



**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-356/2009,  
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-02/356/2009,  
FEP-03/356/2009, FEP-04/356/2009  
FEP-06/356/2009, FEP-07/356/2009 AND FEP-08/356/2009**

**QUARTERLY ENVIRONMENTAL MONITORING  
AND AUDIT REPORT**

**- DECEMBER 2017 TO FEBRUARY 2018 -**

**CLIENTS:**

**Civil Engineering and Development  
Department**

**and**

**Highways Department**

**PREPARED BY:**

**Lam Geotechnics Limited**

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Raymond Dai  
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**DATE:**

27 March 2018

Ref.: AACWBIECEM00\_0\_10320L.18

6 April 2018

AECOM Asia Company Limited  
Engineer's Representative's Office  
25 Hung Hing Road,  
Causeway Bay,  
Hong Kong

By Post and Fax (2691 2649)

Attention: Mr. Peter Poon

Dear Sirs,

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

**Quarterly EM&A Report (December 2017 to February 2018) for  
EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009,  
FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009**

Reference is made to the Environmental Team's submission of the captioned Quarterly Environmental Monitoring and Audit (EM&A) Report for December 2017 to February 2018 received by e-mail on 27 March 2018.

Please be informed that we have no adverse comment on the captioned submission and thereby write to verify the captioned submission.

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

Yours sincerely,



David Yeung  
Independent Environmental Checker

Encl.

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C.c.

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**TABLE OF CONTENTS**

**EXECUTIVE SUMMARY ..... 3**

**1. INTRODUCTION ..... 7**

1.1 Scope of the Report ..... 7

1.2 Structure of the Report ..... 7

**2. PROJECT BACKGROUND..... 8**

2.1 Background ..... 8

2.2 Scope of the Project and Site Description ..... 8

2.3 Division of the Project Responsibility ..... 9

2.4 Project Organization and Contact Personnel ..... 11

2.5 Principal Work and Activities..... 13

**3. MONITORING REQUIREMENTS ..... 14**

3.1. Noise Monitoring ..... 14

3.2. Air Monitoring ..... 15

3.3 Water Quality Monitoring ..... 18

**4. MONITORING RESULTS..... 24**

4.1. Noise Monitoring Results ..... 24

4.2. Air Monitoring Results ..... 28

4.3 Water Monitoring Results ..... 31

4.4 Waste Monitoring Results ..... 36

**5. COMPLIANCE AUDIT ..... 43**

5.1. Noise Monitoring ..... 43

5.2. Air Monitoring ..... 44

5.3. Water Quality Monitoring ..... 45

5.4. Site Audit ..... 47

5.5. Review of the Reasons for and the Implications of Non-compliance ..... 47

5.6. Summary of action taken in the event of and follow-up on non-compliance ..... 48

**6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION..... 48**

**7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS... 50**

**8. CONCLUSION ..... 51**



**LIST OF TABLES**

<b>Table II</b>	<b><i>Principal Work Activities for Contract no. HK/2009/02</i></b>
<b>Table IV</b>	<b><i>Principal Work Activities for Contract no. HY/2009/19</i></b>
<b>Table V</b>	<b><i>Principal Work Activities for Contract no. HK/2012/08</i></b>
<b>Table VI</b>	<b><i>Principal Work Activities for Contract no. HY/2010/08</i></b>
<b>Table 2.1</b>	<b><i>Schedule 2 Designated Projects under this Project</i></b>
<b>Table 2.2</b>	<b><i>Details of Individual Contracts under the Project</i></b>
<b>Table 2.3</b>	<b><i>Contact Details of Key Personnel</i></b>
<b>Table 2.5</b>	<b><i>Principal Work Activities for Contract no. HK/2009/02</i></b>
<b>Table 2.7</b>	<b><i>Principal Work Activities for Contract no. HY/2009/19</i></b>
<b>Table 2.8</b>	<b><i>Principal Work Activities for Contract no. HK/2012/08</i></b>
<b>Table 2.9</b>	<b><i>Principal Work Activities for Contract no. HY/2010/08</i></b>
<b>Table 3.1</b>	<b><i>Noise Monitoring Stations</i></b>
<b>Table 3.2</b>	<b><i>Air Monitoring Stations</i></b>
<b>Table 3.3</b>	<b><i>Marine Water Quality Stations for Water Quality Monitoring</i></b>
<b>Table 3.4</b>	<b><i>Marine Water Quality Monitoring Frequency and Parameters</i></b>
<b>Table 3.5</b>	<b><i>Marine Water Quality Stations for Enhanced Water Quality Monitoring</i></b>
<b>Table 4.1</b>	<b><i>Noise Monitoring Station for Contract nos. HK/2009/02</i></b>
<b>Table 4.3</b>	<b><i>Noise Monitoring Stations for Contract no. HY/2009/19</i></b>
<b>Table 4.4</b>	<b><i>Noise Monitoring Stations for Contract no. HY/2010/08</i></b>
<b>Table 4.6</b>	<b><i>Air Monitoring Station for Contract no. HK/2009/02</i></b>
<b>Table 4.8</b>	<b><i>Air Monitoring Stations for Contract no. HY/2009/19</i></b>
<b>Table 4.9</b>	<b><i>Air Monitoring Station for Contract no. HK/2012/08</i></b>
<b>Table 4.10</b>	<b><i>Air Monitoring Stations for Contract no. HY/2010/08</i></b>
<b>Table 4.12</b>	<b><i>Water Monitoring Stations for Contract no. HK/2009/02</i></b>
<b>Table 4.13</b>	<b><i>Water Monitoring Stations for Contract no. HK/2012/08</i></b>
<b>Table 4.16</b>	<b><i>Water quality monitoring Stations for Contract no. HY/2010/08</i></b>
<b>Table 4.17</b>	<b><i>Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2010/08</i></b>
<b>Table 4.18</b>	<b><i>Details of Waste Disposal for Contract no. HK/2009/01</i></b>
<b>Table 4.19</b>	<b><i>Details of Waste Disposal for Contract no. HK/2009/02</i></b>
<b>Table 4.20</b>	<b><i>Details of Waste Disposal for Contract no. HY/2009/15</i></b>
<b>Table 4.21</b>	<b><i>Details of Waste Disposal for Contract no. HY/2009/19</i></b>
<b>Table 4.22</b>	<b><i>Details of Waste Disposal for Contract no. HK/2012/08</i></b>
<b>Table 4.23</b>	<b><i>Details of Waste Disposal for Contract no. HY/2010/08</i></b>
<b>Table 6.1</b>	<b><i>Cumulative Statistics on Complaints</i></b>
<b>Table 6.2</b>	<b><i>Cumulative Statistics on Successful Prosecutions</i></b>

**LIST OF FIGURES**

<u>Figure 2.1</u>	Project Layout
<u>Figure 2.2</u>	Project Organization Chart
<u>Figure 3.1</u>	Locations of Environmental Monitoring Stations

**LIST OF APPENDICES**

<u>Appendix 2.1</u>	Environmental Mitigation Implementation Schedule
<u>Appendix 3.1</u>	Action and Limit Level
<u>Appendix 4.1</u>	Noise Monitoring Graphical Presentations
<u>Appendix 4.2</u>	Air Quality Monitoring Graphical Presentations
<u>Appendix 4.3</u>	Water Quality Monitoring Graphical Presentations
<u>Appendix 5.1</u>	Event Action Plans
<u>Appendix 6.1</u>	Complaint Log
<u>Appendix 7.1</u>	Construction Programme of Individual Contracts

**EXECUTIVE SUMMARY**

- i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – [December 2017 to February 2018](#) prepared for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring and audit findings and information during the period from [27<sup>th</sup> December 2017 to 26<sup>th</sup> February 2018](#). The cut-off date of reporting is at 26<sup>th</sup> of each reporting period.

Construction Activities for the Reported Period

- ii. Contract no. HK/2009/02 was commenced on 5 July 2010. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized as below:

**Table II Principal Work Activities for Contract no. HK/2009/02**

December 2017	January 2018	February 2018
• Nil	• Nil	• Nil

- iii. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

**Table IV Principal Work Activities for Contract no. HY/2009/19**

December 2017	January 2018	February 2018
• Nil	• Nil	• Nil

- iv. Contract no. HK/2012/08 was commenced on 5 March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:

**Table V Principal Work Activities for Contract no. HK/2012/08**

December 2017	January 2018	February 2018
• <a href="#">Trimming of rock level</a>	• <a href="#">Trimming of rock level</a>	• <a href="#">Trimming of rock level</a>

- v. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

**Table VI Principal Work Activities for Contract no. HY/2010/08**

December 2017	January 2018	February 2018
<ul style="list-style-type: none"> <li>• <a href="#">Diversion pipe maintenance</a></li> <li>• <a href="#">Diaphragm Wall Removal Works</a></li> <li>• <a href="#">Removal of reclamation at TS3E and TS3W</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Diversion pipe maintenance</a></li> <li>• <a href="#">Diaphragm Wall Removal Works</a></li> <li>• <a href="#">Removal of reclamation at TS3E and TS3W</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Diversion pipe maintenance</a></li> <li>• <a href="#">Seawall reinstatement</a></li> </ul>

### Noise Monitoring

- vi. With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- vii. Noise monitoring during day time and evening time were conducted at the M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting period. The Action and Limit level exceedances recorded in the reporting period are listed below. Investigation found that exceedances were not related to the Project.
- viii. With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a – Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge at Harbour Road Sports Centre for noise monitoring.
- ix. Two limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Centre on 4 and 11 December 2017 in the December 2017 reporting period. After the investigation, the exceedances were concluded as non-Project related.
- x. Two limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 08 and 20 December 2017 in the December 2017 reporting period. The exceedance recorded on 08 was concluded as non-Project related while the exceedance recorded on 20 December 2017 was concluded as Project related.
- xi. Three limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Centre on 29 December 2017, 16 and 23 January 2018 in the January 2018 reporting month. After the investigation, the exceedances were concluded as non-Project related.
- xii. One limit level exceedances was recorded at M1a – Footbridge for Harbour Road Sports Centre on 2 February 2018 in the February 2018 reporting month. After the investigation, the exceedance was concluded as non-Project related.

