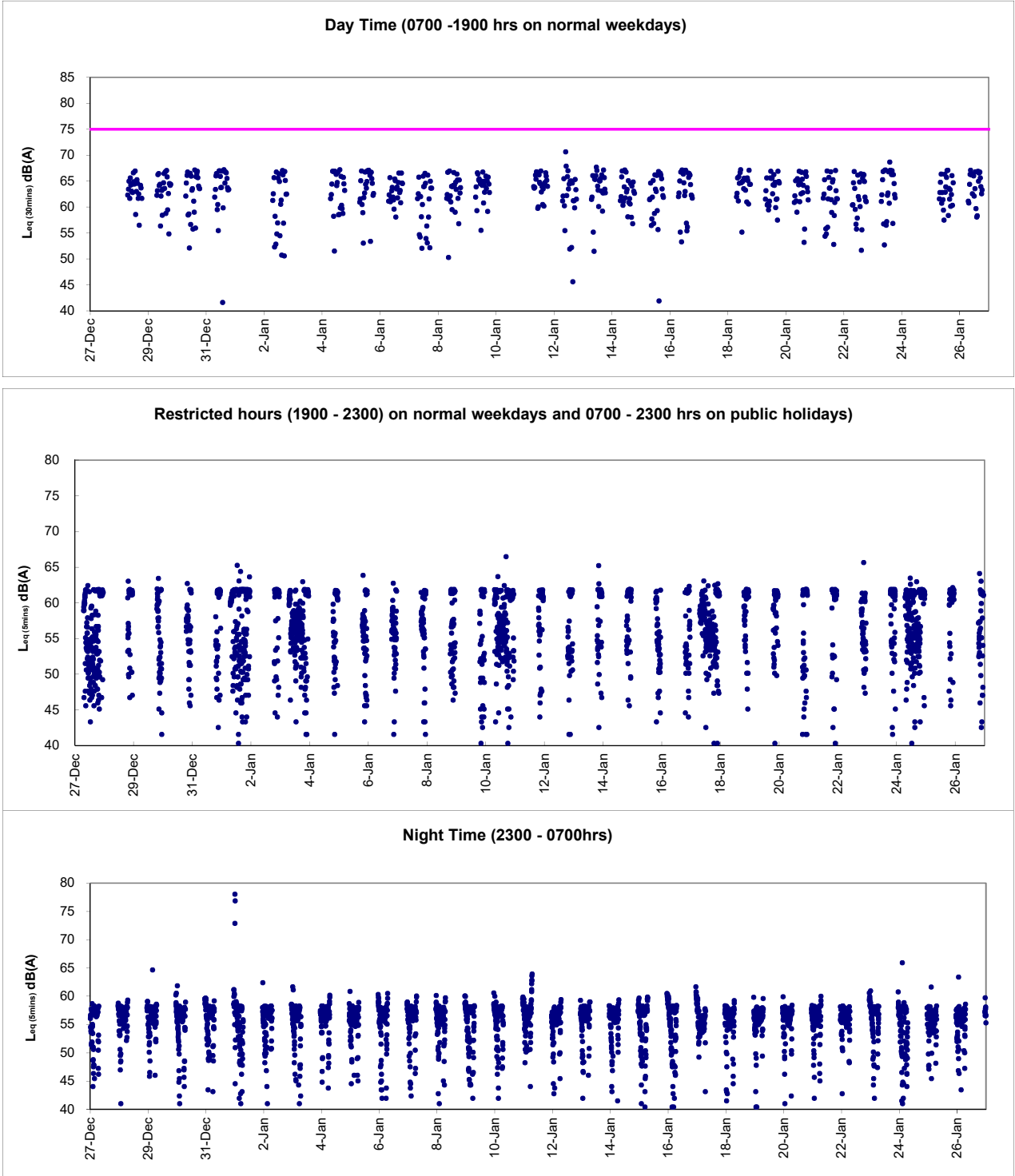


Graphic Presentation of Real Time Noise Monitoring Result (RTN1-Food and Environmental Hygiene Department Depot)



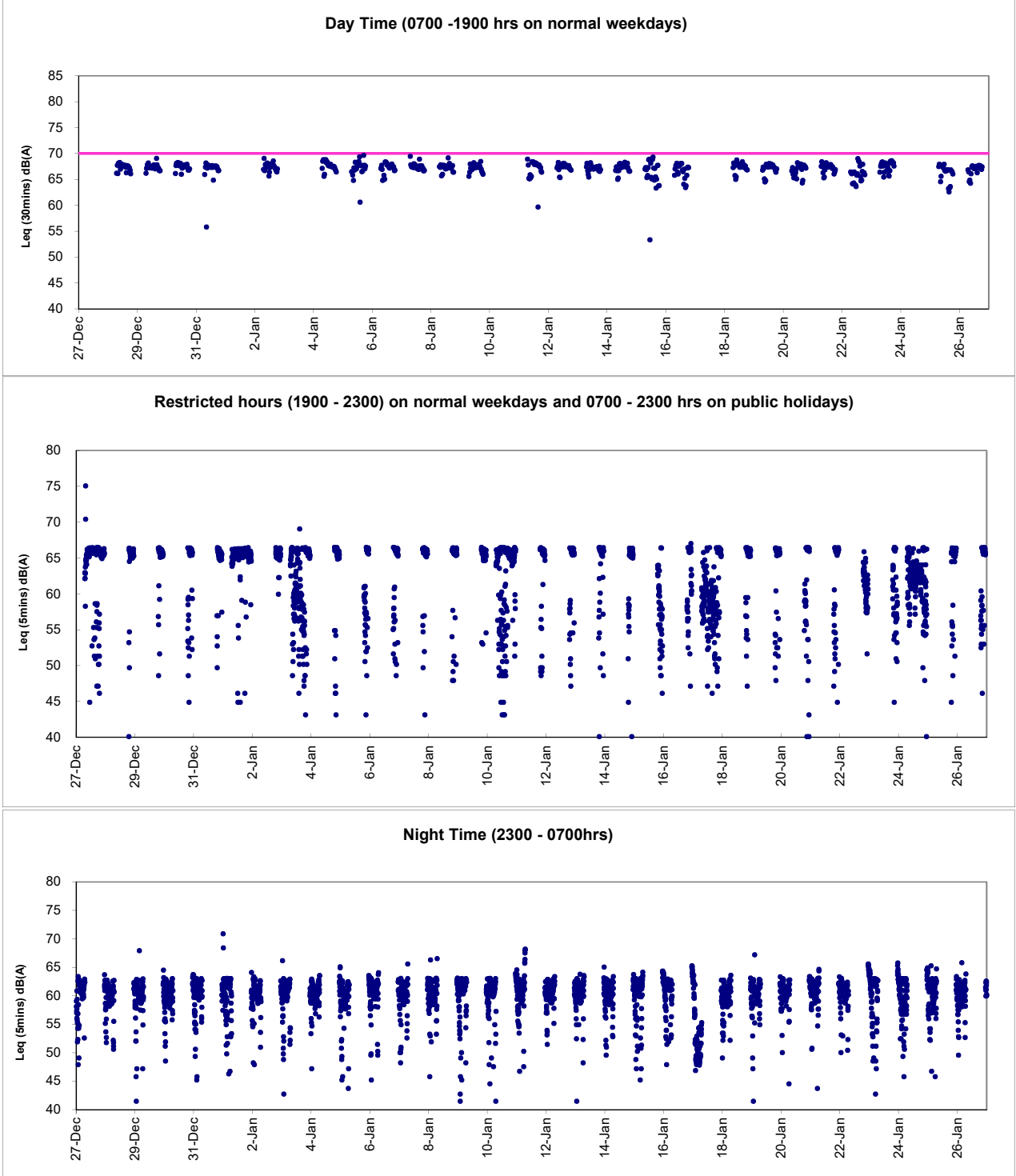


Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)





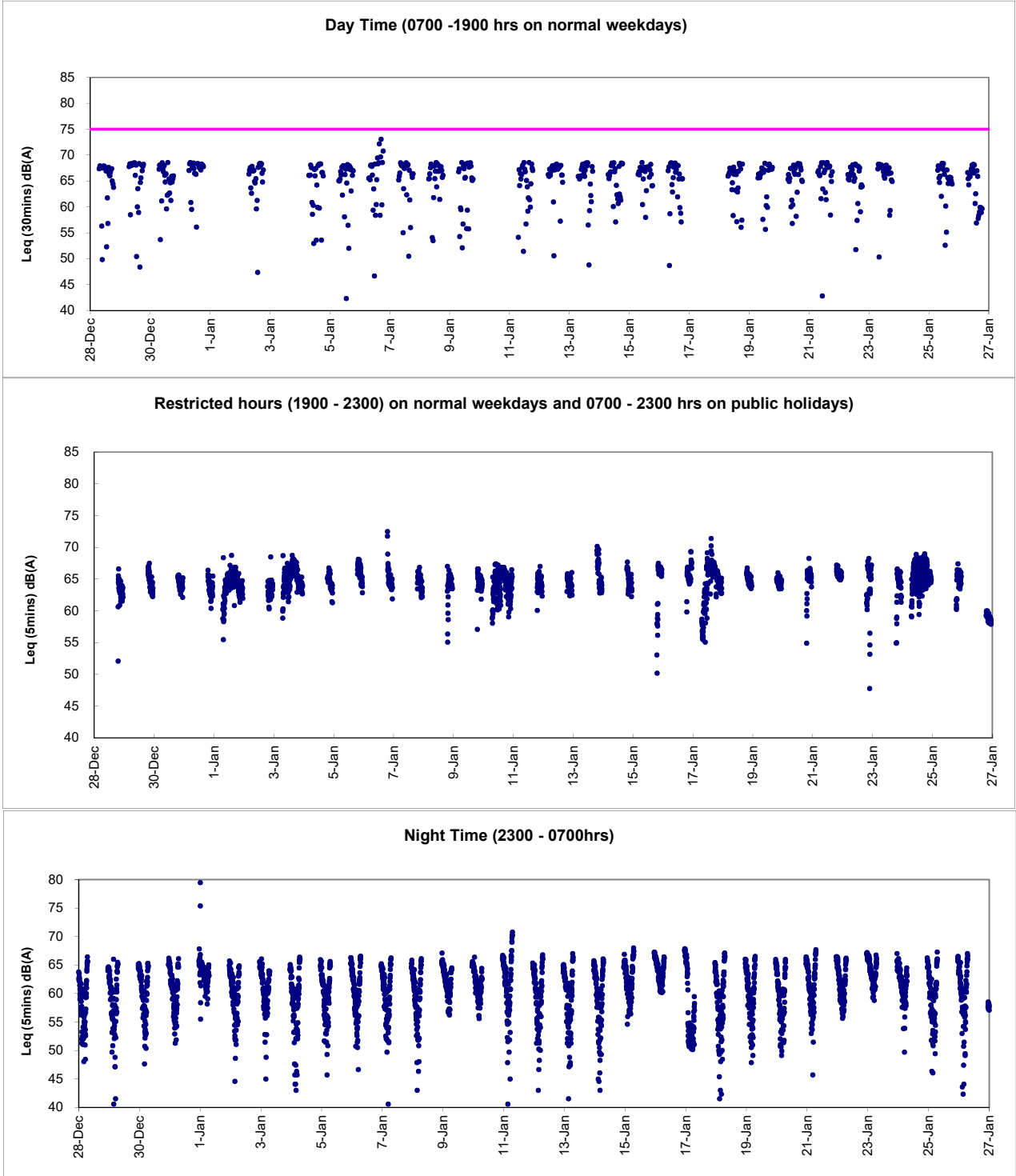
Graphic Presentation of Real Time Noise Monitoring Result (RTN3-Yu Lee Mo Fan Memorial School)







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





***Appendix 6.1***

*Event Action Plans*



Event/Action Plan for Construction Noise

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



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



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

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



***Appendix 6.2***

*Summary for Notification of Exceedance*



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_16N001	12-Jan-16	11:00	M1a-Habour Road Sports Centre	79	Leq(30-min)	when one documented complaint was received.	75	<p>Possible reason: Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.</p> <p>Remarks / Other Obs: Backfilling and formation works at Portion 2 and bored pile and ground investigation at Portion 5 were conducted under Contract HK/2009/02 around the concerned location during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite 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.</p>
X_16N002	12-Jan-16	11:00	M1a-Habour Road Sports Centre	79	Leq(30-min)	when one documented complaint was received.	75	<p>Possible reason: Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.</p> <p>Remarks / Other Obs: Excavation works was conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement while breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite 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.</p>
X_16N004	19-Jan-16	10:25	M1a-Habour Road Sports Centre	85	Leq(30-min)	when one documented complaint was received.	75	<p>Possible reason: Breaking and piling works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.</p> <p>Remarks / Other Obs: Backfilling at Portion 2 and bored pile, diaphragm wall construction and ground investigation at Portion 5 were conducted under Contract HK/2009/02 around the concerned location during the time of measurement while piling and breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite 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.</p>
X_16N005	19-Jan-16	10:25	M1a-Habour Road Sports Centre	85	Leq(30-min)	when one documented complaint was received.	75	<p>Possible reason: Breaking and piling works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre) under non WDII-CWB Contractor.</p> <p>Action taken / to be taken: Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.</p> <p>Remarks / Other Obs: Welding works was conducted under Contract HK/2009/01 at Area 8 (West of Wan Chai Ferry Pier) during the time of measurement while piling and breaking works at Ex- Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite 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.</p>



***Appendix 9.1***

*Complaint Log*



**Environmental Complaints Log**

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



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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				reclamation area.	and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period. 3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint. 4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening. 5) Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed. 6) Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1) It was referred by AECOM to ET on 29 August 2011 2) Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. 3) The pump is located on the site area of HY/2009/19 4) A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to exclude the outfall. 5) An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractor of HY/200911 and HY/2009/19 and IEC on 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011. 5) Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 6) In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse come from sea bed from entering the intake. 6) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying with their expectation. 7) During on-site inspection, floating refuses observed	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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</p> <p>8) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. It was noted that the intake (land side) is open access to public, so that many activities such as fishing, feeding fish were conducted there even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.</p> <p>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.</p> <p>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</p>	
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)	<p>1) RSS notified ET to carry out investigation on 17 October 2011.</p> <p>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.</p> <p>3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</p> <p>4) Contractor was reminded to enhance regular checking and maintenance to all plants at site.</p> <p>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.</p>	Closed
111104	04/11/2011	Mr. Liu from	Wan Chai	Complain about a tree near the	<p>1) ET confirmed with the Resident Site Staff that</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		LCSD complained via Contractor Complaint Hotline		site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	<ul style="list-style-type: none"><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></ul> 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	<ol style="list-style-type: none"><li>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.</li><li>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.</li><li>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</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position. 4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Furthermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
111212	12/12/2011	The complainant, Mr Tsui from 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 enough lights should not be avoided in construction site. However, the light sources were not directed away from pointing to the sensitive receiver and results in visual glare to the complainant. 4) Confirmed with the Resident Site Staff the complainant was satisfied the new arrangement of the lights with contractor after the joint inspection. No further complaint received after that.	Closed
111220	20/12/2011	The complainant, Ms. Poon complained via hotline 1823 (ICC Ref. No.: ICC#1-334683841)	North Point	Construction air and noise nuisance generated that many trucks carrying construction materials driving along Watson Road and Oil Street and possibly entering/leaving the construction site near the IEC during 0800 to 1900 hours.	1) RSS notified ET on 22 Dec 2011. 2) ET confirmed with the Resident Site Staff that the complainant cannot identify whether the trucks were working under the CWB project or not. 3) The dominant construction air and noise nuisances were emitted by the trucks along Oil Street and Waston Road, however, this is the public road for all vehicles. Reviewing the air quality monitoring and noise monitoring results. No exceedance was recorded during this period. 4) Confirmed with the Resident Site Staff that they provided a contact no. for any future enquiries regarding	Closed



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





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					by contractor on 19 January 2012. 4) No further complaint received after HyD's reply.	
120305	03/03/2012	Resident of Harbour Heights complained via hotline 1823 (ICC Ref. No.: ICC#1-344632511)	North Point	A complaint regarding excessive noise from construction sites of CWB was observed outside Harbour Heights from Monday to Saturday before 8am. The plants were frequently turned on before 7:30am creating nuisance. The complainant requested a speedy follow-up and reply from relevant department.	1) RSS notified ET on 5 March 2012. 2) ET confirmed with the Resident Site Staff that PME for diaphragm wall construction started to operate at about 7:30am whilst the other PME, including those for land bored piling work, started to operate after 8am. 3) After reviewing the results of noise monitoring (M4b), no exceedance was recorded during daytime period and the noise level were below 75dB(A). Site inspection for HY/2009/19 was conducted on 7 March 2012. The condition of noise mitigation measures near Harbour Heights was found satisfactory. RSS confirmed that no operation was active before 7:00am everyday. The suspected nuisance was to be considered caused by the PME for diaphragm wall construction. A surprise check was performed on 13 March 2012 by RSS. It was found that no noisy PME was in operation by Contractor of HY/2009/19 before 8am, and the construction noise level was minimal and not disturbing. The noise level and operation time both complied with statutory requirements set up in NCO. 4) Complainant called ICC on 8 March 2012 to confirm HyD has provided a response. No further complaint was received after the response.	Closed
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	1) RSS notified ET on 5 April 2012. 2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. 3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. 4) HyD made a reply to the complainant on 16 April	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					2012 via 1823. HyD replied that the current 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.	<ol style="list-style-type: none"><li>1) RSS notified ET on 17 April 2012.</li><li>2) ET confirmed with the Resident Site Staff that there was no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.</li><li>3) After reviewing the results of noise monitoring (M4b and M5b), no exceedance was recorded during day time period and the noise level was below 75dB(A). Site inspection for HY/2009/19 was conducted on 18 April 2012. The condition of noise mitigation measures near Harbour Heights were found satisfactory. RSS confirmed that no operation of power generators for HY/2009/19 and HY/2009/17 (HY/2009/11 had no physical work on site) during the concerned period. Although there were a few barges mooring at the seafront of HY/2009/19, they were not in operation and hence no operational noise would be emitted.</li><li>4) HyD made a reply to the complainant on 30 April 2012 via email. HyD replied that the current works near Oil Street, North Point, included CWB tunnel works, IEC connections and associated foundation works. According to RSS records, no operations were performed during the early hours of March and April at Oil Street and the waterbody nearby, and so it was believed that the noise nuisance was not generated from the CWB project. Despite that, RSS would continue to monitor the Contractor on the operations and effectiveness of the environmental mitigation measures implemented on site, as not to affect daily life of local residents nearby. No further complaint was received after the response.</li></ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130308	06/03/2013	ICC Case#1-407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	<p>1) RSS notified ET on 8 March 2013</p> <p>2) 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.</p> <p>3) Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality.</p> <p>Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found.</p> <p>The contractor was advised and committed to implement preventive measures to minimize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequate back up stock of silt curtain for emergency use.</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130606	30/5/2013	ICC Ref. No.: #1-430164728	Central – Man Kat Street	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 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 June 2013, it was considered that the withered and yellow leaves of the affected trees (T1674, T1675, T1676, T1677, T1678, T1679, T1680, T1681, T1683, T1644, T1643, T1641, T1639) at the concerned planter area were contributed by natural life cycle of the affected trees and the health condition of the affected trees were considered to be fair. It was also noted that an active CEDD works area was located within the concerned planter area in close proximity to few of the concerned trees (T1644, T1643, T1641, T1639)  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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>4) The relevant contractor have removed the construction material near the root area of the trees retained on site and conduct pruning to remove the withered and yellow leaves retained on tree trunk to minimize impact on the trees appearance.In addition, safety supporting wire was provided for concerned tree (T1712)</p> <p>5) ET recommended the contractor to keep in view the health condition of the concerned tree (T1712) and apply permission for tree felling together with tree compensation plan if considered necessary. Furthermore, the contractor was reminded to implement regular checking of tree health condition and regular removal of withered leaves to maintain the overall tree appearance.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
130611	30 May 2013 and 1 June 2013	EPD Ref.:H04/RS/0001 1587-13	Area near Central Pier	1. 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.	<p>1) RSS notify ET on 11 June 2013</p> <p>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</p> <ul style="list-style-type: none"><li>- Breaking up existing D-wall concrete and excavation at portion 4B and 4C</li><li>- Sheet piling works at Portion VI (Man Kat Street)</li></ul> <p>3) Total 1 no. of Backhoe with breaker, 1 no. of Backhoe with vibratory hammer and 4 no.s of pneumatic breakers were deployed for the above construction activities.</p> <p>Reviewing the noise monitoring data at monitoring stations (M7e- International Finance Centre Eastern End of Podium and M7w- International Finance Centre Western End of Podium), no limit level exceedances were recorded during routine noise monitoring event on 28 May 2013 and 03 June 2013. As similar construction works activities conducted on 30 May 2013 was continued across the above monitoring period, the noise emanated from the construction activities under Contract HY/2009/18 was considered to complied with the statutory requirement.</p> <p>In addition, weekly environmental site inspection was conducted on 30 May 2013 at around 10:00. According to the inspection record, no particular observation regarding noise impact was recorded and the mitigation measures including erection of temporary noise barrier was observed in place.</p> <p>As such, no direct information associated with the noise concerned raised was considered available and no non-conformity was identified.</p> <p>4) ET recommend the contractor to review the need of additional noise mitigation measures to further reduce the noise enmated during construction works for pier side public area.</p>	<p>Interim report submitted to EPD on 19 June 2013,</p> <p>EPD advised no further comment on 5 Aug 2013 and final report for case closing submitted on 6 Aug 2013.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
131010	03 Oct 2013	ICC Ref. No.1-467000768	Area between Central Pier and International Finance Centre	Noise and air quality impact was experienced at the area located between IFC and Central Pier during peak hours.	<p>ET confirmed with the Resident Site Staff that</p> <p>1) The major construction activities at the concerned location conducted over the past three months include;</p> <ul style="list-style-type: none"><li>- Formwork, rebar and concreting</li><li>- Backfilling</li><li>- Water-proofing</li><li>- Scaffolding erection</li></ul> <p>2) Mitigation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none"><li>- Select quiet plant and work methods;</li><li>- Check plant and equipment for condition;</li><li>- For use of powered mechanical equipment during restricted hours: Obtain necessary Construction Noise Permit and strictly comply with their conditions;</li><li>- Frequently spray water to major haul road and stockpiles to suppress dust generation; and</li><li>- Cover stockpiles with impervious sheets</li></ul> <p>The construction activities including backfilling, concreting and other associated tunnel works were undertaken in the past three months. Having reviewing the monitoring data of the monitoring stations in the vicinity of the concerned location raised by the complainant, namely monitoring station M7e and M7w (Noise Monitoring Station) and MA1e and MA1w (Air Monitoring Station), no action or limit level exceedance was recorded.</p> <p>In addition, mitigations measures including water spraying and erection of noise barrier were observed during weekly site inspection in August and September 2013 and reminders on dust mitigations measures given during weekly site inspection to the contractor were rectified. As such, the construction activities under Contract HY/2009/18 were considered in compliance with the statutory requirement and no cumulative air/ noise quality impact was observed in the past three months.</p>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Elevated noise level at monitoring station M7e (International Finance Centre East Podium) was noted on 24 September 2013. The Contractor is recommended to review the current measures and to implement additional noise mitigation measures to further avoid potential impact to nearby public area during construction works.	
131217	16 Dec 2013	ICC Case Ref.: 1-484998552	Victoria Park near Hing Fat Street Exit	Sweeping of muddy water into public drains.	<p>ET confirmed with the Resident Site Staff that</p> <p>1)The major construction activities around the concerned location conducted on 16 Dec 2013 a.m.includes: -Preparation work of rootball for tree transplanting</p> <p>According to the information provided by RSS, the construction activities around the concerned location on 16 Dec 2013 include preparation work of rootball for tree transplanting at Zone 17/18.</p> <p>A further investigation on the complaint was conducted on 19 Dec 2013 during weekly environmental inspection. It was observed that a tree worksarea comprised of mainly loosen soil was located near the concerned location. It was considered that the inclined surface and loosen soil nature of the concerned worksarea could have led to the muddy surface runoff in rain. Deposition of muddy runoff onto nearby public pavement outside worksarea was hence resulted and was subsequently cleaned into nearby public stormwater drain by the Contractor's workers on the complaint date. As such, the case was considered as works related.</p> <p>Sandbags, geotextile and gravels were immediately placed by the Contractor around the gullies at the concerned location to prevent leftover muddy runoff to the public stormwater drain as observed during the weekly inspection on 19 Dec 2013.</p> <p>With respect to the follow-up raised by the complainant on 19 Dec 2013, sandbags, geotextile and gravels placed at gullies located at public area were removed by the Contractor on the same day for maintaining passible public pavement. Follow up measures including sandbag bundle and covering of worksarea with impervious sheeting was immediately placed at the source of impact at the concerned worksarea boundary by the Contractor.</p>	Final investigation report issued on 20 Dec 2013. Case closed on 3 Jan 2014.





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	<p>ET confirmed with the Resident Site Staff that</p> <p>1) The major construction activities around the concerned location conducted on 24 Dec 2013 include:</p> <ul style="list-style-type: none"><li>- Breaking up existing pillar box for new children playground Portion II</li><li>- Pressing of sheet pile at bowling green for ELS works Portion XII</li><li>- Welding work for preparation of sheetpiling work at bowling green Portion VI</li><li>- Demolition of existing pavilion for bowling green Portion VI</li></ul> <p>-Felling of tree TA50 at Victoria Park Zone</p> <p>2) Mitigation measures implemented by the Contractor for the above construction works include</p> <ul style="list-style-type: none"><li>-Water spraying for demolition and other dust generating works.</li></ul> <p>According to the relevant site records, breaking up of existing pillar box, pressing of sheet pile, welding work for preparation of sheetpiling demolition of existing pavilion and felling of tree TA50 at Victoria Park Zone 13 were conducted at the concerned location during the time of complaint.</p> <p>Based on information and photo record provided by the RSS, dust mitigation measures including water spraying during dust generating works were implemented by the Contractor at the concerned location on 24 Dec 2013.</p> <p>Follow-up investigation was conducted on 27 Dec 2013 during weekly environmental inspection, dust mitigation measures including water spraying to dusty area and major dust generation works were confirmed in place despite a general reminder was given to the contractor to enhance the water spraying to dusty haul road during dry season. Based on on-going site inspection and the follow-up investigation, the site condition was considered generally satisfactory and no non-conformance was identified.</p> <p>Upon further review on the supplementary information provided by the complainant on 31 Dec 2013 and investigation conducted on 2 Jan 2014, the tree felling work of tree TA50 was located nearest to the location of the complainant. According to the location plan provided by the RSS and on site investigation, the tree felling work</p>	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
					<p>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.</p> <p>Furthermore, welding work was observed near the concerned location and was considered to be the potential source for the smell and exhaust fumes as described by the complainant. Notwithstanding the above, welding work was not identified as a work activity with air quality impact under Project EIA report but it would be desirable to implement preventive measures to minimize potential nuisance to nearby public.</p>	
140123	22 Jan 2014	ICC Case Ref.:1-494077682	Causeway Bay Typhoon Shelter	<p>Construction works have been undertaken during restricted hours until 2300 hrs and occasionally the working hours were extended to around 0100 hrs at nighttime period over the last two to three months at a construction site located within Causeway Bay Typhoon Shelter. For instance, concreting and excavation works were conducted at the concerned location on 22 Jan 2014 during nighttime hours and generated noise impact to the complainant.</p>	<p>ET confirmed with the Resident Site Staff that No construction activity was undertaken at workzone TS1 under HY/2009/15 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. No construction activity was undertaken at workzone TS3 under HY/2010/08 within Causeway Bay Typhoon Shelter after 1900 hrs on 21 Jan 2014. Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 1900 to 0000 hrs on 21 Jan 2014; Total 8 no.s of concrete lorry mixers, 1 no. of water pump, 2 no.s of concrete pumps (lorry mounted), 1 no. of mobile crane QPME (diesel) and 3 no.s of vibratory pokers were operating from 1900 to 0000hrs on 21 Jan 2014.</p> <p>Concreting for base slab and hanger wall was conducted at workzone TS2 under HY/2009/15 within Causeway Bay Typhoon Shelter from 0000 to 0700 hrs on 22 Jan 2014;</p> <p>Total 1. no of concrete lorry mixer, 1 no. of water pump, 1 no. of concrete pump (lorry mounted), 1 no. of vibratory poker were operating from 1900 to 0000hrs on 22 Jan 2014</p>	Case closed and full investigation report issued on 4 Feb 2014.



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



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.	<p>ET confirmed with the Resident Site Staff that The major construction activities around the concerned location conducted on 23 Jan 2014 include:</p> <p>Pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works on 23 Jan 2014. Splicing of sheetpile Ch.275-285 (LHS) for ELS works on 23 Jan 2014.</p> <p>Mitigation measures implemented by the Contractor for the above construction works include:</p> <p>Installation of acoustic panels along hoarding line at East Bowling Green; 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).</p> <p>According to relevant site records, pressing of sheetpile Ch.279-285 (RHS) and Ch.317 for ELS works and splicing of sheetpile Ch.275-285 (LHS) for ELS works were conducted at the concerned location during the time of complaint.</p> <p>Based on the photo records and information verified by RSS, noise mitigation measures including installation of acoustic panels along hoarding line at East Bowling Green and installation of addition noise barriers on top of hoarding at East Bowling Green were implemented by the Contractor at the concerned location. Furthermore, no noisy work was conducted by contractor at the areas adjoining</p>	Case closed and full investigation report issued on 6 Feb 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>East Bowling Green when there is any Bowling Green competition event to be held.</p> <p>Follow-up investigation was conducted on 29 Jan 2014 during weekly environmental inspection, noise mitigation measures including noise barriers and acoustic panels were confirmed in place and maintained in good condition. According to previous environmental inspections recorded in Jan 2014, no particular observation regarding the noise impact was recorded. As such, no non-conformity was identified.</p>	
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.	<p>ET confirmed with the Resident Site Staff that the major construction activities at the concerned location conducted on 27 Feb 2014 (Daytime) include:</p> <ul style="list-style-type: none"> <li>Backfilling works between north wall and sheetpiles and for roof slab;</li> <li>Site hoarding removal;</li> <li>Formwork erection and removal works, falsework erection;</li> <li>Concrete breaking works at roof slab and base slab and breaking up of existing tunnel corner;</li> <li>Concreting works for profile barrier inside cut and cover tunnel; and</li> <li>Rebar fixing works and WVB basement remediation works.</li> </ul> <p>Mitigation measures implemented by the Contractor for the above construction works include:</p> <ul style="list-style-type: none"> <li>Use of quiet plants (air compressor with a Noise Emission Label of 99 dB(A)).</li> </ul>	<p>Interim report submitted to EPD on 18 March 2014,</p> <p>EPD advised no further comment on 26 March 2014 and final report for case closing issued on 26 March 2014</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>According to relevant site records, major noise emanating construction activities conducted around the concerned location on 27 Feb 2014 include concrete breaking works at roof slab and base slab and breaking up of existing tunnel corner and concreting works.</p> <p>Based on information verified by the RSS, noise mitigation measure including utilization of quiet air compressor with noise emission label of 99 dB(A) was implemented by the Contractor on the 27 February 2014 to minimize the potential noise impact.</p> <p>Having reviewed the monitoring data of the monitoring stations in the vicinity of the construction site near IFC, namely noise monitoring stations M7e and M7w, no limit level exceedances were recorded on 24 Feb 2014 and 4 March 2014 and the major concrete breaking works at the concerned location conducted on 27 February 2014 was continued across the above monitoring period. In addition, no particular observations regarding noise impact were recorded during weekly site inspection conducted on 27 Feb 2014. No non-conformity was identified. As such, the construction activities under Contract HY/2009/18 were considered generally in compliance with the statutory requirement.</p> <p>Nevertheless, in view of the concern regarding noise nuisance raised by public, it is considered desirable for the Contractor to review and strengthen the noise mitigation measures around the concerned location.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 13 March 2014, additional noise mitigation measure including erection of noise blanket for concrete breaking works were implemented by the Contractor to further minimize the noise nuisance to nearby public</p>	



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	<p>A public complaint regarding odour concern referred by EPD was received by ET on 23 June 2014.</p> <p>The complainant reported that excessive paint spray odour was detected at the foot-bridge to the Central Pier 7.</p> <p>ET confirmed with the Resident Site Staff that spraying of waterproofing membrane (integritank) from Ch1700 to Ch1705 was conducted at roof slab Bay12 on 11 June 2014 and</p> <p>Screeding concrete placing from Ch1700 to Ch1683 was conducted at roof slab Bay12 on 11 June 2014 and</p> <p>Backfilling and removal of concrete blocks was conducted at roof slab Bay 11 and Bay 10-north on 11 June 2014</p> <p>According to relevant site records, major construction activities conducted around the concerned location on 11 June 2014 include spraying of waterproofing membrane (integritank) from Ch1700 to Ch1705; screeding concrete placing from Ch1700 to Ch1683 and backfilling and removal of concrete blocks. Having reviewed the relevant information verified by RSS, the chemicals applied at the concerned area on 11 June 2014 are waterproof paint and paint adhesives.</p> <p>In view of the concern regarding odour nuisance raised by the public, it is considered desirable for the Contractor to review the application method for waterproof layer nearby public area to minimize the nuisance caused to the surroundings.</p>	<p>Preliminary report issued on 25 June 2014.</p> <p>Interim report submitted to EPD on 30 June 2014.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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	<p>A public complaint regarding construction noise impact referred by RSS was received by ET on 25 July 2014 (ICC Case Ref.: 2-341537112 dated 21 July 2014). The complainant reported that :</p> <p>At 00:57hrs on 21 July 2014, he could not sleep due to work and machine at the project site opposite to the building (Ngan Tao Building), where he was living, were still going on and in operation. Noise traveled to his flat despite it was some distance away.</p> <p>ET confirmed with the Resident Site Staff that dewatering works was conducted under HY/2009/19 at the works area at Watson Road from around 23:00hrs on 20 July 2014 to 01:00hrs on 21 July 2014. Total 1 no. of generator and 23 nos. of dewatering pumps were in operation. Mobilization of telescopic arm excavator to trailer truck was performed under HY/2009/19 at the works area at Watson Road from around 00:15hrs to 01:00hrs on 21 July 2014. Total 1 no. of telescopic arm excavator and 1 no. of trailer truck were in operation.</p> <p>According to the relevant site records under Contract HY/2009/19, from around 23:00hrs on 20 July 2014 to 01:00hrs on 21 July 2014, dewatering works was conducted under HY/2009/19 at the works area at Watson Road. Total 1 no. of generator and 23 nos. of dewatering pump were in</p>	<p>Final Investigation report (Issue1) issued on 31 July 2014.</p> <p>Final investigation report (Issue 2) based on further follow-up issued on 12 Aug 2014.</p>





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>operation at the above period.</p> <p>In addition, mobilization of telescopic arm excavator to trailer truck was performed under HY/2009/19 at the works area at Watson Road from around 00:15hrs to 01:00hrs on 21 July 2014. Total 1 no. of telescopic arm excavator and 1 no. of trailer truck were in operation.</p> <p>After reviewing relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0152-14, it was considered that the below condition of CNP no. GW-RS0152-14 was not fulfilled by the Contractor of HY/2009/19.</p> <p>From 00:15hrs to 01:00hrs on 21 July 2014, the PME(s) (1 no. of telescopic arm excavator and 1 no. of trailer truck) operated under the Contractor of HY/2009/19 on-site could not follow any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0152-14.</p> <p>Notwithstanding the above, according to the information provided by the RSS, the telescopic arm excavator was mobilized at night time hours with consideration that passage of vehicle with large plant &amp; machinery through cross harbour tunnel shall be conducted after mid-night.</p> <p>the Contractor of HY/2009/19 was advised to review the need to renew relevant CNP for PME grouping with respect to specific site operation requirements such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/19 was suggested to review the arrangement for PME mobilization with maintenance need to be conducted within specific period allowed under the relevant CNP(s).</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20140801	30 July 2014	ICC complaint (ICC Case Ref.: 2-360638977) received by ET on 01 August 2014	Area opposite to Harbour Heights	Noise of sand and gravel movements at area opposite to the Harbour Heights	<p>A public complaint regarding construction noise impact referred by RSS was received by ET on 01 Aug 2014 (ICC Case Ref.: 2-360638977 dated 31 July 2014). The complainant reported that at 01:20hrs on 30 July 2014, the complainant was woken up by the noise of sand and gravel movements at area opposite to the Harbour Heights.</p> <p>ET confirmed with the Resident Site Staff that EVB excavation was undertaken at the works area around Watson Road under HY/2009/19 before 23:00hrs on 29 July 2014. (Total 1 no. of excavator, 1 no. of dump truck, 23 nos. of underground dewatering pump and 3 nos. of generator were in operation).</p> <p>Dewatering works was undertaken at works area around Watson Road under HY/2009/19 from 23:00hrs on 29 July 2104 to 01:00 hrs on 30 July 2014. (Total 23 nos. of underground dewatering pumps and 1 no. of generator were in operation).</p> <p>Mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. (1 no. of excavation machine and 1 no. of dump truck were in operation). No other construction activity or operation was performed at the area opposite to Harbour Heights from 23:00hrs on 29 July 2014 to 01:00hrs on 30 July 2014 under HY/2009/19.</p> <p>According to the relevant site records, before 2300hrs on 29 July 2014, EVB excavation at the works area around Watson Road was conducted under HY/2009/19. (Total 1 no. of dump truck , 1 no. of excavator, 3 nos. of generators and 23 nos. of dewatering pumps were in operation at the</p>	Final investigation report issued on 12 Aug 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>above period).</p> <p>From around 23:00hrs on 29 July 2014 to 01:00hrs on 30 July 2014, dewatering works at works area around Watson Road was conducted under HY/2009/19. Total 23 nos. of dewatering pumps were operating at the above period.</p> <p>In addition, mobilization of PMEs was performed at works area around Watson Road under HY/2009/19 from 00:45hrs to 01:30hrs on 30 July 2014. Total 1 no. of excavation machine and 1 no. of dump truck were in operation. After reviewing relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0152-14, it was considered the below condition of CNP GW-RS0152-14 was not fulfilled by the Contractor of HY/2009/19. From around 00:45hrs to 01:30hrs on 30 July 2014, the operation of PME(s) (1 no. of excavator and 1 no. of dump truck) under the Contractor of HY/2009/19 on-site could not follow any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0152-14.</p> <p>Notwithstanding the above, according to the information provided by the RSS, the excavator and dump truck were mobilized away from the edge of the temporary ELS structure towards the area opposite to the Harbour Heights after 23:00hrs under safety consideration.</p> <p>The Contractor of HY/2009/19 was advised to review the arrangement and location for retaining and securing PME(s)/ plants to minimize the movements of PME or plants after completion of works such that the Construction Noise Permit would be followed.</p>	



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	<p>A public complaint regarding visual impact referred by RSS was received by ET on 29 September 2014 (ICC Case Ref.: 2-466911619 dated 26 September 2014)</p> <p>The complainant reported that on 26 September 2014 at around 00:50hrs, light originating from the flyover under Central-WanChai Bypass Project was emitted towards City Garden direction and caused light nuisance.</p> <p>ET confirmed with the Resident Site Staff that the light emission on 25 and 26 September 2014 at the concerned area was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014.</p> <p>According to the relevant information provided by RSS, the light emission on 25 and 26 September 2014 at the concerned location was originated from the temporary lighting provided at the soffit of the permanent noise enclosure at the new Island Eastern Corridor Eastbound.</p> <p>The lighting was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after traffic diversion on 28 September 2014. Nevertheless, in view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.</p>	Final Investigation report submitted on 9 October 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Follow-up inspection was conducted during weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings. Further to the interim measure implemented by the Contractor of HY/2009/19, the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p> <p>The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable.</p> <p>Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings and the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p>	



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Follow-up inspection was conducted during weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings. Further to the interim measure implemented by the Contractor of HY/2009/19, the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p> <p>The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable.</p> <p>Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings and the Contractor of HY/2009/19 will replace the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p>	



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	<p>ET confirmed with the Resident Site Staff that temporary lighting was provided at the concerned area at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014.</p> <p>Temporary lighting was provided at the concerned area at the soffit of the permanent noise enclosure at the new Island Eastern Corridor (IEC) Eastbound which was necessary to provide sufficient illumination for the traffic operation on the new IEC Eastbound after the traffic diversion on 28 September 2014. In view of the public concern regarding light nuisance raised by the public, it is considered desirable for the Contractor to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surrounding receivers as far as practicable.</p> <p>During weekly environmental inspection on 8 October 2014, additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure to minimize the nuisance caused to the surroundings. Further to the interim measure implemented, on 13 October 2014 the Contractor of HY/2009/19 have replaced the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p>	Final investigation report submitted on 14 Oct 2014.