### Air Quality Monitoring

- xiii. One 24hr TSP action level exceedance was recorded at CMA5b – Pedestrian Plaza on 11 December 2017 in the December 2017 reporting month and the exceedance was concluded as non-Project related.
- xiv. Two 1hr TSP action level exceedances were recorded at CMA5b – Pedestrian Plaza on 12 and 23 December 2017 in the December 2017 reporting month and the exceedances were concluded as non-Project related.
- xv. One 1hr TSP action level exceedance were recorded at CMA5b – Pedestrian Plaza on 29 December 2017 in the January 2018 reporting month. After the investigation, the exceedance was concluded as non-Project related.
- xvi. No action or limit level exceedance was recorded in the February 2018 reporting month.
- xvii. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016
- xviii. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xix. With respect to the area handover, the air quality monitoring station CMA5a at Children Playgrounds opposite to the Pedestrian Plaza was relocated to the Pedestrian Plaza on 3

- December 2014. The station reference and location ID of the air quality monitoring station CMA5a was updated as CMA5b and Pedestrian Plaza respectively.
- xx. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.
- Water Quality Monitoring
- xxi. Based on Contractor confirmed site information on no marine construction activities on 01 January 2018, the respective scheduled water quality monitoring event at all WQM stations and enhanced DO monitoring was temporary suspended on 01 January 2018 during ebb tide and flood tide accordingly.
- xxii. Based on Contractor confirmed site information on no marine construction activities on 17 February 2018, the respective scheduled water quality monitoring event at all WQM stations was temporary suspended on 17 February 2018 during ebb tide and flood tide accordingly.
- xxiii. Due to temporarily site closure and road closure around the SCL project site on 27 January 2018 with respect to the explosive discovery at the aforementioned construction site, the scheduled water quality monitoring event at WQM station RW21-P789 on 27 January 2018 during flood tide and ebb tide were cancelled.
- xxiv. 13 action level and 17 limit level exceedances of Turbidity; and 1 action level and 3 limit level exceedances of Suspended Solid were recorded in the December 2017 reporting period. After investigation, 1 limit level exceedance of turbidity recorded at monitoring station C7 on 01 December 2017 during ebb tide and 1 limit level exceedance of turbidity and 1 limit level exceedance of suspended solid recorded at monitoring station C7 on 01 December 2017 during flood tide were considered as related to Project works under Contract HY/2010/08. 1 limit level exceedance of turbidity and 1 limit level exceedance of suspended solid recorded at monitoring station C7 on 16 December 2018 during flood tide were considered as related to Project works under Contract HY/2010/08. Other exceedances recorded in the reporting period were considered as non-project related.
- xxv. 5 action level and 2 limit level exceedances of Turbidity were recorded in the January 2018 reporting month. After investigation, the exceedances were concluded as non-Project related.
- xxvi. One limit level exceedance of Turbidity and one limit level exceedance of Suspended Solids were recorded in the February 2018 reporting month. After investigation, the exceedances were concluded as non-project related.
- xxvii. Referring to CWB RSS confirmation on the completion of marine construction activities within the Ex-PCWA area and the completion of the post construction water quality monitoring, the respective Enhance DO Monitoring within Ex-PCWA for monitoring station Ex-PCWA SE and Ex-PCWA SW was temporarily suspended since 07 March 2017 ebb tide onwards.
- xxviii. With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.
- xxix. With respect to the removal of silt screen at WQM station RW21-P789 on 26 November 2016, the respective water quality monitoring at RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.

- xxx. With respect to the temporarily suspension of marine construction works at WCR3 Area by Contract HK/2009/02, the installed silt screen for intake group (P7, P8, P9 and WSD21) was removed on 26 November 2016.
- xxxi. As advised by the Contractor of HK/2009/01, all silt screen remains removal works at P1, P3, P4, P5 and C1 water quality monitoring stations were completed on 8 May 2016.
- xxxii. With respect to the marine works undertaken at WCR3 by Contract HK/2009/02, the respective water quality monitoring station C1 associated with Contract HK/2009/01 was updated as in association with Contract HK/2009/01 and Contract HK/2009/02.
- xxxiii. With respect to the marine works undertaken at CBTS by Contract HY/2010/08, the respective water quality monitoring station C7 associated with Contract HY/2009/15 was updated as in association with Contract HY/2009/15 and Contract HY/2010/08.
- xxxiv. With respect to the marine works undertaken at HKCEC2 by Contract HK/2012/08, the respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08.
- xxxv. With respect to the formation of temporary reclamation zone TS3, Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014.
- xxxvi. With respect to the completion of removal of temporary reclamation zone, Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was resumed from 1 February 2018 onwards.
- xxxvii. Enhanced DO monitoring at 1 monitoring station in Causeway Bay Typhoon Shelter was conducted three days per week during the December 2017 and January 2018 reporting period.
- xxxviii. Enhanced DO monitoring at 2 monitoring station in Causeway Bay Typhoon Shelter was conducted three days per week during the February 2018 reporting period.
- xxxix. No action and limit level exceedance recorded for enhanced dissolved oxygen monitoring in the December 2017, January 2018 and February 2018 reporting period.

Complaints, Notifications of Summons and Successful Prosecutions

- xi. No environmental complaint was received in the December 2017, January 2018 and February 2018 reporting period.

## 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-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009 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 10.4 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 during the period from [27<sup>th</sup> December 2017](#) to [26<sup>th</sup> February 2017](#).

### 1.2 Structure of the Report

- Section 1**      ***Introduction*** – details the scope and structure of the report.
- Section 2**      ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3**      ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring locations, monitoring frequency, duration and action plan.
- Section 4**      ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.
- Section 5**      ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 6**      ***Complaints, Notification of summons and Prosecution*** – summarizes the cumulative statistics on complaints, notification of summons and prosecution
- 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**      ***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 Designed 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. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in **Figure 2.1**.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
- Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
  - Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above



- Extension, modification, re-provisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above
- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.

2.2.4. 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, the status of permits and/or licences under the individual contract(s) are presented as below:

Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass over MTR Tsuen Wan Line under FEP-05/356/2009

2.3.2 The construction works were completed and the FEP-05/356/2009 was surrendered by the Contractor on 3 October 2014.



Contract no. HY/2009/11 – Wan Chai Development Phase II – Central – Wan Chai Bypass - North Point Reclamation

- 2.3.3 The construction works were completed and the FEP-01/356/2009 was surrendered by the Contractor on 22 October 2012.
- 2.3.4 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 (FEP) 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.
- 2.3.5 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
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010 (Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)
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	10 March 2014
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1, DP2, DP3	5 March 2013
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

## 2.4 Project Organization and Contact Personnel

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

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

**Table 2.3 Contact Details of Key Personnel**

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
		Environmental Officer	Mr. Terry Tsang	6683 9394	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Paul Yu	3658 3085	2827 9996
		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Mr. Chris Leung	3557 6393	2566 2192
		Site Agent	Mr. Patrick Ho	3557 6405	
		Construction Manager	Mr. Tom Tong	3557 6415	
		Environmental Officer	Mr. Desmond Ho	3557 6347	
		Environmental Supervisor	Mr. Gordon Lai	6145 6365	
Chun Wo - CRGL - MBEC Joint Venture	Contractor under Contract no. HY/2009/19	Site Agent	Mr. David Lau	3758 8879	2570 8013
		Deputy Site Agent	Mr. Andy Chan	9879 4325	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Construction Manager (Marine)	Mr. Wingo Wong	9608 6366	
		Construction Manager (Land)	Mr. Ray Ho	9834 1010	



Party	Role	Post	Name	Contact No.	Contact Fax
		Construction Manager (Land)	Mr. Yung Kwok Wah	9834 1010	
		Construction Manager (Ext. Works)	Mr. Paul Wan	6629 4652	
		Construction Manager (Approach Ramp Phase 1)	Mr. Billy Lam	9288 0405	
China State-Build King Joint Venture	Contractor under Contract no. HK/2012/08	Project Director	Mr. C. N. Lai	9106 5806	2877 1522
		Project Manager	Mr. George Cheung	9268 1918	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Mr. Y. L. Ho	9856 5669	
China State	Contractor under Contract no. HY/2010/08	Project Director	Mr. Chris Leung	3467 4299	2566 8061
		Project Manager	Mr. Chan Ying Lun	3418 3001	
		Site Agent	Mr. Thomas Lui	3557 6452	
		Marine Manager	Mr. Nickael Chan	3557 6333	
		Construction Manager	Mr. Tom Tong	3557 6415	
		Environmental Officer	Mr. Gabriel Wong	3557 6466	
Ramboll Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

## 2.5 Principal Work and Activities

2.5.1. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized in **Table 2.5**.

**Table 2.5 Principal Work Activities for Contract no. HK/2009/02**

December 2017	January 2018	February 2018
• Nil	• Nil	• Nil

2.5.2. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

**Table 2.7 Principal Work Activities for Contract no. HY/2009/19**

December 2017	January 2018	February 2018
• Nil	• Nil	• Nil

2.5.3. Contract no. HK/2012/08 was commenced on March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:

**Table 2.8 Principal Work Activities for Contract no. HK/2012/08**

December 2017	January 2018	February 2018
• Trimming of rock level	• Trimming of rock level	• Trimming of rock level

2.5.4. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

**Table 2.9 Principal Work Activities for Contract no. HY/2010/08**

December 2017	January 2018	February 2018
<ul style="list-style-type: none"> <li>• Diversion pipe maintenance</li> <li>• Diaphragm Wall Removal Works</li> <li>• Removal of reclamation at TS3E and TS3W</li> </ul>	<ul style="list-style-type: none"> <li>• Diversion pipe maintenance</li> <li>• Diaphragm Wall Removal Works</li> <li>• Removal of reclamation at TS3E and TS3W</li> </ul>	<ul style="list-style-type: none"> <li>• Diversion pipe maintenance</li> <li>• Seawall reinstatement</li> </ul>

2.5.5. Implementation status of the recommended mitigation measures during this reporting period is presented in **Appendix 2.1**.

### 3. MONITORING REQUIREMENTS

#### 3.1. Noise Monitoring

##### NOISE MONITORING STATIONS

- 3.1.1. The noise monitoring stations for the Project are listed and shown in **Table 3.1** and **Figure 3.1**. **Appendix 3.1** shows the established Action/Limit Levels for the monitoring works.

**Table 3.1 Noise Monitoring Stations**

Station	Description
M1a	Footbridge at Ex-Harbour Road Sports Centre*
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

Remarks\*: With respect to the demolition of Ex-harbour Road Sports Centre, the respective noise monitoring station M1a- Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge at Harbour Road Sports Centre for noise monitoring.

##### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq(30\text{ minutes})}$  shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods,  $L_{eq(5\text{ minutes})}$  shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 3.1.3. 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.
- 3.1.4. 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.
- 3.1.5. 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 daily 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.

**MONITORING EQUIPMENT**

- 3.1.6. 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.
- 3.1.7. 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.