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>The Contractor of HY/2009/19 was suggested to review the lighting arrangement and implement additional measures to minimize the nuisance caused to the surroundings receivers as far as practicable.</p> <p>Additional measures including erection of green net and tarpaulin sheet were provided by the Contractor of HY/2009/19 at the concerned area as interim measure and on 13 October 2014 the Contractor of HY/2009/19 have replaced the concerned temporary lighting with temporary lighting facing Victoria Harbour at the other side of the road to minimize the light nuisance to the surroundings.</p>	
141016	14 Oct 2014	EPD complaint EPD Ref.:H05/RS/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.	<p>A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014).</p> <p>The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.</p> <p>ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.</p> <p>Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.</p>	<p>Updated interim investigation with supplementary information submitted to EPD on 17 November 2014.</p> <p>EPD advised no further comment on the updated interim report and case closed on 27 Nov 2014.</p>



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.</p> <p>Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.</p> <p>From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.</p> <p>From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.</p> <p>According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.</p> <p>From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.</p>	



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)</p> <p>Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated.</p> <p>According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on-site. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.</p> <p>Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site</p> <p>The interim report would be submitted to EPD on 17 November 2014.</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20141113	12 Nov 2014	EPD complaint (EPD Ref.: H05/RS/00028 253-14) received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	<p>A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported that Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02)</p> <p>ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated.</p> <p>According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated.</p> <p>In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on-site and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.</p>	<p>Interim investigation report submitted to EPD on 19 November 2014.</p> <p>EPD advised no comment on the interim report and case closed on 8 Dec 2014.</p>



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20150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	<p>A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.</p> <p>ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW;reclamation/ backfilling works at TPCWAW</p> <p>Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works</p> <p>According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.</p>	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
					<p>Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.</p> <p>In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a , no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.</p> <p>As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.</p> <p>ET confirmed with the Resident Site Staff that the major construction activities under Contract HK/2009/02 around the concerned location conducted on 21 January 2015 include trenching grabbing for D-wall construction at temporary road eastward, shear pin installation at temporary road westward and ground Investigation drilling at temporary road westward</p>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>Mitigation measures implemented by the Contractor of HK/2009/02 for the above construction works include regular water spraying at haul road, vehicle wheel-washing at the ingress/egress (Gate No. 4) to the temporary road, hard paving at the works area at temporary road northward and frequent water spraying at the ingress/egress (Gate No. 4) to the temporary road.</p> <p>According to the relevant site records, trenching grabbing for D-wall construction, shear pin installation and ground investigation drilling works were conducted at the concerned location. Dust mitigation measures including water spraying for haul road, vehicle wheel washing and hard paving for a section of works area nearby public road were implemented by the Contractor of HK/2009/02 near the concerned location on 21 January 2015.</p> <p>Follow-up investigation was conducted on 5 February 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works and provision of wheel washing combine with cleaning of public road were confirmed in place and no dust related impact from the construction works was observed. The Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on 21 January 2015 was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants. Based on reviewing relevant impact monitoring data, elevated TSP were recorded at monitoring stations across Wan Chai West area to North Point area and a non-Project related exceedance was recorded at nearby monitoring station CMA4a (at SPCA) on 21 January 2015 due to ambient air pollutant.</p>	





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					<p>In addition, it was noted that a section of the works area at the concerned location was not provided with site hoarding. Based on further review on relevant records it was noted that the works area at concerned section was either hard paved or have to maintain adequate line of sight due to traffic safety consideration. The Contractor of HK/2009/02 was advised to inform EPD with respect to the site constraint and provide relevant updated meeting records on the arrangement for review.</p> <p>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.</p>	
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	<p>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.</p> <p>ET confirmed with the Resident Site Staff that on 7 April 2015, major vehicle movements included oil tanker passing at Gate V2 at Expo Drive East and dump truck passing at Gate V8 at Expo Drive Central under Contract HK/2009/01.</p>	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.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>2. On 9 April 2015, major vehicle movements include oil tanker, crane lorry and dump truck passing at at Gate V2 at Expo Drive East and dump truck at Gate V8 at Expo Drive Central under Contract HK/2009/01.</p> <p>Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include water hose was provided for wheel washing at Gate V2 and Gate V8, concrete paving at site exit, dump truck fitted with mechanic cover and cleaned before leaving construction site, regular street washing at Expo Drive Central.</p> <p>According to the relevant site records under Contract HK/2009/01, on 7 April 2015, major vehicle movements included oil tanker passing at Gate V2 at Expo Drive East and dump truck passing at Gate V8 at Expo Drive Central under Contract HK/2009/01 while on 9 April 2015 major vehicle movements include oil tanker, crane lorry and dump truck passing at at Gate V2 at Expo Drive East and dump truck at Gate V8 at Expo Drive Central under Contract HK/2009/01.</p> <p>At the above locations, mitigation measures including water hose for wheel washing at Gate V2 and Gate V8; concrete paving at site exit; dump truck fitted with mechanic cover and cleaned before leaving construction site and regular street washing at Expo Drive Central were generally adopted by the Contractor of HK/2009/01.</p> <p>In view of the public concern on the complaint date, the Contractor of HK/2009/01 was advised to conduct cleaning at the concerned site exit point and the section of public road adjoining the site exit to clear any residue grit and silt desposit to avoid further dust impact.</p>	



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					<p>Follow up inspection was conducted on 16 April 2015 during weekly environmental inspection and mitigation measures including water spraying for dusty haul road and provision of wheel washing were in place. The construction site exit was observed clear from residue silt / grit at the concerned location.</p> <p>In view of the public concern, the contractor was advised to conduct training to the construction site workers to enhance the effectiveness of wheel washing and to ensure proper wheel washing is provided for dump truck and other vehicle prior to leaving the construction site to avoid generating any dust nuisance.</p>	
20150409A	03 April 2015 to 07 April 2015	EPD complaint (Ref.:H05/RS/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 Harbour View Hotel during the period of Easter Holiday	<p>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 Harbour View Hotel during the period of Easter Holiday, including April 3 at about 13:00 hours.</p> <p>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.</p> <p>According to the relevant site records under Contract HK/2009/01, from across 08:00hrs to 18:00hrs during the period from 3 April 2015 to 7 April 2015, backfilling works was conducted under Contract HK/2009/01 at CWB Tunnel Stage 3. Either 1 no. of dump truck and 1 no. of excavator was operated on site at each given time during the</p>	Interim report submitted to EPD on 17 April 2015, EPD advised no comment on 30 April 2015 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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.</p> <p>Nevertheless, in view of the concern regarding the noise nuisance raised by the public at the concerned location, it is considered desirable for the Contractor of HK/2009/01 to review the truck unloading procedures of the specific construction task to minimize potential noise emanated during the course for work.</p>	
20150415	13 April 2015	ICC complaint case (ICC Case Ref.: 2-885677297 dated 13 April 2015) received by ET on 15 April 2015	Construction Site at Causeway Bay Typhoon Bay Shelter	Unnecessary light nuisance from the construction site	<p>A public complaint regarding visual impact received by the RSS was referred to the ET on 15 April 2015 (ICC Case Ref.: 2-885677297 dated 13 April 2015). The complainant reported that " I live in a building next to Gloucester Road in Causeway Bay. Recently, I am suffering from unnecessary light source from the construction site. The banners of the construction companies are always illuminated with very bright lights."</p> <p>ET confirmed with the Resident Site Staff that the concerned lighting for the banners was maintained under Contract HY/2010/08.</p> <p>The concerned lighting for the banners was maintained 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.</p>	Final Investigation report issued on 20 April 2015 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20150423	21 April 2015	EPD complaint case ( EPD Case Ref: :H05/RS/00009456-15 dated 23 April 2015) received by ET on 23 April 2015	Road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel	Construction noise emanated from the road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel causing nuisance	<p>A public complaint regarding construction noise impact referred by EPD was received by ET on 23 April 2015 (EPD Ref.:H05/RS/00009456-15 dated 23 April 2015). The complainant reported that construction noise emanated from the road work at Fleming Road and Convention Avenue near Renaissance Harbour View Hotel almost every night recently causing nuisance.</p> <p>ET confirmed with the Resident Site Staff that from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation.</p> <p>According to the relevant site records under Contract HK/2009/01, from 21:00hrs on 20 April 2015 to 06:00hrs on 21 April 2015 and from 21:00hrs on 21 April 2015 to 06:00hrs on 22 April 2015, cooling main connection works was undertaken by the Contractor of Contract HK/2009/01 at the concerned location. Total 1 no. of crane lorry and 1 no. of excavator were in operation during the concerned period and the relevant Construction Noise Permit GW-RS0269-15 was confirmed in place. The construction activity conducted under Contract HK/2009/01 during the concerned period was in compliance with the statutory requirement. In view of the potential noise nuisance, a notice to affected parties was issued by the Contractor of Contract HK/2009/01 to the nearby residents including Renaissance Harbour View Hotel on 17 April 2015. Besides, construction works undertaken by other parties at the concerned location was observed at the concerned period.</p>	Final Investigation report issued on 18 May 2015 and case closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20150601	29 May 2015	EPD complaint case (EPD Case Ref: :H05/RS/00013254-15 dated 1 June 2015) received by ET on 23 April 2015	Construction site gates V2 and V3 near Expo Drive Central	Vehicle with plate no. TG2426 was found leaving the construction site at gate V2 near Expo Drive Central without wheel-washed	<p>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.</p> <p>ET confirmed with the Resident Site Staff that on 29 May 2015, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3.</p> <p>Mitigation measures adopted by the Contractor of HK/2009/01 at the above locations include, water hose was provided for wheel washing at Gate V2 and Gate V3.</p> <p>According to the relevant site records under Contract HK/2009/01, vehicle record indicated that concerned vehicle TG 2426 has entered and exited the construction site via gate V3 on 29 May 2015 under Contract HK/2009/01. As confirmed by WDII RSS, the concerned construction site Gate V2 and Gate V3 have been closed from 31 May 2015 and formed part of the construction site area.</p> <p>Follow up inspection was conducted on 3 June 2015 during weekly environmental inspection and mitigation measures including wheel washing were implemented at construction exit gates around the concerned location despite a vehicle was observed leaving the construction site via Gate V8 without wheel washing. The Contractor was immediately advised to review and strengthen the control measures for vehicle exits to ensure wheel washing are provided for exiting vehicles.</p>	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.



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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/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.	<p>A public complaint regarding construction noise impact referred by EPD was received by ET on 8 June 2015 (EPD Ref.:H05/RS/00013843-15 dated 8 June 2015). The complainant reported that construction noise was generated from the construction site of Contract HK/2012/08 at location outside Fleet Arcade during restricted hours including Sundays and General Holidays.</p> <p>ET confirmed with the Resident Site Staff that from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 at site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation.</p> <p>According to the relevant site records under Contract HK/2012/08, from 08:00hrs to 18:00hrs on 31 May 2015 (Sunday), construction work including steel welding was conducted under Contract HK/2012/08 site portion zone A1 opposite to Fleet Arcade. Total one welding machine was in operation and the relevant Construction Noise Permit GW-RS0296-15 was confirmed in place. The construction activity conducted under Contract</p>	Interim report submitted to EPD on 16 June 2015 and EPD advised no comment on 20 July 2015 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>HK/2012/08 during the concerned period was in compliance with the statutory requirement. Ad-hoc inspection was conducted during weekly environmental inspection on 9 June 2015 and it was noted that Construction Noise Permits under Contract HK/2012/08 were posted at site entrance locations for public inspection.</p> <p>In view of the potential noise nuisance, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance. Besides, other construction sites at the concerned location were observed.</p> <p>Furthermore, a meeting was held on 15 June 2015 between the EPD, Contractor of HK/2012/08, WDII RSS team and the Environmental Team on the public concern and the Contractor of HK/2012/08 has committed to review the re-application for the Construction Noise Permits GW-RS0223-15 and GW-RS0296-15 on usage of PMEs at a portion of site area outside the Fleet Arcade during public holiday including Sundays to minimize for the potential noise nuisance to nearby public.</p>	
150622	18 June 2015	EPD Ref.:H05/RS/00015054-15 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.





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 &amp; 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 &amp; 4 for transportation of the excavated material away from site.</p> <p>According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 &amp; 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 &amp; 4 for transportation of the excavated material from Portions 3 &amp; 4 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was</p>	



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



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					<p>No construction works was undertaken by Central WanChai Bypass Project at the concerned location and no sump pit or works area under Central WanChai Bypass Project associated with potential muddy effluent discharge was identified. In addition, a construction area with excavated pit under WSD Contract 12/WSD/10 was noted at the concerned location behind the alleged vehicle responsible for direct discharge of muddy effluent.</p> <p>Based on the further review on the information received on 23 July 2015, the alleged direct discharge was observed originating from the works area under WSD Contract 12/WSD/10 and not related to the Central Wan Chai Bypass Project construction works.</p>	
150723	20 July 2015	EPD Ref.:H05/RS/0018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & 722 Bus stop	Malodour from marine sediment	<p>A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015).</p> <p>The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 &amp; 722 bus stop. (Contract HK/2009/02).</p> <p>ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015.</p> <p>According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date.</p>	Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.



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					<p>Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.</p> <p>Nevertheless, the Contractor was reminded to review the 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.</p>	
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 loading of material	<p>A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)</p> <p>ET confirmed with the Resident Site Staff that transferring of C&amp;D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015.</p> <p>Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.</p> <p>According to the relevant site records under Contract HK/2009/02, transferring of C&amp;D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between</p>	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&amp;D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&amp;D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.</p> <p>The Contractor was reminded to maintain the handling procedure for C&amp;D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.</p>	
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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				transporting C&D material at the site.	<p>ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation.</p> <p>From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation.</p> <p>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.</p> <p>One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.</p> <p>Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold</p>	3 <sup>rd</sup> interim report submitted to EPD on 31 Dec 2015



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					<p>and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.</p> <p>From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.</p> <p>From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.</p>	



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





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151117	Not specified	EPD complaint received by ET on 17 Novmeber 2015	Causeway Bay Typhoon Shelter	Improper handling or bentonite and marine sediment generated from construction works and contaminated discharge from water treatment plant into Victoria Harbour	<p>A public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Harbour.</p> <p>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.</p> <p>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.</p> <p>White or greyish effluent was discharged directly into Victoria Harbour marine waters from wastewater treatment plant on construction site.</p> <p>In response to the complaint concern, additional water quality monitoring from end November 2015 to mid January 2016 until the post-diaphragm wall construction activities and all bentonite silos and residue bentonite slurry at TS3 were completely removed had been undertaken by the Environmental Team and additional site inspections</p>	<p>Interim investigation report submitted to EPD on 24 November 2015.</p> <p>2<sup>nd</sup> interim investigation report submitted to EPD on 17 December 2015.</p> <p>3<sup>rd</sup> interim investigation report submitted to EPD on 31 December 2015.</p> <p>Final investigation report submitted on 5 February 2016.</p>



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					<p>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&amp;D material disposed.</p> <p>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:</p> <p>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.</p> <p>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.</p>	



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 complaint case (ICC Ref: 2-159316569 4) dated 26 November 2015	26 No 2015	ICC complaint received by ET on 27 November 2015	Construction area outside City Garden Block 11	Noise nuisance due to windblown slapping of a metal onto adjacent barrier at night time	<p>A public complaint regarding noise impact referred by RSS was received by ET on 27 November 2015 (ICC Case Ref.: 2-1593165694 dated 26 November 2015). The complainant reported that noise was emanated from the IECL construction site outside City Garden Block 11 due to the windblown slapping of a metal sheet onto adjacent barrier causing nuisance to nearby residents at night time.</p> <p>ET confirmed with the Resident Site Staff that the noise nuisance was caused by the windblown action of the corrugated metal sheet loosely affixed onto the temporary noise barrier panel above a concrete block footing fronting City Garden.</p> <p>The noise nuisance was caused by the windblown action of the corrugated metal sheet loosely affixed onto the temporary noise barrier panel above a concrete blocking footing fronting City Garden. The concerned corrugated metal sheet was removed by the Contractor of HY/2009/19 on 27 November 2015 to avoid further generation of noise nuisance.</p>	Final investigation report to be issued on 01 December 2015.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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 November 2015	EPD complaint received by ET on 04 December 2015	Two International Finance Centre at Finance Street, Central	Construction dust generated from construction site near Two International Finance Centre	<p>A public complaint regarding construction dust impact referred by EPD was received by ET on 04 December 2015 (EPD Ref: H04/RS/00028924-15). The complainant reported that excessive construction dust was generated from the construction site near Two International Finance Centre at Finance Street, Central</p> <p>ET confirmed with the Resident Site Staff that bridge works and drains/ sewers construction at the concerned location was undertaken by Contract HY/2009/18 on 12 November 2015. A stockpile which would be reused for backfilling was stored at the concerned location by Contract HY/2009/18 on 12 November 2015.</p> <p>Mitigation measures implemented by the Contractor for the above construction works including covering of idled portion of stockpile and dampening of the exposed stockpile was implemented for the stockpile at the concerned location.</p>	<p>1<sup>st</sup> interim report submitted to EPD on 14 December 2015</p> <p>2<sup>nd</sup> interim report submitted to EPD on 4 January 2016</p> <p>EPD advised no comment on 07 January 2015 on the report submitted and case closed.</p>



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					watering during excavated material handling near the concerned location. Further follow up inspection was conducted on 17 December 2015 and mitigation measures including covering and watering for idle stockpile and material handling were implemented.	
ICC complaint case (ICC Case Ref: 2-1656689815 dated 14 December 2015	14 December 2015	EPD complaint received by ET on 04 December 2015	Construction area outside City Garden Block 10 and Block 11	Incessant noise emanating from the construction site of the Island East Corridor link that forms part of the Central Wanchai Bypass Project	<p>A public complaint regarding noise impact referred by RSS was received by ET on 16 December 2015 (ICC Case Ref.: 2-1656689815 dated 14 December 2015). The complainant reported that:</p> <p>Incessant noise emanating from the construction site of the Island Eastern Corridor Link that forms part of the Central-Wanchai Bypass Project.</p> <p>Over the past couple of weeks, there have been loud mechanical pounding at the construction site over the reclaimed area between Blocks 10 and 11 of City Garden. As can be seen, machines have been breaking open the concrete paved on top of the reclaimed area. Work often starts well before 9am on weekdays and, barring a brief period of lull during lunch hours, would often continue unabated 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</p>	Final report was issued on 23 December 2015 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>living in nearby blocks of our estate, especially children and the elderly who have to stay at home for longer hours.</p> <p>ET confirmed with the Resident Site Staff that concreting breaking works was carried out with one breaker on 7, 9, 11, 12 and 14 December 2015 and the breaking works at the concerned location were completed on 14 December 2015 morning. Noise mitigation measures including temporary noise barriers near the point of breaking and covering the breaker with acoustic mat were provided during the concerned concrete breaking works.</p> <p>According to information confirmed by RSS, concreting breaking works was carried out by one excavator mounted breaker on 7, 9, 11, 12 and 14 December 2015 and the concerned breaking works outside City Garden Block 10 and Block 11 was completed on 14 December 2015 morning. Noise mitigation measures including temporary noise barriers near the point of breaking and covering the breaker with acoustic mat were provided during the concerned concrete breaking works. Based on the further review on the record of the environmental inspection conducted on 09 December 2015, the Contractor of HY/2009/19 was reminded to temporary noise barrier provided for the pile cap demolition shall follow the the Environmental Permit EP-364/2009/D requirement.</p>	



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 Environmental Permit EP-364/2009/D shall be completed on site as soon as possible. According to the information provided by RSS, the temporary noise barrier in accordance with the Environmental Permit requirement opposite to City Garden was substantially completed on 21 December 2015. In view of the public concern, the Contractor was suggested to consider to review the works duration at daytime and conduct other future breaking works around the concerned location intermittently to minimize the potential noise nuisance caused to the surroundings.	
EPD Ref.: H05/RS/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.	<p>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)</p> <p>ET confirmed with the Resident Site Staff that from 1900hrs to 2115hrs on 06 January 2016, shifting of equipment and socket H-pile casing was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one crawler crane was in operation.</p>	Interim investigation report submitted to EPD on 22 January 2016





Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>According to the relevant site records provided by RSS, shifting of equipment and socket H-pile casing was undertaken by the Contractor of HK/2012/08 at the concerned location from 1900hrs to 2115hrs on 06 January 2016. Total one crawler crane was in operation and the relevant Construction Noise Permit GW-RS0976-15 for the concerned operation was confirmed in place.</p> <p>Based on the above, the construction activities conducted under Contract HK/2012/08 on 06 January 2016 after 1900hrs was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carried out during restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern.</p>	
ICC complaint case (ICC Ref.: #2-1754682833 and ICC Ref: #2-1759629742	19 January 2016	EPD complaint received by ET on 19 January 2016	Hung Hing Road	Drainage at Hung Hing Road, Causeway Bay near the entrance of Cross Harbour Tunnel was blocked and sewage was overflowing from the sewer.	<p>Two public complaints regarding the subject matter on blocked drainage were referred by RSS was received by ET on 19 January 2016 (ICC Ref.: #2-1754682833 and ICC Ref: #2-1759629742).</p> <p>The first complainant (ICC Ref.: #2-1754682833) on 11 January 2016 reported that the drainage at Hung Hing Road, Causeway Bay near the entrance of Cross Harbour Tunnel was blocked and sewage was overflowing from the sewer.</p> <p>The first complainant on 13 January 2016 enquired the status of follow-up, the complainant reported that the sewage overflow was severe and pose environmental hygiene concern to the</p>	Final investigation report issued on 27 January 2016



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>surroundings.</p> <p>The first complainant on 14 January 2016 reported that the situation was not improved and would escalate the case if not addressed.</p> <p>The second complainant on 12 January 2016 (ICC Ref: #2-1759629742) reported that a foul sewer was found choking and foul water flows onto the carriageways.</p> <p>ET confirmed with the Resident Site Staff that no discharge point from the Contractor of HY/2009/15 is located within the concern portion of public drain (roadside gully) along Hung Hing Road.</p> <p>The observed yellow pipe extending from the roadside gully at Hung Hing Road into the site area under Contract HY/2009/15 was installed by the Contractor of HY/2009/15 to pump excessive sewage from the roadside gully on 11 January 2016.</p> <p>According to relevant site records and information provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby.</p> <p>Based on relevant site information, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road while the observed yellow pipe extending from the 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</p>	



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/RS/00001524-16	22 January 2016	EPD complaint received by ET on 22 January 2016	Hung Hing Road	Construction wastewater from the China Stat's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water	A public complaint regarding the blockage of public drainage referred by EPD was received by ET on 22 January 2016 (EPD Case Ref.: H05/RS/00001524-16). The complainant reported that construction wastewater from the China State's construction site under Contract HY/2009/15 was discharged from the site exit at Hung Hing Road near the Royal Hong Kong Yacht Club to the carriage of Hung Hing Road causing accumulation of stagnant water starting from 11 January 2016. ET confirmed with the Resident Site Staff that no construction activities with potential runoff at the main entrance of PRE Office was conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016. Concreting for Seawall Reinstatement at TPCWAE was conducted under Contractor of HY/2009/15 on 12 January 2016 and 18 January 2016. Concreting for construction works at covered Tunnel by using concrete pump at TPCWAE was conducted under Contractor of HY/2009/15 on 13 January 2016 and 16 January 2016.  According to relevant site records and information	Interim investigation report submitted to EPD on 01 February 2016



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>provided by RSS, a steady flow of wastewater, noticeably sewer-like odour, was seeping through an existing sewage manhole at Hung Hing Road on 11 January 2016 and resulting in the formation of local ponding formed around the low point gully nearby.</p> <p>Based on relevant site information provided by RSS, no construction activity with potential runoff at the main entrance of PRE Office were conducted under Contractor of HY/2009/15 on 11, 14, 15 and 17 January 2016 while concreting for seawall reinstatement at TPCWAE were conducted on 12 January 2016 and 18 January 2016 and concreting for construction works at covered Tunnel by using concrete pump at TPCWAE were conducted on 13 January 2016 and 16 January 2016. All construction runoff was pumped to the wastewater treatment facility. In addition, no discharge point from the Contractor of HY/2009/15 was located at the concerned public drain (roadside gully) along Hung Hing Road.</p> <p>Follow up inspection was conducted during the weekly environmental inspection on 26 January 2016. No further accumulation of wastewater and particular blockage of the concerned roadside gully at Hung Hing Road was observed and no overflow from the roadside sewer was observed. The condition of the construction site exit under HY/2009/15 was generally in order and no particular construction surface runoff was observed. Nevertheless, the Contractor of HY/2009/15 was reminded to upkeep the site exit condition to avoid any potential impact to the surroundings.</p>	



***Appendix 10.1***

*Construction Programme of Individual Contracts*

Activity ID	Activity Name	OD	Start	Finish	2015				2016			
									Qtr 1		Qtr 2	
									Jan	Feb	Mar	Apr
<b>HK/2009/01 - Revised Works Progress Rev. 6H ( Data Date: 20 Jan 16)</b>												
<b>Section 3 of the Works - CWB Tunnel, Slip Roads 2 &amp; 3, Works in Area 8</b>												
<b>CWB Tunnelling Works (Stage 1 : CH2947 - CH3045)</b>												
<b>Stage 1 - Tunnel Structure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045)</b>												
<b>Tunnel Structure at Stage 1A &amp; 1B (CH2947 - CH3045)</b>												
S3A-TS-2080	Backfilling to formation level for Stage 1B (CH 80 to CH 120)	200d	19/01/15 A	05/02/16	Backfilling to formation level for Stage 1B (CH 80 to CH 120)							
<b>CWB Tunnelling Works (Stage 2 : Ch3045 - Ch3129)</b>												
<b>Stage 2 - Tunnel Structure Works (Bay 7 to Bay 10 : CH3045 - CH3129)</b>												
S3B-TS-9000A	Backfilling to Formation Level (CWB) - 12,000cu.m	20d	29/12/15 A	05/02/16	Backfilling to Formation Level (CWB) - 12,000cu.m							
<b>CWB Tunnelling Works (Stage 3 : Ch3129 - Ch3245)</b>												
<b>Stage 3 - Tunnel Structure Works (Bay 11 to Bay 20 : Ch3129 - Ch3245)</b>												
<b>Tunnel Structure at Stage 3A &amp; 3B (CH3129 - CH3245)</b>												
S3C-TS-2000E	Bay 10 to Bay 13 Slip Road 3 Top Slab	15d	25/12/15 A	22/01/16	Bay 10 to Bay 13 Slip Road 3 Top Slab							
S3C-TS-2000E	Bay 10 to Bay 13 Slip Road 3 Scaffold Removal	14d	23/01/16	05/02/16	Bay 10 to Bay 13 Slip Road 3 Scaffold Removal							
S3C-TS-2000E	Bay 10 to Bay 13 Slip Road 3 Road Barrier	13d	06/02/16	18/02/16	Bay 10 to Bay 13 Slip Road 3 Road Barrier							
S3C-TS-2000L	Removal of 1st layer of strut/waling	9d	04/12/15 A	05/02/16	Removal of 1st layer of strut/waling							
S3C-TS-2000N	Construction of Bay 10 Slip Road 3 Road Barrier	7d	28/01/16	18/02/16	Construction of Bay 10 Slip Road 3 Road Barrier							
S3C-TS-2030H	Bay 14 CWB and Slip Road 3 Road Barrier	14d	19/11/15 A	18/02/16	Bay 14 CWB and Slip Road 3 Road Barrier							
S3C-TS-2030K	Backfilling to Road formation level from Bay 10 to Bay 14	30d	12/01/16 A	05/02/16	Backfilling to Road formation level from Bay 10 to Bay 14							
S3C-TS-2090C	Bay 15,16 & 17 Slip Road 3 Road Barrier	14d	25/01/16*	10/02/16	Bay 15,16 & 17 Slip Road 3 Road Barrier							
S3C-TS-2090D	Bay 15,16 & 17 Slip Road 2 Road Barrier	14d	25/01/16*	10/02/16	Bay 15,16 & 17 Slip Road 2 Road Barrier							
S3C-TS-2110E	Removal Scaffold at Bay 18 to 20	17d	13/01/16 A	05/02/16	Removal Scaffold at Bay 18 to 20							
S3C-TS-2110F	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier	9d	06/02/16	14/02/16	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier							
S3C-TS-2150	Backfilling up to Future Road Formation for Bay 19 - Bay20	32d	06/04/16	07/05/16								

■ Remaining Work     ■ Summa...  
■ Actual Work  
■ Summary Bar  
■ Critical Remaining Work  
◆ Milestone

CEDD CONTRACT NO. HK/2009/01  
 Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)  
WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 20/01/16

Date	Revision	Checked	Appro...
15-Sep-15	Master Programme 6H		
20/01/16	Progress Updated on 20 Jan 2016		

Activity ID	Activity Name	OD	Start	Finish	2015				2016			
									Qtr 1		Qtr 2	
									Jan	Feb	Mar	Apr
<b>Section 8 of the Works - Works in Area 6 (Utilities other than Watermains in Fenwick Pier Street)</b>												
<b>Sewerage Works</b>												
S8-3010	Planter Reinstatement	30d	29/07/15 A	05/02/16	[Actual Work]				Planter Reinstatement			
S8-3020	Road Reinstatement	21d	25/09/15 A	05/02/16	[Actual Work]				Road Reinstatement			
<b>Section 9 of the Works - Remaindar of the Works</b>												
<b>Box Culvert Construction</b>												
S9-1070	Backfill the Temporary Water Channel from East to West (BG/BI Connection Point at Water Channel)	30d	02/06/15 A	05/02/16	[Actual Work]				Backfill the Temporary Water Channel from East to West (BG/BI Connection Point at Water Channel)			
<b>Reprovision of Expo Drive East</b>												
S9-2060	Construction of Retaining Wall Extension to Top of Box Culvert Bay 7	30d	01/02/16*	01/03/16					[Critical Remaining Work]			
<b>Waterworks in Area 9</b>												
<b>Abandoned Pipes Removal</b>												
S9-7090	Zone A4-4 Abandoned Pipes P7/P9 Removal Works	30d	14/10/15 A	01/02/16	[Actual Work]				Zone A4-4 Abandoned Pipes P7/P9 Removal Works			
S9-7100	Zone X1-4a Abandoned Pipes P5 Removal Works/ grouting	14d	27/10/15 A	05/02/16	[Actual Work]				Zone X1-4a Abandoned Pipes P5 Removal Works/ grouting			
<b>Variation Order No.153 - Design and Construct CWB Bypass Tunnel from CH3246 to CH3278</b>												
<b>Works at Area 8 - CWB Tunnel, Slip Roads 2 &amp; 3, Works in Area 8</b>												
<b>CWB Tunnelling Works (Stage 4: Ch3246 - Ch3278)</b>												
<b>Stage 4 - Tunnel Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278)</b>												
S4-TS-0005	Pile Head Fabrication	15d	18/01/16 A	23/01/16	[Actual Work]				Pile Head Fabrication			
S4-TS-0010	Bay 21 Base Slab	10d	18/01/16 A	28/01/16	[Actual Work]				Bay 21 Base Slab			
S4-TS-0020	Bay 22 Base Slab	10d	21/01/16	04/02/16	[Actual Work]				Bay 22 Base Slab			
S4-TS-0030	Removal of 3rd and 4th layer of Strut/Waling	28d	05/02/16	04/03/16	[Actual Work]				Removal of 3rd and 4th layer of Strut/Waling			
S4-TS-0040	Bay 21 & 22 Wall	15d	05/03/16	20/03/16	[Actual Work]				Bay 21 & 22 Wall			
S4-TS-0050	Bay 21 & 22 Wall & OHVD Base Slab	15d	21/03/16	04/04/16	[Actual Work]				Bay 21 & 22 Wall & OHVD Base Slab			
S4-TS-0060	Bay 21 & 22 OHVD Wall Stem and Top Slab	15d	05/04/16	20/04/16	[Actual Work]				Bay 21 & 22 OHVD Wall Stem and Top Slab			

█ Remaining Work     █ Summa...  
█ Actual Work  
█ Summary Bar  
█ Critical Remaining Work  
◆ Milestone

**CEDD CONTRACT NO. HK/2009/01**  
 Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)  
WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 20/01/16

Date	Revision	Checked	Appro...
15-Sep-15	Master Programme 6H		
20/01/16	Progress Updated on 20 Jan 2016		















Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015				2016					
					Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar		
<b>HK/2012/08 Three Months Rolling Programme (Dec 2015 to Feb 2016)</b>														
<b>Dredging and Reclamation</b>														
<b>Marine Work Construction</b>														
<b>Zone A1</b>														
<b>Seawall Construction - Zone A1</b>														
MAR10310	Zone A1 - seawall - Type 3 - fill rock mound	8	08-Jan-16	15-Jan-16										
MAR10312	Zone A1 - seawall - Type 3 - lay toe block and leveling stone	8	16-Jan-16	23-Jan-16										
MAR10320	Zone A1 - seawall - install block seawall type 3	8	24-Jan-16	31-Jan-16										
MAR10340	Zone A1 - seawall - place type A behind seawall Type 3	6	01-Feb-16	06-Feb-16										
MAR10345	Zone A1 - seawall - lay geotextile and filter behind seawall Type 3	4	13-Feb-16	17-Feb-16										
<b>Zone C</b>														
<b>Dredging - Zone C</b>														
MAR11520	Zone C - Cut existing pipe pile (2 nos.)	30	17-Dec-15	23-Jan-16										
<b>Zone D</b>														
<b>Seawall Construction - Zone D</b>														
<b>Seawall 10 &amp; 11</b>														
MAR20582	Zone D - fill rock mound for Seawall 10 & 11	6	30-Nov-15	05-Dec-15										
MAR20584	Zone D - lay toe block and level stone for Seawall 10 & 11	6	07-Dec-15	12-Dec-15										
MAR20605	Zone D - Install block seawall 10	14	14-Dec-15	31-Dec-15										
MAR20610	Zone D - Install block seawall 11	14	15-Dec-15	02-Jan-16										
<b>Filling - Zone D</b>														
<b>Filling at North</b>														
MAR12160	Zone D - Sorted Public Fill up to +2.5mPD (north area)	12	04-Jan-16	16-Jan-16										
MAR12180	Zone D - Sorted & Compacted Public Fill from +2.5 to +4mPD (north area)	12	07-Jan-16	20-Jan-16										
<b>Others - Landing Steps</b>														
MAR21400	Zone D - [summary] landing steps at seawall 9	70	30-Nov-15	27-Feb-16										
<b>Works for Section Completion</b>														
<b>Construction</b>														
<b>Section II - MVB Structure</b>														
<b>MVB Substructure - ELS &amp; Structural Works for Portion A</b>														
<b>MVB Substructure - Structural Works for Portion A</b>														
SII11140	Sec II - MVB A - Remove Strut SL7 and SL6	5	30-Nov-15	04-Dec-15										
SII11160	Sec II - MVB A - Construct B3/F top slab, column and wall	53	10-Nov-15 A	02-Feb-16										
SII11180	Sec II - MVB A - Remove Strut SL5 and SL4	5	30-Nov-15	04-Dec-15										
SII11200	Sec II - MVB A - Construct 2/F top slab, column and wall	57	03-Feb-16	19-Apr-16										

Data Date: 30-Nov-15

- ◆ Current Milestone
- Actual Work
- Critical Remaining Work
- Remaining Work
- Remaining Level of Effort

**Works Programme for non-CRIII Zones? Dec 2015 to Feb 2016)**

Date	Revision	Checked	Approved
29-Dec-15			



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015				2016			
					Dec	Jan	Feb	Mar	Jan	Feb	Mar	
SII11220	Sec II - MVB A - Remove Strut SL3 and SL2	5	30-Nov-15	04-Dec-15								
SII11280	Sec II - MVB A: Remove Strut SL1	5	30-Nov-15	04-Dec-15								
<b>MVB Substructure - ELS &amp; Structural Works for Portion B</b>												
<b>MVB Substructure - Structural Works for Portion B</b>												
SII11780	Sec II - MVB B: Construct B3/F base slab	6	29-Sep-15 A	05-Dec-15								
SII11800	Sec II - MVB B: Construct B3/F wall, colum & base slab	64	07-Dec-15	27-Feb-16								
SII11820	Sec II - MVB B: remove strut SL8, SL7	5	30-Nov-15	04-Dec-15								
SII11860	Sec II - MVB B: Remove Strut SL6 & SL5	5	30-Nov-15	04-Dec-15								
SII11900	Sec II - MVB B: Remove Strut SL4 & SL3	5	30-Nov-15	04-Dec-15								
SII11940	Sec II - MVB B: Remove Strut SL2	4	30-Nov-15	03-Dec-15								
<b>MVB Substructure - Piling Works</b>												
<b>MVB C - Prebored H Piles</b>												
SII10400	Sec II - MVB C - construct prebored H-piles	37	20-Nov-15 A	14-Jan-16								
<b>MVB Substructure - Diaphragm Wall for Portion C</b>												
<b>MVB C - Pumping Test Preparation/ Pumping Test</b>												
SII10660	Sec II - MVB C - sheetpile wall installation	30	15-Jan-16	24-Feb-16								
SII10680	Sec II - MVB C - Precaution grout / fissure grout	35	17-Feb-16	28-Mar-16								
<b>Section II A - CWB Tunnel &amp; Slip Road Structures and Facilities</b>												
<b>CWB A2(2)</b>												
<b>CWB A2 (2) - Dwall &amp; Piling</b>												
SIIA15320	Sec II A - CWB A2 : construct Temp DWall (1.2m thk)	22	06-Oct-15 A	24-Dec-15								
SIIA15360	Sec II A - CWB A2 : construct pre-bored H-pile	57	16-Nov-15 A	06-Feb-16								
SIIA15400	Sec II A - CWB A2 : Dwall sonic test	40	03-Dec-15	21-Jan-16								
SIIA15420	Sec II A - CWB A2 Loading Test for Prebored H-pile	15	30-Nov-15	16-Dec-15								
<b>CWB A2 (2) - Pumping Test Preparation/ Pumping Test</b>												
<b>CWB A2 - Pumping Test Preparation</b>												
SIIA15440	Sec II A - CWB A2 : Install dewatering/ recharging/ observation well	30	17-Dec-15	23-Jan-16								
<b>CWB A2 &amp; B - Pumping Test</b>												
SIIA15460	Sec II A - CWB A2 : Pumping Test	10	13-Feb-16	24-Feb-16								
<b>CWB A2 (2) - ELS &amp; Tunnel Structure</b>												
<b>CWB A2 - ELS</b>												
SIIA12440	Sec II A - CWB A2 : shoring & excavation	31	13-Feb-16	19-Mar-16								
SIIA12445	Sec II A - CWB A2 : demolition of temp bulk head wall at west end	30	15-Feb-16	19-Mar-16								
SIIA12448	Sec IIA - CWB A2 : demolition of temp bulk head wall at East end	30	15-Feb-16	19-Mar-16								
<b>CWB B (&amp; A2(1))</b>												
<b>CWB B - Dwall &amp; Piling</b>												
SIIA11560	Sec II A - CWB B: Concrete Plug (MTR TWL)	15	15-Jun-15 A	16-Dec-15								
<b>CWB B - ELS &amp; Tunnel Structure</b>												
<b>CWB B - ELS</b>												
SIIA13520	Sec II A - CWB B: Shoring & Excavation	26	22-Oct-15 A	31-Dec-15								



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015				2016			
					Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar
SIIA13540	Sec II A - CWB B: Demolish Sheetpile Bulkhead wall at Concrete Plug	35	30-Nov-15	12-Jan-16								
<b>CWB B - Tunnel Structure</b>												
SIIA13560	Sec II A - CWB B: base, wall, OHVD & roof (bay 1)	45	02-Jan-16	29-Feb-16								
SIIA13600	Sec II A - CWB B: base, wall, OHVD & roof (bay 2)	45	20-Jan-16	17-Mar-16								
SIIA13660	Sec II A - CWB B: base, wall, OHVD & roof (bay 3)	45	20-Jan-16	17-Mar-16								
<b>CWB C (W)</b>												
<b>CWB C(W) - Dwall Construction</b>												
SIIA11960	Sec II A - CWB CW: Concrete Plug (MTR TWL)	14	16-Jun-15 A	15-Dec-15								
SIIA11980	Sec II A - CWB CW: D-wall contact grout / fissure grout	21	21-Aug-15 A	23-Dec-15								
SIIA12000	Sec II A - CWB CW: Dwall sonic test / interface core	19	17-Aug-15 A	21-Dec-15								
<b>CWB C(W) - Pumping Test Preparation/ Pumping Test</b>												
SIIA12020	Sec II A - CWB CW: Install dewatering/ recharging/ observation wells	40	30-Nov-15	18-Jan-16								
SIIA12040	Sec II A - CWB CW: Pumping Test	8	19-Jan-16	26-Jan-16								
<b>CWB C(W) - ELS &amp; Tunnel Structure</b>												
<b>CWB C(W) - ELS</b>												
SIIA12080	Sec II A - CWB CW: Shoring & Excavation	26	30-Nov-15	31-Dec-15								
SIIA12120	Sec II A - CWB CW: Demolish Sheetpile Bulkhead at Concrete Plug	26	30-Nov-15	31-Dec-15								
<b>CWB C(W) - Tunnel Structure</b>												
SIIA12140	Sec II A - CWB CW: base, wall, OHVD & roof (bay 1)	45	02-Jan-16	29-Feb-16								
SIIA12180	Sec II A - CWB CW: base, wall, OHVD & roof (bay 2)	45	14-Jan-16	11-Mar-16								
<b>CWB C (E)</b>												
<b>CWB C(E) &amp; Enabling Work - Dwall Construction</b>												
<b>SCL Enabling Work - Dwall Construction</b>												
SIIA13085	Sec II A - CWB CE: Cut existing pipe piles (2 nos.)	30	30-Nov-15	06-Jan-16								
SIIA15520	Sec II - SCL Enabling Works - construct Dwall - Remaining [7 panels]	76	18-Feb-15 A	05-Mar-16								
<b>CWB C(E) - Pumping Test Preparation/ Pumping Test</b>												
SIIA13060	Sec II A - CWB CE: Grout curtain for Dwall	45	25-Jan-16	22-Mar-16								
SIIA13080	Sec II A - CWB CE: Dwall sonic test / interface core	45	25-Jan-16	22-Mar-16								
<b>CWB C(E) - ELS &amp; Tunnel Structure</b>												
<b>CWB C(E) - ELS</b>												
SIIA13160	Sec II A - CWB CE: Shoring & Excavation(Uppn Completion of MVB Structure - B2 Slab)	45	30-Nov-15	23-Jan-16								
SIIA13170	Sec II A - CWB CE: Demolish Bulkhead at East End (adj. to bay 1)	26	22-Dec-15	23-Jan-16								
SIIA13180	Sec II A - CWB CE: Demolish Bulkhead at MVB (adj. to bay 3)	30	17-Dec-15	23-Jan-16								
<b>CWB C(E) - Tunnel Structure</b>												
SIIA13220	Sec II A - CWB CE: base, wall, OHVD & roof (bay 1)	45	25-Jan-16	22-Mar-16								
SIIA13260	Sec II A - CWB CE: base, wall, OHVD & roof (bay 2)	45	17-Feb-16	13-Apr-16								
SIIA13280	Sec II A - CWB CE: base, wall, OHVD & roof (bay 3)	45	17-Feb-16	13-Apr-16								
<b>CWB C - Exhaust Duct</b>												
<b>CWB C - Exhaust Duct Piling</b>												
SIIA12840	Sec II A - Exhaust Duct at Slip Rd3: Prebored H-pile	32	30-Nov-15	08-Jan-16								



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015				2016			
					Dec	Jan	Feb	Mar	Jan	Feb	Mar	
SIIA12860	Sec II A - Exhaust Duct at Slip Rd3: Loading Test	21	09-Jan-16	02-Feb-16								
<b>CWB C - Exhaust Duct Temp Work &amp; ELS</b>												
SIIA12880	Sec II A - Exhaust Duct at Slip Rd3: Temp. Sheetpiling	30	09-Jan-16	18-Feb-16								
SIIA12900	Sec II A - Exhaust Duct at Slip Rd3: Excavation & Shoring	35	19-Feb-16	30-Mar-16								
<b>CWB D - Slip Road 1</b>												
<b>CWB D - Slip Road 1 - Dwall Construction &amp; Piling</b>												
SIIA12340	Sec II A - CWB SR1: Concrete Plug (MTR TWL)	32	12-Aug-15 A	08-Jan-16								
<b>CWB D - Slip Road 1 - Pumping Test Preparation/ Pumping Test</b>												
SIIA12360	Sec II A - CWB SR1: Grout curtain / contact grout for Dwall	60	30-Nov-15	16-Feb-16								
SIIA12380	Sec II A - CWB SR1: Dwall sonic test / interface core	60	30-Nov-15	16-Feb-16								
SIIA12400	Sec II A - CWB SR1: Install dewatering/ recharging/ observation wells	45	31-Dec-15	27-Feb-16								
<b>CWB D - Slip Road 1 - ELS &amp; Tunnel Structure</b>												
<b>CWB D - Slip Road 1 - ELS</b>												
SIIA12460	Sec II A - CWB SR1: Shoring & Excavation	37	30-Nov-15	14-Jan-16								
<b>CWB D - Slip Road 1 - Tunnel Structure</b>												
SIIA12480	Sec II A - CWB SR1: Demolish Sheetpile Bulkhead at Concrete Plug	45	30-Nov-15	23-Jan-16								
SIIA12500	Sec II A - CWB SR1: base, wall & roof (bay 1)	40	15-Jan-16	07-Mar-16								
SIIA12520	Sec II A - CWB SR1: base, wall & roof (bay 2)	40	27-Jan-16	18-Mar-16								
SIIA12540	Sec II A - CWB SR1: base, wall & roof (bay 3)	40	13-Feb-16	30-Mar-16								
SIIA12560	Sec II A - CWB SR1: base, wall & roof (bay 4)	40	25-Feb-16	15-Apr-16								
<b>CWB D - Slip Road 1 - Trough / Retaining Wall</b>												
<b>CWB D - Slip Road 1 - Trough/Retaining Wall Temp Work &amp; ELS</b>												
SIIA12740	Sec II A - CWB SR1 Trough & RW: Preboring for installing Sheetpile	14	29-Jan-16	19-Feb-16								
SIIA12760	Sec II A - CWB SR1 Trough & RW: install sheetpile	21	20-Feb-16	15-Mar-16								
<b>Section III - Road D11 &amp; Part of Road P2, Area 4, Implement 1st Stage ITA</b>												
<b>Roadwork &amp; Utilities</b>												
<b>General</b>												
SIII10485	Sec III - 1st Stage of Interim Traffic Arrangement - miscellaneous works	16	19-Jan-16	05-Feb-16								
<b>Section III A - Road A2, A4, A5, Area 11; Implement 2nd Stage ITA</b>												
<b>Roadwork &amp; Utilities at A1</b>												
SIIIA10260	Sec III A - roadwork and utilities (Zone A1) - Backfill to pavement founding level	70	18-Feb-16	16-May-16								
<b>Section VI A - Box Culvert La, L1 &amp; FRP-L Construction</b>												
<b>Sec VI C - Box Culvert La bay 4 (North)</b>												
CUL11660	Sec VI C - Culvert L - bay 4 - backfill	30	30-Nov-15	06-Jan-16								
<b>Box Culvert L1 &amp; FRP-L Construction (Bay 5 - Bay 7)</b>												
<b>Box Culvert L1 &amp; FRP-L - Bay 5 to 7 Structure</b>												
<b>Box Culvert L1 &amp; FRP-L - Precast Unit Fabrication (Box Structure)</b>												
CUL10872	Sec VI C - Culvert L - bay 4b - Construct precast culvert units with Bulkhead	11	29-Jun-15 A	11-Dec-15								
CUL10873	Sec VI C - Culvert L - bay 4b, 5-7 - dismantle formwork and curing for precast culvert units	12	12-Dec-15	28-Dec-15								
<b>Box Culvert L1 &amp; FRP-L - Bay 5 &amp; 6 Backfill &amp; Others</b>												





Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2015				2016			
					Dec	Jan	Feb	Mar	Jan	Feb	Mar	
CUL10878	Sec VI C - Culvert L - bay 5, 6 - backfill to +4.0mPD	30	22-Oct-15 A	06-Jan-16								
CUL10879	Sec VI C - Culvert L - bay 5, 6 - trim to formation level and handover Area 6	10	07-Jan-16	18-Jan-16								
<b>Box Culvert L1 &amp; FRP-L - Bay 7 Backfill &amp; Others</b>												
CUL11785	Sec VI C - Culvert L - bay 7 - Diversion of flow from temp channel into Cul L	5	15-Feb-16*	19-Feb-16								
CUL11800	Sec VI C - Culvert L - bay 7 - backfill to +4.0mPD	35	20-Feb-16	31-Mar-16								
<b>Box Culvert L1 &amp; FRP-L - Bay 12 to 13</b>												
<b>Box Culvert L1 &amp; FRP-L - Bay 12 to 13 Piling</b>												
CUL12356	Culvert L - bay 13 - construct pre-bored H-pile (PC10 & PC11)	30	01-Dec-15*	07-Jan-16								
<b>Box Culvert L1 &amp; FRP-L - Bay 12 to 13 Temp Work &amp; ELS</b>												
CUL12480	Culvert L - bay 12 & 13 - pile head treatment and construct pile cap PC9, PC10 & PC11	30	08-Jan-16	17-Feb-16								
<b>Box Culvert L1 &amp; FRP-L - Bay 12 to 13 Structure</b>												
CUL12545	Culvert L - bay 12 & 13 - Construct Precast Units (off site)	45	08-Dec-15*	01-Feb-16								
CUL12548	Culvert L - bay 12 & 13 - Deliver and Install Precast Units	7	18-Feb-16	25-Feb-16								
<b>Section VI C - Area 3, 6, 8A &amp; 8C</b>												
<b>Area 8A &amp; 8C - Seawall Modification</b>												
<b>Modification of Seawall</b>												
<b>Modification of Seawall - Zone 1 &amp; 2</b>												
PRS10060	Sec VIC - Working Platform & P7 to P17, P18, P18A, P23, P24, P32 - P34 & P32A - P34A (DTH)	10	30-Nov-15	10-Dec-15								
PRS10080	Sec VIC - Working Platform & P59, P59A, P60, P60A, P61, P61A, P62, P62A, P63 - P66 (DTH)	39	21-Dec-15	06-Feb-16								
PRS10085	Sec VIC - Curtain Grout (DTH)	49	11-Dec-15	15-Feb-16								
<b>Modification of Seawall - Zone 4</b>												
PRS10160	Sec VIC - Working Platform (Zone 4)	8	30-Nov-15	08-Dec-15								
PRS10180	Sec VIC - Pipe Pile P63 to P68 & P64A (Zone 4)	10	09-Dec-15	19-Dec-15								
<b>Area 8A - MTR Pump Room Clearance &amp; Handover</b>												
PRS-1060	Sec VI C - Clearance of pump house for Handover	5	04-Feb-16	15-Feb-16								
<b>Area 6 - Box Culvert bay 5-6</b>												
SVIC10020	Sec VI C - backfill to formation level at Area 6	30	30-Nov-15	06-Jan-16								
SVIC10040	Sec VI C - U-Channel and ug utilities at Area 6	18	07-Jan-16	27-Jan-16								
<b>Area 3 - Box Culvert bay 4 and Roadwork</b>												
SVIC10240	Sec VI C - reinstate and compact sub-base above Culvert L Bay 4 in Area 3	7	07-Jan-16	14-Jan-16								
SVIC10260	Sec VI C - reinstate road kerb in Area 3	6	07-Jan-16	13-Jan-16								
SVIC10280	Sec VI C - reinstate flexible pavement in Area 3	6	14-Jan-16	20-Jan-16								
SVIC10300	Sec VI C - reinstate footpath in Area 3	5	21-Jan-16	26-Jan-16								
SVIC10320	Sec VI C - reinstate traffic sign and road marking in Area 3	1	26-Jan-16	26-Jan-16								
<b>Section VI D - Area 8B &amp; 10</b>												
<b>WDII Box 1 Construction</b>												
<b>WDII Box 1 Submission and Approval / Material Procurement</b>												
PCU60410	Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure	29	02-Jan-16*	04-Feb-16								
<b>WDII Box 1 Existing Pile Head and Dry Dock</b>												
WD-C3030	Sec VI D - form dry dock / waterproofing for Box 1 structure	26	15-Oct-15 A	31-Dec-15								







WP13-0		Layout: CWB - Working Layout for DWP Rev M					Date Printed 26-Sep-14 11						
Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016		
							Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>HY/2009/15 - Works Programme Rev. M (DD:20-Sep-12)</b>													
<b>Works in East Ventilation Adit - Based on Alternative Method</b>													
<b>Reinstatement of Breakwater</b>													
S3_54840	Reinstatement works -west side	7d/wk-1	60d	21-Feb-14 08 A	30-Sep-14 18	-85d							
S3_60085	Reinstatement works east side	7d/wk-1	60d	31-May-14 08 A	30-Sep-14 18	-85d							
S3_54845	Completion of Section 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	0d		30-Sep-14 18	-86d							
<b>Works in TS1/TS2 - OHVD and Cable Trough/Maintenance Walkway</b>													
<b>TS2 - OHVD and Cable Trough/Maintenance Walkway</b>													
<b>OHVD Slab and Cable Trough Construction</b>													
S3_6210	TS2 - OHVD/ Cable trough	7d/wk-1	40d	20-May-14 08 A	30-Sep-14 18	-85d							
S3_6212	Completion of Section 3 - TS1/TS2 Area (below -6mpd) KD8)	7d/wk-2	0d		30-Sep-14 18	-86d							
<b>Works in TS4/ME4 Area (Portion 14A, 14B, 15, 23)</b>													
<b>TS4/ME4 - Removal of Temporary Reclamation</b>													
<b>Remaining Works at TZ6</b>													
<b>Stage 4 - Seawall and Reclamation at TZ6</b>													
A-2010	Installation of seawall blocks (Qty: 245 nos.)	7d/wk-2	6d	15-Sep-14 08 A	26-Sep-14 18	-332d							
A-2020	Soil Backfilling up to -2.45mPD (Qty:3,000 cu.m.)	7d/wk-2	2d	25-Sep-14 08	26-Sep-14 18	-332d							
A-2030	Utilities installation for Mined Tunnel	7d/wk-2	1d	27-Sep-14 08	27-Sep-14 18	-332d							
A-2040	Soil backfilling up to ground level (Qty:2,000 cu.m.)	7d/wk-2	2d	28-Sep-14 08	29-Sep-14 18	-332d							
A-2050	Site clearance	7d/wk-2	1d	30-Sep-14 08	30-Sep-14 18	-305d							
A-2060	Handover to MTR	7d/wk-2	0d		30-Sep-14 18	-305d							
<b>Removal of Temporary Reclamation at TS4/ME4</b>													
<b>Stage 5 (Zones A, D &amp; F - TS4-D33 to D-26, SCL2 &amp; ME4-D19 to D13)</b>													
A-3000	D-Wall horizontal cutting (Qty: 62 pcs.)	7d/wk-2	21d	29-Aug-14 08 A	23-Sep-14 18	-340d							
<b>Stage 6 (Zone C - P4, ME4-D12 to ME4-D16 &amp; P3)</b>													
A-3011	Marine removal of temporary reclamation and seawall blocks (Zones C )	7d/wk-2	21d	31-Aug-14 08 A	02-Oct-14 18	-353d							
A-3030	D-Wall vertical cutting (Qty: 15 pcs.)	7d/wk-2	4d	03-Oct-14 08	06-Oct-14 18	-353d							
A-3040	D-Wall horizontal cutting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d							

- Summary Bar
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone

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China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

**WORKS PROGRAMME REV. M**

Prepared by William Caluza			
Date	Revision	Checked	Approved
26-Sep...	1st submission		





Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016					
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
<b>Stage 7 (Zones C &amp; E - ME4-D06 to D01, SCL1 &amp; TS4-D25)</b>																
A-4000	Marine removal of temporary reclamation and seawall blocks (Zones C & E)	7d/wk-2	18d	06-Sep-14 08 A	06-Oct-14 18	-353d										
A-3090	Hole coring (Qty: 44 nos)	7d/wk-2	9d	20-Sep-14 08*	28-Sep-14 18	-346d										
A-4010	D-Wall vertical cutting (Qty: 27pcs.)	7d/wk-2	7d	07-Oct-14 08	13-Oct-14 18	-353d										
A-4020	D-Wall horizontal cutting (Qty: 37 pcs.)	7d/wk-2	10d	11-Oct-14 08	20-Oct-14 18	-353d										
<b>Stage 9 (Zone I - TS4-D01 to TS4-D08)</b>																
A-3050	Remaining removal of temporary reclamation (Zone I)	7d/wk-2	28d	29-Aug-14 08 A	01-Oct-14 18	-342d										
A-3060	Hole coring (Qty: 25 nos)	7d/wk-2	5d	02-Oct-14 08	06-Oct-14 18	-342d										
A-3070	D-Wall vertical cutting (Qty: 14 pcs.)	7d/wk-2	3d	07-Oct-14 08	09-Oct-14 18	-342d										
A-3080	D-Wall horizontal cutting (Qty: 24 pcs.)	7d/wk-2	5d	21-Oct-14 08	25-Oct-14 18	-353d										
<b>Stage 8 (Zones G &amp; K - TS4-D24 to TS4-D15)</b>																
A-4040	Relocation of RHKYC floating pontoon	7d/wk-2	5d	22-Sep-14 08*	26-Sep-14 18	-338d										
A-4050	Hole coring (Qty: 27 nos)	7d/wk-2	6d	29-Sep-14 08	04-Oct-14 18	-346d										
A-4060	Marine removal of temporary reclamation and seawall blocks (Zone G & K)	7d/wk-2	14d	11-Oct-14 08	24-Oct-14 18	-352d										
A-4070	D-Wall vertical cutting (Qty: 18pcs.)	7d/wk-2	4d	25-Oct-14 08	28-Oct-14 18	-352d										
A-4080	D-Wall horizontal cutting (Qty: 25 pcs.)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-352d										
<b>Stage 10 (Zone J - TS4-D09 to TS4-D14)</b>																
A-4090	Land removal of temporary reclamation (Zone J)	7d/wk-2	10d	07-Oct-14 08	16-Oct-14 18	-344d										
A-5000	Hole coring (Qty: 32 nos)	7d/wk-2	7d	17-Oct-14 08	23-Oct-14 18	-340d										
A-5010	Marine removal of temporary reclamation (Zone J)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-353d										
A-5020	D-Wall vertical cutting (Qty: 20 pcs.)	7d/wk-2	5d	02-Nov-14 08	06-Nov-14 18	-353d										
A-5030	D-Wall horizontal cutting (Qty: 26 pcs.)	7d/wk-2	7d	04-Nov-14 08	10-Nov-14 18*	-353d										
<b>Stage 13 - Phase 3 Mooring</b>																
A-5050	Final trimming of sea bed level	7d/wk-2	4d	02-Nov-14 08	05-Nov-14 18	-347d										
A-5060	Phase 3 Mooring	7d/wk-2	6d	06-Nov-14 08	11-Nov-14 18	-347d										
A-5040	Reinstatement of existing seawall (Zones I & J)	7d/wk-2	7d	11-Nov-14 08	17-Nov-14 18	-353d										
<b>Stage 12 - Re-provisioning of Jetty</b>																
S6_5258	Provision of Mobile Crane (until permanent re-provision of Jetty is completed)	7d/wk-1	160d	20-Feb-14 08 A	30-Dec-14 18	-335d										
A-6010	BA8 submission and consent for commencement of superstructure	7d/wk-2	28d	20-Sep-14 08 A	16-Oct-14 18	-336d										

-  Summary Bar
-  Actual Level of Effort
-  Actual Work
-  Remaining Work
-  Critical Remaining Work
-  Milestone

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China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

**WORKS PROGRAMME REV. M**

Prepared by William Caluza			
Date	Revision	Checked	Approved
26-Sep...	1st submission		



**中國建築工程(香港)有限公司**  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016								
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3					
A-6012	Submission of performance report	7d/wk-2	1d	25-Oct-14 08*	25-Oct-14 18	-286d													
A-6020	Erection of working platform for jetty beams and reinstate the floating portoon	7d/wk-2	10d	02-Nov-14 08	11-Nov-14 18	-352d													
A-6040	BA10 submission for authorized signatory and subcontractor	7d/wk-2	1d	12-Nov-14 08	12-Nov-14 18	-304d													
A-6030	Jetty beams construction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d													
A-6052	Construction of floating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d													
A-6050	BA13 submission + 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d													
A-6060	E&M and accessories installation	7d/wk-2	7d	24-Dec-14 08	30-Dec-14 18	-352d													
A-6070	Handover to RHKYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d													
<b>Stage 11 - Construction of TZ4</b>																			
A-6080	South side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d													
A-6090	South side - install seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	06-Oct-14 08	11-Oct-14 18	-339d													
A-7000	South side - general fill (Qty: 2,000 cu.m.)	7d/wk-2	2d	12-Oct-14 08	13-Oct-14 18	-339d													
A-7010	North side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d													
A-7020	North side - install seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	02-Nov-14 08	07-Nov-14 18	-346d													
A-7030	North side - general fill (Qty:2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d													
A-7040	Handover to contract TS3/SR8	7d/wk-2	1d	10-Nov-14 08	10-Nov-14 18*	-346d													
<b>TS4/ME4, Removal of Temporary Reclamation</b>																			
S26875	Completion of Section 2 (With ME4 option) (KD7)	7d/wk-2	0d		17-Nov-14 18	-353d													
S26890	Completion of Section 7B (ME4) (KD13)	7d/wk-2	0d		17-Nov-14 18	-353d													
<b>TS4 - OHVD / Cable Trough</b>																			
S5_6185	TS4 (incl. TS4+) - OHVD Slab - Area C (access through temp. opening at TZ4)	7d/wk-1	36d	02-Jan-15 08*	06-Feb-15 18	195d													
S5_6190	TS4 (incl. TS4+) - Cable Trough (access through temp. opening at TZ4)	7d/wk-1	60d	07-Feb-15 08*	14-Apr-15 18	195d													
S5_59850	Completion of Section 5 - TS4/ME4 Area (KD10), below -20mPD	7d/wk-2	0d		02-Nov-15 18*	0d													
<b>Works in TPCWAE Area (Portion 20A, 20B)</b>																			
<b>Removal of Temporary Reclamation</b>																			
<b>Removal of Temporary Reclamation &amp; Form TZ5</b>																			
S87670	Remove general fill /sea wall block	7d/wk-1	24d	20-May-14 08A	08-Oct-14 18	-296d													
S87675	Diaphragm wall saw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08A	16-Oct-14 18	-306d													
S87755	Form TZ5	7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d													

- Summary Bar
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China State Construction Engineering (Hong Kong) Ltd  
 Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  
**WORKS PROGRAMME REV. M**

Prepared by William Caluza			
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Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016									
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3						
S6785	Achievement of KD5	7d/wk-2	0d		16-Oct-14 18	-323d														
S6787	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	0d		27-Oct-14 18	-322d														
<b>Reinstate Mucking Out Access Shaft "C"</b>																				
S67240	Start reinstatement works (after completion of TPCWAW OHVD works)	6d/wk	0d	28-Mar-16 08		-102d														
S67225	Cast slab opening at top of CCT West bound (access shaft)	6d/wk	18d	28-Mar-16 08	16-Apr-16 18	-102d														
S67230	Removal of vertical shaft and backfilling	6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d														
S67235	Reinstatement of pavement	6d/wk	12d	30-May-16 08	11-Jun-16 18	-102d														
<b>TPCWAE - OHVD / Cable Trough</b>																				
S5_7405	TPCWAE - Cable Trough (access through temp. opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	0d														
S5_7400	TPCWAE - OHVD Slab AT Area A (access through temp. opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	0d														
S5_59840	Completion of Section 5 - TPCWAE Area (KD10), below -20mPD	7d/wk-2	0d		02-Nov-15 18*	0d														
<b>Works in TPCWAW Area</b>																				
<b>TPCWAW - Temporary Reclamation</b>																				
<b>Temporary Reclamation -</b>																				
S6_9440	TPCWAW - place levelling stone and tamping, South side	7d/wk-1	6d	15-Oct-14 08	20-Oct-14 18	-122d														
S6_9450	TPCWAW - place seawall block to +4 at South side (Qty: 569 nos. @ 50 nos/day)	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-122d														
S6_9465	TPCWAW - place levelling stone and tamping, North side	7d/wk-1	6d	02-Nov-14 08	07-Nov-14 18	-122d														
S6_9470	TPCWAW - place seawall blocks to +4 North side (Qty:672 nos @ 50 nos/day)	7d/wk-1	14d	08-Nov-14 08	21-Nov-14 18	-122d														
S6_9495	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d	15-Nov-14 08	01-Dec-14 18	-122d														
S6_9490	TPCWAW - place seawall blocks to +4 at the temporary opening	7d/wk-1	7d	02-Dec-14 08	08-Dec-14 18	-122d														
S6_9475	TPCWAW - Remaining General fill to +4 within the seawall	7d/wk-1	10d	09-Dec-14 08	18-Dec-14 18	-122d														
<b>TPCWAW - Diaphragm Wall</b>																				
<b>Diaphragm Wall</b>																				
S6_9385	Site investigation	7d/wk-1	49d	01-Dec-14 08	21-Jan-15 18	-113d														
S6_8960	Install guide wall	7d/wk-1	40d	17-Dec-14 08	28-Jan-15 18	-120d														
S6_8955	Curtain grout along proposed diaphragm wall	7d/wk-1	40d	19-Dec-14 08	30-Jan-15 18	-122d														
S6_9382	Set up bentonite silo/plants and equipments	7d/wk-1	30d	19-Dec-14 08	20-Jan-15 18	-112d														
S6_9345	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d	30-Jan-15 08	14-Apr-15 18	-141d														
S6_9350	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d														

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China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

WORKS PROGRAMME REV. M

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中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
S6_9355	Install king posts	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d			■	Install king posts				
S6_8970	Diaphragm Wall Pile test	7d/wk-1	40d	20-Mar-15 08	03-May-15 18	-129d			■	Diaphragm Wall Pile test				
S6_9375	Carry out contact/fissure grouting	7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d			■	Carry out contact/fissure grouting				
<b>TPCWAW- ELS Works</b>														
<b>ELS Works</b>														
S6_9360	Install dewatering wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d			■	Install dewatering wells and piezometers				
S6_9365	Install inclinometers inside D-wall	7d/wk-1	20d	15-Apr-15 08	05-May-15 18	-141d			■	Install inclinometers inside D-wall				
S6_8975	Carry out pumping tests	7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d			■	Carry out pumping tests				
S6_8980	1st Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	06-May-15 08	15-May-15 18	-141d			■	1st Layer - D Wall conc over break if any & Soft Excavation				
S6_9260	Submit pumping test report	7d/wk-1	1d	06-May-15 08	06-May-15 18	-137d				Submit pumping test report				
S6_8985	1st Layer - install lateral support	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d			■	1st Layer - install lateral support				
S6_8990	Install vibrating wire strain gauge	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d			■	Install vibrating wire strain gauge				
S6_8995	2nd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	18-May-15 08	28-May-15 18	-141d			■	2nd Layer - D Wall conc over break if any & Soft Excavation				
S6_9000	2nd Layer - install lateral support	7d/wk-1	10d	29-May-15 08	07-Jun-15 18	-141d			■	2nd Layer - install lateral support				
S6_9005	3rd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	31-May-15 08	09-Jun-15 18	-141d			■	3rd Layer - D Wall conc over break if any & Soft Excavation				
S6_9010	3rd Layer - install lateral support	7d/wk-1	10d	10-Jun-15 08	19-Jun-15 18	-141d			■	3rd Layer - install lateral support				
S6_9015	4th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	12-Jun-15 08	22-Jun-15 18	-141d			■	4th Layer - D Wall conc over break if any & Soft Excavation				
S6_9020	4th Layer - install lateral support	7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-141d			■	4th Layer - install lateral support				
S6_9025	5th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	25-Jun-15 08	05-Jul-15 18	-141d			■	5th Layer - D Wall conc over break if any & Soft Excavation				
S6_9030	5th Layer - install lateral support	7d/wk-1	10d	27-Jun-15 08	07-Jul-15 18	-141d			■	5th Layer - install lateral support				
S6_9035	6th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d			■	6th Layer - D Wall conc over break if any & Soft Excavation				
S6_9040	6th Layer - install lateral support	7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	-69d			■	6th Layer - install lateral support				
<b>TPCWAW - ROCK EXCAVATION</b>														
S6_6180	Rock excavation to formation	7d/wk-1	112d	18-Jul-15 08	09-Nov-15 18	-141d			■	Rock excavation to formation				
S6_9370	Install tie back anchor to D- Walls (area on west side, near Portion 11)	7d/wk-1	25d	20-Jul-15 08	13-Aug-15 18	-69d			■	Install tie back anchor to D- Walls (area on west side, near Portion 11)				
S6_9415	Install tie back anchor to D- Walls (east area)	7d/wk-1	20d	20-Jul-15 08	08-Aug-15 18	-69d			■	Install tie back anchor to D- Walls (east area)				
S6_9055	Provide Access to WDII Contractor for demolition of bulkhead at Portion 11	7d/wk-2	0d		10-Nov-15 18	-133d			◆	Provide Access to WDII Contractor for demolition of bulkhead				
<b>TPCWAW- CCT RC Structure</b>														
<b>TPCWAW - CCT / OHVD</b>														

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China State Construction Engineering (Hong Kong) Ltd

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WORKS PROGRAMME REV. M

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CHINA STATE CONSTRUCTION ENGINEERING HONG KONG LTD.







Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016							
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
A8705	SR8 Bench Excavation From West, CH 4065- 4075 = 10m	7d/wk-1a	20d	25-Sep-14 08	15-Oct-14 18	148d												
A8685	SR8 Bench Excavation From West, CH 4075- 4085 = 10m	7d/wk-1a	20d	16-Oct-14 08	04-Nov-14 18	148d												
A8680	SR8 Bench Excavation From West, CH 4085- 4095 = 10m	7d/wk-1a	20d	05-Nov-14 08	24-Nov-14 18	148d												
A8725	SR8 Bench Excavation From West, CH 4095- 4100 = 5m	7d/wk-1a	10d	25-Nov-14 08	04-Dec-14 18	148d												
<b>From East (TS4)</b>																		
<b>Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)</b>																		
A8495	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m	7d/wk-1a	16d	15-Sep-14 08 A	28-Sep-14 18	10d												
<b>Bench Excavation (1.5d/m, 20m separation with heading)</b>																		
A8455	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m	7d/wk-1a	19d	20-Sep-14 08	09-Oct-14 18	0d												
A8470	SR8 Bench Excavation From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	0d												
A8460	SR8 Bench Excavation From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	25-Oct-14 08	08-Nov-14 18	0d												
A8465	SR8 Bench Excavation From East, CH 4115- 4100 = 15m	7d/wk-1a	23d	09-Nov-14 08	01-Dec-14 18	0d												
<b>Tunnel Lining Works</b>																		
<b>From West - Base Slab (10m/bay, 10m separation with benching excavation)</b>																		
A8525	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab	7d/wk-1a	10d	15-Sep-14 08 A	04-Oct-14 18	137d												
A8530	SR8, From West, CH 4025 - 4035 = 10m/bay, base slab	7d/wk-1a	10d	05-Oct-14 08	14-Oct-14 18	163d												
A8535	SR8, From West, CH 4035 - 4045 = 10m/bay, base slab	7d/wk-1a	8d	15-Oct-14 08	22-Oct-14 18	165d												
A8540	SR8, From West, CH 4045 - 4055 = 10m/bay, base slab	7d/wk-1a	8d	23-Oct-14 08	30-Oct-14 18	165d												
A8545	SR8, From West, CH 4055 - 4065 = 10m/bay, base slab	7d/wk-1a	8d	05-Nov-14 08	12-Nov-14 18	160d												
A8550	SR8, From West, CH 4065 - 4075 = 10m/bay, base slab	7d/wk-1a	8d	25-Nov-14 08	02-Dec-14 18	148d												
A8555	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab	7d/wk-1a	8d	05-Dec-14 08	12-Dec-14 18	148d												
A8560	SR8, From West, CH 4085 - 4095 = 10m/bay, base slab	7d/wk-1a	8d	13-Dec-14 08	20-Dec-14 18	150d												
A8561	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	7d/wk-1a	8d	21-Dec-14 08	29-Dec-14 18	152d												
A8562	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	30-Dec-14 08	07-Jan-15 18	154d												
<b>From West - Lining (5m/bay, 10m separation with base slab)</b>																		
A8575	SR8, From West, CH 3995 - 4000 = 1bay, lining	7d/wk-1a	9d	20-Sep-14 08	28-Sep-14 18	0d												
A8580	SR8, From West, CH 4000 - 4005 = 1bay, lining	7d/wk-1a	9d	05-Oct-14 08	13-Oct-14 18	137d												
A8585	SR8, From West, CH 4005 - 4010 = 1bay, lining	7d/wk-1a	9d	14-Oct-14 08	22-Oct-14 18	137d												
A8590	SR8, From West, CH 4010 - 4015 = 1bay, lining	7d/wk-1a	9d	23-Oct-14 08	31-Oct-14 18	137d												

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Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016						
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3			
A8595	SR8, From West, CH 4015 - 4020 = 1bay, lining	7d/wk-1a	9d	01-Nov-14 08	09-Nov-14 18	137d											
A8600	SR8, From West, CH 4020 - 4025 = 1bay, lining	7d/wk-1a	9d	10-Nov-14 08	18-Nov-14 18	137d											
A8605	SR8, From West, CH 4025 - 4030 = 1bay, lining	7d/wk-1a	5d	19-Nov-14 08	23-Nov-14 18	137d											
A8610	SR8, From West, CH 4030 - 4035 = 1bay, lining	7d/wk-1a	5d	24-Nov-14 08	28-Nov-14 18	137d											
A8615	SR8, From West, CH 4035 - 4040 = 1bay, lining	7d/wk-1a	5d	29-Nov-14 08	03-Dec-14 18	137d											
A8620	SR8, From West, CH 4040 - 4045 = 1bay, lining	7d/wk-1a	5d	04-Dec-14 08	08-Dec-14 18	137d											
A8625	SR8, From West, CH 4045 - 4050 = 1bay, lining	7d/wk-1a	5d	09-Dec-14 08	13-Dec-14 18	137d											
A8630	SR8, From West, CH 4050 - 4055 = 1bay, lining	7d/wk-1a	5d	14-Dec-14 08	18-Dec-14 18	137d											
A8635	SR8, From West, CH 4055 - 4060 = 1bay, lining	7d/wk-1a	5d	19-Dec-14 08	23-Dec-14 18	137d											
A8640	SR8, From West, CH 4060 - 4065 = 1bay, lining	7d/wk-1a	5d	24-Dec-14 08	29-Dec-14 18	137d											
A8645	SR8, From West, CH 4065 - 4070 = 1bay, lining	7d/wk-1a	5d	30-Dec-14 08	04-Jan-15 18	137d											
A8647	SR8, From West, CH 4070 - 4075 = 1bay, lining	7d/wk-1a	5d	05-Jan-15 08	09-Jan-15 18	137d											
A8648	SR8, From West, CH 4075 - 4080 = 1bay, lining	7d/wk-1a	5d	10-Jan-15 08	14-Jan-15 18	137d											
A8649	SR8, From West, CH 4080 - 4085 = 1bay, lining	7d/wk-1a	5d	15-Jan-15 08	19-Jan-15 18	137d											
A8651	SR8, From West, CH 4085 - 4090 = 1bay, lining	7d/wk-1a	5d	20-Jan-15 08	24-Jan-15 18	137d											
A8652	SR8, From West, CH 4090 - 4095 = 1bay, lining	7d/wk-1a	5d	25-Jan-15 08	29-Jan-15 18	137d											
A8653	SR8, From West, CH 4095 - 4100 = 1bay, lining	7d/wk-1a	5d	30-Jan-15 08	03-Feb-15 18	137d											
A8654	SR8, From West, CH 4100 - 4105 = 1bay, lining	7d/wk-1a	5d	04-Feb-15 08	08-Feb-15 18	137d											
From East - Base Slab (10m/bay, 10m separation with benching excavation)																	
A9775	SR8 From East, CH 4149.5 - 4145 = 4.5m, base slab	7d/wk-1a	8d	02-Dec-14 08	09-Dec-14 18	0d											
A9780	SR8 From East, CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	8d	10-Dec-14 08	17-Dec-14 18	0d											
A9785	SR8 From East, CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	8d	18-Dec-14 08	26-Dec-14 18	8d											
A9786	SR8 From East, CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	27-Dec-14 08	04-Jan-15 18	10d											
From East - Lining (5m/bay, 10m separation with base slab)																	
A9820	From East, SR8 CH 4149.5 - 4145 = 4.5m, 1 bay, lining	7d/wk-1a	5d	18-Dec-14 08	22-Dec-14 18	0d											
A9815	From East, SR8 CH 4145 - 4140 = 1bay, lining	7d/wk-1a	5d	23-Dec-14 08	28-Dec-14 18	6d											
A9810	From East, SR8 CH 4140 - 4135 = 1bay, lining	7d/wk-1a	5d	29-Dec-14 08	03-Jan-15 18	6d											
A9805	From East, SR8 CH 4135 - 4130 = 1bay, lining	7d/wk-1a	5d	04-Jan-15 08	08-Jan-15 18	6d											

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							Q4	Q1	Q2	Q3	Q4	Q1	Q2
A9870	From East, SR8 CH 4130 - 4125 = 1bay, lining	7d/wk-1a	5d	09-Jan-15 08	13-Jan-15 18	6d		■	From East, SR8 CH 4130 - 4125 = 1bay, lining				
A9800	From East, SR8 CH 4125 - 4120 = 1bay, lining	7d/wk-1a	5d	14-Jan-15 08	18-Jan-15 18	143d		■	From East, SR8 CH 4125 - 4120 = 1bay, lining				
A9860	From East, SR8 CH 4120 - 4115 = 1bay, lining	7d/wk-1a	5d	19-Jan-15 08	23-Jan-15 18	143d		■	From East, SR8 CH 4120 - 4115 = 1bay, lining				
A9855	From East, SR8 CH 4115 - 4110 = 1bay, lining	7d/wk-1a	5d	24-Jan-15 08	28-Jan-15 18	143d		■	From East, SR8 CH 4115 - 4110 = 1bay, lining				
A9850	From East, SR8 CH 4110 - 4105 = 1bay, lining	7d/wk-1a	5d	29-Jan-15 08	02-Feb-15 18	143d		■	From East, SR8 CH 4110 - 4105 = 1bay, lining				
<b>OHVD(10m/bay) / Utility Trough</b>													
A8570	SR8 Tunnel OHVD and utility trough =, 167= 17 bays @ 10m/bay @ 7d/bay	7d/wk-1a	120d	09-Feb-15 08	13-Jun-15 18	137d		■	SR8 Tunnel OHVD and utility trough =, 167= 17 bays @ 10m/bay @ 7d/bay				
<b>EB Outer Tunnel Excavation</b>													
<b>From West (TPCWAE)</b>													
<b>Outer Bench Excavation (1.5d - 2d/m, 20m separation with heading)</b>													
A9550	EB, Outer Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	30d	07-Aug-14 08 A	20-Oct-14 18	135d	■	EB, Outer Bench From West, CH 4035- 4045 = 10m					
A9555	EB, Outer Bench From West, CH 4045- 4055 = 10m (2d/m)	7d/wk-1a	20d	20-Oct-14 08	08-Nov-14 18	135d	■	EB, Outer Bench From West, CH 4045- 4055 = 10m (2d/m)					
A9560	EB, Outer Bench From West, CH 4055- 4065 = 10m (2d/m)	7d/wk-1a	20d	09-Nov-14 08	28-Nov-14 18	135d	■	EB, Outer Bench From West, CH 4055- 4065 = 10m (2d/m)					
A9565	EB, Outer Bench From West, CH 4065- 4075 = 10m (2d/m)	7d/wk-1a	20d	29-Nov-14 08	18-Dec-14 18	135d	■	EB, Outer Bench From West, CH 4065- 4075 = 10m (2d/m)					
A9520	EB, Outer Bench From West, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a	20d	19-Dec-14 08	09-Jan-15 18	135d	■	EB, Outer Bench From West, CH 4075- 4085 = 10m (2d/m)					
A9545	EB, Outer Bench From West, CH 4085- 4095 = 10m 1.5d/m)	7d/wk-1a	15d	10-Jan-15 08	24-Jan-15 18	135d	■	EB, Outer Bench From West, CH 4085- 4095 = 10m 1.5d/m)					
<b>From East (TS4)</b>													
<b>Outer Bench Excavation (1.5d-2d/m, 20m separation with heading)</b>													
A9605	EB, Outer Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	30d	20-Oct-14 08*	18-Nov-14 18	120d	■	EB, Outer Bench From East, CH 4147.5 - 4145 = 2.5m					
A9610	EB, Outer Bench From East, CH 4145- 4135 = 10m (2d/m)	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	120d	■	EB, Outer Bench From East, CH 4145- 4135 = 10m (2d/m)					
A9615	EB, Outer Bench From East, CH 4135- 4125 = 10m (2d/m)	7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	120d	■	EB, Outer Bench From East, CH 4135- 4125 = 10m (2d/m)					
A9620	EB, Outer Bench From East, CH 4125- 4115 = 10m (2d/m)	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	120d	■	EB, Outer Bench From East, CH 4125- 4115 = 10m (2d/m)					
A9625	EB, Outer Bench From East, CH 4115- 4105 = 10m (2d/m)	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	120d	■	EB, Outer Bench From East, CH 4115- 4105 = 10m (2d/m)					
A9630	EB, Outer Bench From East, CH 4105- 4095 = 10m (1.5d/m)	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	120d	■	EB, Outer Bench From East, CH 4105- 4095 = 10m (1.5d/m)					
<b>EB (Inner Tunnel Excavation + Lining)</b>													
<b>From West (TPCWAE)</b>													
<b>Inner Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)</b>													
A8805	EB, Inner Heading From West, CH 3992- 4005 = 13m @3d/m	7d/wk-1a	39d	29-Sep-14 08	07-Nov-14 18	0d	■	EB, Inner Heading From West, CH 3992- 4005 = 13m @3d/m					
A8815	EB, Inner Heading From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	08-Nov-14 08	27-Nov-14 18	0d	■	EB, Inner Heading From West, CH 4005- 4015 = 10m @2d/m					

- Summary Bar
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China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

WORKS PROGRAMME REV. M

Prepared by William Caluza

Date	Revision	Checked	Approved
26-Sep...	1st submission		



中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016				
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
A8820	EB,Inner Heading From West , CH 4015- 4025 = 10m @2d/m	7d/wk-1a	20d	28-Nov-14 08	17-Dec-14 18	0d		■	■	■	■				
A8780	EB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	18-Dec-14 08	08-Jan-15 18	0d		■	■	■	■				
A8810	EB,Inner Heading From West , CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	09-Jan-15 08	28-Jan-15 18	0d		■	■	■	■				
A8785	EB,Inner Heading From West , CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	29-Jan-15 08	17-Feb-15 18	0d		■	■	■	■				
A8790	EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	18-Feb-15 08	12-Mar-15 18	0d		■	■	■	■				
A8795	EB,Inner Heading From West , CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	13-Mar-15 08	01-Apr-15 18	0d		■	■	■	■				
A8800	EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	02-Apr-15 08	22-Apr-15 18	0d		■	■	■	■				
A8825	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a	20d	23-Apr-15 08	13-May-15 18	0d		■	■	■	■				
<b>Inner Bench Excavation (1.5-2d/m, 20m separation with heading)</b>															
A8765	EB, Inner Bench From West, CH 3992-4005 = 13m (2d/m)	7d/wk-1a	26d	08-Nov-14 08	03-Dec-14 18	23d		■	■	■	■				
A8770	EB, Inner Bench From West,CH 4005- 4015 = 10m	7d/wk-1a	15d	18-Dec-14 08	03-Jan-15 18	9d		■	■	■	■				
A8775	EB, Inner Bench From West,CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Jan-15 08	23-Jan-15 18	4d		■	■	■	■				
A8735	EB, Inner Bench From West,CH 4025- 4035 = 10m	7d/wk-1a	15d	29-Jan-15 08	12-Feb-15 18	14d		■	■	■	■				
A8740	EB, Inner Bench From West,CH 4035- 4045 = 10m	7d/wk-1a	15d	18-Feb-15 08	07-Mar-15 18	11d		■	■	■	■				
A8745	EB, Inner Bench From West,CH 4045- 4055 = 10m	7d/wk-1a	15d	13-Mar-15 08	27-Mar-15 18	6d		■	■	■	■				
A8750	EB, Inner Bench From West,CH 4055- 4065 = 10m	7d/wk-1a	15d	02-Apr-15 08	17-Apr-15 18	1d		■	■	■	■				
A8755	EB, Inner Bench From West,CH 4065- 4075 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	1d		■	■	■	■				
A8760	EB, Inner Bench From West,CH 4075- 4085 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	0d		■	■	■	■				
A8761	EB, Inner Bench From West,CH 4085- 4095 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	0d		■	■	■	■				
<b>From East (TS4)</b>															
<b>Inner Heading Excavation (3d/m, 24h/day work shift, 7d/week, no work on statutory holiday)</b>															
A8835	EB,Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @ 3d/m	7d/wk-1a	8d	06-Jan-15 08	13-Jan-15 18	0d		■	■	■	■				
A8850	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m	7d/wk-1a	30d	14-Jan-15 08	12-Feb-15 18	0d		■	■	■	■				
A8830	EB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	13-Feb-15 08	07-Mar-15 18	0d		■	■	■	■				
A8840	EB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	08-Mar-15 08	27-Mar-15 18	0d		■	■	■	■				
A9910	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	28-Mar-15 08	17-Apr-15 18	0d		■	■	■	■				
A8845	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Apr-15 08	08-May-15 18	0d		■	■	■	■				
<b>Inner Bench Excavation (1.5d-2d/m, 20m separation with heading)</b>															
A8860	EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	4d	08-Mar-15 08	11-Mar-15 18	11d		■	■	■	■				

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**China State Construction Engineering (Hong Kong) Ltd**

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

**WORKS PROGRAMME REV. M**

Prepared by William Caluza			
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中國建築工程(香港)有限公司

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A8865	EB, Inner Bench From East, CH 4145- 4135 = 10m	7d/wk-1a	15d	12-Mar-15 08	26-Mar-15 18	11d			■ EB, Inner Bench From East, CH 4145- 4135 = 10m					
A8870	EB, Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	28-Mar-15 08	12-Apr-15 18	10d			■ EB, Inner Bench From East, CH 4135- 4125 = 10m					
A8855	EB, Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	5d			■ EB, Inner Bench From East, CH 4125- 4115 = 10m					
A8875	EB, Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	09-May-15 08	23-May-15 18	0d			■ EB, Inner Bench From East, CH 4115- 4105 = 10m					
A9915	EB, Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	24-May-15 08	08-Jun-15 18	0d			■ EB, Inner Bench From East, CH 4105- 4095 = 10m					
<b>Tunnel Lining Works</b>														
<b>From West Base Slab (10m/bay, 10m separation with benching excavation)</b>														
A8900	EB From West, Base Slab CH 3990 - 3995 = 1 bay	7d/wk-1a	10d	04-Dec-14 08	13-Dec-14 18	33d			■ EB From West, Base Slab CH 3990 - 3995 = 1 bay					
A8890	EB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Jan-15 08	13-Jan-15 18	14d			■ EB From West, Base Slab CH 3995 - 4005 = 10m/bay					
A8905	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	4d			■ EB From West, Base Slab CH 4005 - 4015 = 10m/bay					
A8910	EB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	14d			■ EB From West, Base Slab CH 4015 - 4025 = 10m/bay					
A8915	EB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	12d			■ EB From West, Base Slab CH 4025 - 4035 = 10m/bay					
A8920	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	8d			■ EB From West, Base Slab CH 4035 - 4045 = 10m/bay					
A8925	EB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	18-Apr-15 08	27-Apr-15 18	4d			■ EB From West, Base Slab CH 4045 - 4055 = 10m/bay					
A8930	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	5d			■ EB From West, Base Slab CH 4055 - 4065 = 10m/bay					
A8880	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	5d			■ EB From West, Base Slab CH 4065 - 4075 = 10m/bay					
A8885	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	0d			■ EB From West, Base Slab CH 4075 - 4085 = 10m/bay					
A8895	EB From West, Base Slab CH 4085 - 4095 = 10m/bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	0d			■ EB From West, Base Slab CH 4085 - 4095 = 10m/bay					
<b>From East Base Slab (10m/bay, 10m separation with benching excavation)</b>														
A9905	EB From East, Base Slab CH 4149.5 - 4145 = 4.5m	7d/wk-1a	10d	13-Apr-15 08	22-Apr-15 18	26d			■ EB From East, Base Slab CH 4149.5 - 4145 = 4.5m					
A9900	EB From East, Base Slab CH 4145 - 4135 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	16d			■ EB From East, Base Slab CH 4145 - 4135 = 10m/bay					
A9895	EB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	24-May-15 08	02-Jun-15 18	6d			■ EB From East, Base Slab CH 4135 - 4125 = 10m/bay					
A9890	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	09-Jun-15 08	18-Jun-15 18	0d			■ EB From East, Base Slab CH 4125 - 4115 = 10m/bay					
A9885	EB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	0d			■ EB From East, Base Slab CH 4115 - 4105 = 10m/bay					
A9880	EB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	0d			■ EB From East, Base Slab CH 4105 - 4095 = 10m/bay					
<b>Lining (5m/bay, 15m separation with base slab)</b>														
A9065	EB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	10d	03-Feb-15 08	12-Feb-15 18	4d			■ EB From West, Lining CH 3990 - 3995 = 1bay					
A9005	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	4d			■ EB From West, Lining CH 3995 - 4000 = 1bay					
A9090	EB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	10d	26-Feb-15 08	07-Mar-15 18	4d			■ EB From West, Lining CH 4000 - 4005 = 1bay					

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China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

WORKS PROGRAMME REV. M

Prepared by William Caluza			
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26-Sep...	1st submission		



中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016		
							Q4	Q1	Q2	Q3	Q4	Q1	Q2
A9050	EB From West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	4d			■ EB From West, Lining CH 4005 - 4010 = 1bay				
A9055	EB From West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	10d	18-Mar-15 08	27-Mar-15 18	4d			■ EB From West, Lining CH 4010 - 4015 = 1bay				
A9080	EB From West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	10d	26-Mar-15 08	05-Apr-15 18	4d			■ EB From West, Lining CH 4015 - 4020 = 1bay				
A9070	EB From West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	10d	03-Apr-15 08	13-Apr-15 18	4d			■ EB From West, Lining CH 4020 - 4025 = 1bay				
A9075	EB From West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	10d	12-Apr-15 08	21-Apr-15 18	4d			■ EB From West, Lining CH 4025 - 4030 = 1bay				
A9080	EB From West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	10d	20-Apr-15 08	29-Apr-15 18	4d			■ EB From West, Lining CH 4030 - 4035 = 1bay				
A9085	EB From West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a	10d	28-Apr-15 08	08-May-15 18	4d			■ EB From West, Lining CH 4035 - 4040 = 1bay				
A9015	EB From West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	10d	07-May-15 08	16-May-15 18	4d			■ EB From West, Lining CH 4040 - 4045 = 1bay				
A9020	EB From West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	10d	15-May-15 08	24-May-15 18	4d			■ EB From West, Lining CH 4045 - 4050 = 1bay				
A9025	EB From West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	10d	23-May-15 08	01-Jun-15 18	4d			■ EB From West, Lining CH 4050 - 4055 = 1bay				
A9030	EB From West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	10d	31-May-15 08	09-Jun-15 18	4d			■ EB From West, Lining CH 4055 - 4060 = 1bay				
A9035	EB From West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	10d	07-Jun-15 08	16-Jun-15 18	4d			■ EB From West, Lining CH 4060 - 4065 = 1bay				
A9040	EB From West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	4d			■ EB From West, Lining CH 4065 - 4070 = 1bay				
A9045	EB From West, Lining CH 4070 - 4075 = 1bay	7d/wk-1a	10d	25-Jun-15 08	05-Jul-15 18	0d			■ EB From West, Lining CH 4070 - 4075 = 1bay				
A8955	EB From West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	0d			■ EB From West, Lining CH 4075 - 4080 = 1bay				
A8960	EB From West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	0d			■ EB From West, Lining CH 4080 - 4085 = 1bay				
A8970	EB From West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d			■ EB From West, Lining CH 4085 - 4090 = 1bay				
A8975	EB From West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d			■ EB From West, Lining CH 4090 - 4095 = 1bay				
A8980	EB From West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	0d			■ EB From West, Lining CH 4095 - 4100 = 1bay				
A8985	EB From West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	0d			■ EB From West, Lining CH 4100 - 4105 = 1bay				
A8990	EB From West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	0d			■ EB From West, Lining CH 4105 - 4110 = 1bay				
A8995	EB From West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d			■ EB From West, Lining CH 4110 - 4115 = 1bay				
A9000	EB From West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d			■ EB From West, Lining CH 4115 - 4120 = 1bay				
A9010	EB From West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	0d			■ EB From West, Lining CH 4120 - 4125 = 1bay				
A8965	EB From West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	0d			■ EB From West, Lining CH 4125 - 4130 = 1bay				
A8935	EB From West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	0d			■ EB From West, Lining CH 4130 - 4135 = 1bay				
A8940	EB From West, Lining CH 4135 - 4140 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	0d			■ EB From West, Lining CH 4135 - 4140 = 1bay				
A8945	EB From West, Lining CH 4140 - 4145 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	0d			■ EB From West, Lining CH 4140 - 4145 = 1bay				
A8950	EB From West, Lining CH 4145 - 4149.5 = 4.5m	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	0d			■ EB From West, Lining CH 4145 - 4149.5 = 4.5m				

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**China State Construction Engineering (Hong Kong) Ltd**

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

**WORKS PROGRAMME REV. M**

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Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016					
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
OHVD(10m/bay) / Utility Trough																
A9095	EB From West OHVD and utility trough =, 167= 17 bays @ 10m/bay @ 7d/bay	7d/wk-1a	120d	03-Jul-15 08	02-Nov-15 18	0d										
WB Outer Tunnel Excavation																
From West (TPCWAE)																
Outer Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)																
A9651	WB, Outer Heading From West, CH 4085- 4092.5 = 7.5m @ 2d/m	7d/wk-1a	15d	13-Sep-14 08 A	30-Sep-14 18	163d										
Outer Bench Excavation (1.5d-2d/m, 20m separation with heading)																
A9680	WB, Outer Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	12-Oct-14 08	26-Oct-14 18	163d										
A9665	WB, Outer Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	27-Oct-14 08	10-Nov-14 18	163d										
A9670	WB, Outer Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	163d										
A9675	WB, Outer Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	163d										
A9700	WB, Outer Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	11-Dec-14 08	26-Dec-14 18	163d										
A9701	WB, Outer Bench From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a	15d	27-Dec-14 08	11-Jan-15 18	163d										
From East (TS4)																
Outer Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)																
A9730	WB, Outer Heading From East, CH 4105- 4092.5 = 12.5m @2d/m	7d/wk-1a	25d	30-Aug-14 08 A	30-Sep-14 18	168d										
Outer Bench Excavation (1.5d-2d/m, 20m separation with heading)																
A9740	WB, Outer Bench From East, CH 4136- 4135 = 1m	7d/wk-1a	2d	12-Oct-14 08	13-Oct-14 18	168d										
A9770	WB, Outer Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	14-Oct-14 08	28-Oct-14 18	168d										
A9745	WB, Outer Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	28-Oct-14 08	11-Nov-14 18	168d										
A9750	WB, Outer Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	168d										
A9755	WB, Outer Bench From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	168d										
A9760	WB, Outer Bench From East, CH 4095- 4082.5 = 12.5m	7d/wk-1a	25d	11-Dec-14 08	06-Jan-15 18	168d										
WB (Inner Tunnel Excavation + Lining)																
From West (TPCWAE)																
Inner Heading Excavation (2-3d/m, 24h/day work shift, 7d/week, no work on statutory holiday)																
A9130	WB, Inner Heading From West, CH 3993- 4005 = 12m @3d/m	7d/wk-1a	50d	29-Sep-14 08	18-Nov-14 18	0d										
A9135	WB, Inner Heading From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	0d										
A9140	WB, Inner Heading From West, CH 4015- 4025 = 10m @2d/m	7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	0d										

- Summary Bar
- Actual Level of Effort
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- Remaining Work
- Critical Remaining Work
- Milestone

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**China State Construction Engineering (Hong Kong) Ltd**

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

**WORKS PROGRAMME REV. M**

Prepared by William Caluza			
Date	Revision	Checked	Approved
26-Sep...	1st submission		





Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A9100	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	0d		■	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m					
A9105	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	0d		■	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m					
A9110	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	09-Feb-15 08	03-Mar-15 18	0d		■	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m					
A9115	WB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	04-Mar-15 08	23-Mar-15 18	0d		■	WB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m					
A9120	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	24-Mar-15 08	13-Apr-15 18	0d		■	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m					
A9125	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	14-Apr-15 08	04-May-15 18	0d		■	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m					
<b>Inner Bench Excavation (1.5d-2d/m, 20m separation with heading)</b>														
A9180	WB,Inner Bench From West, CH 3993- 4005 = 12m	7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d		■	WB,Inner Bench From West, CH 3993- 4005 = 12m					
A9205	WB,Inner Bench From West, CH 4005- 4015 = 10m	7d/wk-1a	15d	20-Jan-15 08	03-Feb-15 18	25d		■	WB,Inner Bench From West, CH 4005- 4015 = 10m					
A9190	WB,Inner Bench From West, CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	20d		■	WB,Inner Bench From West, CH 4015- 4025 = 10m					
A9185	WB,Inner Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	04-Mar-15 08	18-Mar-15 18	15d		■	WB,Inner Bench From West, CH 4025- 4035 = 10m					
A9155	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d		■	WB,Inner Bench From West, CH 4035- 4045 = 10m					
A9160	WB,Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	5d		■	WB,Inner Bench From West, CH 4045- 4055 = 10m					
A9165	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	0d		■	WB,Inner Bench From West, CH 4055- 4065 = 10m					
A9170	WB,Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	0d		■	WB,Inner Bench From West, CH 4065- 4075 = 10m					
A9175	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	0d		■	WB,Inner Bench From West, CH 4075- 4085 = 10m					
<b>From East (TS4)</b>														
<b>Inner Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)</b>														
A9210	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	14-Jan-15 08	02-Feb-15 18	6d		■	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m					
A9215	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	03-Feb-15 08	25-Feb-15 18	6d		■	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m					
A9230	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	26-Feb-15 08	17-Mar-15 18	6d		■	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m					
A9232	WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Mar-15 08	07-Apr-15 18	6d		■	WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m					
A9225	WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m	7d/wk-1a	20d	08-Apr-15 08	27-Apr-15 18	6d		■	WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m					
<b>Inner Bench Excavation (1.5d-2d/m, 20m separation with heading)</b>														
A9235	WB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	18-Mar-15 08	01-Apr-15 18	16d		■	WB,Inner Bench From East, CH 4135- 4125 = 10m					
A9240	WB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	08-Apr-15 08	22-Apr-15 18	11d		■	WB,Inner Bench From East, CH 4125- 4115 = 10m					
A9245	WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	28-Apr-15 08	13-May-15 18	6d		■	WB,Inner Bench From East, CH 4115- 4105 = 10m					
A9247	WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	14-May-15 08	28-May-15 18	6d		■	WB,Inner Bench From East, CH 4105- 4095 = 10m					
A9250	WB,Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a	15d	29-May-15 08	12-Jun-15 18	6d		■	WB,Inner Bench From East, CH 4095- 4085 = 10m					

- Summary Bar
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China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

WORKS PROGRAMME REV. M

Prepared by William Caluza

Date	Revision	Checked	Approved
26-Sep...	1st submission		



中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015					2016					
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3			
<b>Tunnel Lining Works</b>																	
<b>From West Base Slab (10m/bay, 10m separation with benching excavation)</b>																	
A9295	WB From West, Base Slab CH 3990 - 3995 = 5m bay	7d/wk-1a	10d	18-Jan-15 08	27-Jan-15 18	37d											
A9320	WB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Feb-15 08	13-Feb-15 18	30d											
A9255	WB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	27-Feb-15 08	08-Mar-15 18	50d											
A9280	WB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	19-Mar-15 08	28-Mar-15 18	40d											
A9265	WB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	09-Apr-15 08	18-Apr-15 18	30d											
A9300	WB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	29-Apr-15 08	09-May-15 18	20d											
A9325	WB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	10d											
A9305	WB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	5d											
A9310	WB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	0d											
A9315	WB From West, Base Slab CH 4075 - 4080 = 5m	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	0d											
<b>From East Base Slab (10m/bay, 10m separation with benching excavation)</b>																	
A9960	WB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	23-Apr-15 08	03-May-15 18	26d											
A9955	WB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	14-May-15 08	23-May-15 18	16d											
A9950	WB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	29-May-15 08	07-Jun-15 18	11d											
A9945	WB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	13-Jun-15 08	23-Jun-15 18	6d											
A9940	WB From East, Base Slab CH 4095 - 4085 = 10m/bay	7d/wk-1a	10d	24-Jun-15 08	04-Jul-15 18	6d											
A9941	WB From East, Base Slab CH 4085 - 4080 = 5m	7d/wk-1a	10d	05-Jul-15 08	14-Jul-15 18	6d											
<b>Lining (5m/bay, 10m separation with base slab)</b>																	
A9430	WB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	7d	14-Feb-15 08	23-Feb-15 18	30d											
A9470	WB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	7d	24-Feb-15 08	02-Mar-15 18	30d											
A9435	WB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	7d	03-Mar-15 08	09-Mar-15 18	30d											
A9360	WB From West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	7d	10-Mar-15 08	16-Mar-15 18	30d											
A9365	WB From West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	7d	17-Mar-15 08	23-Mar-15 18	30d											
A9370	WB From West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	7d	24-Mar-15 08	30-Mar-15 18	30d											
A9375	WB From West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	7d	31-Mar-15 08	07-Apr-15 18	30d											
A9380	WB From West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	7d	08-Apr-15 08	14-Apr-15 18	30d											
A9385	WB From West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	7d	15-Apr-15 08	21-Apr-15 18	30d											

- ▬ Summary Bar
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- ◆ Milestone

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China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

WORKS PROGRAMME REV. M

Prepared by William Kaluza

Date	Revision	Checked	Approved
26-Sep...	1st submission		



中國建築工程(香港)有限公司  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.