**3.2. Air Monitoring**

**AIR QUALITY MONITORING STATIONS**

- 3.2.1. The air monitoring stations for the Project are listed and shown in **Table 3.2** and **Figure 3.1**. **Appendix 3.1** shows the established Action/Limit Levels for the monitoring works.

**Table 3.2 Air Monitoring Stations**

Station ID	Monitoring Location	Description
CMA1b	Oil Street Site Office**	North Point
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
CMA6a	WDII PRE Site Office *	Wan Chai

Remarks\*: As per the ENPC meeting in January 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade and CMA6a - Future AECOM site office at Work Area were 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 MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.2.2. 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.
- 3.2.3. 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.
- 3.2.4. 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

- 3.2.5 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.
- 3.2.6 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

- 3.2.7 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.
- 3.2.8 An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 3.2.9 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.
- 3.2.10 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.
- 3.2.11 All the collected samples shall be kept in a good condition for 6 months before disposal.

#### IMPACT MONITORING FOR ODOUR PATROL

- 3.2.12 Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
- be at least 16 years of age;
  - be free from any respiratory illnesses; and
  - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min before and during odour patrol
- 3.2.13 Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in **Figure 3.1** to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 3.2.14 The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 3.2.15 The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:



- 0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
- 1 - Slight Identifiable odour, and slight chance to have odour nuisance;
- 2 - Moderate Identifiable odour, and moderate chance to have odour nuisance;
- 3 - Strong Identifiable, likely to have odour nuisance;
- 4 - Extreme Severe odour, and unacceptable odour level.

3.2.16 The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in **Appendix 3.1**.

### 3.3 Water Quality Monitoring

3.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.

3.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April – September) will be effected and applied to the water quality monitoring data from 30 April 2011.

#### Water Quality Monitoring Stations

3.3.3. Water quality monitoring was undertaken at WSD salt water intakes and cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in **Table 3.3** and **Figure 3.1**. **Appendix 3.1** shows the established Action/Limit Levels for the monitoring works.

**Table 3.3 Marine Water Quality Stations for Water Quality Monitoring**

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
WSD19	Sheung Wan	833415.0	816771.0
<b>Cooling Water Intake</b>			
C1	HKCEC Extension	835885.6	816223.0
C7	Windsor House	837193.7	816150.0
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2

Station Ref.	Location	Easting	Northing
<b>Cooling Water Intake / WSD Salt Water Intake</b>			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake	836268.0	816020.0

- Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- 4-week post construction water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012 and the water quality monitoring at WSD 10 and WSD15 were temporary suspended since 8 Feb 2012, and WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 2012 onwards.
  - C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
  - C8 & C9 were temporary suspended since 30 March 2013.
  - WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
  - C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
  - C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013.
  - WSD21 water quality monitoring station was temporarily suspended since 12 Mar 2014
  - WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 Sep 2014 flood tide.
  - The water quality monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area
  - The water quality monitoring station RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
  - The water quality monitoring was reverted to previous monitoring station RW21-P789 from RW21-P789E and RW21-P789W from 25 January 2017 onwards.

### WATER QUALITY PARAMETERS AND FREQUENCY

- 3.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ while SS is determined in laboratory.
- 3.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.
- 3.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. **Table 3.4** shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

**Table 3.4 Marine Water Quality Monitoring Frequency and Parameters**

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
During the 4-week baseline monitoring period	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

Notes:

1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

**DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT**

3.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:

- a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
- a temperature of 0-45 degree Celsius

3.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

3.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

**TURBIDITY MEASUREMENT INSTRUMENT**

3.3.10 The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

**SAMPLER**

3.3.11 Water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

### SAMPLE CONTAINER AND STORAGE

- 3.3.12 Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

### WATER DEPTH DETECTOR

- 3.3.13 A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

### SALINITY

- 3.3.14 A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

### MONITORING POSITION EQUIPMENT

- 3.3.15 A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

### CALIBRATION OF IN-SITU INSTRUMENTS

- 3.3.16 All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 3.3.17 For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 3.3.18 Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

### LABORATORY MEASUREMENT / ANALYSIS

- 3.3.19 Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

**ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER**

- 3.3.20 The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 3.3.21 Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in **Table 3.5** and **Figure 3.1**.

**Table 3.5 Marine Water Quality Stations for Enhanced Water Quality Monitoring**

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

Remarks:

1. Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and was resumed from 1 February 2018 onward with respect to the completion of removal of temporary reclamation zone.
  2. Enhanced DO monitoring at Monitoring station at Ex-WPCWA SE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area. The Enhance DO monitoring at Ex-WPCWA SE was resumed on 11 May 2016 due to completed section of seawall reinstatement works are Ex-PCWA.
- 3.3.22 The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be less than 3m, only the mid-depth will be monitored).

**DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM**

- 3.3.23 During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 3.3.24 The 24 hours monitoring of turbidity at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data shall be downloaded

daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

ADDITIONAL DISSOLVED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

- 3.3.25 In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 3.3.26 With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 3.3.27 The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

#### 4. MONITORING RESULTS

- 4.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed 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 3.1](#). The monitoring results are presented in according to the Individual Contract(s).
- 4.0.2. According to EP-364/2009/A Part B, “Scale and Scope of Designated Project”, Remarks (c), “The permanent and temporary reclamation and associated dredging works related to the CWB construction are separately covered by environmental permit No. EP-356/2009 issued to Civil Engineering and Development Department”, and marine piling works to be conducted by the Contractor of Contract no. HY/2009/19 from 28 January 2012 was considered to be governed under EP-356/2009. As the construction site area of Contract no. HY/2009/11 had already been handed over to Contract no. HY/2009/19, the designated noise, water and air quality monitoring stations for Contract no. HY/2009/11 would be shared with Contract no. HY/2009/19 from 28 January 2012.
- 4.0.3. As confirmed by WDII RSS, the marine construction works under Contract HK/2009/01 have been completed since 24 July 2017, the monitoring association with Contract HK/2009/01 and relevant reporting has been ceased from November 2017.
- 4.0.4. As confirmed by CWB RSS, the marine construction works under Contract HY/2009/15 and relevant reporting have been completed by 19 June 2017, the monitoring association with Contract HY/2009/15 and relevant reporting has been ceased from November 2017.

#### 4.1. Noise Monitoring Results

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

- 4.1.1. The proposed divisions of noise monitoring stations are summarized in **Table 4.1** below.

**Table 4.1 Noise Monitoring Station for Contract nos. HK/2009/02**

Station	Description
M1a	Footbridge at Ex-Harbour Road Sports Centre

- 4.1.2. [Two limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Center on 04 and 11 December 2017 in the December 2017 reporting month. After the investigation, the exceedances were concluded as non-Project related](#)

[Backfilling and minor breaking works were conducted by Contract HK/2009/02 around the concerned location with a few and non-continuous breaking actions observed during measurement on 04 December 2017. Acoustic screening of breaker tip was implemented by Contract HK/2009/02 and no noise contribution was observed from the works. Meanwhile, non WDII-CWB excavation works and hammering next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was](#)



considered as non-Project related to Contract HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adequate noise mitigation measure around the concerned location to avoid potential cumulative impact.

Backfilling and minor breaking works were conducted by Contract HK/2009/02 around the concerned location with a few and non-continuous breaking actions observed during measurement on 11 December 2017. Acoustic screening of breaking tip was implemented by Contract HK/2009/02 and no noise contribution was observed from the works. Meanwhile, non WDII-CWB excavation and continuous breaking works immediately next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adequate noise mitigation measure around the concerned location to avoid potential cumulative impact

- 4.1.3. Three limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Centre on 29 December 2017, 16 and 23 January 2018 in the January 2018 reporting month. After the investigation, the exceedances were concluded as non-Project related.

Excavation were conducted by Contract HK/2009/02 around the concerned location on 29 December 2017 and no noise contribution was observed from the works. Meanwhile, non WDII-CWB excavation works immediately next to the monitoring station were observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related to Contract HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adopt noise mitigation measure, if necessary, around the concerned location to avoid potential cumulative impact.

Despite backfilling work by excavator was conducted by Contract HK/2009/02 around the concerned location during the time of measurement on 16 January 2018, no major noise emanation from the works was observed during monitoring. Meanwhile, steel frame erection and hammering were conducted by non-WDII-CWB contractor next to the monitoring station and considered as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2009/02. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain adopt noise mitigation measure, if necessary, around the concerned location to avoid potential cumulative impact.

Despite trench excavation work was conducted by Contract HK/2009/02 around the concerned location during the time of measurement on 23 January 2018, no major noise emanation from the works was observed during monitoring. Meanwhile, breaking works by excavator mounted breaker was conducted under non-WDII-CWB contractor next to the monitoring station and observed as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2009/02.

- 4.1.4. One limit level exceedances was recorded at M1a – Footbridge for Harbour Road Sports Centre on 2 February 2018. After the investigation, the exceedances were concluded as non-project related.



Despite trench excavation work was conducted by Contract HK/2009/02 around the concerned location during the time of measurement, no major noise emanation from the works was observed during monitoring. Meanwhile, excavation works and hammering were conducted under non-WDII-CWB contractor next to the monitoring station and observed as the major noise contribution during monitoring. As such, the exceedance was considered as not relate to Project works under HK/2009/02.

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.1.5. Noise quality monitoring at M4b and M5b have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 2012.
- 4.1.6. The proposed division of noise monitoring stations for Contract no. HY/2009/19 are summarized in **Table 4.3** below:

**Table 4.3 Noise Monitoring Stations for Contract no. HY/2009/19**

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

- 4.1.1 Two Limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 08 and 20 December 2017 in the December 2017 reporting month and the exceedances were concluded as non-project related.

Despite installation of sign gantry, transportation of rebar and housekeeping work were conducted under HY/2009/19 around the monitoring location on 08 December 2017 and nearby traffic noise was observed as major noise source during monitoring. As such, the exceedance was considered as non-project related.

Breaking of paving surface at Pier F5 and F6 under Contract HY/2009/19 was conducted during the measurement on 20 December 2017 and breaking operation behind the IECL noise enclosure was observed as the major noise influence during measurement. Hence, the exceedance was considered as Project related. In view of the adjustment of limit level on the subsequent monitoring date with respect to the completion of school examination, no further exceedance was recorded during additional monitoring conducted on 21 December 2017 at the concerned location. Nevertheless, the Contractor of HY/2009/19 was advised to adopt additional noise mitigation measure for future breaking works, if any, at the concerned location during examination period, such as provision of localized movable noise barrier to ensure that the nearby noise sensitive receiver would not be adversely affected.

4.1.2 No action or limit level exceedance was recorded in the January 2018 reporting month.

4.1.3 No action or limit level exceedance was recorded in the February 2018 reporting month.

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

4.1.7. The proposed division of noise monitoring stations are summarized in **Table 4.4** below.

**Table 4.4 Noise Monitoring Station for Contract no. HY/2010/08**

Station	Description
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station

4.1.8. No action or limit level exceedance was recorded in the December 2017, January 2018 and February 2018 reporting month.

4.1.9. All 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 4.1](#).

**4.2. Air Monitoring Results**

4.2.1 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.2.2 Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations is summarized in **Table 4.6** below.

**Table 4.6 Air Monitoring Station for Contract no. HK/2009/02**

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

4.2.3 No action or limit exceedance was recorded in in the December 2017, January 2018 and February 2018 reporting month.

Contract no. HY/2009/19 –Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

4.2.4 Air monitoring at CMA1b and CMA2a have been implemented with respect to HY/2009/19 since the marine bore piling works started on 28 Jan 2012. No exceedance was recorded in the reporting period.

4.2.5 The proposed division of air monitoring stations is summarized in **Table 4.8** below.

**Table 4.8 Air Monitoring Stations for Contract no. HY/2009/19**

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

4.2.6 No action or limit exceedance was recorded in in the December 2017, January 2018 and February 2018 reporting month.

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

4.2.7 The proposed division of air monitoring stations are summarized in **Table 4.9** below.

**Table 4.9 Air Monitoring Stations for Contract no. HK/2012/08**

Station	Description
CMA5b	Pedestrian Plaza

4.2.8 One 24hr TSP action level exceedance and one 1hr TSP limit level exceedance were recorded at CMA5b – Pedestrian Plaza on 11 and 12 December 2017 respectively in the December 2017 reporting month.

Road and drain construction works was undertaken under Contract HK/2012/08 around the monitoring location on 11 and 12 December 2017 and no particular observation regarding dust emission was observed during sampling periods. Mitigation measure including water spraying for haul road and dusty surface were implemented by the Contractor of HK/2012/08. The exceedance was considered not related to Project works and potentially contributed by ambient air quality condition.

4.2.9 One 1hr TSP action level exceedance was recorded at CMA5b – Pedestrian Plaza on 23 December 2017 in the December 2017 reporting month.

Road and drain construction works was undertaken under Contract HK/2012/08 around the monitoring location on 23 December 2017 and no particular observation regarding dust emission was observed during sampling periods. Mitigation measure including water spraying for haul road and dusty surface were implemented by the Contractor of HK/2012/08. The exceedance was considered not related to Project works and potentially contributed by ambient air quality condition

4.2.10 One 24hr TSP action level exceedance was recorded at CMA5b – Pedestrian Plaza on 29 December 2017 in the January 2018 reporting month.

Road and drain construction works was undertaken under Contract HK/2012/08 around the monitoring location on 29 December 2017 and no particular observation regarding dust emission was observed during sampling periods. Mitigation measure including water spraying for haul road and dusty surface were implemented by the Contractor of HK/2012/08. One 1hr TSP action level exceedance was recorded at CMA5b – Pedestrian Plaza on 23 December 2017. Meanwhile, non WDII-CWB Project construction works was observed opposite to the monitoring station on the monitoring date. In view of the above, the exceedance was considered to be not related to the Project works under Contract HK/2012/08 and potentially contributed by ambient air quality condition and nearby traffic exhaust. Nevertheless, the Contractor of HK/2012/08 was advised to strengthen the overall dust suppression control measures to ensure all dusty surface and stockpile are covered or dampened to avoid potential dust emission.

4.2.11 No action or limit level exceedance was recorded in the February 2018 reporting month.



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

4.2.12 The proposed division of air monitoring stations are summarized in **Table 4.10** below.

**Table 4.10 Air Monitoring Stations for Contract no. HY/2010/08**

Station	Description
CMA3a	CWB PRE Site Office

4.2.13 No action or limit exceedance was recorded in in the December 2017, January 2018 and February 2018 reporting month.

### 4.3. Water Monitoring Results

Contract no. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.3.1 Water quality monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations is summarized in **Table 4.12** below.

**Table 4.12 Water Monitoring Stations for Contract no. HK/2009/02**

Station Ref.	Location	Easting	Northing
<b>Cooling Water Intake</b>			
C1	HKCEC Extension	835885.6	816223.0
<b>Cooling Water Intake</b>			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/WSD Wanchai salt water intake / China Resources Building	836268.0	816020.0

4.3.2 1 limit level turbidity exceedance was recorded at WQM station C1 on 19 December 2017 in the December 2017 reporting period.

No marine construction activity was conducted on 19 December 2017. In view of no marine construction activity was conducted during the monitoring date, the exceedance was considered not related to Project works.

4.3.3 2 action level turbidity exceedance were recorded at WQM station RW21-P789 on 01 and 21 December 2017 and 3 limit level turbidity exceedances were recorded at RW21-P789 04, 19 and 23 December 2017 in the December 2017 reporting period

No marine construction activity was conducted on 1, 4, 19, 21 and 23 December 2017. In view of no marine construction activity was conducted during the monitoring date, the exceedance was considered not related to Project works.

4.3.4 1 action level turbidity exceedance was recorded at WQM station RW21-P789 on 28 December 2017 during flood tide in the January 2018 reporting period.

No marine construction activity under Contract HK/2009/02 was conducted on the monitoring date, and the installed silt screen was observed generally in order. In view of the above, it is considered that the exceedance was not related to Project works. No exceedance was recorded in the subsequent monitoring on 30 December 2017 Flood tide.

4.3.5 1 limit level turbidity exceedance was recorded at WQM station RW21-P789 on 8 January 2018 during flood tide in the January 2018 reporting period.

No marine construction activity under Contract HK/2009/02 was conducted on the monitoring date, and the installed silt screen was observed generally in order. In view of the above, it is considered that the exceedance was not related to Project works. No exceedance was recorded in the subsequent monitoring on 10 January 2018 Flood tide.

4.3.6 No action or limit level exceedance was recorded in the February 2018 reporting period. .

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

4.3.7 Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in **Table 4.13** below.

**Table 4.13 Water Monitoring Stations for Contract no. HK/2012/08**

Station Ref.	Location	Easting	Northing
<b>WSD Salt Water Intake</b>			
WSD19	Sheung Wan	833415.0	816771.0
<b>Cooling Water Intake</b>			
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2

4.3.8 5 action level turbidity exceedances were recorded at WQM station WSD19 on 27 November 2017, 01, 09, 12 and 23 December 2017 and 7 limit level turbidity exceedances were recorded at WQM station WSD19 on 29 November, 01, 04, 09, 14, 19 and 21 December 2017 in the December 2017 reporting period.

Rock trimming works were conducted under Contract HK/2012/08 on 27, 29 November and 21 December 2017 during the monitoring period and mitigation measure including silt curtain were deployed around the works area for the above construction works. In addition, the monitoring location was located at the upstream location to the works area on 29 November 2017. Hence, the exceedance were considered as non- Project related.

No marine construction activities under Contract HK/2012/08 on 01, 04, 09, 12, 14 and 23 December 2017 during the monitoring period and the exceedances were considered not related to Project works.

4.3.9 1 limit level suspended solid exceedance was recorded at WQM station WSD19 on 29 November 2017 in the December 2017 reporting period.

Rock trimming works were conducted under Contract HK/2012/08 on 29 November 2017 during the monitoring period and mitigation measure including silt curtain were deployed around the works area for the above construction works. In addition, the monitoring location was located at the upstream location to the works area on 29 November 2017. Hence, the exceedance were considered as non- Project related.

4.3.10 1 action level turbidity exceedances were recorded at WQM station P1 on 21 December 2017 and 1 limit level turbidity exceedance was recorded at WQM station P1 on 19 December 2017 in the December 2017 reporting period.

- No marine construction works was conducted under Contract HK/2012/08 on 19 December 2017 during the monitoring period. Hence, the exceedance was considered as not related to the Project works under Contract HK/2012/08.
- Rock trimming works were conducted under Contract HK/2012/08 on 21 December 2017 during the monitoring period and mitigation measure including silt curtain was deployed around the works area for the above construction works. Hence, the exceedance were considered as non- Project related.
- 4.3.11 1 limit level turbidity exceedance was recorded at WQM station P3 on 19 December 2017 in the December 2017 reporting period.
- No marine construction works was conducted under Contract HK/2012/08 on 19 December 2017 during the monitoring period. Hence, the exceedance was considered as not related to the Project works under Contract HK/2012/08.
- 4.3.12 1 limit level turbidity exceedance was recorded at WQM station P4 on 19 December 2017 in the December 2017 reporting period.
- No marine construction works was conducted under Contract HK/2012/08 on 19 December 2017 during the monitoring period. Hence, the exceedance was considered as not related to the Project works under Contract HK/2012/08.
- 4.3.13 2 action level turbidity exceedances were recorded at WQM station P5 on 01 and 21 December 2017 and 1 limit level exceedance was recorded at WQM station P5 on 19 December 2017 in the December 2017 reporting period.
- No marine construction works was conducted under Contract HK/2012/08 on 19 December 2017 during the monitoring period. Hence, the exceedance was considered as not related to the Project works under Contract HK/2012/08.
- Rock trimming works were conducted under Contract HK/2012/08 on 21 December 2017 during the monitoring period and mitigation measure including silt curtain was deployed around the works area for the above construction works. Hence, the exceedance were considered as non- Project related.
- 4.3.14 4 action level turbidity exceedance was recorded at WSD19 on 28 December 2017, 30 December 2017, 8 January 2018 and 23 January 2018 during flood tide in the January 2018 reporting period.
- No marine construction activity under Contract HK/2012/08 was conducted on 28 December 2017, 30 December 2017, 8 January 2018 and 23 January 2018 during the monitoring period. In view of above, it is considered the exceedance was not related to Project work.
- 4.3.15 No action or limit level exceedance was recorded in the February 2018 reporting period.



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

4.3.16 The proposed division of water quality monitoring stations are summarized in **Table 4.16** and **Table 4.17** below:

**Table 4.16 Water quality monitoring Stations for Contract no. HY/2010/08**

Station Ref.	Location	Easting	Northing
<b>Cooling Water Intake</b>			
C7	Windsor House	837193.7	816150.0

4.3.17 3 action level turbidity exceedance at WQM station C7 were recorded on 01, 04 and 19 December 2017, 2 limit level turbidity exceedance at WQM station C7 was recorded at WQM station C7 was recorded on 01 and 16 December 2017 in the December 2017 reporting period.