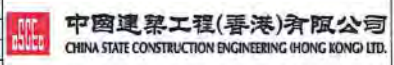
Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016		
							Q4	Q1	Q2	Q3	Q4	Q1	Q2
A9390	WB From West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a	7d	22-Apr-15 08	28-Apr-15 18	30d			■ WB From West, Lining CH 4035 - 4040 = 1bay				
A9330	WB From West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	7d	29-Apr-15 08	06-May-15 18	30d			■ WB From West, Lining CH 4040 - 4045 = 1bay				
A9335	WB From West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	7d	07-May-15 08	13-May-15 18	30d			■ WB From West, Lining CH 4045 - 4050 = 1bay				
A9340	WB From West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	7d	14-May-15 08	20-May-15 18	30d			■ WB From West, Lining CH 4050 - 4055 = 1bay				
A9345	WB From West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	7d	21-May-15 08	27-May-15 18	30d			■ WB From West, Lining CH 4055 - 4060 = 1bay				
A9350	WB From West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	7d	28-May-15 08	03-Jun-15 18	30d			■ WB From West, Lining CH 4060 - 4065 = 1bay				
A9355	WB From West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	5d	04-Jun-15 08	08-Jun-15 18	30d			■ WB From West, Lining CH 4065 - 4070 = 1bay				
A9415	WB From West, Lining CH 4070 - 4075 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	0d			■ WB From West, Lining CH 4070 - 4075 = 1bay				
A9475	WB From West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d			■ WB From West, Lining CH 4075 - 4080 = 1bay				
A9440	WB From West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d			■ WB From West, Lining CH 4080 - 4085 = 1bay				
A9445	WB From West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	0d			■ WB From West, Lining CH 4085 - 4090 = 1bay				
A9450	WB From West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	0d			■ WB From West, Lining CH 4090 - 4095 = 1bay				
A9455	WB From West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	0d			■ WB From West, Lining CH 4095 - 4100 = 1bay				
A9420	WB From West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d			■ WB From West, Lining CH 4100 - 4105 = 1bay				
A9425	WB From West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d			■ WB From West, Lining CH 4105 - 4110 = 1bay				
A9460	WB From West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	0d			■ WB From West, Lining CH 4110 - 4115 = 1bay				
A9465	WB From West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	0d			■ WB From West, Lining CH 4115 - 4120 = 1bay				
A9395	WB From West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	0d			■ WB From West, Lining CH 4120 - 4125 = 1bay				
A9400	WB From West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	0d			■ WB From West, Lining CH 4125 - 4130 = 1bay				
A9405	WB From West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	0d			■ WB From West, Lining CH 4130 - 4135 = 1bay				
A9410	WB From West, Lining CH 4135 - 4136.5 = 1bay	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	0d			■ WB From West, Lining CH 4135 - 4136.5 = 1bay				
OHVD(10m/bay) / Utility Trough													
A9480	WB From West OHVD and utility trough =, 153= 16 bays @ 10m/bay @ 7d/bay	7d/wk-1a	115d	08-Jul-15 08	02-Nov-15 18	0d			■ WB From West OHVD and utility trough =, 153= 16 bays @ 10				
Completion of KD10- Section 5													
A8445	KD10- Section 2: Completion of Mined Tunnel Works (orig. Target KD10- 2 Nov 2015)	7d/wk-2	0d		02-Nov-15 18*	0d							◆ KD10- Section 2: Completion of Mined Tunnel Works (orig. Tar
Interface works with other Contracts													
S5_60115	Handover TZ6 to MTR	7d/wk-2	0d		30-Sep-14 18	-249d			◆ Handover TZ6 to MTR				
S6_5283	Handover TZ4 to CWB(T2)	7d/wk-2	0d		10-Nov-14 18	-290d			◆ Handover TZ4 to CWB(T2)				
S6_5275	Provide access to CWB (CC) Contractor- TS1 & TS2	7d/wk-2	0d		21-Nov-14 18*	-85d			◆ Provide access to CWB (CC) Contractor- TS1 & TS2				

Summary Bar  
 Actual Level of Effort  
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**China State Construction Engineering (Hong Kong) Ltd**  
 Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  
**WORKS PROGRAMME REV. M**

Prepared by William Caluza			
Date	Revision	Checked	Approved
26-Sep...	1st submission		





Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
SB_5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined Tunnel	7d/wk-2	0d		31-Mar-16 18*	-124d								◆ Provide access to CWB (CC) C
<b>Stage and Section Completion</b>														
KD_5735	KD8 - Completion of Section 3, (1326d)	7d/wk-2	0d		30-Sep-14 18*	-86d	◆ KD8 - Completion of Section 3, (1326d)							
KD_5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	0d		16-Oct-14 18*	-323d	◆ KD5 - Achievement of Stage 5, (1152d)							
KD_5760	KD13 - Completion of Section 7B, (1152d)	7d/wk-2	0d		17-Nov-14 18*	-353d	◆ KD13 - Completion of Section 7B, (1152d)							
KD_5730	KD7 - Completion of Section 2, (1152d)	7d/wk-2	0d		17-Nov-14 18*	-297d	◆ KD7 - Completion of Section 2, (1152d)							
KD_5740	KD9 - Completion of Section 4, (1739d)	7d/wk-2	0d		10-Nov-15 18*	-132d							◆ KD9 - Completion of Section 4, (1739d)	
KD_5745	KD10 - Completion of Section 5, (1863d)	7d/wk-2	0d		25-Mar-16 18	-144d							◆ KD10 - Completion of Section 5, (	
KD_5750	KD11 - Completion of Section 6, (1949d)	7d/wk-2	0d		23-May-16 18*	-121d							◆ KD11 - Completion of	
<b>Portion Handover Date</b>														
CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	◆ Portion Handover - Portion IV(4), KD8 +28							
CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	◆ Portion Handover - Portion V (5), KD8 +28							
CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	◆ Portion Handover - Portion VI (6), KD8 +28							
CD_5735	Portion Handover - Portion XIII (13B), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	◆ Portion Handover - Portion XIII (13B), KD8 +28							
CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	◆ Portion Handover - Portion XXII (22), KD8 +28							
CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	0d		28-Oct-14 18*	-50d	◆ Portion Handover - Portion III (3), KD8 +28							
CD_5720	Portion Handover - Portion XIII (13A), KD7 +28	7d/wk-2	0d		15-Dec-14 18*	-79d	◆ Portion Handover - Portion XIII (13A), KD7 +28							
CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	0d		15-Dec-14 18*	-79d	◆ Portion Handover - Portion VIII (8), KD7 +28							
CD_5730	Portion Handover - Portion XIV (14A), KD7 +28	7d/wk-2	0d		15-Dec-14 18*	-79d	◆ Portion Handover - Portion XIV (14A), KD7 +28							
CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	0d		15-Dec-14 18*	-79d	◆ Portion Handover - Portion XV (15), KD7 +28							
CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	0d		15-Dec-14 18*	-79d	◆ Portion Handover - Portion XXIII (23), KD7 +28							
CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	0d		30-Nov-15 18*	0d							◆ Portion Handover - Portion XVIII (18), KD10 +28	
CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	0d		27-Dec-15 18*	0d							◆ Portion Handover - Portion XI (11), KD9 +28	
CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2	0d		22-Apr-16 18*	-52d							◆ Portion Handover - Portion	
CD_5745	Portion Handover - Portion XIV (14B), KD10 +28	7d/wk-2	0d		22-Apr-16 18*	-52d							◆ Portion Handover - Portion	
CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2	0d		22-Apr-16 18*	-52d							◆ Portion Handover - Portion	
CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2	0d		22-Apr-16 18*	-52d							◆ Portion Handover - Portion	
CD_5760	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2	0d		22-Apr-16 18*	-52d							◆ Portion Handover - Portion	
CD_5780	Portion Handover - Portion XX (20B), KD10 +28	7d/wk-2	0d		22-Apr-16 18*	-52d							◆ Portion Handover - Portion	

- █ Summary Bar
- ▬ Actual Level of Effort
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone

17 of 18

China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

**WORKS PROGRAMME REV. M**

Prepared by William Caluza

Date	Revision	Checked	Approved
26-Sep...	1st submission		



**中國建築工程(香港)有限公司**  
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

Activity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015				2016			
							Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
CD_5690	Portion Handover - Portion VII (7), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d								◆ Portion Handov
CD_5725	Portion Handover - Portion XII (12), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d								◆ Portion Handov
CD_5715	Portion Handover - Portion X (10), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d								◆ Portion Handov
CD_5785	Portion Handover - Portion XXA (20A), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d								◆ Portion Handov
CD_5795	Portion Handover - Portion XXI (21), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d								◆ Portion Handov

-  Summary Bar
-  Actual Level of Effort
-  Actual Work
-  Remaining Work
-  Critical Remaining Work
-  ◆ Milestone

18 of 18

China State Construction Engineering (Hong Kong) Ltd  
 Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  
**WORKS PROGRAMME REV. M**

Prepared by William Caluza			
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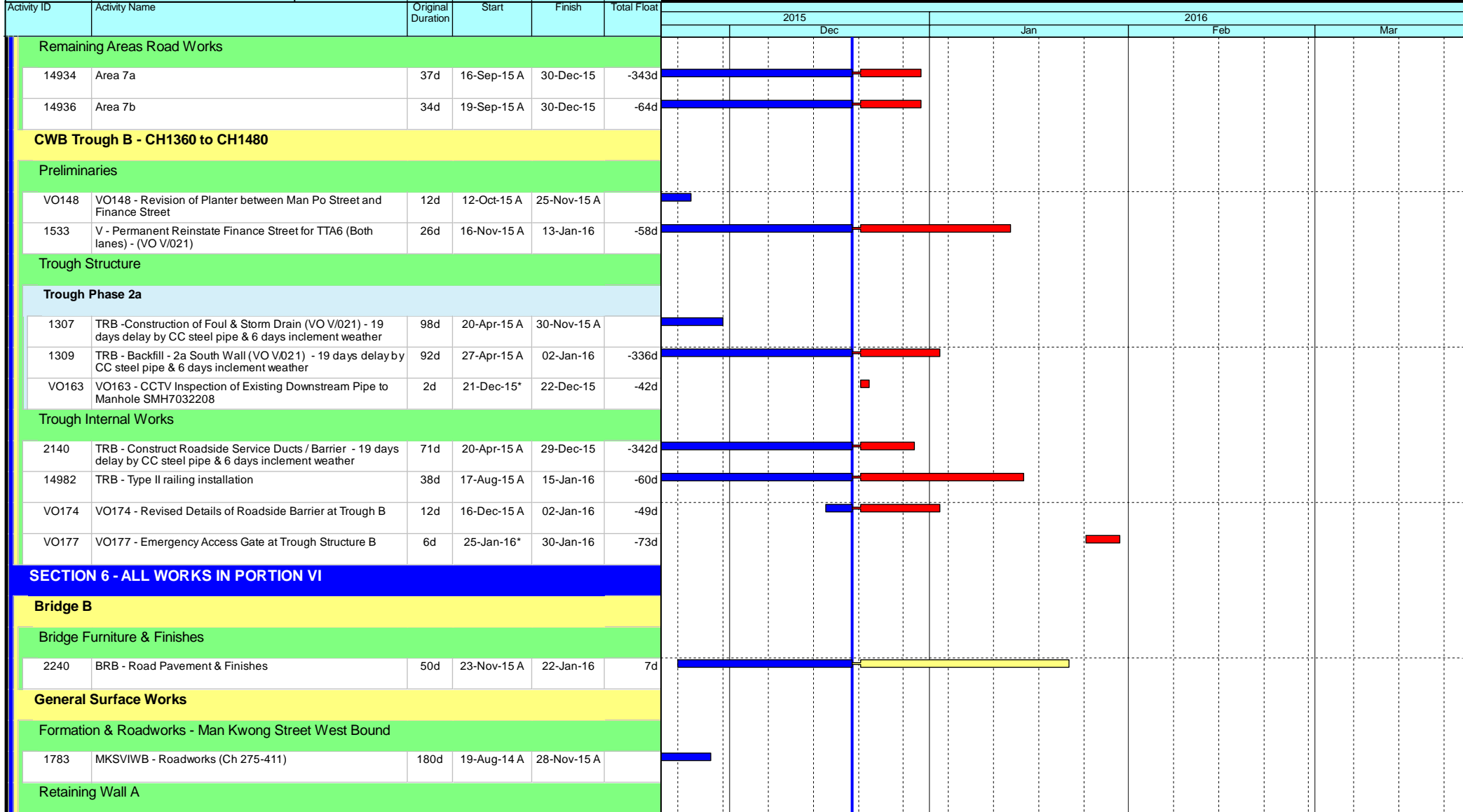
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015		2016			
						Dec	Jan	Feb	Mar		
<b>Update 2015-12-20 CWB - Central Interchange (2014-06-20) Revised DWP R7</b>											
<b>PRELIMINARIES</b>											
<b>Access Dates &amp; Milestones</b>											
<b>Commencement &amp; Completion</b>											
1005	Contract Construction Completion	0d		30-Jan-16*	0d						
<b>SECTION 3 - REMAINING WORKS IN PORTION IIIA &amp; IIIB</b>											
<b>Surface Works - East of Man Yiu Street</b>											
<b>Road P1</b>											
<b>P1 Road East Bound</b>											
14904	P1 E/B - Street Furniture / Sign (VO/192)	75d	27-Mar-15 A	24-Nov-15 A							
14960a	P1 E/B - Footpath (VO158) - Block fabrication and Site work	76d	14-Aug-15 A	31-Dec-15	-262d						
<b>Man Yiu Street Northern Portion</b>											
14962a	MYS Nth - Footpath (VO/158) - Block fabrication and Site work	76d	14-Aug-15 A	14-Jan-16	-273d						
VO185a	VO185 - Revised Footing Details for Traffic Sign ADS4 at MYS	12d	02-Dec-15 A	15-Jan-16 A							
VO171a	VO171 - Addition of Traffic Signs at Man Yiu Street	2d	14-Jan-16*	15-Jan-16	-233d						
<b>Man Yiu Street Southern Portion</b>											
VO171b	VO171 - Addition of Traffic Signs at Man Yiu Street	2d	14-Jan-16	15-Jan-16	-233d						
<b>SECTION 4 - REMAINING WORKS IN PORTION IVA, IVD, IVE &amp; IVG</b>											
<b>CWB Tunnel - CH1646 to CH1685 (Man Yiu Street)</b>											
<b>Formation &amp; Roadworks</b>											
VO153	VO153 (Dated 09 Feb 2015) - Re-alignment of Existing Tactile Paving along PTI	12d	16-Dec-15 A	31-Dec-15	-48d						
<b>SECTION 5 - ALL WORKS IN PORTION V &amp; VA</b>											
<b>General Surface Works</b>											
<b>Remaining Areas Underground Drainage</b>											
14976	Area X (excluding construction of Foul & Storm Drain - VO V/21)	37d	16-Sep-15 A	27-Nov-15 A							

- ◆ Current Milestone
- Critical Remaining Work
- ▬ Level of Effort
- ▬ Remaining Work
- ▲ Baseline Milestone
- ▬ Project Baseline
- ▬ Actual Work

**Leighton Contractors (Asia) Limited**  
**Programme Update 63 (December 2015)**  
**THREE MONTH ROLLING**

Project ID: U063  
 Baseline: DCP7-2c  
 Layout: Update Three Month Rolling U063  
 Page 1 of 5

Date	Revision	Checked	Appro...
20-Nov-15	U062	AT	AL
20-Dec-15	U063	AT	AL



- Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- Baseline Milestone
- Project Baseline
- Actual Work

### Leighton Contractors (Asia) Limited

### Programme Update 63 (December 2015)

### THREE MONTH ROLLING

Project ID: U063  
 Baseline: DCP7-2c  
 Layout: Update Three Month Rolling U063  
 Page 2 of 5

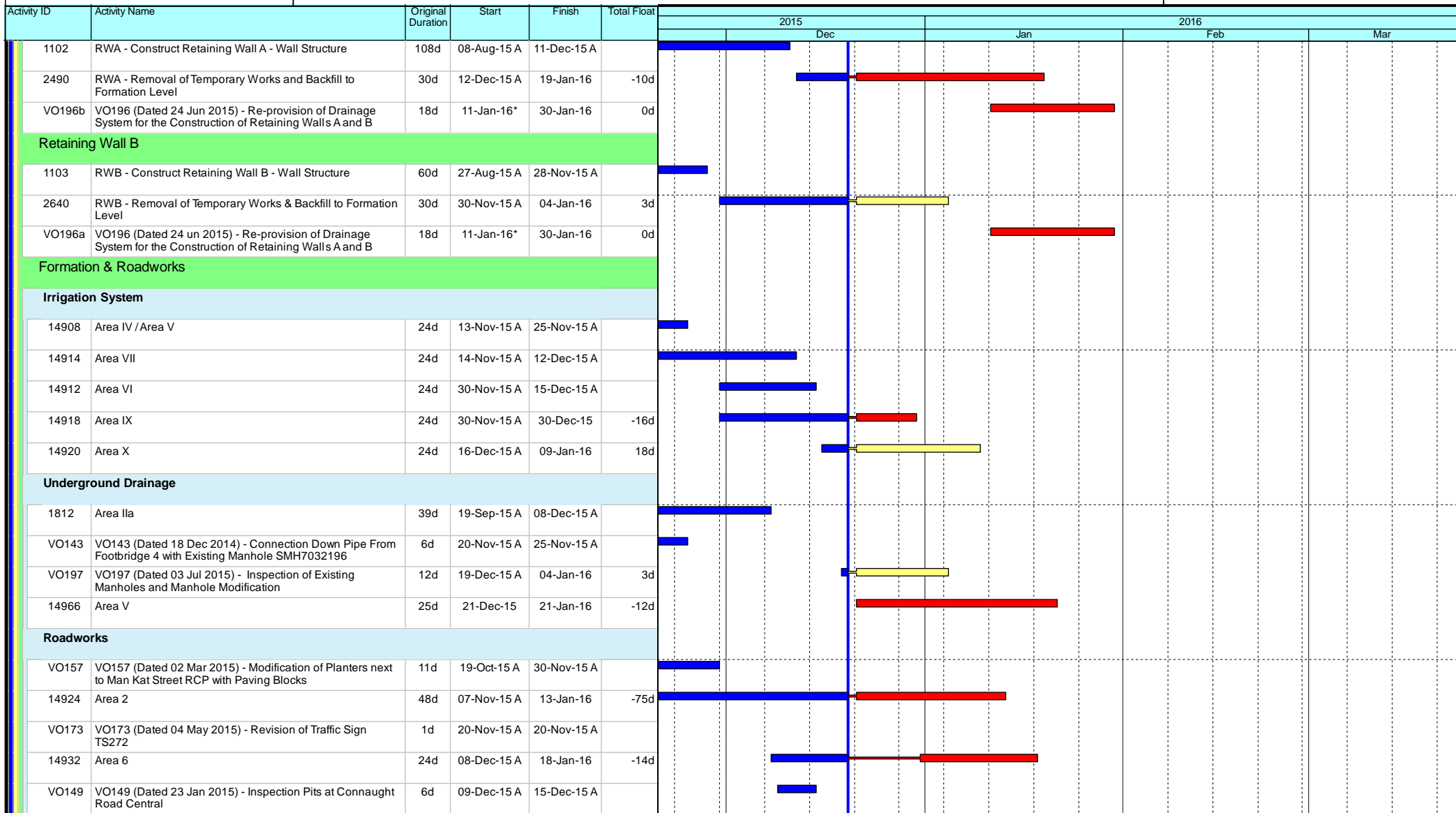
Date	Revision	Checked	Appro...
20-Nov-15	U062	AT	AL
20-Dec-15	U063	AT	AL



Data Date: 20-Dec-15

# HY/2009/18 Central - Wan Chai Bypass (Central Interchange)

TASK filters: 3 Months\_1, Not HL.



- ◆ Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- ▲ Baseline Milestone
- Project Baseline
- Actual Work

## Leighton Contractors (Asia) Limited Programme Update 63 (December 2015) THREE MONTH ROLLING

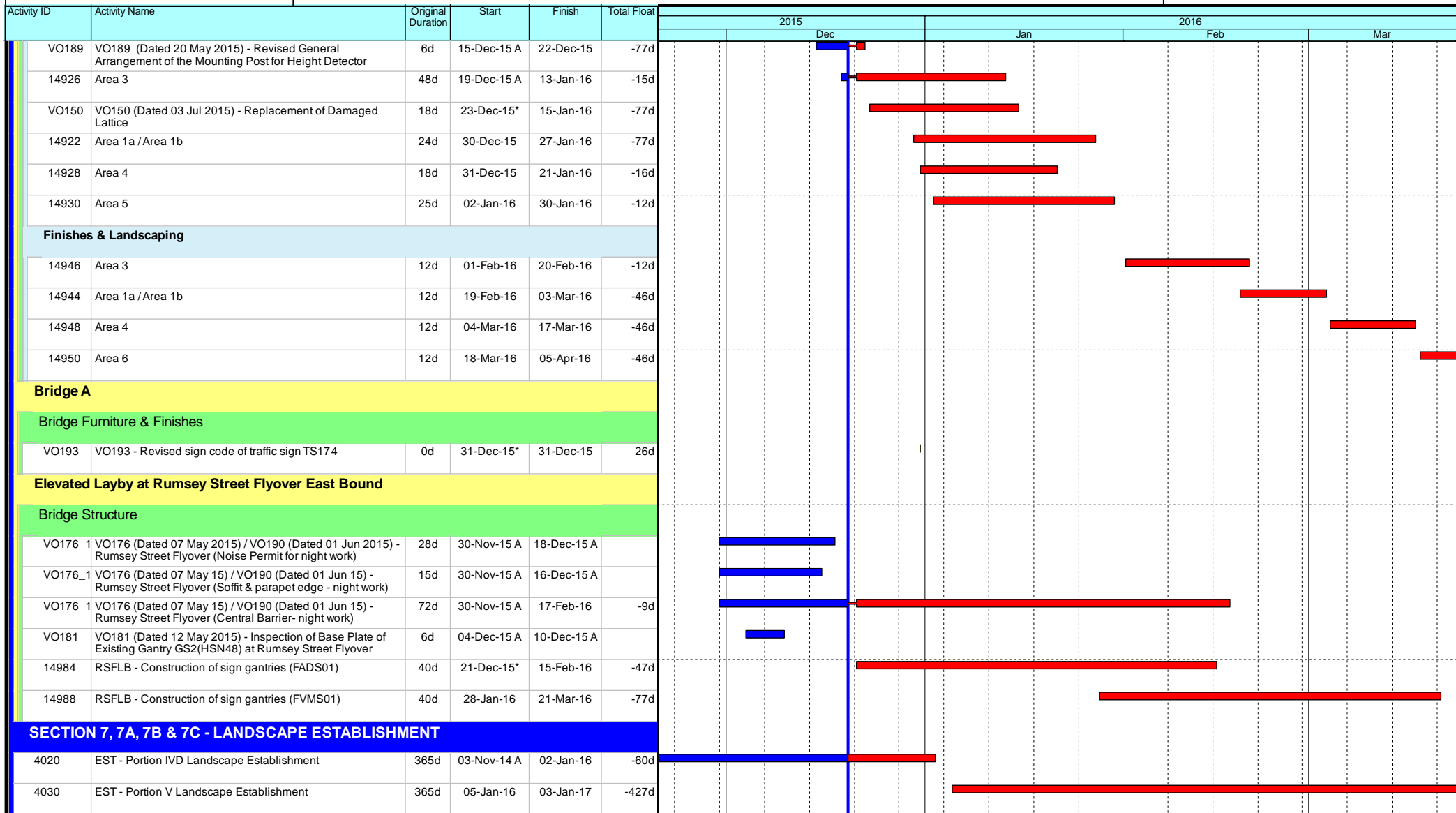
Project ID: U063  
Baseline: DCP7-2c  
Layout: Update Three Month Rolling U063  
Page 3 of 5

Date	Revision	Checked	Appro...
20-Nov-15	U062	AT	AL
20-Dec-15	U063	AT	AL

Data Date: 20-Dec-15

# HY/2009/18 Central - Wan Chai Bypass (Central Interchange)

TASK filters: 3 Months\_1, Not HL.



- ◆ Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- ▲ Baseline Milestone
- Project Baseline
- Actual Work

## Leighton Contractors (Asia) Limited Programme Update 63 (December 2015) THREE MONTH ROLLING

Project ID: U063  
 Baseline: DCP7-2c  
 Layout: Update Three Month Rolling U063  
 Page 4 of 5

Date	Revision	Checked	Appro...
20-Nov-15	U062	AT	AL
20-Dec-15	U063	AT	AL

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015												2016																																			
						Dec												Jan												Feb												Mar											
4000	EST - Portion IIIA Landscape Establishment	365d	15-Jan-16	13-Jan-17	-342d																																																
<b>Key Dates for Completion of Sections</b>																																																					
<b>Contract Required Completion</b>																																																					
1095	KD12 - Section 7A Complete (DAY-1870)	0d		20-Dec-15*	-46d																																																
1105	KD14 - Section 7B Complete (DAY-1870)	0d		20-Dec-15*	-46d																																																
1115	KD10 - Section 6 Complete (DAY-1958)	0d		30-Jan-16*	0d																																																
1140	KD16 - Section 8 Complete (DAY-1958)	0d		30-Jan-16*	0d																																																
1125	KD11 - Section 7 Complete (DAY-1965)	0d		06-Feb-16*	0d																																																
<b>Portion Handover Dates</b>																																																					
<b>Anticipated Handover</b>																																																					
2960a	Portion IIIA Handover - Remaining (KD3 + 28 days) - (EOT 26.5 days added)	0d		15-Jan-16*	-288d																																																
<b>Contract Required Handover</b>																																																					
3096	Portion VI Handover (KD10 + 28 days)	0d		27-Feb-16*	0d																																																

- Current Milestone
- Critical Remaining Work
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- Project Baseline
- Actual Work

**Leighton Contractors (Asia) Limited**  
**Programme Update 63 (December 2015)**  
**THREE MONTH ROLLING**

Project ID: U063  
 Baseline: DCP7-2c  
 Layout: Update Three Month Rolling U063  
 Page 5 of 5

Date	Revision	Checked	Appro...
20-Nov-15	U062	AT	AL
20-Dec-15	U063	AT	AL





Activity ID	Activity Name	Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	2015												2016											
								January												February						March					
								20	27	03	10	17	24	31	07	14	21	28	06	13	20										
0513-3060	APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12	20	21-Dec-15	14-Jan-16	21-Dec-15	14-Jan-16	0	APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12																							
0513-3080	Tunnel Level - South Side Additional Beam at Bay 21	5	09-Jan-16	14-Jan-16	09-Jan-16	14-Jan-16	0	Tunnel Level - South Side Additional Beam at Bay 21																							
0513-3082	Remedial Works - Panel installation	3	15-Jan-16	18-Jan-16	15-Jan-16	18-Jan-16	0	Remedial Works - Panel installation																							
0513-3580	Completion of Outstanding Works at APS & Tunnel	0		18-Jan-16		18-Jan-16	0	Completion of Outstanding Works at APS & Tunnel																							
<b>05.1.5 - EVB Sub-structure &amp; Tunnel</b>																															
0515-1120	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A : GL1-2/A-E, 2-3/B-E, 3-	0	20-Dec-15	20-Dec-15	31-Dec-15	31-Dec-15		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A : GL1-2/A-E, 2-3/B-E, 3-6/C-F, 4-6/F-J																							
0515-1140	EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit	0	20-Dec-15	20-Dec-15	31-Dec-15	31-Dec-15		EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit																							
0515-1160	EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit	0	20-Dec-15	20-Dec-15	12-Nov-19	12-Nov-19		EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit																							
0515-1180	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A	0	20-Dec-15	20-Dec-15	12-Nov-19	12-Nov-19		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A																							
0515-1200	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A	0	20-Dec-15	20-Dec-15	12-Nov-19	12-Nov-19		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A																							
0515-1220	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A	0	20-Dec-15	20-Dec-15	12-Nov-19	12-Nov-19		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A																							
0515-1300	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A	0	20-Dec-15	20-Dec-15	12-Nov-19	12-Nov-19		EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A																							
0515-1320	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A	0	20-Dec-15	20-Dec-15	12-Nov-19	12-Nov-19		EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A																							
0515-1340	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zone 2A	0	20-Dec-15	20-Dec-15	12-Nov-19	12-Nov-19		EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zone 2A																							
0515-1720	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 2B : GL1-6/A-E	0	20-Dec-15	20-Dec-15	31-Dec-15	31-Dec-15		EVB Basement - Roof Slab (Falsework/Fwk) > Zone 2B : GL1-6/A-E																							
0515-1740	EVB Basement - Roof Slab (Reb Fix) > Zone 2B : GL1-6/A-E	0	20-Dec-15	20-Dec-15	31-Dec-15	31-Dec-15		EVB Basement - Roof Slab (Reb Fix) > Zone 2B : GL1-6/A-E																							
0515-1760	EVB Basement - Roof Slab (Conc) > Zone 2B : GL1-6/A-E	0	20-Dec-15	20-Dec-15	31-Dec-15	31-Dec-15		EVB Basement - Roof Slab (Conc) > Zone 2B : GL1-6/A-E																							
1051-3221	Demolition Preparation for D-Wall - South - (Zone 4A-5A)	0	20-Dec-15	20-Dec-15	22-Dec-15	22-Dec-15		Demolition Preparation for D-Wall - South - (Zone 4A-5A)																							
1051-3222	Demolition of D-Wall > South - (Zone 4A-5A)	0	20-Dec-15	20-Dec-15	22-Dec-15	22-Dec-15		Demolition of D-Wall > South - (Zone 4A-5A)																							
1051-3223	CJ Preparation for South Wall along D-Wall - (Zone 4A-5A)	10	21-Dec-15	02-Jan-16	22-Dec-15	04-Jan-16	1	CJ Preparation for South Wall along D-Wall - (Zone 4A-5A)																							
1051-3224	Construction of South Wall along D-Wall + Stitching to Roof Slab - (Zone 4A-5A)	7	04-Jan-16	11-Jan-16	05-Jan-16	12-Jan-16	1	Construction of South Wall along D-Wall + Stitching to Roof Slab - (Zone 4A-5A)																							
1051-3226	Demolition of D-Wall > South - (Zone 3A)	0	20-Dec-15	20-Dec-15	05-Jan-16	05-Jan-16		Demolition of D-Wall > South - (Zone 3A)																							
1051-3227	CJ Preparation for South Wall along D-Wall - (Zone 3A)	0	21-Dec-15	21-Dec-15	12-Jan-16	12-Jan-16	18	CJ Preparation for South Wall along D-Wall - (Zone 3A)																							
1051-3228	Construction of South Wall along D-Wall + Stitching to Roof Slab - (Zone 3A)	7	21-Dec-15	29-Dec-15	13-Jan-16	20-Jan-16	18	Construction of South Wall along D-Wall + Stitching to Roof Slab - (Zone 3A)																							
1051-3240	Demolition of D-Wall > North - (Zone 2A)	7	04-Jan-16	11-Jan-16	05-Jan-16	12-Jan-16	1	Demolition of D-Wall > North - (Zone 2A)																							
1051-3250	CJ Preparation for North Wall along D-Wall - (Zone 2A)	7	09-Jan-16	16-Jan-16	13-Jan-16	20-Jan-16	3	CJ Preparation for North Wall along D-Wall - (Zone 2A)																							
1051-3260	Construction of North Wall along D-Wall + Stitching to Roof Slab - (Zone 2A)	7	12-Jan-16	19-Jan-16	13-Jan-16	20-Jan-16	1	Construction of North Wall along D-Wall + Stitching to Roof Slab - (Zone 2A)																							
1051-3360	CJ Preparation for North Wall along D-Wall - (Zone 5A)	0	20-Dec-15	20-Dec-15	11-Feb-16	11-Feb-16		CJ Preparation for North Wall along D-Wall - (Zone 5A)																							
1051-3370	Construction of North Wall along D-Wall + Stitching to Roof Slab - (Zone 5A)	0	20-Dec-15	20-Dec-15	11-Feb-16	11-Feb-16		Construction of North Wall along D-Wall + Stitching to Roof Slab - (Zone 5A)																							
1051-3430	Complete Demolition of D-Wall after Removal of TA23	3	04-Jan-16	06-Jan-16	11-Jan-16	13-Jan-16	6	Complete Demolition of D-Wall after Removal of TA23																							
1051-3440	Complete Wall & Stair along TA23	6	07-Jan-16	13-Jan-16	14-Jan-16	20-Jan-16	6	Complete Wall & Stair along TA23																							
1051-3441	Excavation at North Side D-Wall - (TA24-25)	0	20-Dec-15	20-Dec-15	11-Feb-16	11-Feb-16		Excavation at North Side D-Wall - (TA24-25)																							
1051-3530	Demolition of D-Wall > North - (Zone 3A-4A)	0	20-Dec-15	20-Dec-15	11-Feb-16	11-Feb-16		Demolition of D-Wall > North - (Zone 3A-4A)																							
1051-3540	CJ Preparation for North Wall along D-Wall - (Zone 3A-4A)	0	20-Dec-15	20-Dec-15	11-Feb-16	11-Feb-16		CJ Preparation for North Wall along D-Wall - (Zone 3A-4A)																							
1051-3550	Construction of North Wall along D-Wall + Stitching to Roof Slab - (Zone3A-4A)	0	20-Dec-15	20-Dec-15	11-Feb-16	11-Feb-16		Construction of North Wall along D-Wall + Stitching to Roof Slab - (Zone3A-4A)																							
1051-3556	Site preparation and plant mobilization	0	20-Dec-15	20-Dec-15	30-Nov-15	30-Nov-15		Site preparation and plant mobilization																							
1051-3560	Connection to EVA (C19) - Install Pipe Pile (45nos)	9	21-Dec-15	02-Jan-16	30-Nov-15	09-Dec-15	-18	Connection to EVA (C19) - Install Pipe Pile (45nos)																							
1051-3570	Connection to EVA (C19) - Place sand in the pipe pile	1	02-Jan-16	02-Jan-16	10-Dec-15	10-Dec-15	-18	Connection to EVA (C19) - Place sand in the pipe pile																							
1051-3580	Connection to EVA (C19) - Extract the pipe pile	3	04-Jan-16	06-Jan-16	11-Dec-15	14-Dec-15	-18	Connection to EVA (C19) - Extract the pipe pile																							
1051-3590	Connection to EVA (C19) - Install sheet pile in pipe pile	2	07-Jan-16	08-Jan-16	15-Dec-15	16-Dec-15	-18	Connection to EVA (C19) - Install sheet pile in pipe pile																							
1051-3600	Connection to EVA (C19) - Install grout tube	6	09-Jan-16	15-Jan-16	17-Dec-15	23-Dec-15	-18	Connection to EVA (C19) - Install grout tube																							
1051-3603	Connection to EVA (C19) - Grouting	3	16-Jan-16	19-Jan-16	24-Dec-15	28-Dec-15	-18	Connection to EVA (C19) - Grouting																							
1051-3605	Connection to EVA (C19) - Excavate the rock fill	3	04-Jan-16	06-Jan-16	18-Dec-15	21-Dec-15	-12	Connection to EVA (C19) - Excavate the rock fill																							
1051-3606	Connection to EVA (C19) - Place mass concrete block	5	07-Jan-16	12-Jan-16	22-Dec-15	28-Dec-15	-12	Connection to EVA (C19) - Place mass concrete block																							
1051-3611	Connection to EVA (C19) - Erection of working platform	1	20-Jan-16	20-Jan-16	29-Dec-15	29-Dec-15	-18	Connection to EVA (C19) - Erection of working platform																							
1051-3621	Connection to EVA (C19) - Drill dewatering hole at area A and B	1	21-Jan-16	21-Jan-16	30-Dec-15	30-Dec-15	-18	Connection to EVA (C19) - Drill dewatering hole at area A and B																							
1051-3631	Connection to EVA (C19) - Drill 3 holes at top of each area and investigate	1	21-Jan-16	21-Jan-16	30-Dec-15	30-Dec-15	-18	Connection to EVA (C19) - Drill 3 holes at top of each area and investigate																							

- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work

◆ Milestone

**Contract HY/2009/19**  
**Three Months Rolling Programme ( 20 Dec 2015 to 19 Mar 2016 )**

Activity ID	Activity Name	Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	2015												2016															
								2015						2016						2016						2016									
								2015		2016		2016		2016		January		February		March		January		February		March									
20	27	03	10	17	24	31	07	14	21	28	06	13	20	20	27	03	10	17	24	31	07	14	21	28	06	13	20								
1051-3641	Connection to EVA (C19) - Drill 3 holes at middle of each area and investigate	1	21-Jan-16	21-Jan-16	30-Dec-15	30-Dec-15	-18	■ Connection to EVA (C19) - Drill 3 holes at middle of each area and investigate																											
1051-3651	Connection to EVA (C19) - Drill 3 holes at bottom of each area and investigate	1	21-Jan-16	21-Jan-16	30-Dec-15	30-Dec-15	-18	■ Connection to EVA (C19) - Drill 3 holes at bottom of each area and investigate																											
1051-3661	Connection to EVA (C19) - Core hole for saw cut	3	22-Jan-16	25-Jan-16	31-Dec-15	04-Jan-16	-18	■ Connection to EVA (C19) - Core hole for saw cut																											
1051-3671	Connection to EVA (C19) - Saw cut the bulkhead wall	5	26-Jan-16	30-Jan-16	05-Jan-16	09-Jan-16	-18	■ Connection to EVA (C19) - Saw cut the bulkhead wall																											
1051-3681	Connection to EVA (C19) - Remove the broken concrete	1	01-Feb-16	01-Feb-16	11-Jan-16	11-Jan-16	-18	■ Connection to EVA (C19) - Remove the broken concrete																											
1051-3691	Connection to EVA (C19) - Re-bar fixing	2	02-Feb-16	03-Feb-16	12-Jan-16	13-Jan-16	-18	■ Connection to EVA (C19) - Re-bar fixing																											
1051-3701	Connection to EVA (C19) - Erection of formwork	2	04-Feb-16	05-Feb-16	14-Jan-16	15-Jan-16	-18	■ Connection to EVA (C19) - Erection of formwork																											
1051-3711	Connection to EVA (C19) - Concreting	1	06-Feb-16	06-Feb-16	16-Jan-16	16-Jan-16	-18	■ Connection to EVA (C19) - Concreting																											
1051-3721	Connection to EVA (C19) - Removal of formwork	1	11-Feb-16	11-Feb-16	18-Jan-16	18-Jan-16	-18	■ Connection to EVA (C19) - Removal of formwork																											
1051-3731	Connection to EVA (C19) - Erection of falsework	2	12-Feb-16	13-Feb-16	19-Jan-16	20-Jan-16	-18	■ Connection to EVA (C19) - Erection of falsework																											
1051-3741	Connection to EVA (C19) - Rebar fixing	2	15-Feb-16	16-Feb-16	21-Jan-16	22-Jan-16	-18	■ Connection to EVA (C19) - Rebar fixing																											
1051-3751	Connection to EVA (C19) - Erection of formwork	2	17-Feb-16	18-Feb-16	23-Jan-16	25-Jan-16	-18	■ Connection to EVA (C19) - Erection of formwork																											
1051-3761	Connection to EVA (C19) - Concreting	1	19-Feb-16	19-Feb-16	26-Jan-16	26-Jan-16	-18	■ Connection to EVA (C19) - Concreting																											
1051-3771	Connection to EVA (C19) - Removal of formwork	1	20-Feb-16	20-Feb-16	27-Jan-16	27-Jan-16	-18	■ Connection to EVA (C19) - Removal of formwork																											
1051-3781	Connection to EVA (C19) - Erection of falsework	2	22-Feb-16	23-Feb-16	28-Jan-16	29-Jan-16	-18	■ Connection to EVA (C19) - Erection of falsework																											
1051-3791	Connection to EVA (C19) - Erection of soffit	2	24-Feb-16	25-Feb-16	30-Jan-16	01-Feb-16	-18	■ Connection to EVA (C19) - Erection of soffit																											
1051-3801	Connection to EVA (C19) - Rebar fixing	2	26-Feb-16	27-Feb-16	02-Feb-16	03-Feb-16	-18	■ Connection to EVA (C19) - Rebar fixing																											
1051-3811	Connection to EVA (C19) - Erection of formwork	2	29-Feb-16	01-Mar-16	04-Feb-16	05-Feb-16	-18	■ Connection to EVA (C19) - Erection of formwork																											
1051-3821	Connection to EVA (C19) - Concreting	1	02-Mar-16	02-Mar-16	06-Feb-16	06-Feb-16	-18	■ Connection to EVA (C19) - Concreting																											
1051-3831	Connection to EVA (C19) - Removal of formwork	1	03-Mar-16	03-Mar-16	11-Feb-16	11-Feb-16	-18	■ Connection to EVA (C19) - Removal of formwork																											
1080-1000	(Prep. Works for TA2 Demolition) - Removal of Railings	0	20-Dec-15	20-Dec-15	29-Dec-15	29-Dec-15		■ Demolition) - Removal of Railings																											
1080-1010	(Prep. Works for TA2 Demolition) -Saw Cut & Coring TA24-TA25	0	20-Dec-15	20-Dec-15	29-Dec-15	29-Dec-15		■ Demolition) -Saw Cut & Coring TA24-TA25																											
1080-1020	(Prep. Works for TA2 Demolition) -Saw Cut & Coring TA25-TA26	0	20-Dec-15	20-Dec-15	29-Dec-15	29-Dec-15		■ Demolition) -Saw Cut & Coring TA25-TA26																											
1080-1030	(Prep. Works for TA2 Demolition) -Saw Cut & Coring TA26-TA27	0	20-Dec-15	20-Dec-15	29-Dec-15	29-Dec-15		■ Demolition) -Saw Cut & Coring TA26-TA27																											
1080-1040	(Prep. Works for TA2 Demolition) -Saw Cut & Coring TA27-TA28	0	20-Dec-15	20-Dec-15	29-Dec-15	29-Dec-15		■ Demolition) -Saw Cut & Coring TA27-TA28																											
1080-1050	(Prep. Works for TA2 Demolition) -Saw Cut & Coring TA23-TA24	0	20-Dec-15	20-Dec-15	29-Dec-15	29-Dec-15		■ Demolition) -Saw Cut & Coring TA23-TA24																											
1080-1060	(Prep. Works for TA2 Demolition) -Saw Cut & Coring TA22-TA23	0	28-Dec-15	28-Dec-15	06-Jan-16	06-Jan-16		■ Demolition) -Saw Cut & Coring TA22-TA23																											
1080-1070	(Prep. Works for TA2 Demolition) -Saw Cut & Coring TA21-TA22	0	28-Dec-15	28-Dec-15	29-Jan-16	29-Jan-16		■ Demolition) -Saw Cut & Coring TA21-TA22																											
1080-1080	Removal of TA2 (Pier 23-25) - Deck Removal - (TA24-TA25)	0	20-Dec-15	20-Dec-15	29-Dec-15	29-Dec-15		■ Removal of TA2 (Pier 23-25) - Deck Removal - (TA24-TA25)																											
1080-1090	Removal of TA2 (Pier 23-25) - Deck Removal - (TA23-TA24)	6	21-Dec-15	28-Dec-15	29-Dec-15	05-Jan-16	6	■ Removal of TA2 (Pier 23-25) - Deck Removal - (TA23-TA24)																											
1080-1100	Removal of TA2 (Pier 23-25) - Tower Removal - (TA24)	1	29-Dec-15	29-Dec-15	12-Nov-19	12-Nov-19	1161	■ Removal of TA2 (Pier 23-25) - Tower Removal - (TA24)																											
1080-1110	Removal of TA2 (Pier 27-28) - Deck Removal - (TA27-TA28)	0	20-Dec-15	20-Dec-15	20-Jan-16	20-Jan-16		■ Removal of TA2 (Pier 27-28) - Deck Removal - (TA27-TA28)																											
1080-1120	Removal of TA2 (Pier 27-28) - Deck Removal - (TA26-TA27)	0	20-Dec-15	20-Dec-15	20-Jan-16	20-Jan-16		■ Removal of TA2 (Pier 27-28) - Deck Removal - (TA26-TA27)																											
1080-1130	Removal of TA2 (Pier 27-28) - Tower Removal - (TA27)	0	20-Dec-15	20-Dec-15	20-Jan-16	20-Jan-16		■ Removal of TA2 (Pier 27-28) - Tower Removal - (TA27)																											
1080-1140	Removal of TA2 (Pier 27-28) - Tower Removal - (TA28)	0	20-Dec-15	20-Dec-15	11-Feb-16	11-Feb-16		■ Removal of TA2 (Pier 27-28) - Tower Removal - (TA28)																											
1080-1150	Removal of TA2 (Pier 25-26) - Deck Removal - (TA25-TA26)	3	21-Dec-15	23-Dec-15	20-Jan-16	22-Jan-16	24	■ Removal of TA2 (Pier 25-26) - Deck Removal - (TA25-TA26)																											
1080-1160	Removal of TA2 (Pier 25-26) -Tower Removal - (TA25)	1	24-Dec-15	24-Dec-15	23-Jan-16	23-Jan-16	24	■ Removal of TA2 (Pier 25-26) -Tower Removal - (TA25)																											
1080-1170	Removal of TA2 (Pier 25-26) -Tower Removal - (TA26)	1	26-Dec-15	26-Dec-15	25-Jan-16	25-Jan-16	24	■ Removal of TA2 (Pier 25-26) -Tower Removal - (TA26)																											
1080-1180	Removal of TA2 (Pier 21-23) - Deck Removal - (TA22-TA23)	3	29-Dec-15	31-Dec-15	06-Jan-16	08-Jan-16	6	■ Removal of TA2 (Pier 21-23) - Deck Removal - (TA22-TA23)																											
1080-1190	Removal of TA2 (Pier 21-23) -Tower Removal - (TA23)	1	02-Jan-16	02-Jan-16	09-Jan-16	09-Jan-16	6	■ Removal of TA2 (Pier 21-23) -Tower Removal - (TA23)																											
1080-1200	Removal of TA2 (Pier 21-23) -Deck Removal - (TA21-TA22)	5	04-Jan-16	08-Jan-16	01-Feb-16	05-Feb-16	24	■ Removal of TA2 (Pier 21-23) -Deck Removal - (TA21-TA22)																											
1080-1210	Removal of TA2 (Pier 21-23) -Tower Removal - (TA21)	1	09-Jan-16	09-Jan-16	06-Feb-16	06-Feb-16	24	■ Removal of TA2 (Pier 21-23) -Tower Removal - (TA21)																											
1080-1220	Removal of TA2 (Pier 21-23) -Tower Removal - (TA22)	1	11-Jan-16	11-Jan-16	11-Feb-16	11-Feb-16	24	■ Removal of TA2 (Pier 21-23) -Tower Removal - (TA22)																											
1080-1230	Reinstatement of Slab @ TA24	12	29-Dec-15	12-Jan-16	26-Jan-16	11-Feb-16	23	■ Reinstatement of Slab @ TA24																											
1080-1240	Reinstatement of Slab @ TA23	12	29-Dec-15	12-Jan-16	07-Jan-16	20-Jan-16	7	■ Reinstatement of Slab @ TA23																											
1080-1250	Reinstatement of Slab @ TA25	12	26-Dec-15	09-Jan-16	26-Jan-16	11-Feb-16	25	■ Reinstatement of Slab @ TA25																											
1080-1260	Reinstatement of Slab @ TA26	12	28-Dec-15	11-Jan-16	26-Jan-16	11-Feb-16	24	■ Reinstatement of Slab @ TA26																											

- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work

◆ Milestone

**Contract HY/2009/19**  
**Three Months Rolling Programme ( 20 Dec 2015 to 19 Mar 2016 )**



Activity ID	Activity Name	Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	2015												2016											
								2015						2016						2016						2016					
								20	27	03	10	17	24	31	07	14	21	28	06	13	20	27	03	10	17	24	31	07	14	21	28
1080-1270	Reinstatement of Slab @ TA27	12	21-Dec-15	05-Jan-16	26-Jan-16	11-Feb-16	29	Reinstatement of Slab @ TA27																							
1080-1280	EVB Remaining Works - Slab & Wall at +3.05Mpd - ( G.L 3-4/A-C) (Part 1)	0	20-Dec-15	20-Dec-15	16-Jan-16	16-Jan-16		EVB Remaining Works - Slab & Wall at +3.05Mpd - ( G.L 3-4/A-C) (Part 1)																							
1080-1290	EVB Remaining Works - Slab at +0.75Mpd - ( G.L 5.5-6/C-E) (Part 2)	0	20-Dec-15	20-Dec-15	19-Jan-16	19-Jan-16		EVB Remaining Works - Slab at +0.75Mpd - ( G.L 5.5-6/C-E) (Part 2)																							
1080-1300	EVB Remaining Works - In-Situ Watertank - Lower Part (Part 3)	0	20-Dec-15	20-Dec-15	19-Jan-16	19-Jan-16		EVB Remaining Works - In-Situ Watertank - Lower Part (Part 3)																							
1080-1310	EVB Remaining Works - D-Wall Rectification - ( G.L 6/L-N) (Part 4)	6	21-Dec-15	28-Dec-15	19-Jan-16	25-Jan-16	23	EVB Remaining Works - D-Wall Rectification - ( G.L 6/L-N) (Part 4)																							
1080-1320	EVB Remaining Works - Slab at +3.4Mpd - ( G.L 1-3/C-E) (Part 5)	3	26-Dec-15	30-Dec-15	22-Jan-16	25-Jan-16	21	EVB Remaining Works - Slab at +3.4Mpd - ( G.L 1-3/C-E) (Part 5)																							
1080-1330	EVB Remaining Works - Walls at +0.0Mpd - ( G.L 4-5/A-B) (Part 6)	5	21-Dec-15	26-Dec-15	16-Jan-16	21-Jan-16	21	EVB Remaining Works - Walls at +0.0Mpd - ( G.L 4-5/A-B) (Part 6)																							
1080-1340	EVB Remaining Works - Pre - Cast Watertank - Lower Part (Part 7)	0	21-Dec-15	21-Dec-15	02-Feb-16	02-Feb-16		EVB Remaining Works - Pre - Cast Watertank - Lower Part (Part 7)																							
1080-1350	EVB Remaining Works - Slab & Wall at +4.2Mpd - ( G.L 5-6/A-E) (Part 8)	9	21-Dec-15	31-Dec-15	29-Jan-16	11-Feb-16	32	EVB Remaining Works - Slab & Wall at +4.2Mpd - ( G.L 5-6/A-E) (Part 8)																							
1080-1360	EVB Remaining Works - Slab at +0.6Mpd - ( G.L 5-6/L-N) (Part 9)	12	28-Dec-15	12-Jan-16	26-Jan-16	11-Feb-16	23	EVB Remaining Works - Slab at +0.6Mpd - ( G.L 5-6/L-N) (Part 9)																							
1080-1370	EVB Remaining Works - In-Situ Watertank - Upper Part (Part 10)	6	21-Dec-15	28-Dec-15	02-Feb-16	11-Feb-16	35	EVB Remaining Works - In-Situ Watertank - Upper Part (Part 10)																							
1080-1380	EVB Remaining Works - Slab at +3.4Mpd - ( G.L 1-3/A-C) (Part 11)	12	30-Dec-15	14-Jan-16	26-Jan-16	11-Feb-16	21	EVB Remaining Works - Slab at +3.4Mpd - ( G.L 1-3/A-C) (Part 11)																							
1080-1390	EVB Remaining Works - Slab at -2.8Mpd - ( G.L 6-7/A) (Part 12)	6	26-Dec-15	04-Jan-16	02-Feb-16	11-Feb-16	30	EVB Remaining Works - Slab at -2.8Mpd - ( G.L 6-7/A) (Part 12)																							
1080-1400	EVB Remaining Works - Walls at +0.0Mpd - ( G.L 4-6/L-N) (Part 13)	5	30-Dec-15	07-Jan-16	02-Feb-16	11-Feb-16	28	EVB Remaining Works - Walls at +0.0Mpd - ( G.L 4-6/L-N) (Part 13)																							
1080-1410	EVB Remaining Works - Pre - Cast Watertank - Upper Part (Part 14)	6	21-Dec-15	28-Dec-15	02-Feb-16	11-Feb-16	35	EVB Remaining Works - Pre - Cast Watertank - Upper Part (Part 14)																							
1080-1420	EVB Remaining Works - Slab at +2.4Mpd - ( G.L 4-6/A-C) (Part 15)	10	29-Dec-15	09-Jan-16	07-Jan-16	18-Jan-16	7	EVB Remaining Works - Slab at +2.4Mpd - ( G.L 4-6/A-C) (Part 15)																							
1080-1430	EVB Remaining Works - Slab at +3.6Mpd - ( G.L 4-5/K-N) (Part 16)	6	21-Dec-15	28-Dec-15	02-Feb-16	11-Feb-16	35	EVB Remaining Works - Slab at +3.6Mpd - ( G.L 4-5/K-N) (Part 16)																							
1080-1440	EVB Remaining Works - Slab at -1.25Mpd - ( G.L 6-7/A) (Part 17)	9	29-Dec-15	08-Jan-16	29-Jan-16	11-Feb-16	26	EVB Remaining Works - Slab at -1.25Mpd - ( G.L 6-7/A) (Part 17)																							
1080-1450	EVB Remaining Works - Slab at +3.6Mpd - ( G.L 5-6/K-N) (Part 18)	10	21-Dec-15	02-Jan-16	28-Jan-16	11-Feb-16	31	EVB Remaining Works - Slab at +3.6Mpd - ( G.L 5-6/K-N) (Part 18)																							
1080-1451	D-Wall Weak Seam rectification works	9	21-Dec-15	31-Dec-15	23-Dec-15	04-Jan-16	2	D-Wall Weak Seam rectification works																							
1080-1540	Complete EVB Structure (Including reinstatement)	0		14-Jan-16		11-Feb-16	21	Complete EVB Structure (Including reinstatement)																							
1080-1541	Completion 100% of EVB Structure (Excl reinstatement)	0		31-Dec-15		31-Dec-15	0	Completion 100% of EVB Structure (Excl reinstatement)																							
1080-1542	Handover EVB (Zone 2A)	0		20-Jan-16		20-Jan-16	0	Handover EVB (Zone 2A)																							
1080-1543	Handover EVB (Final)	0		03-Mar-16		11-Feb-16	-18	Handover EVB (Final)																							
<b>05.2 - Cut &amp; Cover Tunnel Ch 4932-5149</b>																															
<b>05.2.5 - Road &amp; Miscellaneous Works</b>																															
0525-1340	Complete Remaining work at C/C Tunnel	0		18-Jan-16		18-Jan-16	0	Complete Remaining work at C/C Tunnel																							
<b>06 - SECTION 3 OF THE WORKS</b>																															
<b>06.1 - Westbound - Pier 29-34</b>																															
0610-1880	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding	8	21-Dec-15	30-Dec-15	10-Dec-15	18-Dec-15	-9	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding																							
0610-1900	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post drill rebar & Construction	14	21-Dec-15	07-Jan-16	11-Jan-16	27-Jan-16	17	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post drill rebar & Construction																							
0610-1920	Construct W/B Bridge Pier 34 - Breaking base/ Drilling of Starter Bars for Pier/Column	0	21-Dec-15	21-Dec-15	10-Dec-15	10-Dec-15		Construct W/B Bridge Pier 34 - Breaking base/ Drilling of Starter Bars for Pier/Column																							
0610-1940	Construct W/B Bridge Pier 34 Construct Crosshead	11	21-Dec-15	04-Jan-16	10-Dec-15	22-Dec-15	-9	Construct W/B Bridge Pier 34 Construct Crosshead																							
0610-1960	Construct W/B Bridge Pier 34 - Install Bearing	6	05-Jan-16	11-Jan-16	23-Dec-15	30-Dec-15	-9	Construct W/B Bridge Pier 34 - Install Bearing																							
<b>06.3 - Admin Building</b>																															
0630-1880	Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles	4	12-Jan-16	15-Jan-16	12-Feb-16	16-Feb-16	24	Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles																							
0630-1900	Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer Casting	5	16-Jan-16	21-Jan-16	17-Feb-16	22-Feb-16	24	Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer Casting																							
0630-1920	Grd. Beam - (GL > P-R) - Install Capping Plate	6	21-Jan-16	27-Jan-16	22-Feb-16	27-Feb-16	24	Grd. Beam - (GL > P-R) - Install Capping Plate																							
0630-1940	Grd. Beam - (GL > P-R) - Rebar Fixing for Beam	7	25-Jan-16	01-Feb-16	25-Feb-16	03-Mar-16	24	Grd. Beam - (GL > P-R) - Rebar Fixing for Beam																							
0630-1960	Grd. Beam - (GL > P-R) - Erect Formworks for Beam	4	02-Feb-16	05-Feb-16	04-Mar-16	08-Mar-16	24	Grd. Beam - (GL > P-R) - Erect Formworks for Beam																							
0630-1980	Grd. Beam - (GL > P-R) - Cast Concrete for Beam	1	06-Feb-16	06-Feb-16	09-Mar-16	09-Mar-16	24	Grd. Beam - (GL > P-R) - Cast Concrete for Beam																							
0630-2000	Grd. Beam - (GL > P-R) - Formworks Removal	1	11-Feb-16	11-Feb-16	10-Mar-16	10-Mar-16	24	Grd. Beam - (GL > P-R) - Formworks Removal																							
0630-2021	Grd. Beam - (GL > C-F/1-2.5) - Excav. to formation level + Blinding Layer Casting	5	21-Dec-15	26-Dec-15	11-Dec-15	17-Dec-15	-7	Grd. Beam - (GL > C-F/1-2.5) - Excav. to formation level + Blinding Layer Casting																							
0630-2040	Grd. Beam - (GL > C-F/1-2.5) - Install Capping Plate	4	21-Dec-15	24-Dec-15	21-Dec-15	24-Dec-15	0	Grd. Beam - (GL > C-F/1-2.5) - Install Capping Plate																							
0630-2080	Grd. Beam - (GL > C-F/1-2.5) - Rebar Fixing for Ground Beam	7	23-Dec-15	31-Dec-15	23-Dec-15	31-Dec-15	0	Grd. Beam - (GL > C-F/1-2.5) - Rebar Fixing for Ground Beam																							
0630-2100	Grd. Beam - (GL > C-F/1-2.5) - Erect Formworks for Ground Beam	6	31-Dec-15	07-Jan-16	31-Dec-15	07-Jan-16	0	Grd. Beam - (GL > C-F/1-2.5) - Erect Formworks for Ground Beam																							
0630-2120	Grd. Beam - (GL > C-F/1-2.5) - Cast Concrete for Ground Beam	1	08-Jan-16	08-Jan-16	08-Jan-16	08-Jan-16	0	Grd. Beam - (GL > C-F/1-2.5) - Cast Concrete for Ground Beam																							
0630-2140	Grd. Beam - (GL > C-F/1-2.5) - Formworks Removal	2	09-Jan-16	11-Jan-16	09-Jan-16	11-Jan-16	0	Grd. Beam - (GL > C-F/1-2.5) - Formworks Removal																							

- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work

◆ Milestone

**Contract HY/2009/19**  
**Three Months Rolling Programme ( 20 Dec 2015 to 19 Mar 2016 )**



Activity ID	Activity Name	Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	2015				2016											
								January				February				March							
								20	27	03	10	17	24	31	07	14	21	28	06	13	20		
0630-2389	Underground drainage (Pier 30) - Forwork Erection (for Catchpit)	0	20-Dec-15	20-Dec-15	08-Jan-16	08-Jan-16		Formwork Erection (for Catchpit)															
0630-2391	Underground drainage (Pier 30) - Concreting (for Catchpit)	0	20-Dec-15	20-Dec-15	08-Jan-16	08-Jan-16		Concreting (for Catchpit)															
0630-2393	Underground drainage (Pier 30) - Formwork Removal	0	20-Dec-15	20-Dec-15	08-Jan-16	08-Jan-16		Formwork Removal															
0630-2395	Underground drainage (Pier 30) - Excavation	0	20-Dec-15	20-Dec-15	08-Jan-16	08-Jan-16		Excavation															
0630-2397	Underground drainage (Pier 30) - Bedding	0	20-Dec-15	20-Dec-15	08-Jan-16	08-Jan-16		Bedding (Pier 30) - Bedding															
0630-2399	Underground drainage (Pier 30) - Connection of Concrete Pipe	0	20-Dec-15	20-Dec-15	08-Jan-16	08-Jan-16		Connection of Concrete Pipe (Pier 30) - Connection of Concrete Pipe															
0630-2401	Underground drainage (Pier 30) - Backfill	3	21-Dec-15	23-Dec-15	08-Jan-16	11-Jan-16	14	Underground drainage (Pier 30) - Backfill															
0630-2411	Underground drainage (Pier 31) - Formwork Removal	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Formwork Removal															
0630-2413	Underground drainage (Pier 31) - Blinding Layer Casting (for Catchpit)	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Blinding Layer Casting (for Catchpit)															
0630-2415	Underground drainage (Pier 31) - Forwork Erection (for Catchpit)	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Formwork Erection (for Catchpit)															
0630-2417	Underground drainage (Pier 31) - Concreting (for Catchpit)	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Concreting (for Catchpit)															
0630-2419	Underground drainage (Pier 31) - Formwork Removal	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Formwork Removal															
0630-2421	Underground drainage (Pier 31) - Excavation	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Excavation															
0630-2423	Underground drainage (Pier 31) - Bedding	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Bedding															
0630-2425	Underground drainage (Pier 31) - Connection of Concrete Pipe	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Connection of Concrete Pipe (Pier 31) - Connection of Concrete Pipe															
0630-2427	Underground drainage (Pier 31) - Backfill	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Underground drainage (Pier 31) - Backfill															
0630-2441	Underground drainage (Pier 32) - Forwork Erection (for Catchpit)	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Formwork Erection (for Catchpit)															
0630-2443	Underground drainage (Pier 32) - Concreting (for Catchpit)	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Concreting (for Catchpit)															
0630-2445	Underground drainage (Pier 32) - Formwork Removal	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Formwork Removal															
0630-2447	Underground drainage (Pier 32) - Excavation	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Excavation															
0630-2449	Underground drainage (Pier 32) - Bedding	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Bedding															
0630-2451	Underground drainage (Pier 32) - Connection of Concrete Pipe	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Connection of Concrete Pipe (Pier 32) - Connection of Concrete Pipe															
0630-2453	Underground drainage (Pier 32) - Backfill	0	20-Dec-15	20-Dec-15	11-Jan-16	11-Jan-16		Underground drainage (Pier 32) - Backfill															
0650-1000	Construct Road Pavement Between P31-32 within Porion VB incl sub-base	7	21-Dec-15	29-Dec-15	04-Jan-16	11-Jan-16	10	Construct Road Pavement Between P31-32 within Porion VB incl sub-base															
0650-1110	Modify Temporary Support of Pier obstructing construction of ADB along Portion VB	15	21-Dec-15	08-Jan-16	23-Dec-15	11-Jan-16	2	Modify Temporary Support of Pier obstructing construction of ADB along Portion VB															
0660-1010	Complete ADB Ground Beam (Portion VB & VD)	0		11-Jan-16		11-Jan-16	0	Complete ADB Ground Beam (Portion VB & VD)															
0660-1550	Erect Temporary/Removable Hoarding along portion VB	17	21-Dec-15	11-Jan-16	21-Dec-15	11-Jan-16	0	Erect Temporary/Removable Hoarding along portion VB															
<b>Admin Building - Add'l Secondary Ground Beams</b>																							
0660-1020	Secondary Gd. Beam(Pier 30-31) - (GB12-1) - Excavation	2	12-Jan-16	13-Jan-16	18-Jan-16	19-Jan-16	5	Secondary Gd. Beam(Pier 30-31) - (GB12-1) - Excavation															
0660-1030	Secondary Gd. Beam(Pier 30-31) - (GB12-2) - Excavation	2	12-Jan-16	13-Jan-16	23-Jan-16	25-Jan-16	10	Secondary Gd. Beam(Pier 30-31) - (GB12-2) - Excavation															
0660-1040	Secondary Gd. Beam(Pier 30-31) - (GB50-1) - Excavation	2	12-Jan-16	13-Jan-16	23-Jan-16	25-Jan-16	10	Secondary Gd. Beam(Pier 30-31) - (GB50-1) - Excavation															
0660-1050	Secondary Gd. Beam(Pier 30-31) - (GB50-2) - Excavation	2	12-Jan-16	13-Jan-16	23-Jan-16	25-Jan-16	10	Secondary Gd. Beam(Pier 30-31) - (GB50-2) - Excavation															
0660-1060	Secondary Gd. Beam(Pier 30-31) - (GB13-1) - Excavation	2	12-Jan-16	13-Jan-16	23-Jan-16	25-Jan-16	10	Secondary Gd. Beam(Pier 30-31) - (GB13-1) - Excavation															
0660-1070	Secondary Gd. Beam(Pier 30-31) - (GB14) - Excavation	2	12-Jan-16	13-Jan-16	23-Jan-16	25-Jan-16	10	Secondary Gd. Beam(Pier 30-31) - (GB14) - Excavation															
0660-1080	Secondary Gd. Beam(Pier 30-31) - (GB12-1) - ELS/Blinding/prepare CJ	5	14-Jan-16	19-Jan-16	20-Jan-16	25-Jan-16	5	Secondary Gd. Beam(Pier 30-31) - (GB12-1) - ELS/Blinding/prepare CJ															
0660-1090	Secondary Gd. Beam(Pier 30-31) - (GB12-2) - ELS/Blinding/prepare CJ	5	14-Jan-16	19-Jan-16	20-Jan-16	25-Jan-16	5	Secondary Gd. Beam(Pier 30-31) - (GB12-2) - ELS/Blinding/prepare CJ															
0660-1100	Secondary Gd. Beam(Pier 30-31) - (GB50-1) - ELS/Blinding/prepare CJ	5	14-Jan-16	19-Jan-16	20-Jan-16	25-Jan-16	5	Secondary Gd. Beam(Pier 30-31) - (GB50-1) - ELS/Blinding/prepare CJ															
0660-1120	Secondary Gd. Beam(Pier 30-31) - (GB50-2) - ELS/Blinding/prepare CJ	5	14-Jan-16	19-Jan-16	20-Jan-16	25-Jan-16	5	Secondary Gd. Beam(Pier 30-31) - (GB50-2) - ELS/Blinding/prepare CJ															
0660-1130	Secondary Gd. Beam(Pier 30-31) - (GB13-1) - ELS/Blinding/prepare CJ	5	14-Jan-16	19-Jan-16	20-Jan-16	25-Jan-16	5	Secondary Gd. Beam(Pier 30-31) - (GB13-1) - ELS/Blinding/prepare CJ															
0660-1140	Secondary Gd. Beam(Pier 30-31) - (GB14) - ELS/Blinding/prepare CJ	5	14-Jan-16	19-Jan-16	20-Jan-16	25-Jan-16	5	Secondary Gd. Beam(Pier 30-31) - (GB14) - ELS/Blinding/prepare CJ															
0660-1150	Secondary Gd. Beam(Pier 30-31) - (GB12-1) - Rebar Fixing/Formworks/Concrete	24	20-Jan-16	19-Feb-16	26-Jan-16	25-Feb-16	5	Secondary Gd. Beam(Pier 30-31) - (GB12-1) - Rebar Fixing/Formworks/Concrete															
0660-1160	Secondary Gd. Beam(Pier 30-31) - (GB12-2) - Rebar Fixing/Formworks/Concrete	24	20-Jan-16	19-Feb-16	26-Jan-16	25-Feb-16	5	Secondary Gd. Beam(Pier 30-31) - (GB12-2) - Rebar Fixing/Formworks/Concrete															
0660-1170	Secondary Gd. Beam(Pier 30-31) - (GB50-1) - Rebar Fixing/Formworks/Concrete	24	20-Jan-16	19-Feb-16	26-Jan-16	25-Feb-16	5	Secondary Gd. Beam(Pier 30-31) - (GB50-1) - Rebar Fixing/Formworks/Concrete															
0660-1180	Secondary Gd. Beam(Pier 30-31) - (GB50-2) - Rebar Fixing/Formworks/Concrete	24	20-Jan-16	19-Feb-16	26-Jan-16	25-Feb-16	5	Secondary Gd. Beam(Pier 30-31) - (GB50-2) - Rebar Fixing/Formworks/Concrete															
0660-1190	Secondary Gd. Beam(Pier 30-31) - (GB13-1) - Rebar Fixing/Formworks/Concrete	24	20-Jan-16	19-Feb-16	26-Jan-16	25-Feb-16	5	Secondary Gd. Beam(Pier 30-31) - (GB13-1) - Rebar Fixing/Formworks/Concrete															
0660-1200	Secondary Gd. Beam(Pier 30-31) - (GB14) - Rebar Fixing/Formworks/Concrete	24	20-Jan-16	19-Feb-16	26-Jan-16	25-Feb-16	5	Secondary Gd. Beam(Pier 30-31) - (GB14) - Rebar Fixing/Formworks/Concrete															
0660-1210	Secondary Gd. Beam(Pier 31-32) - (GB54) - Excavation	2	14-Jan-16	15-Jan-16	26-Jan-16	27-Jan-16	10	Secondary Gd. Beam(Pier 31-32) - (GB54) - Excavation															

- Remaining Level of Effort
  - Actual Level of Effort
  - Actual Work
  - Remaining Work
  - Critical Remaining Work
- ◆ Milestone