1 action level suspended solid exceedance was recorded at WQM station C7 on 01 December 2017 and 2 limit level suspended solid exceedance were recorded at WQM station C7 on 04 and 16 December 2017 in the December 2017 reporting period.

Diaphragm wall cutting works and seabed reinstatement works were conducted adjacent to the monitoring location on 01 December 2017 during monitoring date during flood tide and ebb tide while silty plume was observed dispersing from the temporary cut slope through the defective impermeable barrier deployed and affecting the nearby water quality. Hence, the exceedances recorded were considered as Project related.

Diaphragm wall concrete coring works was conducted at TS3 North under Contract HY/2010/08 on 04 December 2017 and mitigation measure including deployment of silt curtain to enclose the works area and deployment and maintenance of silt screen of concerned water intake were implemented by the Contractor. No particular water quality impact from construction works was observed. In view of above, it is considered that the exceedance was not related to Project works.

Temporary reclamation removal works was conducted under Contract HY/2010/08 adjacent to the monitoring station on 16 December 2017 and silty plume originated from temporary reclamation removal works influencing the water quality of the waterbody and concerned water intake within the silt curtain enclosed area. Hence, the exceedances recorded were considered as Project related.

No marine construction activity was conducted under Contract HY/2010/08 on 19 December 2017 on the monitoring date and the silt screen installed at for concerned water intake were maintained and generally in order. Hence, it is considered that the exceedance was not related to Project works.

- 4.3.18 1 limit level turbidity exceedance was recorded on at WQM station C7 on 12 January 2018 during flood tide in the January 2017 reporting period.

No marine construction activity was conducted under Contract HY/2010/08 on 12 January 2018 and the silt screen installed at for concerned water intake were maintained and generally in order. Hence, it is considered that the exceedance was not related to Project works.

- 4.3.19 1 limit level turbidity and suspended solids exceedance was recorded on at WQM station C7 on 22 February 2018 during flood tide in the February 2018 reporting period.

No marine construction activity was conducted under Contract HY/2010/08 on the monitoring date and the silt screen installed at for concerned water intake were maintained and generally in order. Hence, it is considered that the exceedance was not related to Project works.

**Table 4.17 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2010/08**

Station Ref.	Location
C6	Excelsior Hotel
C7	Windsor House Cooling

Remarks:

Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and was resumed from 1 February 2018 onwards with respect to the completion of removal of temporary reclamation zone.

- 4.3.20 No action or limit level exceedance was recorded at Enhanced DO monitoring station C6 in the December 2017 reporting period.
- 4.3.21 No action or limit level exceedance was recorded at Enhanced DO monitoring station C6 in the January 2018 reporting period.
- 4.3.22 No action or limit level exceedance was recorded at Enhanced DO monitoring stations C6 and C7 in the February 2018 reporting period.

#### 4.4 Waste Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

4.4.1 No Inert C&D waste and non-inert C&D waste was disposed of for the site works in this reporting period. Details of the waste flow table are summarized in **Table 4.18**.

**Table 4.18 Details of Waste Disposal for Contract no. HK/2009/01**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	62116.405	TKO137, TM38
Inert C&D materials recycled, m <sup>3</sup>	NIL	5856.5	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	1673.69	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	203993	N/A
Chemical waste disposed, kg	NIL	10250	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m <sup>3</sup>	NIL (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	NIL (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

4.4.2 There were no Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1- Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in this reporting quarter.

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.4.3 No Inert and non-inert C&D waste were disposed of for the site works in this reporting period. Details of the waste flow table are summarized in **Table 4.19**.

**Table 4.19 Details of Waste Disposal for Contract no. HK/2009/02**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	276075.1	TKO137/ TM 38
Inert C&D materials recycled, m <sup>3</sup>	NIL	18161	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	NIL	240222 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup> *	NIL	146445 (Bulk volume)	East of Sha Chau

4.4.4 There was no Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1- Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in this reporting quarter.

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

4.4.5 There was no Inert C&D waste disposed in this reporting period and no non-inert C&D waste was disposed in this reporting period. Details of the waste flow table are summarized in **Table 4.20**.

**Table 4.20 Details of Waste Disposal for Contract no. HY/2009/15**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m <sup>3</sup>	NIL	141579.2	Tuen Mun Area 38	NIL
	NIL	65216	TKO137 FB	NIL
Inert C&D materials recycled, m <sup>3</sup>	NIL	8127.21	HY/2010/08	NIL
	NIL	304	Ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal) , m <sup>3</sup>	NIL	156909 (Bulk Volume)	South of Cheung Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	NIL	327746 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	12640 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m <sup>3</sup>	NIL (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m <sup>3</sup>	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine Disposal) , m <sup>3</sup>	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement



Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers) , m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

4.4.6 There were no marine sediments Type1- Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in this reporting quarter.

Contract no. HY/2009/19 – Central- WanChai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

4.4.7 No Inert and non-inert C&D waste were disposed of in this reporting quarter. Details of the waste flow table are summarized in **Table 4.21**.

**Table 4.21 Details of Waste Disposal for Contract no. HY/2009/19**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	355921.04	TM38
Inert C&D materials recycled, m <sup>3</sup>	NIL	59367	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	NIL	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal), m <sup>3</sup>	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	NIL	4976.00	N/A

4.4.8 There were no marine sediments Type1- Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in this reporting quarter.

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

4.4.9 No Inert and non-inert C&D waste were disposed of in this reporting quarter. Details of the waste flow table are summarized in **Table 4.22**.

**Table 4.22 Details of Waste Disposal for Contract no. HK/2012/08**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	4131	TM38
	NIL	273	TKO 137
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	NIL
Non-inert C&D materials disposed, m <sup>3</sup> *	NIL	400	SENT
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup> *	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup> *	NIL (Bulk volume)	108542 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

\*Remarks: The details of waste disposal is recorded in calendar month period.

4.4.10 No Marine Sediment Type 1 – Open Sea Disposal (Delicate Sites) & Type 2 – Confined Marine Disposal and Marine Sediment Type 1 – Open Sea Disposal disposed in this reporting quarter.



Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

- 4.4.11 Inert C&D waste was disposed in this reporting month, while no non-inert C&D waste disposed in this reporting period. Details of the waste flow table are summarized in **Table 4.23**

**Table 4.23 Details of Waste Disposal for Contract no. HY/2010/08**

Waste Type	Quantity this quarter	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	1000.778	92433.315	TM38
	NIL	19739.4	TKO137
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	62559.4	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	28309.2	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

- 4.4.12 There were no Type 1 – Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month, and no Type 3- Special Treatment disposed in this reporting quarter.

## 5. COMPLIANCE AUDIT

- 5.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in **Appendix 5.1.**

### 5.1. Noise Monitoring

#### Reporting period of December 2017

- 5.1.1 Two limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Centre on 04 and 11 December 2017 and the exceedances were concluded as non-Project related.
- 5.1.2 Two limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 08 and 20 December 2017 and the limit level exceedance recorded on 08 was concluded as non-Project related.

The limit level exceedance recorded at M6 on 20 December 2017 was concluded as related to the breaking works under Contract HY/2009/19 and remedial actions were implemented by the Contractor accordingly and no further exceedance was recorded.

#### Reporting period of January 2018

- 5.1.3 Three limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Centre on 29 December 2017, 16 and 23 January 2018 in the reporting month. After the investigation, the exceedances were concluded as non-project related.

#### Reporting period of February 2018

- 5.1.4 One limit level exceedances were recorded at M1a – Footbridge for Harbour Road Sports Centre on 2 February 2018 in the reporting month. After the investigation, the exceedance was concluded as non-project related.

## 5.2. Air Monitoring

### Reporting period of December 2017

- 5.2.1 One 24hr TSP action level exceedance and one 1hr TSP limit level exceedance were recorded at CMA5b – Pedestrian Plaza on 11 and 12 December 2017 respectively. One 1hr TSP action level exceedance was recorded at CMA5b – Pedestrian Plaza on 23 December 2017. The exceedances were concluded not related to the Project works under Contract HK/2012/08.

### Reporting period of January 2018

- 5.2.2 One 24hr TSP action level exceedance was recorded at CMA5b – Pedestrian Plaza on 29 December 2017 in the reporting month. After the investigation, the exceedance was concluded as not related to the Project works under Contract HK/2012/08.

### Reporting period of February 2018

- 5.2.3 No action or limit level exceedance was recorded in the February 2018 reporting period.

### 5.3. Water Quality Monitoring

#### Reporting period of December 2017

5.3.1 5 action level turbidity exceedances were recorded at WQM station WSD19 on 27 November 2017, 01, 09, 12 and 23 December 2017 and 7 limit level turbidity exceedances were recorded at WQM station WSD19 on 29 November, 01, 04, 09, 14, 19 and 21 December 2017 and the exceedances were considered as not related to the Project.

1 limit level suspended solid exceedance was recorded at WQM station WSD19 on 29 November 2017 and the exceedances were considered as not related to the Project.

5.3.2 1 limit level turbidity exceedance was recorded at WQM station C1 on 19 December 2017 and the exceedances were concluded as not related to the Project.

5.3.3 1 action level turbidity exceedances were recorded at WQM station P1 on 21 December 2017 and 1 limit level turbidity exceedance was recorded at WQM station P1 on 19 December 2017 and the exceedances were considered as not related to the Project.

5.3.4 1 limit level turbidity exceedance was recorded at WQM station P3 on 19 December 2017 and the exceedances were considered as not related to the Project.

5.3.5 1 limit level turbidity exceedance was recorded at WQM station P4 on 19 December 2017 and the exceedances were considered as not related to the Project.

5.3.6 2 action level turbidity exceedance were recorded at WQM station RW21-P789 on 01 and 21 December 2017 and 3 limit level turbidity exceedances were recorded at RW21-P789 04, 19 and 23 December 2017 and the exceedances were concluded as not related to the Project.

5.3.7 3 action level turbidity exceedance at WQM station C7 were recorded on 01, 04 and 19 December 2017. 2 limit level turbidity exceedance at WQM station C7 was recorded at WQM station C7 was recorded on 01 and 16 December 2017. The exceedances recorded on 04 and 19 December were concluded as non-Project related.

1 action level suspended solid exceedance was recorded at WQM station C7 on 01 December 2017 and 2 limit level suspended solid exceedance were recorded at WQM station C7 on 04 and 16 December 2017. The exceedance recorded on 04 December 2017 was concluded as non-Project related.

The exceedances on 01 and 16 December 2017 were concluded as related to the Project works under Contract HY/2010/08. Remedial actions were implemented by the Contractor of HY/2010/08 according to the Event and Action Plan.

Reporting period of January 2018

- 5.3.8 Based on Contractor confirmed site information on no marine construction activities on 01 January 2018, the respective scheduled water quality monitoring event at all WQM stations and enhanced DO monitoring was temporary suspended on 01 January 2018 during ebb tide and flood tide accordingly.
- 5.3.9 4 action level turbidity exceedance was recorded at WSD19 on 28 December 2017, 30 December 2017, 8 January 2018 and 23 January 2018 during flood tide in the reporting month. After the investigation, the exceedances were concluded as non-project related.
- 5.3.10 1 action level turbidity exceedance and 1 limit level turbidity exceedance were recorded at WQM station RW21-P789 on 28 December 2017 and 8 January 2018 during flood tide in the reporting month. After the investigation, the exceedances were concluded as non-project related.
- 5.3.11 1 limit level turbidity exceedance was recorded on at WQM station C7 on 12 January 2018 during flood tide in the reporting month. After the investigation, the exceedance was concluded as non-project related.

Reporting period of February 2018

- 5.3.12 Due to temporarily site closure and road closure around the SCL project site on 27 January 2018 with respect to the explosive discovery at the aforementioned construction site, the scheduled water quality monitoring event at WQM station RW21-P789 on 27 January 2018 during flood tide and ebb tide were cancelled.
- 5.3.13 Based on Contractor confirmed site information on no marine construction activities on 17 February 2018, the respective scheduled water quality monitoring event at all WQM stations and Enhanced DO monitoring station was temporary suspended on 17 February 2018 during ebb tide and flood tide accordingly.
- 5.3.14 With respect to the completion of the removal of the temporary reclamation at TS3, the suspended Enhance DO monitoring C7 would be resumed at the previous location from 01 February 2018 onwards.
- 5.3.15 1 limit level turbidity and suspended solids exceedance was recorded on at WQM station C7 on 22 February 2018 during flood tide in the reporting month. After the investigation, the exceedance was concluded as non-project related.

**5.4. Site Audit**

- 5.4.1 There was no non-compliance from the site audits in the reporting period. During environmental site inspections conducted during the reporting period, minor deficiencies were noted.

**5.5. Review of the Reasons for and the Implications of Non-compliance**Reporting period of December 2017

- 5.5.1 Project related exceedances were recorded at WQM station C7 on 01 and 16 December 2017.

Diaphragm wall cutting works and seabed reinstatement works were conducted adjacent to the monitoring location on 01 December 2017 during flood tide and ebb tide while silty plume was observed dispersing from the temporary cut slope through the defective impermeable barrier deployed and affecting the nearby water quality. Hence, the exceedance recorded were considered as Project related.

Temporary reclamation removal works was conducted under Contract HY/2010/08 adjacent to the monitoring station on 16 December 2017 and silty plume originated from temporary reclamation removal works influencing the water quality of the waterbody and concerned water intake within the silt curtain enclosed area. . Hence, the exceedance recorded was considered as Project related.

- 5.5.2 Project related noise exceedance was recorded at NM station M6 - HK Baptist Church Henrietta Secondary School on 20 December 2017.

Breaking of paving surface at Pier F5 and F6 under Contract HY/2009/19 was conducted during the measurement on 20 December 2017 and breaking operation behind the IECL noise enclosure was observed as the major noise influence during measurement. Hence, the exceedance was considered as Project related.

Reporting period of January 2018

- 5.5.3 There was no non-compliance from the site audits in the January 2018 reporting period.

Reporting period of February 2018

- 5.5.4 There was no non-compliance from the site audits in the February 2018 reporting period.

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

### Reporting period of December 2017

- 5.6.1 With respect to the project related exceedances recorded at WQM station C7 on 01 December 2017, upon identification of defects observed on 01 December 2017 during ebb tide, rectification measure including rectification of impermeable barrier deployed around temporary cut slope was implemented by the Contractor on 01 December 2017 flood tide. Subsequently rectification measures including i) rectification of silt curtain and impermeable barrier deployed around diaphragm wall cutting works and ii) cleaning of water holding tank were implemented by the Contractor by 02 December 2017. Additional monitoring in accordance with the Event and Action Plan was conducted on 02 December 2017 and no further turbidity exceedance was recorded.
- 5.6.2 With respect to the project related exceedances recorded at WQM station C7 on 16 December 2017 during flood tide, upon identification of the exceedance, tidying of silt screen and additional silt curtain around the concerned water cooling water intake were implemented by the Contractor of HY/2010/08 and flushing of the water holding tank was also implemented. Subsequent monitoring was conducted on 17 December 2017 during ebb tide at 0225hrs and no further exceedance was recorded. In addition, the Contractor of HY/2010/08 was also advised to rectify the gap opening at the ends of the outer perimeter silt curtain deployed to enclose the works front to avoid adverse water quality impact to the CBTS area. The Contractor of HY/2010/08 was also advised to review the use of impermeable barrier to separate the sheet piling works area and the concerned water intake without blocking the water circulation to the water intake to safeguard the water intake.
- 5.6.3 With respect to the noise exceedance recorded at NM station M6 on 21 December 2017, upon identification of the noise concern, the Contractor was immediately notified of the observation. In view of subsequent monitoring date with respect to the completion of school examination, no further exceedance was recorded during additional monitoring conducted on 21 December 2017 at the concerned location, no further adverse impact was considered. Nevertheless, the Contractor of HY/2009/19 was advised to adopt additional noise mitigation measure for future breaking works, if any, at the concerned location during examination period, such as provision of localized movable noise barrier to ensure that the nearby noise sensitive receiver would not be adversely affected.

### Reporting period of January 2018

- 5.6.4 There was no particular action taken since no non-compliance was recorded from the site audits in the January 2018 reporting period.

### Reporting period of February 2018

- 5.6.5 There was no particular action taken since no non-compliance was recorded from the site audits in the February 2018 reporting period.

**6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION**

6.0.1. No environmental complaint was received in the December 2017, January 2018 and February 2018 reporting period. .

6.0.2. The details of cumulative complaint log and summary of complaints are presented in **Appendix 6.1.**

6.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 6.1** and **Table 6.2** respectively.

**Table 6.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting quarter	47
December 2017 – February 2018	0
<b>Project-to-Date</b>	<b>47</b>

**Table 6.2 Cumulative Statistics on Successful Prosecutions**

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this quarter (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>



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

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area roadworks, back-filling, reinstatement of culvert K, drainage and trimming of rock level were performed in February 2018 reporting month.. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were road and drains construction and removal of preparation of temporary reclamation at Wan Chai West and Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were drainage works and ventilation building construction at Central; reinstatement works at Causeway Bay, road works at Victoria Park; bridge construction, approach ramp construction and building construction at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North and North Point area.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air 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. CONCLUSION

8.0.1. 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.

8.0.2. Project related exceedances were recorded at WQM station C7 on 01 and 16 December 2017 in the December 2017 reporting period.

Diaphragm wall cutting works and seabed reinstatement works were conducted adjacent to the monitoring location On 01 December 2017 during flood tide and ebb tide while silty plume was observed dispersing from the temporary cut slope through the defective impermeable barrier deployed and affecting the nearby water quality. Hence, the exceedance recorded were considered as Project related.

Temporary reclamation removal works was conducted under Contract HY/2010/08 adjacent to the monitoring station on 16 December 2017 and silty plume originated from temporary reclamation removal works influencing the water quality of the waterbody and concerned water intake within the silt curtain enclosed area. . Hence, the exceedance recorded was considered as Project related.

8.0.3. Project related noise exceedance was recorded at NM station M6 - HK Baptist Church Henrietta Secondary School on 20 December 2017 in the December 2017 reporting period.

Breaking of paving surface at Pier F5 and F6 under Contract HY/2009/19 was conducted during the measurement on 20 December 2017 and breaking operation behind the IECL noise enclosure was observed as the major noise influence during measurement. Hence, the exceedance was considered as Project related.