**Contract HY/2009/19**  
**Three Months Rolling Programme ( 20 Dec 2015 to 19 Mar 2016 )**











Activity ID	Activity Name	emainir Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	2015												2016															
								2015												2016															
								January												February												March			
20	27	03	10	17	24	31	07	14	21	28	06	13	20	27	03	10	17	24	31	07	14	21	28	06	13	20									
1022-1575	Bridge C4 - Erect End Span Segment at Piers 32 (5 nos) > by LG1	6	30-Dec-15	06-Jan-16	23-Dec-15	30-Dec-15	-5	Bridge C4 - Erect End Span Segment at Piers 32 (5 nos) > by LG1																											
1022-1578	Luanch LG1 to Pier 34 - Pier 36	2	20-Jan-16	21-Jan-16	31-Dec-15	02-Jan-16	-16	Luanch LG1 to Pier 34 - Pier 36																											
1022-1580	Bridge C5 - Erect T-span at Pier 34 (8 nos) > By LG1	3	22-Jan-16	25-Jan-16	04-Jan-16	06-Jan-16	-16	Bridge C5 - Erect T-span at Pier 34 (8 nos) > By LG1																											
1022-1585	Bridge C5 - Erect Pier Segment at Abut D12 (2 nos) > by LG1	2	26-Jan-16	27-Jan-16	22-Jan-16	23-Jan-16	-3	Bridge C5 - Erect Pier Segment at Abut D12 (2 nos) > by LG1																											
1022-1588	Bridge C5 - Erect E-span at Abut D12 (5 nos) > by LG1	7	28-Jan-16	04-Feb-16	25-Jan-16	01-Feb-16	-3	Bridge C5 - Erect E-span at Abut D12 (5 nos) > by LG1																											
1022-1600	Bridge C5 - Stitching between Pier 32 and 33	3	07-Jan-16	09-Jan-16	17-Jun-16	20-Jun-16	132	Bridge C5 - Stitching between Pier 32 and 33																											
1022-1700	Bridge C5 - Stitching between Pier 33 and 34	3	26-Jan-16	28-Jan-16	07-Jan-16	09-Jan-16	-16	Bridge C5 - Stitching between Pier 33 and 34																											
1022-1760	Bridge C5 - Stitching between Pier 34 and D12	3	05-Feb-16	11-Feb-16	21-Jun-16	23-Jun-16	110	Bridge C5 - Stitching between Pier 34 and D12																											
1022-1780	Bridge C5 - External Stressing	7	05-Feb-16	16-Feb-16	21-Jun-16	28-Jun-16	110	Bridge C5 - External Stressing																											
1022-1800	Bridge C5 - Construct North Parapet (75m)	16	17-Feb-16	05-Mar-16	29-Jun-16	18-Jul-16	110	Bridge C5 - Construct North Parapet (75m)																											
1022-3140	Bridge C5 - Construct South Parapet (75m)	16	17-Feb-16	05-Mar-16	29-Jun-16	18-Jul-16	110	Bridge C5 - Construct South Parapet (75m)																											
<b>Bridge F1C</b>																																			
1022-1840	Bridge F1C - Erect Pier Segment at Pier 36 (1 nos) > by LG1	7	05-Feb-16	16-Feb-16	02-Feb-16	12-Feb-16	-3	Bridge F1C - Erect Pier Segment at Pier 36 (1 nos) > by LG1																											
1022-1860	Bridge F1C- Erect T-span at Pier 36 (12 nos) > by LG1	3	17-Feb-16	19-Feb-16	13-Feb-16	16-Feb-16	-3	Bridge F1C- Erect T-span at Pier 36 (12 nos) > by LG1																											
1022-1870	Bridge F1C - Erect E-span at Abut D12 (6 nos) > by LG1	7	20-Feb-16	27-Feb-16	17-Feb-16	24-Feb-16	-3	Bridge F1C - Erect E-span at Abut D12 (6 nos) > by LG1																											
1022-1872	Bridge F1C - Erect Pier Segment at Pier 37 (1 no) > by LG1	7	29-Feb-16	07-Mar-16	25-Feb-16	03-Mar-16	-3	Bridge F1C - Erect Pier Segment at Pier 37 (1 no) > by LG1																											
1022-1875	Bridge F1C - Erect T-span Segment at Pier 37 (10 nos) > by LG1	3	08-Mar-16	10-Mar-16	04-Mar-16	07-Mar-16	-3	Bridge F1C - Erect T-span Segment at Pier 37 (10 nos) > by LG1																											
1022-1878	Bridge F1C - Erect Pier Segment at Pier 38 (2 nos) > by LG1	7	11-Mar-16	18-Mar-16	08-Mar-16	15-Mar-16	-3	Bridge F1C - Erect Pier Segment at Pier 38 (2 nos) > by LG1																											
1022-1879	Bridge F1C - Erect E-span Segment at Pier 38 (5 nos) > by LG1	7	19-Mar-16	29-Mar-16	16-Mar-16	23-Mar-16	-3	Bridge F1C - Erect E-span Segment at Pier 38 (5 nos) > by LG1																											
1022-1880	Bridge F1C - Stitching between Abut D12 and Pier 36	3	29-Feb-16	02-Mar-16	11-Jun-16	14-Jun-16	85	Bridge F1C - Stitching between Abut D12 and Pier 36																											
1022-1940	Bridge F1C - Stitching between Pier 36 and 37	3	11-Mar-16	14-Mar-16	11-Jun-16	14-Jun-16	75	Bridge F1C - Stitching between Pier 36 and 37																											
1022-2000	Bridge F1C - Stitching between Pier 37 and 38	3	30-Mar-16	01-Apr-16	05-Apr-16	07-Apr-16	4	Bridge F1C - Stitching between Pier 37 and 38																											
<b>10.3 - Middle Bridge (Bridge F)</b>																																			
<b>10.3.1 - Pier Construction</b>																																			
<b>Abutment D12</b>																																			
1031-1920	Complete ABUT D12 at Middle Bridge	20	19-Feb-16	12-Mar-16	11-Apr-16	03-May-16	41	Complete ABUT D12																											
<b>10.6 - Tunnel Approach Ramp</b>																																			
<b>10.6.1 - Approach Ramp (Excluding Portion IIB)</b>																																			
<b>Bored Piles</b>																																			
1061-1120	Bored Piles Testing Approach Ramp (112 nos)	60	21-Dec-15	04-Mar-16	18-May-16	28-Jul-16	120	Bored Piles Testing Approach Ramp (112 nos)																											
1061-3980	Pre Bored H-Pile > Pile Ramp - BN14 A	3	21-Dec-15	23-Dec-15	21-Jun-16	23-Jun-16	148	Pre Bored H-Pile > Pile Ramp - BN14 A																											
1061-3981	Pre Bored H-Pile > Pile Ramp - BN14 A - ( H-Pile + Grouting)	1	24-Dec-15	24-Dec-15	22-Sep-16	22-Sep-16	223	Pre Bored H-Pile > Pile Ramp - BN14 A - ( H-Pile + Grouting)																											
1061-4000	Pre Bored H-Pile > Pile Ramp - BN14 B	3	24-Dec-15	28-Dec-15	24-Jun-16	27-Jun-16	148	Pre Bored H-Pile > Pile Ramp - BN14 B																											
1061-4001	Pre Bored H-Pile > Pile Ramp - BN14 B - ( H-Pile + Grouting)	1	29-Dec-15	29-Dec-15	22-Sep-16	22-Sep-16	220	Pre Bored H-Pile > Pile Ramp - BN14 B - ( H-Pile + Grouting)																											
1061-4020	Pre Bored H-Pile > Pile Ramp - BN15 A	0	28-Dec-15	28-Dec-15	28-Jun-16	28-Jun-16	0	Pre Bored H-Pile > Pile Ramp - BN15 A																											
1061-40221	Pre Bored H-Pile > Pile Ramp - BN15 A - ( H-Pile + Grouting)	1	29-Dec-15	29-Dec-15	22-Sep-16	22-Sep-16	220	Pre Bored H-Pile > Pile Ramp - BN15 A - ( H-Pile + Grouting)																											
1061-4040	Pre Bored H-Pile > Pile Ramp - BN15 B	0	28-Dec-15	28-Dec-15	28-Jun-16	28-Jun-16	0	Pre Bored H-Pile > Pile Ramp - BN15 B																											
1061-4041	Pre Bored H-Pile > Pile Ramp - BN15 B - ( H-Pile + Grouting)	0	29-Dec-15	29-Dec-15	22-Sep-16	22-Sep-16	221	Pre Bored H-Pile > Pile Ramp - BN15 B - ( H-Pile + Grouting)																											
1061-4060	Pre Bored H-Pile > Pile Ramp - BN16 A	0	28-Dec-15	28-Dec-15	28-Jun-16	28-Jun-16	0	Pre Bored H-Pile > Pile Ramp - BN16 A																											
1061-4061	Pre Bored H-Pile > Pile Ramp - BN16 A - ( H-Pile + Grouting)	0	29-Dec-15	29-Dec-15	22-Sep-16	22-Sep-16	221	Pre Bored H-Pile > Pile Ramp - BN16 A - ( H-Pile + Grouting)																											
1061-4081	Pre Bored H-Pile > Pile Ramp - BN16 B - ( H-Pile + Grouting)	1	29-Dec-15	29-Dec-15	22-Sep-16	22-Sep-16	220	Pre Bored H-Pile > Pile Ramp - BN16 B - ( H-Pile + Grouting)																											
1061-4100	Pre Bored H-Pile > Pile Ramp - BM07 A	3	29-Dec-15	31-Dec-15	28-Jun-16	30-Jun-16	148	Pre Bored H-Pile > Pile Ramp - BM07 A																											
1061-4101	Pre Bored H-Pile > Pile Ramp - BM07 A - ( H-Pile + Grouting)	1	02-Jan-16	02-Jan-16	22-Sep-16	22-Sep-16	217	Pre Bored H-Pile > Pile Ramp - BM07 A - ( H-Pile + Grouting)																											
1061-4120	Pre Bored H-Pile > Pile Ramp - BM07 B	3	02-Jan-16	05-Jan-16	02-Jul-16	05-Jul-16	148	Pre Bored H-Pile > Pile Ramp - BM07 B																											
1061-4121	Pre Bored H-Pile > Pile Ramp - BM07 B - ( H-Pile + Grouting)	1	06-Jan-16	06-Jan-16	22-Sep-16	22-Sep-16	214	Pre Bored H-Pile > Pile Ramp - BM07 B - ( H-Pile + Grouting)																											
1061-4140	Pre Bored H-Pile > Pile Ramp - BM08 A	3	06-Jan-16	08-Jan-16	06-Jul-16	08-Jul-16	148	Pre Bored H-Pile > Pile Ramp - BM08 A																											
1061-4141	Pre Bored H-Pile > Pile Ramp - BM08 A - ( H-Pile + Grouting)	1	09-Jan-16	09-Jan-16	22-Sep-16	22-Sep-16	211	Pre Bored H-Pile > Pile Ramp - BM08 A - ( H-Pile + Grouting)																											
1061-4161	Pre Bored H-Pile > Pile Ramp - BM08 B - ( H-Pile + Grouting)	1	09-Jan-16	09-Jan-16	22-Sep-16	22-Sep-16	211	Pre Bored H-Pile > Pile Ramp - BM08 B - ( H-Pile + Grouting)																											
1061-4180	Pre Bored H-Pile > Pile Ramp - BM06 A	3	09-Jan-16	12-Jan-16	09-Jul-16	12-Jul-16	148	Pre Bored H-Pile > Pile Ramp - BM06 A																											

- █ Remaining Level of Effort
- █ Actual Level of Effort
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work

◆ Milestone

**Contract HY/2009/19**  
**Three Months Rolling Programme ( 20 Dec 2015 to 19 Mar 2016 )**







Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015				2016			
						Dec				Jan		Feb	
<b>Update 2015-12-20 CWB(CC) - Commissioning Contract (DWP R2a)</b>													
<b>PRELIMINARIES AND GENERAL REQUIREMENTS</b>													
<b>Salient Key Dates and Milestones</b>													
<b>Possession Dates and Vacation Dates</b>													
PO-Xa_1	Possession of Portion Xa (Day 650) - ADB Southern Portion (AECOM letter ref: 2015007890T)	679d	20-Dec-15	28-Oct-17	-68d	[Red bar from Dec 20, 2015 to Oct 28, 2017]							
PO-Vc	Possession of Portion V (Day 607) - CH3210-3250 - Tentative, To Be Confirmed.	658d	31-Dec-15	18-Oct-17	-24d	[Red bar from Dec 31, 2015 to Oct 18, 2017]							
PO-IXb	Possession of Portion IXb (Day 712) - EVB (below +3.6mPD to tunnel top slab)	617d	10-Feb-16	18-Oct-17	6d	[Yellow bar from Feb 10, 2016 to Oct 18, 2017]							
PO-IXc	Possession of Portion IXc (Day 712) - EVB above 3.6mPD	617d	10-Feb-16	18-Oct-17	6d	[Yellow bar from Feb 10, 2016 to Oct 18, 2017]							
PO-Vb	Possession of Portion V (Day 607) - SR3 / SR2 / SCP3 - Tentative, To Be Confirmed.	599d	28-Feb-16	18-Oct-17	12d	[Yellow bar from Feb 28, 2016 to Oct 18, 2017]							
<b>Submissions and Approvals</b>													
<b>Initial General Submission</b>													
1210	Submission of 1st Construction video film	0d		20-Dec-15*	-322d	[Blue diamond at Dec 20, 2015]							
9932	Submission of 1st Project video film Video1 / Video2 (Release II)	0d		20-Dec-15*	-322d	[Blue diamond at Dec 20, 2015]							
1211	Submission of 1st Project video film	0d		31-Jan-16*	0d	[Blue triangle at Jan 31, 2016]							
<b>Specified Plans</b>													
1172	Submission of a Traffic management Contingency Plan	90d	20-Dec-15	18-Mar-16	502d	[Yellow bar from Dec 20, 2015 to Mar 18, 2016]							
<b>DETAILED DESIGN OF WORKS</b>													
<b>Permanent Works Design and Engineering</b>													
<b>Metal Roof on MVB</b>													
2182	MVB Roof - Prepare Preliminary Design and Submission	48d	01-Dec-15 A	27-Jan-16	0d	[Blue bar from Dec 1, 2015 to Jan 27, 2016]							
2184	MVB Roof - Finalise preliminary design and ICE Review	24d	28-Jan-16	02-Mar-16	0d	[Red bar from Jan 28, 2016 to Mar 2, 2016]							
2186	MVB Roof - Submit to the Engineer with ICE Certificate	0d		02-Mar-16	0d	[Blue triangle at Mar 2, 2016]							
2188	MVB Roof - Engineer review & approval	48d	03-Mar-16	03-May-16	0d	[Red bar from Mar 3, 2016 to May 3, 2016]							
<b>Metal Roof on WVB</b>													
2180	WVB Roof - Engineer review & Approval; Consent to Proceed Construction	24d	07-Feb-15 A	21-Jan-16	-77d	[Blue bar from Feb 7, 2015 to Jan 21, 2016]							

- ◆ Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- ▲ Baseline Milestone
- Project Baseline
- Actual Work

**Leighton Contractors (Asia) Limited**  
**Programme Update 22 (December 2015)**  
**THREE MONTH ROLLING**

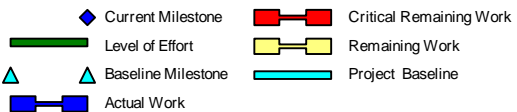
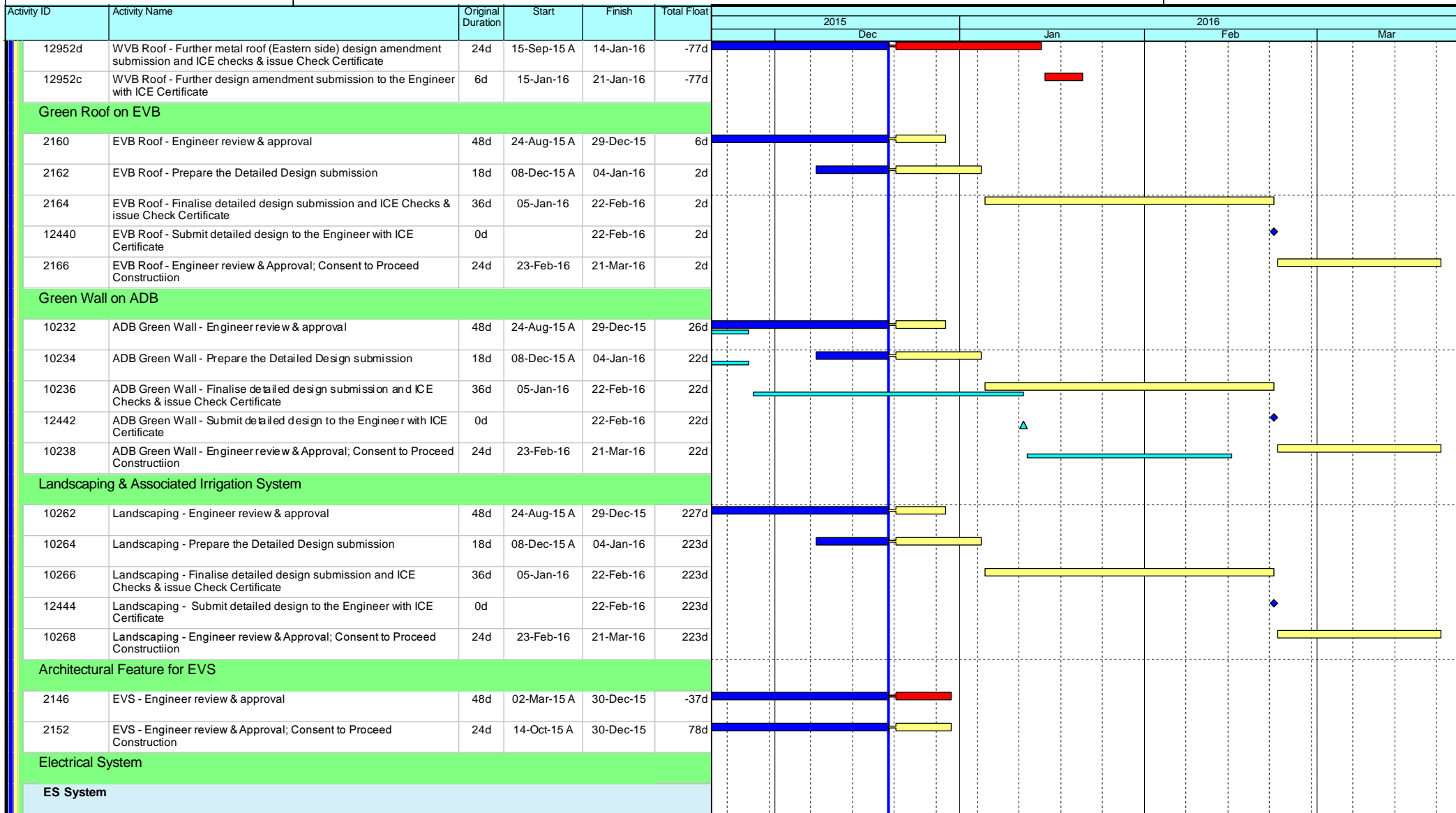
Project ID: H2613-U022  
 Baseline: DWP2a  
 Layout: Update Three Month Rolling U022  
 Page 1 of 16

Date	Revision	Checked	Appro...
20-Nov-15	U021	AT	CW
20-Dec-15	U022	AT	CW

Data Date: 20-Dec-15

# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.



## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

Project ID: H2613-U022  
Baseline: DWP2a  
Layout: Update Three Month Rolling U022  
Page 2 of 16

Date	Revision	Checked	Appro...
20-Nov-15	U021	AT	CW
20-Dec-15	U022	AT	CW

Data Date: 20-Dec-15

# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015				2016					
						Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar		
<b>ITP, Method Statement &amp; Testing &amp; Commissioning Plan</b>															
10550	ES - Preparation of Method Statement for Installation	30d	20-Aug-15 A	01-Dec-15 A											
10982	ES - Method Statement submission (AECOM review / approval)	60d	06-Oct-15 A	15-Jan-16	49d										
10980	ES - Method Statement submission (ICE Approval / Cert) - Not required	1d	21-Dec-15	21-Dec-15	68d										
10552	ES - Preparation of Testing & Commissioning	28d	16-Jan-16	24-Feb-16	134d										
10554	ES - Testing & Commissioning submission to AECOM	60d	25-Feb-16	10-May-16	134d										
<b>Building Services System</b>															
<b>MVAC System</b>															
<b>Subletting</b>															
11028	MVAC - Confirm S/C Terms and Issue LOI subject to AECOM Approval	50d	28-Apr-15 A	29-Dec-15	8d										
<b>ITP, Method Statement &amp; Testing &amp; Commissioning Plan</b>															
11062	MVAC System - Preparation of Method Statement for Installation	50d	23-Nov-15 A	20-Jan-16	41d										
11066	MVAC System - Method Statement (ICE approval / cert)	12d	21-Jan-16	03-Feb-16	41d										
11068	MVAC System - Method Statement submission to AECOM	68d	04-Feb-16	05-May-16	41d										
<b>Fire Services System (FS)</b>															
<b>ITP, Method Statement &amp; Testing &amp; Commissioning Plan</b>															
11018	FS System - Preparation of Method Statement for Installation	50d	21-Sep-15 A	05-Dec-15 A											
11022	FS System - Method Statement (ICE approval / cert) - No ICE needed	1d	07-Dec-15 A	07-Dec-15 A											
11024	FS System - Method Statement submission to AECOM	80d	08-Dec-15 A	18-Mar-16	24d										
11020	FS System - Preparation of Testing & Commissioning	60d	19-Mar-16	03-Jun-16	24d										
<b>Plumbing System (PL)</b>															
<b>Subletting</b>															
11072	PL - Confirm S/C Terms and Issue LOI subject to AECOM Approval	12d	21-Dec-15	06-Jan-16	158d										
<b>ITP, Method Statement &amp; Testing &amp; Commissioning Plan</b>															
11106	PL System - Preparation of Method Statement for Installation	50d	05-Oct-15 A	10-Dec-15 A											

- Current Milestone
- Critical Remaining Work
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- Actual Work

## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

Project ID: H2613-U022  
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Data Date: 20-Dec-15

# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015				2016			
						Dec		Jan		Feb		Mar	
11110	PL System - Method Statement (ICE approval / cert)	12d	12-Oct-15 A	27-Jan-16	62d								
11108	PL System - Preparation of Testing & Commissioning	60d	27-Feb-16	12-May-16	42d								
<b>Drainage System (DR)</b>													
<b>ITP, Method Statement &amp; Testing &amp; Commissioning Plan</b>													
10500	DR System - Preparation of Testing & Commissioning	60d	14-Nov-15 A	01-Feb-16	118d								
11126	DR System - Testing & Commissioning to AECOM	90d	02-Feb-16	30-May-16	118d								
<b>Access Road at Area D &amp; E</b>													
12720	Access Road at Area D & E - Prepare design submission	24d	23-Feb-16	21-Mar-16	256d								
<b>PROCUREMENT, MANUFACTURING &amp; DELIVERIES</b>													
<b>Procurement; Manufacturing; Deliveries</b>													
<b>Metal Roof on WVB</b>													
<b>Shop Drawings</b>													
12844a	WVB Roof - Shop Drawings review by the Engineer (Eastern Side)	24d	26-Mar-15 A	21-Jan-16	-94d								
12844b	WVB Roof - Shop Drawings review by the Engineer (Western Side)	24d	26-Mar-15 A	31-Dec-15	-121d								
2216	WVB Roof - Obtain Approval for Shop Drawings	0d		21-Jan-16	-94d								
<b>Procurement &amp; Fabrication</b>													
2218a2	WVB Roof - Fabrication drawing (Western Side) submission to the Engineer and obtain approval	12d	01-Jan-16	12-Jan-16	-121d								
2218	WVB Roof - Confirm design of embed items	0d	13-Jan-16		-115d								
2220a	WVB Roof - assembly units fabrication & delivery	30d	13-Jan-16	11-Feb-16	-115d								
2224	WVB Roof - Metal Roof Fabrication (For Tunnel portal side)	36d	13-Jan-16	17-Feb-16	-121d								
2218a1	WVB Roof - Fabrication drawing (Eastern Side) submission to the Engineer and obtain approval	12d	22-Jan-16	02-Feb-16	-92d								
12776a	WVB Roof - Metal Roof Fabrication (For Eastern side)	36d	03-Feb-16	09-Mar-16	-92d								
2222a	WVB Roof - Commence assembly units installation	0d	12-Feb-16		-115d								
2226	WVB Roof - Commencement of works	0d	18-Feb-16		-94d								
<b>VE Brackets / Panels</b>													

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## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

Project ID: H2613-U022  
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# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015												2016											
						Dec				Jan				Feb				Mar				Apr				May			
						1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1101	LS - Initial Delivery for all plants, materials & equipments	48d	09-May-15 A	30-Nov-15 A																									
<b>Central Control and Monitoring System (CCMS) and ELV System</b>																													
<b>Procurement &amp; Fabrication</b>																													
2286	CCMS - Initial Delivery for all plants, materials & equipments	60d	02-Oct-15 A	22-Dec-15	0d																								
12476	CCMS - FAT for all plants, materials & equipments	30d	23-Dec-15	21-Jan-16	0d																								
<b>Traffic Control and Surveillance System (TCSS)</b>																													
<b>Procurement &amp; Fabrication</b>																													
2294	TCSS - Initial Delivery for all plants, materials & equipments	90d	02-Oct-15 A	24-Dec-15	55d																								
12478	TCSS - FAT for all plants, materials & equipments	90d	16-Dec-15 A	07-Feb-16	10d																								
<b>Electrical System</b>																													
<b>Drawing Submission</b>																													
10566	ES - Power layout drawings submission (AECOM review & approval)	60d	20-Aug-14 A	03-Jan-16	175d																								
<b>Manufacture &amp; Delivery, FAT</b>																													
10548	ES - HV switchboard / Transformer Delivery	30d	17-Oct-15 A	30-Nov-15 A																									
10614	ES - MCC FAT	24d	06-Nov-15 A	21-Nov-15 A																									
10616	ES - MCC Delivery	30d	23-Nov-15 A	29-Dec-15	120d																								
<b>Building Services System</b>																													
<b>Shop Drawings / CSD / CBWD</b>																													
2306	BS(WVB) - Obtain Approval for Shop Drawings, CSD & CBWD	0d		20-Dec-15	592d																								
2314	BS(MVB) - Obtain Approval for Shop Drawings, CSD & CBWD	0d		20-Dec-15	636d																								
2318	BS(EVB) - Obtain Approval for Shop Drawings, CSD & CBWD	0d		20-Dec-15	592d																								
<b>MVAC Procurement, Manufacture &amp; Delivery, FAT</b>																													
11060	MVAC System - Manufacture & Deliver	44d	04-Nov-15 A	04-Jan-16	4d																								
<b>Drainage System Procurement, Manufacture &amp; Delivery, FAT</b>																													
10496	DR System - Manufacture & Deliver	66d	06-Jun-15 A	04-Jan-16	38d																								

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## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

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# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Gantt Chart											
						2015				2016				2016			
						Dec				Jan				Feb			
<b>Thermal Barriers</b>																	
<b>Procurement &amp; Fabrication</b>																	
12824	TB - Delivery for Thermal Barriers materials(remaining batches)	90d	27-Jun-15 A	28-Jan-16	277d												
<b>Petrol Filling System (Subject to construction details from AECOM)</b>																	
<b>Procurement &amp; Fabrication</b>																	
12670	Petrol Filling System - Issue PO for Petrol Filling System materials	0d	20-Dec-15		366d												
12672	Petrol Filling System - Delivery for Petrol Filling System materials	48d	20-Dec-15	05-Feb-16	366d												
<b>CONSTRUCTION</b>																	
<b>West Ventilation Building (WVB - related)</b>																	
<b>Tunnel Section (WVB-related)</b>																	
<b>Portion IIa, IIb &amp; IIc [CH1360 to CH1580]</b>																	
<b>Westbound</b>																	
12208	IIb&IIc(WB) - E&M brackets & VE Panels brackets (include protection) (1920m2)	21d	20-Jul-15 A	15-Jan-16	-50d												
4924a	IIb&IIc(WB) - Thermal Barrier installation (include protection removal) - 1st coat (1 team)	73d	03-Aug-15 A	15-Jan-16	-50d												
4924b	IIb&IIc(WB) - Thermal Barrier installation (include protection removal) - Final coat (1 team)	73d	16-Jan-16	21-Apr-16	-50d												
<b>Eastbound</b>																	
6124	IIb&IIc(EB) - Mobilisation & Setup	2d	16-Jan-16	18-Jan-16	15d												
12210	IIb&IIc(EB) - E&M brackets & VE Panels brackets (include protection) (1920m2)	21d	19-Jan-16	18-Feb-16	15d												
6126	IIb&IIc(EB) - Thermal Barrier installation (include protection removal) - 1 team	73d	19-Feb-16	20-May-16	15d												
<b>Portion Ib [CH1580 to CH1800]</b>																	
<b>Westbound</b>																	
12212	Ib(WB) - E&M brackets & VE Panels brackets (include protection) (2700m2)	30d	20-Jul-15 A	09-Jan-16	-6d												
4928b	Ib(WB) - Thermal Barrier installation (include protection removal) - Final coat (1 team)	73d	18-Sep-15 A	27-Jan-16	-21d												
5004	MEP(WB) - (CH1580 to CH1800) E&M 1st Fix	12d	28-Jan-16	17-Feb-16	-17d												
5012	MEP(WB) - (CH1580 to CH1800) E&M 2nd Fix	24d	18-Feb-16	16-Mar-16	-17d												

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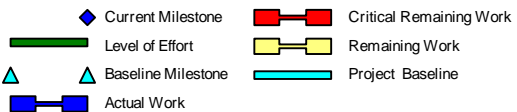
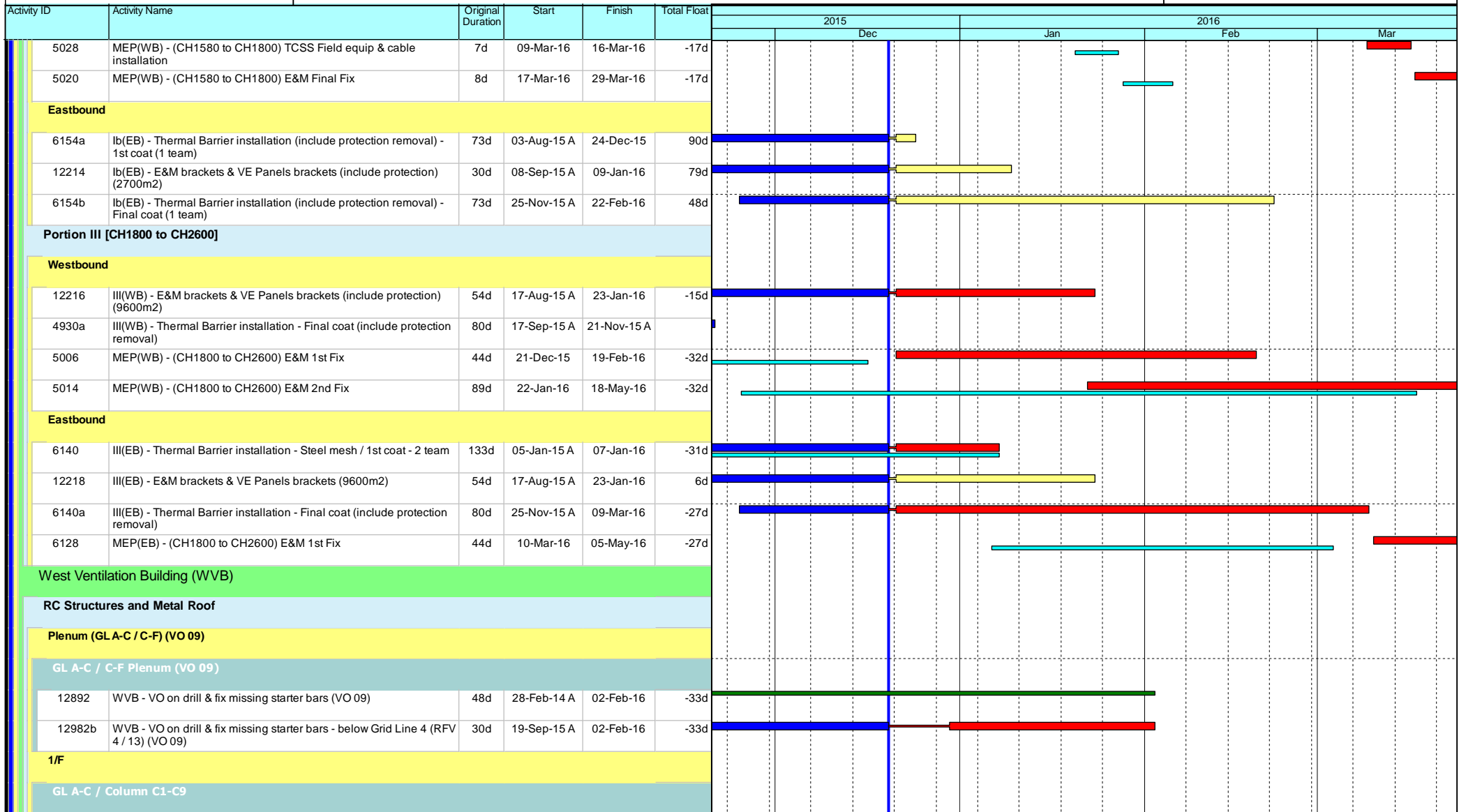
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# CWB(CC) - Commissioning Contract

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# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015				2016											
						Dec				Jan				Feb				Mar			
10350	WVB 1/F - Close formwork for beam & slab	4d	26-May-15 A	26-Jan-16	-57d																
10352	WVB 1/F - Concrete beam & slab	1d	27-Jan-16	27-Jan-16	-57d																
<b>L1-09 Computer Equipment Room</b>																					
12728	WVB 1/F (GL A-C) - Internal walls / Cast-in items	12d	03-Feb-16	23-Feb-16	-45d																
<b>L1 (GL A-C) Rooms / Corridors / Staircase</b>																					
10354	WVB 1/F (GL A-C) - Internal walls / Cast-in items	24d	03-Feb-16	08-Mar-16	-39d																
<b>R/F</b>																					
<b>GL C-F / Column C10-C18</b>																					
10008	WVB R/F - Close formwork for beam & slab	4d	28-Jan-16	01-Feb-16	-57d																
10010	WVB R/F - Concrete beam & slab (UR/F)	1d	02-Feb-16	02-Feb-16	-57d																
<b>L2-01 TV Plenum</b>																					
10402	WVB L2-01 - Internal walls / Cast-in items	6d	09-Mar-16	15-Mar-16	-12d																
10404	WVB L2-01 - RC curb for SFD	6d	16-Mar-16	22-Mar-16	-12d																
<b>L2 (GL C-F) Other Rooms / Corridors / Staircase</b>																					
10408	WVB R/F (GL C-F) - Internal walls / cast-in items	24d	16-Mar-16	16-Apr-16	-12d																
<b>Metal Roof</b>																					
10442	WVB - Installation of temporary roof support at tunnel portal	18d	18-Feb-16	09-Mar-16	-94d																
10440	WVB - Erection of 1st steel structure at tunnel portal	6d	10-Mar-16	16-Mar-16	-94d																
10444	WVB - Installation of steel truss at tunnel portal (connecting to the 1st steel structure)	18d	17-Mar-16	11-Apr-16	-94d																
<b>MEP &amp; ABWF Works</b>																					
3056	WVB - Waterproofing and roofing	12d	03-Feb-16	23-Feb-16	-45d																
3094	MEP(WVB) - Lift Installation	90d	24-Feb-16	23-May-16	77d																
<b>Basement</b>																					
<b>APS Auxiliary Room (B1-01)</b>																					
10634	WVB - ABWF works for APS auxiliary room	12d	19-Oct-15 A	02-Jan-16	5d																

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## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

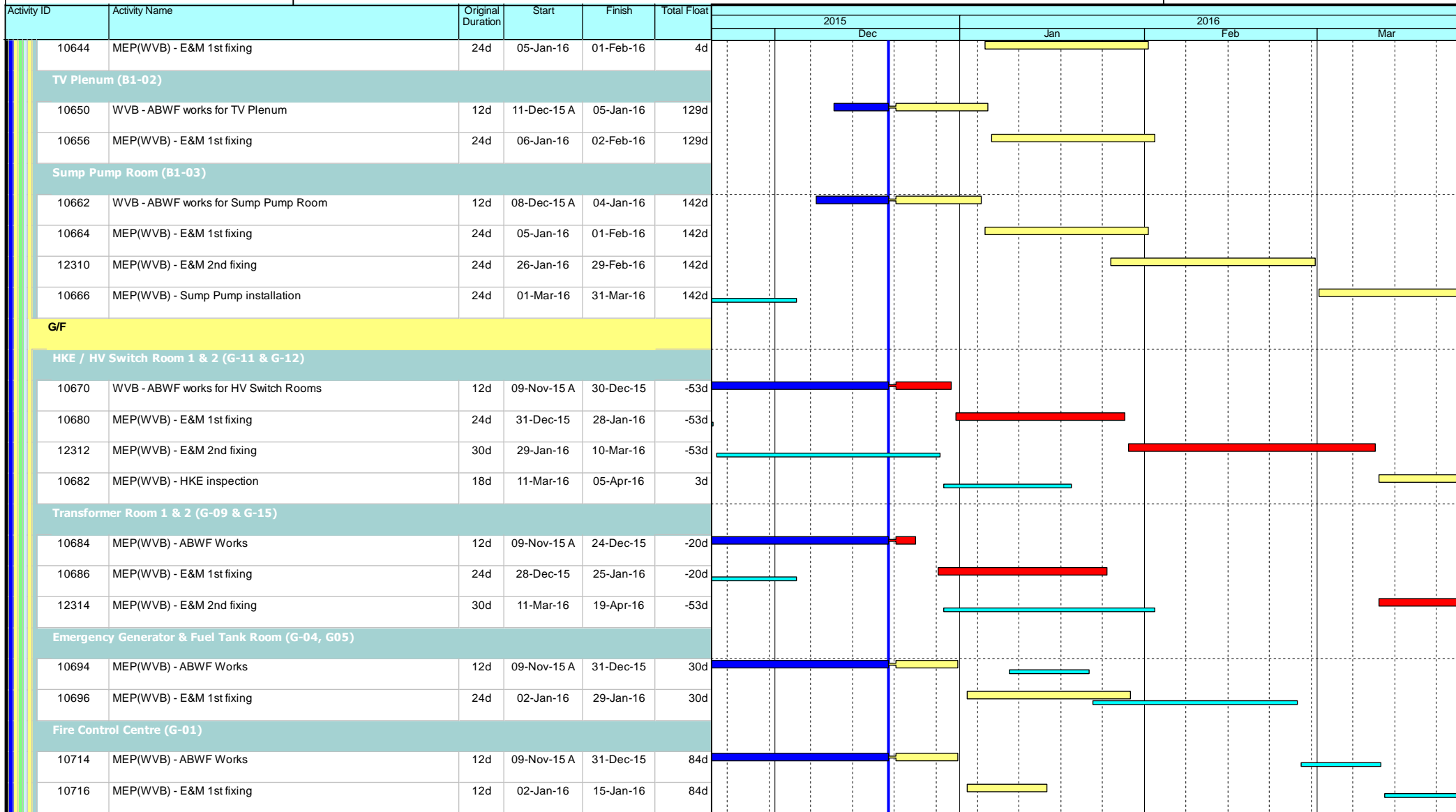
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# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.