8.0.4. There was no non-compliance from the site audits in the January 2018 and February 2018 reporting period.

8.0.5. No environmental complaint was received in the December 2017, January 2018 and February 2018 reporting period. .

8.0.6. No summon or prosecution was received in the December 2017, January 2018 and February 2018 reporting period.

8.0.7. The construction programmes of individual contracts are provided in **Appendix 8.1**.

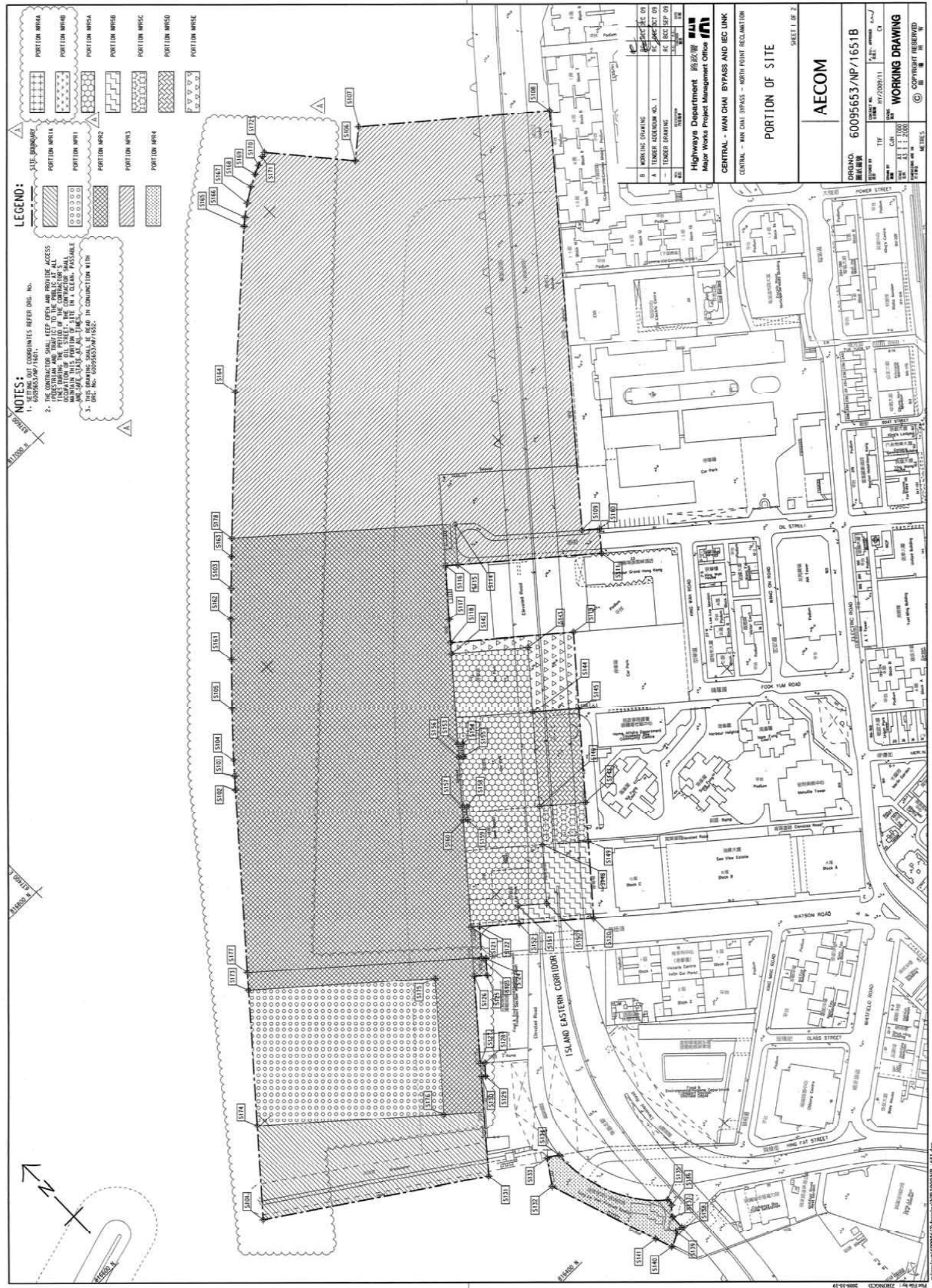


***Figure 2.1***

***Project Layout***

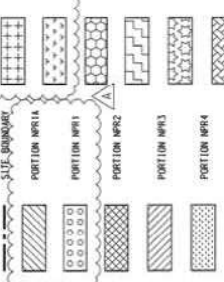






**LEGEND:**

- SETTING OUT COORDINATES REFER DRG. NO. 60095653/NP/1651B.
- THE CONTRACTOR SHALL KEEP OPEN AND PROVIDE ACCESS TO ALL SERVICES AND UTILITIES AT ALL TIMES DURING THE PERIOD OF THE CONTRACT. TO MAINTAIN THIS WORKING SITE IN A CLEAN, PASSEABLE AND SAFE STATE AT ALL TIMES.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. 60095653/NP/1652.



B	WORKING DRAWING	DATE: 01/01/2008
A	TENDER ADDENDUM NO. 1	DATE: 01/01/2008
AS	ASPECT OF	DATE: 01/01/2008
AS	ASPECT OF	DATE: 01/01/2008
AS	ASPECT OF	DATE: 01/01/2008

**Highways Department**  
Major Works Project Management Office

**CENTRAL - WAN CHAI BYPASS AND IEC LINK**  
CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION

PORTION OF SITE

SHEET 1 OF 2

**AECOM**

DRGNO:	60095653/NP/1651B
SCALE:	AS SHOWN
TITLE:	WORKING DRAWING
DATE:	01/01/2008
BY:	
CHECKED BY:	
DATE:	

© COPYRIGHT RESERVED



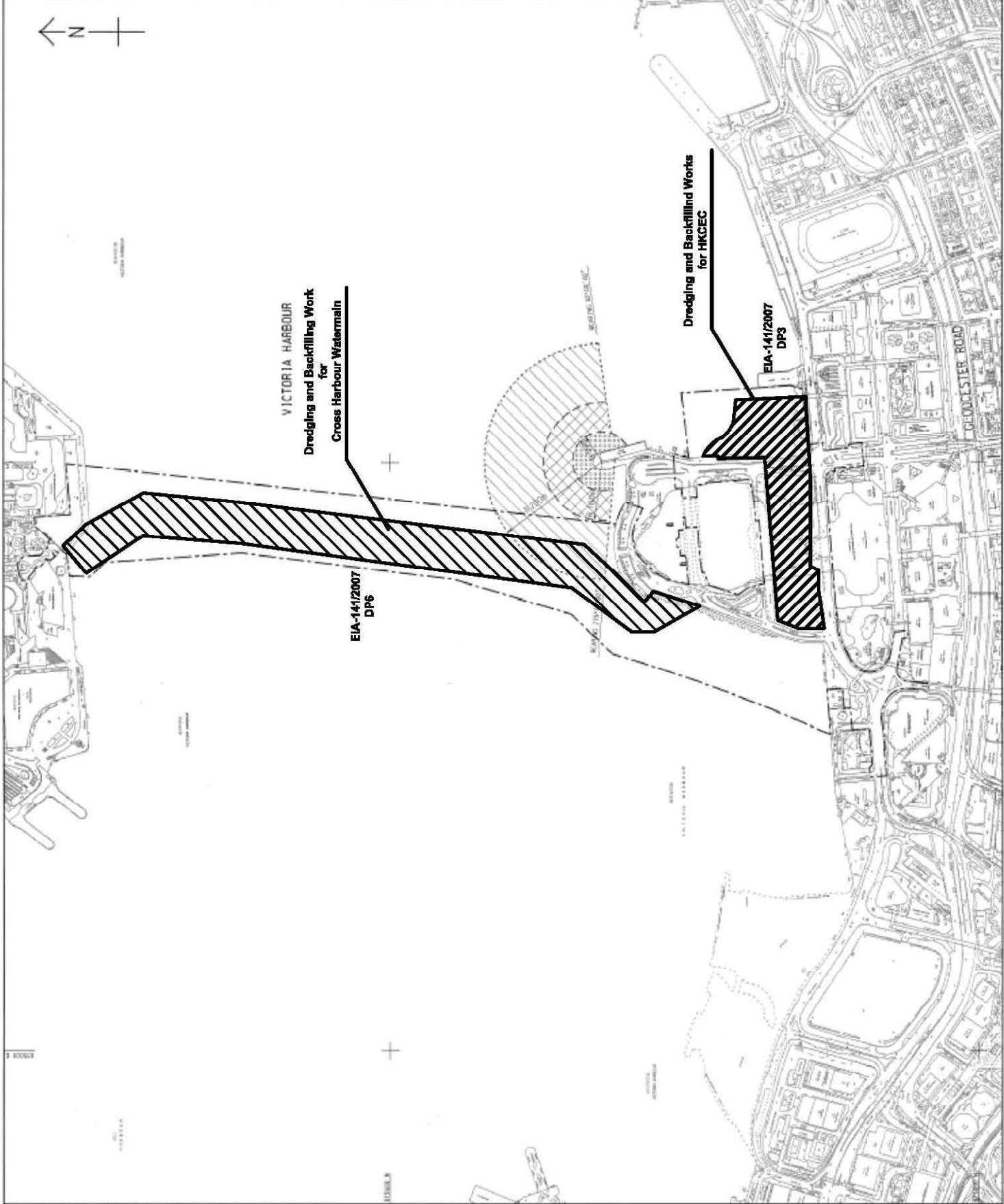
**LOCATION PLAN**  
SCALE 1 : 1,000

**NOTES:**

- 1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
- 2. THE RESTRICTION ZONE IS THIS DRAWING WILL OBTAIN APPROVAL FROM THE MARINE OFFICE OF THE HONG KONG GOVERNMENT FOLLOWING AN ENVIRONMENTAL IMPACT ASSESSMENT.

**LEGEND:**

- CONTACT BOUNDARY
- MOVING RESTRICTION ZONE
- RESTRICTION AND MOVING RESTRICTION ZONE
- MOVING BARRIERS, MARGINALS AND MOVING RESTRICTION ZONE



8	TENDER AGREEMENT NO. 4	16/01/11	SEP 09
9	TENDER AGREEMENT NO. 1	16/01/11	SEP 09
10	TENDER AGREEMENT NO. 2	16/01/11	SEP 09

**CEDD** Civil Engineering and Development Department  
**WAN CHAI DEVELOPMENT PHASE II**

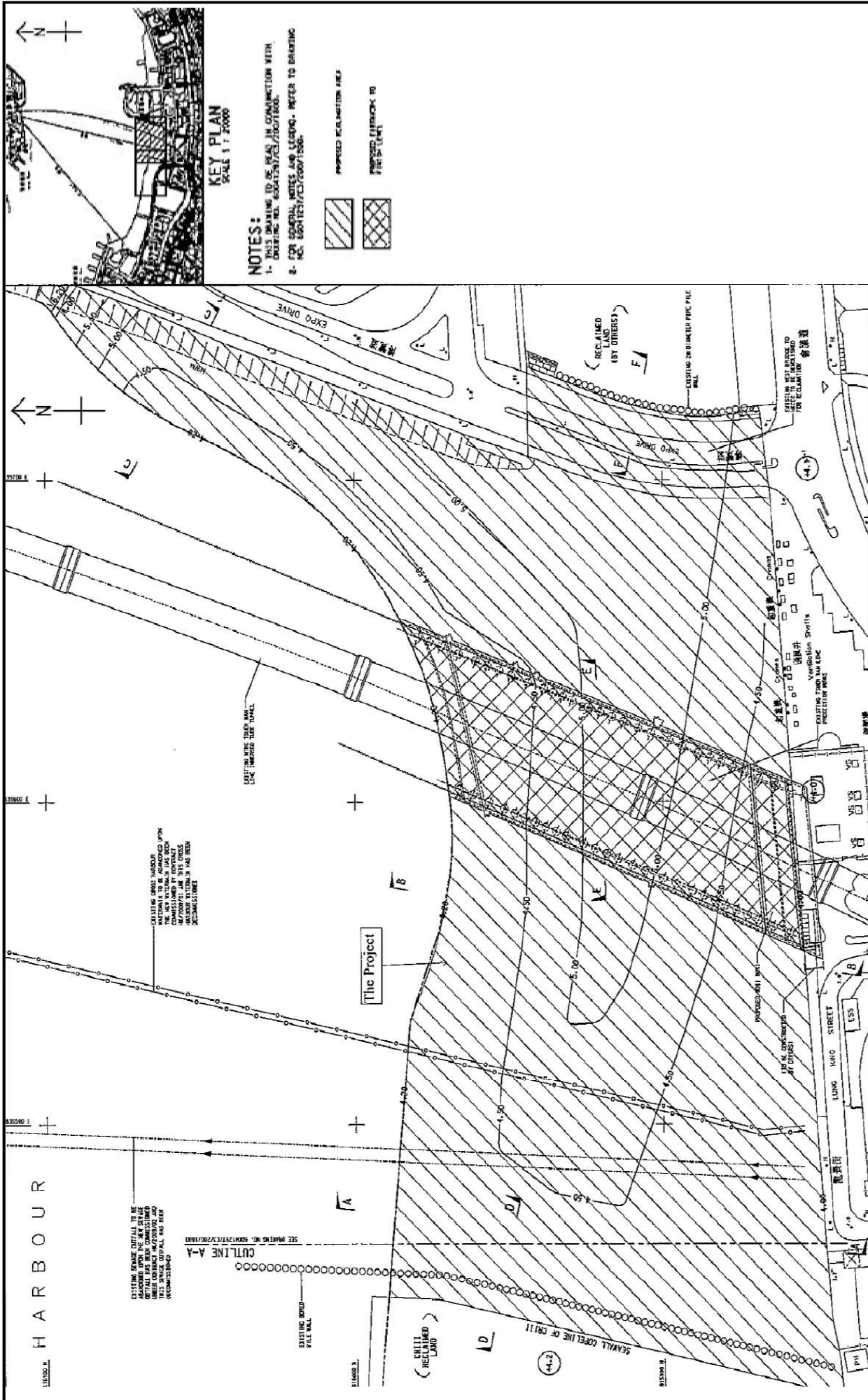
RESTRICTION ZONE FOR CONSTRUCTION VESSELS  
(Contract no: HK/2009/01)