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## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

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# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015				2016					
						Dec				Jan		Feb		Mar	
<b>Tunnel FS Pump Room (G-02)</b>															
10722	MEP(WVB) - ABWF Works	12d	09-Nov-15 A	31-Dec-15	60d	[Actual Work: 09-Nov-15 to 31-Dec-15]									
10724	MEP(WVB) - E&M 1st fixing	12d	02-Jan-16	15-Jan-16	60d					[Remaining Work: 02-Jan-16 to 15-Jan-16]					
<b>TVF Room (G-08)</b>															
10732	MEP(WVB) - ABWF Works	12d	02-Jan-16	15-Jan-16	60d					[Remaining Work: 02-Jan-16 to 15-Jan-16]					
10734	MEP(WVB) - E&M 1st fixing	12d	16-Jan-16	29-Jan-16	60d							[Remaining Work: 16-Jan-16 to 29-Jan-16]			
<b>FS Water Tank &amp; Pump Room (G-14)</b>															
10740	MEP(WVB) - ABWF Works	12d	03-Dec-15 A	31-Dec-15	96d	[Actual Work: 03-Dec-15 to 31-Dec-15]									
10742	MEP(WVB) - E&M 1st fixing	12d	02-Jan-16	15-Jan-16	96d					[Remaining Work: 02-Jan-16 to 15-Jan-16]					
<b>Pressurization Fan Room (G-16)</b>															
10748	MEP(WVB) - ABWF Works	12d	02-Jan-16	15-Jan-16	96d					[Remaining Work: 02-Jan-16 to 15-Jan-16]					
10750	MEP(WVB) - E&M 1st fixing	12d	16-Jan-16	29-Jan-16	96d							[Remaining Work: 16-Jan-16 to 29-Jan-16]			
<b>Fresh and Flushing Water Tank &amp; Pump Room (G-22)</b>															
10756	MEP(WVB) - ABWF Works	12d	09-Nov-15 A	31-Dec-15	120d	[Actual Work: 09-Nov-15 to 31-Dec-15]									
10758	MEP(WVB) - E&M 1st fixing	12d	02-Jan-16	15-Jan-16	120d					[Remaining Work: 02-Jan-16 to 15-Jan-16]					
<b>Rain Water &amp; Irrigation Water Tank &amp; Pump Room (G-23)</b>															
10766	MEP(WVB) - ABWF Works	12d	09-Nov-15 A	02-Jan-16	131d	[Actual Work: 09-Nov-15 to 02-Jan-16]									
10768	MEP(WVB) - E&M 1st fixing	12d	04-Jan-16	16-Jan-16	131d					[Remaining Work: 04-Jan-16 to 16-Jan-16]					
<b>General Area &amp; Corridor</b>															
10706	MEP(WVB) - ABWF Works	12d	09-Nov-15 A	02-Jan-16	137d	[Actual Work: 09-Nov-15 to 02-Jan-16]									
10708	MEP(WVB) - E&M 1st fixing	30d	04-Jan-16	06-Feb-16	137d					[Remaining Work: 04-Jan-16 to 06-Feb-16]					
<b>1/F</b>															
<b>LV Switch Room (L1-10)</b>															
10774	WVB - ABWF works for LV Switch Rooms	12d	09-Mar-16	22-Mar-16	-39d							[Remaining Work: 09-Mar-16 to 22-Mar-16]			
<b>TVF Room (L1-03)</b>															

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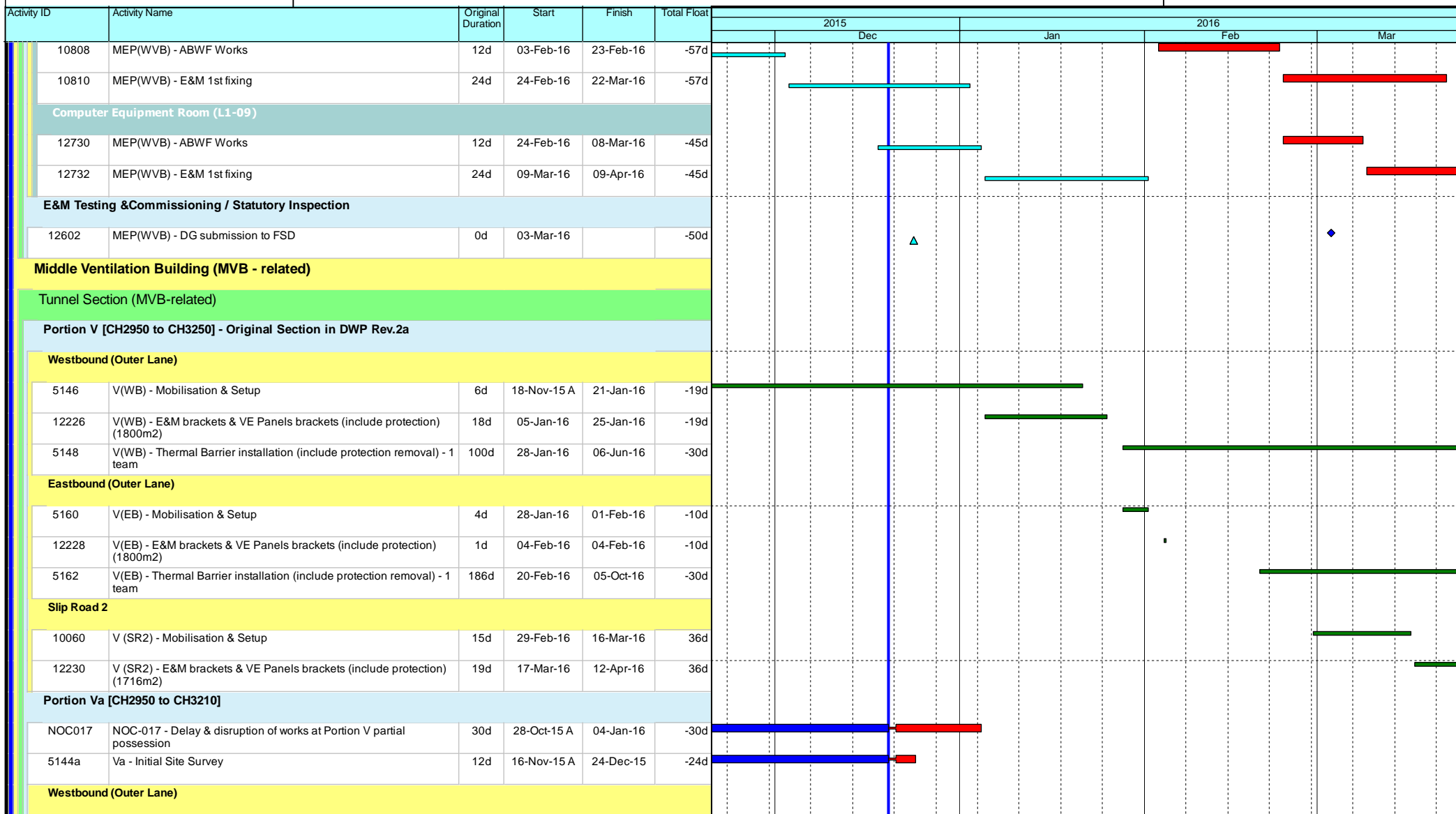
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# CWB(CC) - Commissioning Contract

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# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015											
						Dec											
						2016											
						Jan		Feb		Mar							
5146a	Va(WB) - Mobilisation & Setup	6d	18-Nov-15 A	24-Dec-15	-24d												
12226a	Va(WB) - E&M brackets & VE Panels brackets (include protection) (1800m2)	20d	05-Jan-16	27-Jan-16	-30d												
5148a	Va(WB) - Thermal Barrier installation (include protection removal) - 1 team	100d	28-Jan-16	06-Jun-16	-30d												
<b>Eastbound (Outer Lane)</b>																	
5160a	Va(EB) - Mobilisation & Setup	6d	28-Jan-16	03-Feb-16	44d												
12228a	Va(EB) - E&M brackets & VE Panels brackets (include protection) (1800m2)	20d	04-Feb-16	04-Mar-16	44d												
<b>Portion Vb [SR2 / SR3 / SCP3]</b>																	
5142b	Possession of Portion Vb	0d	29-Feb-16		738d												
5144b	Vb - Initial Site Survey	12d	29-Feb-16	12-Mar-16	738d												
<b>Slip Road 2</b>																	
10060b	Vb (SR2) - Mobilisation & Setup	15d	29-Feb-16	16-Mar-16	36d												
12230b	Vb (SR2) - E&M brackets & VE Panels brackets (include protection) (1716m2)	19d	17-Mar-16	12-Apr-16	36d												
<b>Portion Vc [CH3210 to CH3250]</b>																	
5142c	Possession of Portion Vc	0d	31-Dec-15		-19d												
5144c	Vc - Initial Site Survey	12d	31-Dec-15	14-Jan-16	-19d												
<b>Westbound (Outer Lane)</b>																	
5146c	Vc(WB) - Mobilisation & Setup	6d	15-Jan-16	21-Jan-16	-19d												
12226c	Vc(WB) -V E&M brackets & VE Panels brackets (include protection) (240m2)	3d	22-Jan-16	25-Jan-16	-19d												
5148c	Vc(WB) - Thermal Barrier installation (include protection removal) - 1 team	14d	28-Jan-16	19-Feb-16	-21d												
5132c	MEP(WB) - (CH3210 to CH3250) E&M 1st Fix	12d	20-Feb-16	04-Mar-16	-21d												
5134c	MEP(WB) - (CH3210 to CH3250) E&M 2nd Fix	18d	05-Mar-16	29-Mar-16	-21d												
<b>Eastbound (Outer Lane)</b>																	
5160c	Vc(EB) - Mobilisation & Setup	6d	26-Jan-16	01-Feb-16	-10d												
12228c	Vc(EB) - E&M brackets & VE Panels brackets (include protection) (240m2)	3d	02-Feb-16	04-Feb-16	-10d												
5162c	Vc(EB) - Thermal Barrier installation (include protection removal) - 1 team	14d	20-Feb-16	07-Mar-16	-17d												

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## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

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# CWB(CC) - Commissioning Contract

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Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015												2016											
						Dec						Jan						Feb						Mar					
5150c	MEP(EB) - (CH3210 to CH3250) E&M 1st Fix	12d	08-Mar-16	21-Mar-16	-17d																								
<b>Satellite Control Point 3</b>																													
<b>SCP3</b>																													
3750	SCP3 - Possession of Portion V	0d	29-Feb-16		10d																								
3752	SCP3 - Initial Site Survey	6d	29-Feb-16	05-Mar-16	10d																								
3754	SCP3 - Erect Hoarding	6d	07-Mar-16	12-Mar-16	10d																								
3756	SCP3 - Mobilisation and setup	12d	14-Mar-16	30-Mar-16	10d																								
<b>East Ventilation Building (EVB - related)</b>																													
<b>Tunnel Section (EVB-related)</b>																													
<b>Portion IXd [CH4600 to CH4860]</b>																													
<b>Westbound</b>																													
12250	IXd(WB) - E&M brackets & VE Panels brackets (include protection) (3300m2)	37d	07-Sep-15 A	25-Jan-16	60d																								
<b>Eastbound</b>																													
12252	IXd(EB) - E&M brackets & VE Panels brackets (include protection) (3300m2)	37d	24-Aug-15 A	25-Jan-16	41d																								
5322	IXd(EB) - Thermal Barrier installation (include protection removal) - 1 team	87d	08-Jan-16	29-Apr-16	-31d																								
<b>Portion IXa [CH4860 to CH5150]</b>																													
<b>Westbound</b>																													
12254	IXa(WB) - E&M brackets & VE Panels brackets (include protection) (3288m2)	37d	08-Sep-15 A	15-Jan-16	59d																								
5340	IXa(WB) - Thermal Barrier installation (include protection removal) - 1 team	97d	18-Mar-16	18-Jul-16	12d																								
<b>Eastbound</b>																													
12256	IXa(EB) - E&M brackets & VE Panels brackets (include protection) (3288m2)	37d	24-Aug-15 A	14-Jan-16	55d																								
5342	MEP(EB) - (CH4860 to CH5150) E&M 1st Fix	16d	18-Mar-16	09-Apr-16	7d																								
<b>East Ventilation Building (EVB)</b>																													
<b>Establishment Works</b>																													
3400	Possession of Portion IXb & IXc	0d	15-Feb-16		1d																								

- ◆ Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- ▲ Baseline Milestone
- Project Baseline
- Actual Work

## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

Project ID: H2613-U022  
 Baseline: DWP2a  
 Layout: Update Three Month Rolling U022  
 Page 14 of 16

Date	Revision	Checked	Appro...
20-Nov-15	U021	AT	CW
20-Dec-15	U022	AT	CW

Data Date: 20-Dec-15

# CWB(CC) - Commissioning Contract

TASK filters: 3 Months\_4, Not HL.

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2015												2016																																			
						Dec												Jan												Feb												Mar											
3402	EVB - Initial Site Survey	6d	15-Feb-16	20-Feb-16	1d																																																
3404	EVB - Erect Hoarding	6d	22-Feb-16	27-Feb-16	7d																																																
3406	EVB - Setup site monitoring station	6d	22-Feb-16	27-Feb-16	1d																																																
3416	EVB - As-built survey for existing EVB substructures	6d	22-Feb-16	27-Feb-16	1d																																																
3408	EVB - Baseline monitoring	12d	29-Feb-16	12-Mar-16	1d																																																
<b>RC Structures and Green Roof</b>																																																					
3410	EVB - Mobilisation & setup	6d	29-Feb-16	05-Mar-16	7d																																																
<b>G/F (GLA - D)</b>																																																					
3412	EVB G/F - Formwork for column / walls	8d	14-Mar-16	22-Mar-16	1d																																																
11508	EVB G/F - Rebar fixing for column / walls	6d	17-Mar-16	23-Mar-16	1d																																																
<b>Administration Building (ADB)</b>																																																					
<b>Establishment Works (Portion Xa)</b>																																																					
3600	Possession of Portion Xa	0d	21-Dec-15		-58d																																																
3602	ADB - Initial Site Survey	6d	21-Dec-15	29-Dec-15	-58d																																																
3604	ADB - Erect Hoarding	12d	30-Dec-15	13-Jan-16	-58d																																																
3606	ADB - Setup site monitoring station	12d	14-Jan-16	27-Jan-16	-58d																																																
3616	ADB - As-built survey for existing ADB substructures	6d	28-Jan-16	03-Feb-16	-58d																																																
3608	ADB - Baseline monitoring	12d	04-Feb-16	24-Feb-16	-58d																																																
<b>RC Structures (Portion Xa)</b>																																																					
3610	ADB (Xa) - Mobilisation & setup	6d	25-Feb-16	02-Mar-16	-58d																																																
10136	ADB (Xa) - Excavation to G/F formation level	24d	03-Mar-16	02-Apr-16	-58d																																																
<b>East Ventilation Shaft (EVS)</b>																																																					
<b>RC Structures / Metal Facade and Features</b>																																																					
3820a	EVS - Construct P1 Columns	42d	28-Jul-15 A	20-Nov-15 A																																																	
<b>ABWF Works</b>																																																					

- ◆ Current Milestone
- Critical Remaining Work
- Level of Effort
- Remaining Work
- ▲ Baseline Milestone
- Project Baseline
- Actual Work

## Leighton Contractors (Asia) Limited Programme Update 22 (December 2015) THREE MONTH ROLLING

Project ID: H2613-U022  
 Baseline: DWP2a  
 Layout: Update Three Month Rolling U022  
 Page 15 of 16

Date	Revision	Checked	Appro...
20-Nov-15	U021	AT	CW
20-Dec-15	U022	AT	CW

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Gantt Chart											
						2015				2016				2016			
						Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar
3822	EVS - ABWF (Wet Trade)	60d	21-Dec-15	09-Mar-16	-26d												
3826	EVS - ABWF (Dry Trade)	60d	10-Mar-16	25-May-16	-14d												
<b>MEP Works</b>																	
3834	MEP(EVS) - E&M Start	0d	10-Mar-16		-26d												
3836	MEP(EVS) - E&M 1st Fix	30d	10-Mar-16	18-Apr-16	-26d												
<b>External Works</b>																	
<b>Area A/B</b>																	
10288a2	Area A TCSS equipment installation and cabling (Gantry ADS01) - Start date is tentative and to be confirmed	40d	06-Feb-16	02-Apr-16	214d												
10288CI2	C18 gantry installation complete (ADS01)	0d		06-Feb-16*	0d												
10288a1	Area A TCSS equipment installation and cabling (Gantry FVMS 1) - After C18 gantry installation complete	40d	17-Feb-16	07-Apr-16	211d												
10288CI1	C18 gantry installation complete (FVMS 1)	0d		17-Feb-16*	0d												

- Current Milestone
- Level of Effort
- Baseline Milestone
- Actual Work
- Critical Remaining Work
- Remaining Work
- Project Baseline

**Leighton Contractors (Asia) Limited**  
**Programme Update 22 (December 2015)**  
**THREE MONTH ROLLING**

Project ID: H2613-U022  
 Baseline: DWP2a  
 Layout: Update Three Month Rolling U022  
 Page 16 of 16

Date	Revision	Checked	Appro...
20-Nov-15	U021	AT	CW
20-Dec-15	U022	AT	CW

Activity ID	Activity Name	Original Duration	Start	Finish	2015		2016		
					Dec	Jan	Feb	Mar	
<b>DWP-06 (A) - Three Months Rolling Programme_updated up to 20-Dec-15</b>									
<b>Key Dates</b>									
<b>Site Possession Dates</b>									
IECM	Instruction to proceed with Section 8 (IEC Abutment M)- subject to excision 945d	0	20-Dec-15*						
<b>Handover Dates (Contractual Date up to EOT-08)</b>									
HXVC	Handover of Portion XV	0	20-Dec-15*						
HVIC	Handover of Portion VI	0	20-Dec-15*						
HVIIC	Handover of Portion VII	0	20-Dec-15*						
HIIIC	Handover of Portion III	0	06-Jan-16*						
<b>Handover Dates (Programmed Date)</b>									
HXV	Handover of Portion XV	0	20-Dec-15						
HVI	Handover of Portion VI	0	16-Jan-16						
HVII	Handover of Portion VII	0	16-Jan-16						
HIII	Handover of Portion III	0	17-Jan-16						
<b>Stage / Section Completion of Works (Contractual Date up to EOT-08)</b>									
KD15C	KD15 - Completion of Section 9 of the Works (994d)	0	20-Dec-15*						
KD02C	KD2 - Achievement of Stage 2 (994d) (Plus 5 day EOT)	0	20-Dec-15*						
<b>Stage / Section Completion of Works (Programmed Date)</b>									
KD5	KD5 - Completion of Section 2 of the Works (849d)	0	20-Dec-15						
KD15	KD15 - Completion of Section 9 of the Works (994d)	0	20-Dec-15						
<b>Works in TS3</b>									
<b>Works in TS3-East</b>									
<b>Cut &amp; Cover Tunnel Structure</b>									
<b>TS3-East CCT - Ch.4500.000 to Ch.4582.140</b>									
<b>TS3 East CCT - Walls + Removal of Struts 7 &amp; 8</b>									
TS3E_6720	CCT Walls - Bay 8	10	08-Dec-15 A	21-Dec-15 A					
<b>TS3-East CCT - OHVD Cast In-Situ</b>									
TS3E_6870	TS3(E) Cast OHVD in situ - Bay 2	10	08-Dec-15 A	24-Dec-15 A					
TS3E_6860	TS3(E) Cast OHVD in situ - Bay 1	10	10-Dec-15 A	20-Dec-15 A					
TS3E_6930	TS3(E) Cast OHVD in situ - Bay 8	10	21-Dec-15 A	08-Jan-16					
TS3E_6920	TS3(E) Cast OHVD in situ - Bay 7	10	23-Dec-15 A	29-Dec-15					
<b>TS3 East CCT - Roof Slab</b>									
TS3E_6770	CCT Roof Slab - Bay 5	10	07-Dec-15 A	20-Dec-15 A					
TS3E_6780	CCT Roof Slab - Bay 6	10	12-Dec-15 A	25-Dec-15 A					
TS3E_6730	CCT Roof Slab - Bay 1	10	26-Dec-15 A	29-Dec-15					
TS3E_6740	CCT Roof Slab - Bay 2	10	28-Dec-15 A	04-Jan-16					
TS3E_6790	CCT Roof Slab - Bay 7	10	30-Dec-15	08-Jan-16					
TS3E_6800	CCT Roof Slab - Bay 8	10	09-Jan-16	18-Jan-16					
<b>TS3 East CCT - Roof Slab Waterproofing + Screeding</b>									
TS3E_6810	TS3(E) Waterproofing to Roof Slab - Bay 1 to Bay 4	12	24-Dec-15	04-Jan-16					
TS3E_6840	TS3(E) Screeding - Bay 1 to Bay 4	12	28-Dec-15	08-Jan-16					
TS3E_6820	TS3(E) Waterproofing to Roof Slab - Bay 6 to Bay 8	12	11-Jan-16	22-Jan-16					
TS3E_6850	TS3(E) Screeding - Bay 6 to Bay 8	12	13-Jan-16	24-Jan-16					
<b>TS3 East - Cable Trough</b>									
TS3E_6940	TS3(E) Cable Trough Bay 1-8	27	12-Jan-16	07-Feb-16					
<b>TS3 East - Cross Passage CP32 (CH4552 Westbound)</b>									
TS3E_6830	CP32 - Baase Slab	5	05-Jan-16	09-Jan-16					
TS3E_6950	CP32 - Wall	6	10-Jan-16	15-Jan-16					
TS3E_6960	CP32 - Roof Slab	8	16-Jan-16	23-Jan-16					



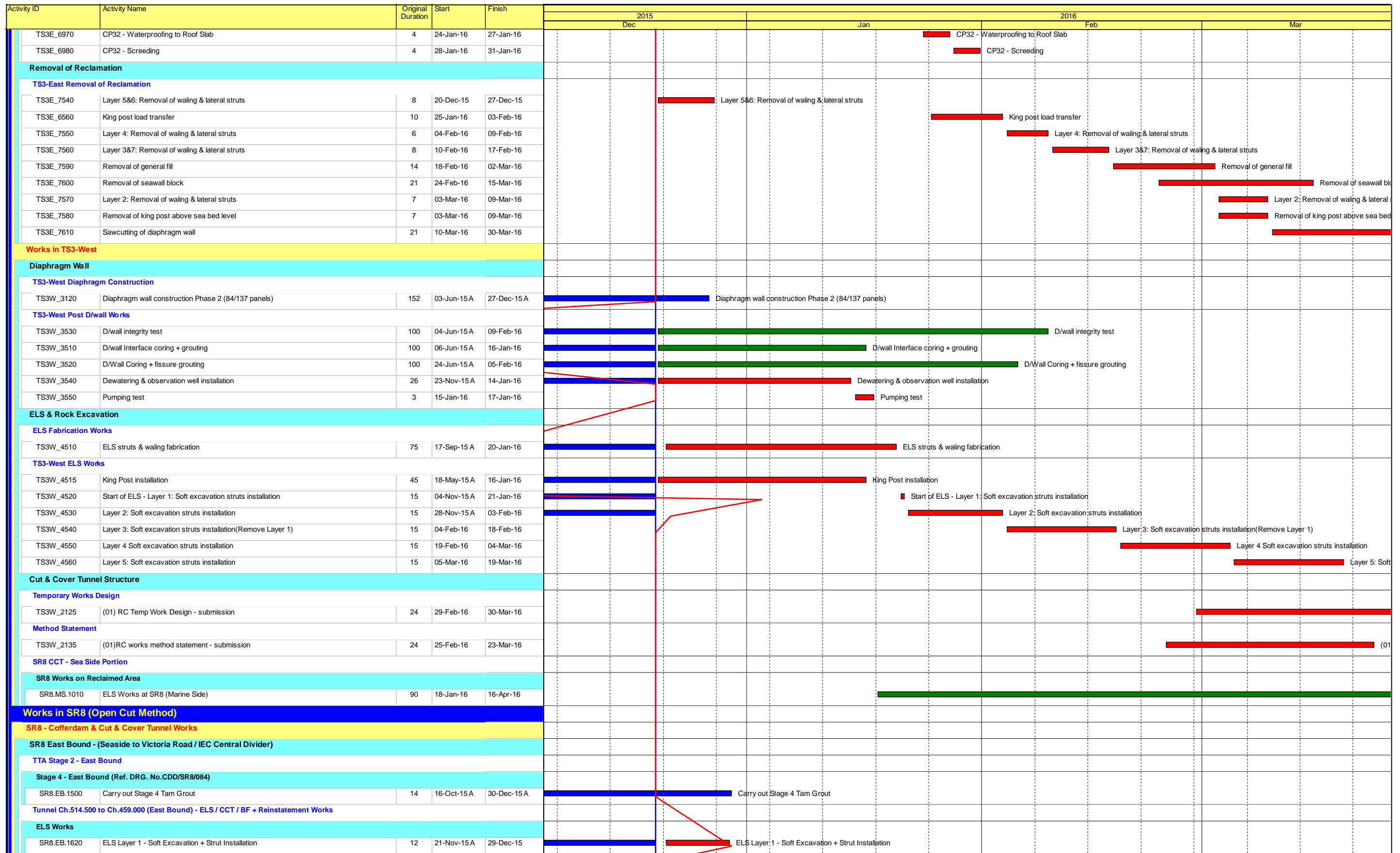
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

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

Date	Revision	Checked	Approved
20-Dec-15	Updated to 20th Dec 2015	DML/WC	





Activity ID	Activity Name	Original Duration	Start	Finish	2015			2016					
					Dec	Jan	Feb	Mar	Apr	May			
SR8.EB.1621	ELS Layer 2 - Soft Excavation + Strut Installation	12	30-Dec-15	13-Jan-16									
SR8.EB.1622	ELS Layer 3 - Soft Excavation + Strut Installation	12	14-Jan-16	27-Jan-16									
SR8.EB.1623	ELS Layer 4 - Soft Excavation + Strut Installation	12	28-Jan-16	13-Feb-16									
SR8.EB.1624	ELS Layer 5 - Soft Excavation + Strut Installation	12	15-Feb-16	27-Feb-16									
SR8.EB.1625	ELS Layer 6 - Soft Excavation + Strut Installation	12	29-Feb-16	12-Mar-16									
<b>Structural Works</b>													
<b>Blinding + Waterproofing</b>													
SR8.EB.1630	Blinding for Bay 1 to Bay 4	4	12-Mar-16	17-Mar-16									
SR8.EB.1670	Waterproofing - Bay 1 to Bay 4	4	17-Mar-16	21-Mar-16									
<b>SR8 West Bound - Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)</b>													
<b>Tunnel Ch.459.000 to 385.000 (West Bound) - ELS / CCT / BF+Reinstatement Works</b>													
<b>West Bound - ELS</b>													
SR8.WB.5080	ELS Layer 1 - Soft Excavation + Strut Installation	12	21-Nov-15 A	28-Jan-16 A									
SR8.WB.5130	ELS Layer 2 - Soft Excavation + Strut Installation	12	30-Nov-15 A	24-Dec-15									
SR8.WB.5140	ELS Layer 3 - Soft Excavation + Strut Installation	12	28-Dec-15	11-Jan-16									
SR8.WB.5150	ELS Layer 4 - Soft Excavation + Strut Installation	12	12-Jan-16	25-Jan-16									
SR8.WB.5160	ELS Layer 5 - Soft Excavation + Strut Installation	12	26-Jan-16	11-Feb-16									
<b>West Bound - CCT Structural Works</b>													
<b>Blinding + Waterproofing</b>													
SR8.WB.5090	Blinding for Bay 1 to Bay 8	9	11-Feb-16	22-Feb-16									
SR8.WB.5230	Waterproofing - Bay 1 to Bay 8	9	23-Feb-16	03-Mar-16									
<b>Base Slab + Drainage</b>													
SR8.WB.5180	Base Slab - Bay 1	8	04-Mar-16	12-Mar-16									
SR8.WB.5270	Base Slab - Bay 5	8	09-Mar-16	17-Mar-16									
SR8.WB.5240	Base Slab - Bay 2	8	14-Mar-16	22-Mar-16									
SR8.WB.5280	Base Slab - Bay 6	8	18-Mar-16	30-Mar-16									
<b>SR8 Ch.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)</b>													
<b>SR8 Tunnel - ELS / CCT / BF Works ( 7 Bays Ch. 385.000 to Ch.317.500)</b>													
<b>Portal Structure</b>													
<b>Base Slab + Drainage</b>													
SR8.VP.5160	Base Slab - Bay 7	8	21-Dec-15	31-Dec-15									
<b>Wall + Removal of Strut</b>													
SR8.VP.5170	Wall - Bay 1	10	21-Oct-15 A	30-Dec-15 A									
SR8.VP.5210	Wall - Bay 5	10	08-Dec-15 A	11-Jan-16									
SR8.VP.5220	Wall - Bay 6	10	08-Dec-15 A	12-Jan-16									
SR8.VP.5230	Wall - Bay 7	10	12-Jan-16	22-Jan-16									
<b>Roof Slab</b>													
SR8.VP.5280	Roof Slab - Bay 5	10	15-Dec-15 A	21-Jan-16									
SR8.VP.5290	Roof Slab - Bay 6	10	22-Jan-16	02-Feb-16									
SR8.VP.5300	Roof Slab - Bay 7	10	03-Feb-16	17-Feb-16									
<b>Gallery for EP01</b>													
SR8.VP.5310	Wall - Bay 1 to Bay 7	49	24-Dec-15	25-Feb-16									
SR8.VP.5320	Roof Slab - Bay 1 to Bay 7	70	13-Jan-16	11-Apr-16									
<b>Roof Slab Waterproofing + Screeding</b>													
SR8.VP.5330	Waterproofing to Roof Slab - Bay 1 to Bay 7	7	18-Feb-16	25-Feb-16									
SR8.VP.5340	Screeding - Bay 1 to Bay 7	7	26-Feb-16	04-Mar-16									
<b>Pump Sump E</b>													
SR8.VP.5380	Fill Up Void Up to Portal Base Slab Bottom	7	21-Dec-15	30-Dec-15									
SR8.VP.5390	Wall Up to Portal Roof Bottom	10	31-Dec-15	12-Jan-16									
SR8.VP.5400	Wall + Roof Slab	14	13-Jan-16	28-Jan-16									

- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

Date	Revision	Checked	Approved
20-Dec-15	Updated to 20th Dec 2015	DML/WC	

Activity ID	Activity Name	Original Duration	Start	Finish	2015				2016											
					Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar								
SR8.VP.5440	Slab for Pump Room	21	13-Jan-16	05-Feb-16																
SR8.VP.5410	Access Chamber above Roof	14	29-Jan-16	17-Feb-16																
SR8.VP.5450	Slab for Elec. Room	21	29-Jan-16	25-Feb-16																
SR8.VP.5420	Backfill to Ground Level	10	05-Mar-16	16-Mar-16																
SR8.VP.5430	Construct Two Discharge Manholes	10	17-Mar-16	31-Mar-16																
<b>Backfill &amp; Reinstatement Works Including Removal of Struttingss</b>																				
SR8.VP.5050	Layer 3&2: Removal of Waling & Struts	7	02-Jan-16	09-Jan-16																
SR8.VP.5350	Layer 1: Removal of Waling & Struts	7	16-Mar-16	24-Mar-16																
<b>SR8 Ch 317.500 to Ch 210.000 - U-Structure &amp; Slab (Victoria Park)</b>																				
<b>Excavation and Lateral Support</b>																				
SR8_2320	Remove Temporary Access to Bowling Green at Bay 3(CH230 to CH240) After Completion of BG & Pavilion	7	21-Dec-15	30-Dec-15																
<b>RC CCT &amp; Backfill Ch317.5000 to Ch240.000</b>																				
<b>Structure</b>																				
<b>Wall</b>																				
SR8_2120	Drainage Works	21	22-Feb-16	16-Mar-16																
<b>Utility Through</b>																				
SR8_2050	Utility Trough	48	21-Dec-15	20-Feb-16																
<b>Backfill &amp; Reinstatement Works Including Removal of Struts</b>																				
SR8_1920	SR8 U structure - Backfilling & Compaction + Removal of Struts & Sheet Pile	60	22-Feb-16	05-May-16																
SR8_1920.10	Backfill and Compaction to North side and South side of U- Structure & Remove Struts by layer	60	22-Feb-16	05-May-16																
<b>SR8 Structural Slab Ch.240.000 to Ch.210.000</b>																				
SR8_2090B	Wall Stern - Bay 3	7	31-Dec-15	08-Jan-16																
<b>Tsing Fung St - RW &amp; Subway Extension &amp; Toe Wall at Hing Fat St</b>																				
<b>Ret. Wall &amp; TF Subway Extension (Portion V)</b>																				
<b>Retaining Wall RW8C at Tsing Fung Street (Portion V)</b>																				
VP_1770	Install Steel Railing on Top of RW8C	14	20-May-15 A	11-Jan-16																
VP_1390	Demolish Top Portion of Existing Wall Head and Kerb	18	05-Jun-15 A	25-Jan-16																
VP_1400	Road Formation - Subbase + Kerb + U-shape Channel	48	25-Jan-16	24-Mar-16																
<b>Retaining Wall + Toe Wall at Hing Fat Street</b>																				
<b>Subway Extension at Tsing Fung Street (Portion VIII)</b>																				
VP_1375.50	TFS Subway extension - install Railing	8	05-Feb-16	13-Feb-16																
<b>East Side</b>																				
VP_1375.60.40	TFS Subway extension - Walls	18	21-Dec-15 A	11-Jan-16																
VP_1375.60.50	TFS Subway extension - Roof Slab	21	12-Jan-16	04-Feb-16																
<b>RC Works - Toe Wall (RW8E)</b>																				
VP_6160	Sheet Piling and Excavation to Formation level	45	21-Dec-15	17-Feb-16																
VP_6180	Blinding layer	36	10-Mar-16	25-Apr-16																
<b>Protection Works for IEC Abutment M</b>																				
<b>TTA (Submissions, Approvals and Implementation)</b>																				
ABUTM_0910	Preparation and submission	36	20-Dec-15	24-Jan-16																
ABUTM_0915	TMLG - review and approval	24	25-Jan-16	24-Feb-16																
ABUTM_0920	TTA drawing endorsement	0		24-Feb-16																
ABUTM_0925	Apply and receive RWA	12	25-Feb-16	09-Mar-16																
ABUTM_0930	Trial Run	1	10-Mar-16	10-Mar-16																
ABUTM_0935	Implement TTA for site access and piling works	1	11-Mar-16	11-Mar-16																
<b>Design Submissions</b>																				
ABUTM_0945	Prepare Shop Drawings for Temporary Works	24	20-Dec-15	12-Jan-16																
ABUTM_0955	Engineer's Review and Approval - Temp Works	24	12-Jan-16	12-Feb-16																
ABUTM_0965	Prepare Shop Drawings for Permanent Works	24	12-Jan-16	12-Feb-16																
ABUTM_0975	Engineer's Review and Approval - Permament Works	24	12-Feb-16	11-Mar-16																

Activity ID	Activity Name	Original Duration	Start	Finish	2015			2016		
					Dec	Jan	Feb	Mar		
<b>Method Statement</b>										
ABUTM_0900	(01)Protection works method statement - submission	24	13-Jan-16	05-Feb-16						
ABUTM_0940	(01)Protection works method statement - review and approval by AECOM	24	05-Feb-16	04-Mar-16						
<b>Protection Works</b>										
ABUTM_1060	Implement TTA for site access and piling works	0	21-Dec-15							
ABUTM_1000	Instruction to proceed with works received (945d)	0	21-Dec-15							
ABUTM_1020	Pre Bored H-pile at Victoria Rd - mobilization, set up + piling	30	12-Mar-16	20-Apr-16						
<b>Works in Victoria Park</b>										
<b>Re-Provisioning Works</b>										
VP_1560	KD5 - Completion of Section 2 of Works (BG & Pavilion)	0		20-Dec-15						
<b>Establishment Works for Landscape Softworks</b>										
<b>KD11 - Section 7A: Portion XIV &amp; XV (Victoria Park Open Space)</b>										
EW_1000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV	901	23-Feb-15 A	13-Feb-18						
<b>KD12 - Section 7B: Portion VI &amp; VII (Reprov. Bowling Green Area)</b>										
EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	365	03-Dec-15 A	02-Dec-16						
<b>Preservation and Protection of Trees</b>										
PPT_0000	Preservation and Protection of Existing Trees	1088	21-Mar-13 A	20-Nov-16						
<b>Mooring Components Upkeep (CBTS and ATS)</b>										
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Jan-17						
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	21-Jan-17						
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14 A	20-Dec-15						
MAR_1010	Completion of KD 15 - Section 9 (Works in Portion III)	0		20-Dec-15						
<b>Works for Public Works Regional Laboratory (North Lantau)</b>										
<b>Maintenance and Upkeep of New PWRL (Portion XVII)</b>										
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	21-Nov-17						