**AECOM**

DRAWING NO. 60041297/C1/100/10108  
DATE 16/01/11  
SCALE AS SHOWN  
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**Figure 1b: General Layout of the Project**  
**圖 1b: 工程項目佈局圖**

(This figure was prepared based on Figure 1b of Application for Further Environmental Permit (Application No.: FEP-172/2016))  
 (本圖是根據申請新的環境許可證 (申請書編號 FEP-172/2016) 圖 1b 編製)

**Project Title: Wan Chai Development Phase II – Central Wan Chai Bypass at Wan Chai West (Contract No. HK/2012/08) – Marine Works**  
**工程項目名稱: 灣仔發展計劃第二期 - 中環灣仔繞道-灣仔西段(合約編號:HK/2012/08)-海軍工程**  
**Environmental Permit No.: FEP-08/356/2009**  
**環境許可證編號 : FEP-08/356/2009**







飛口  
AIRPORT

LEGEND:



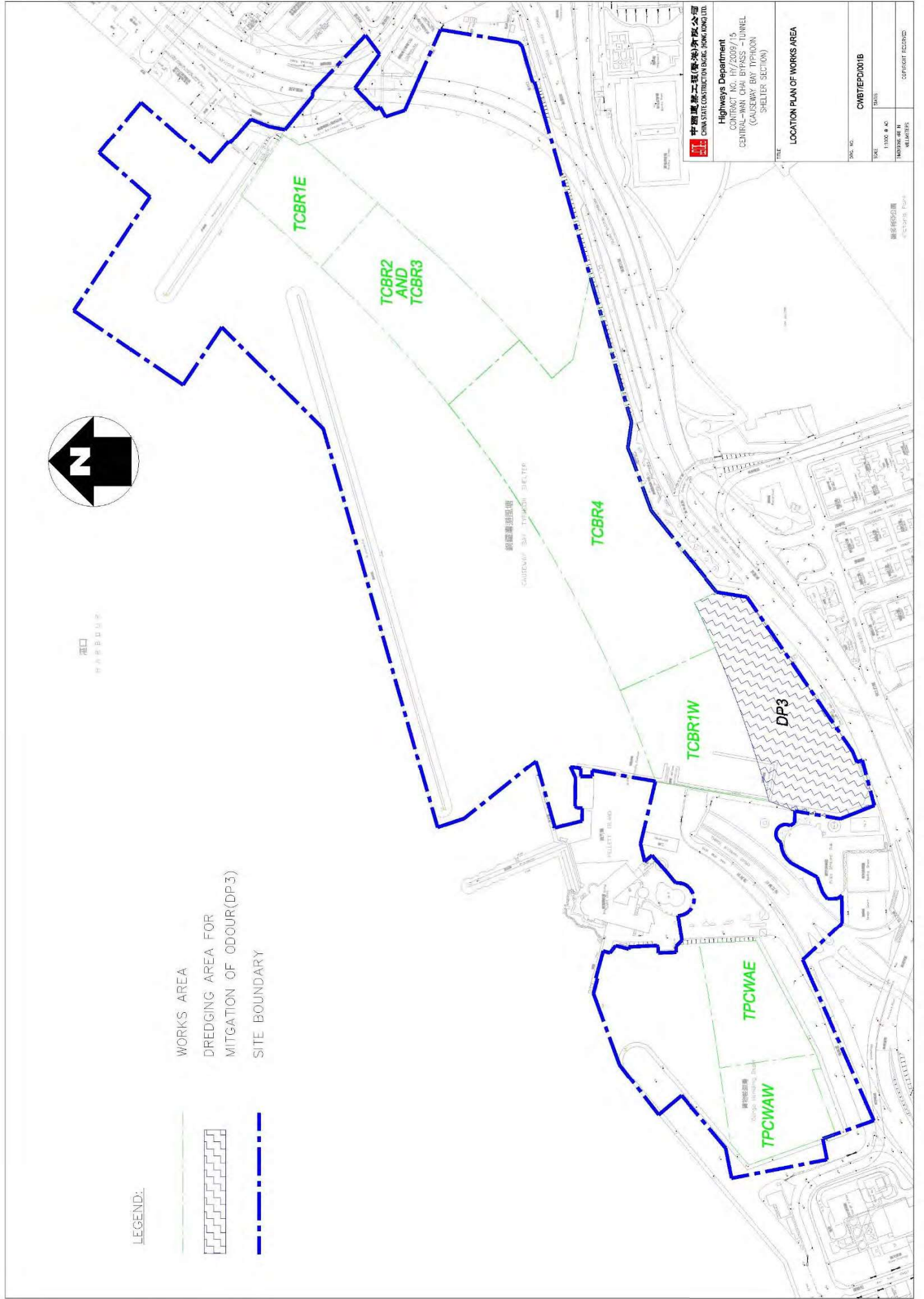
WORKS AREA



DREDGING AREA FOR  
MITIGATION OF ODOUR(DP3)



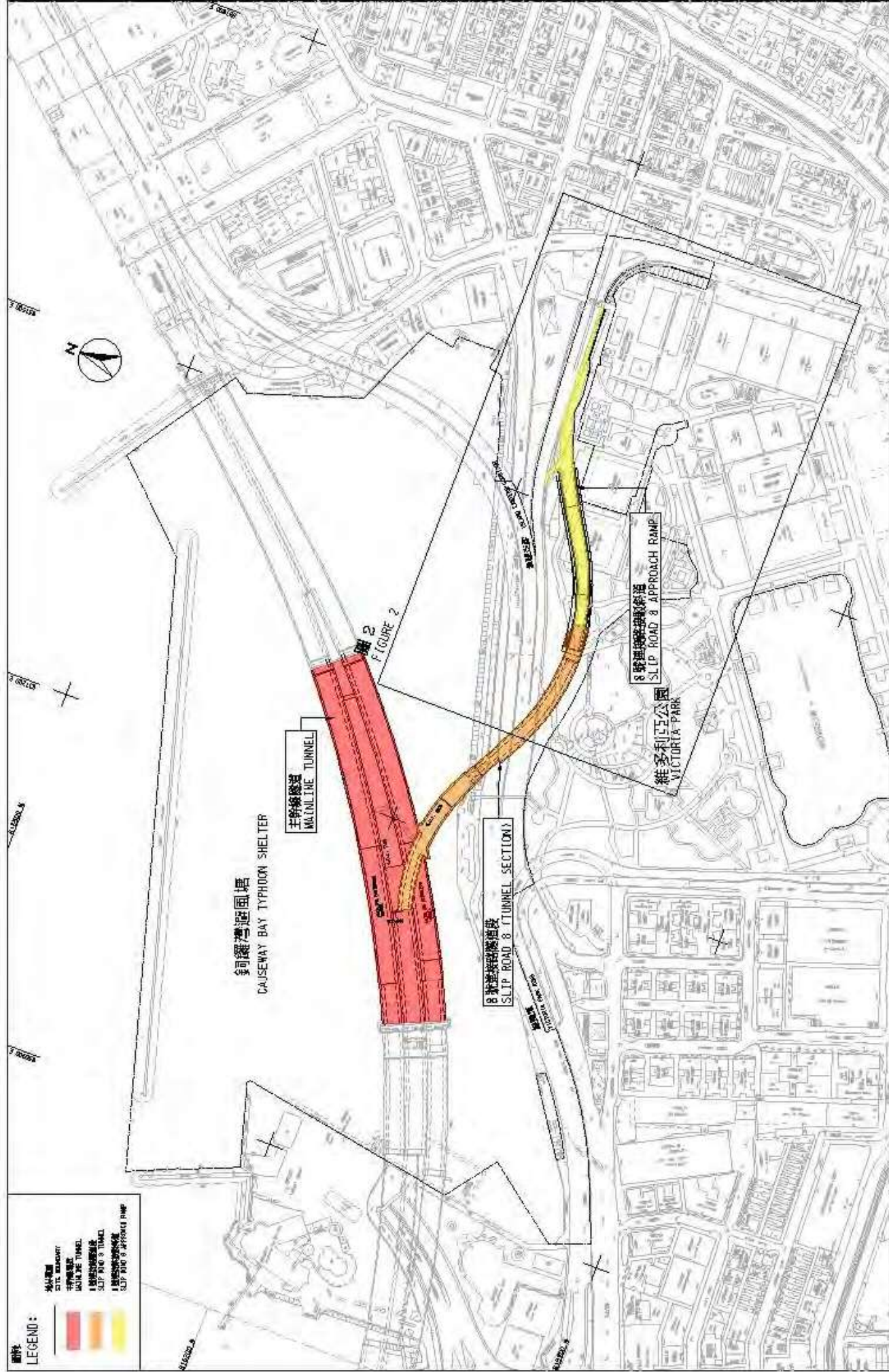
SITE BOUNDARY



<p>中國建築工程(香港)有限公司 China Construction Group (Hong Kong) Ltd.</p>	<p>Highways Department CONTRACT NO. 147/2008/15 CENTRAL-WAN CHAI BYPASS - TUNNEL (CAUSEWAY BAY TRENCH SHELTER SECTION)</p>
	<p>TITLE LOCATION PLAN OF WORKS AREA</p>
<p>DOC. NO. DATE</p>	<p>CWBTEP00101B DATE</p>
<p>SCALE 1:1000 @ A4</p>	<p>REVISIONS BY DATE</p>
<p>APPROVED BY DATE</p>	<p>OFFICER RECEIVED DATE</p>

圖則編號  
DRAWING NUMBER



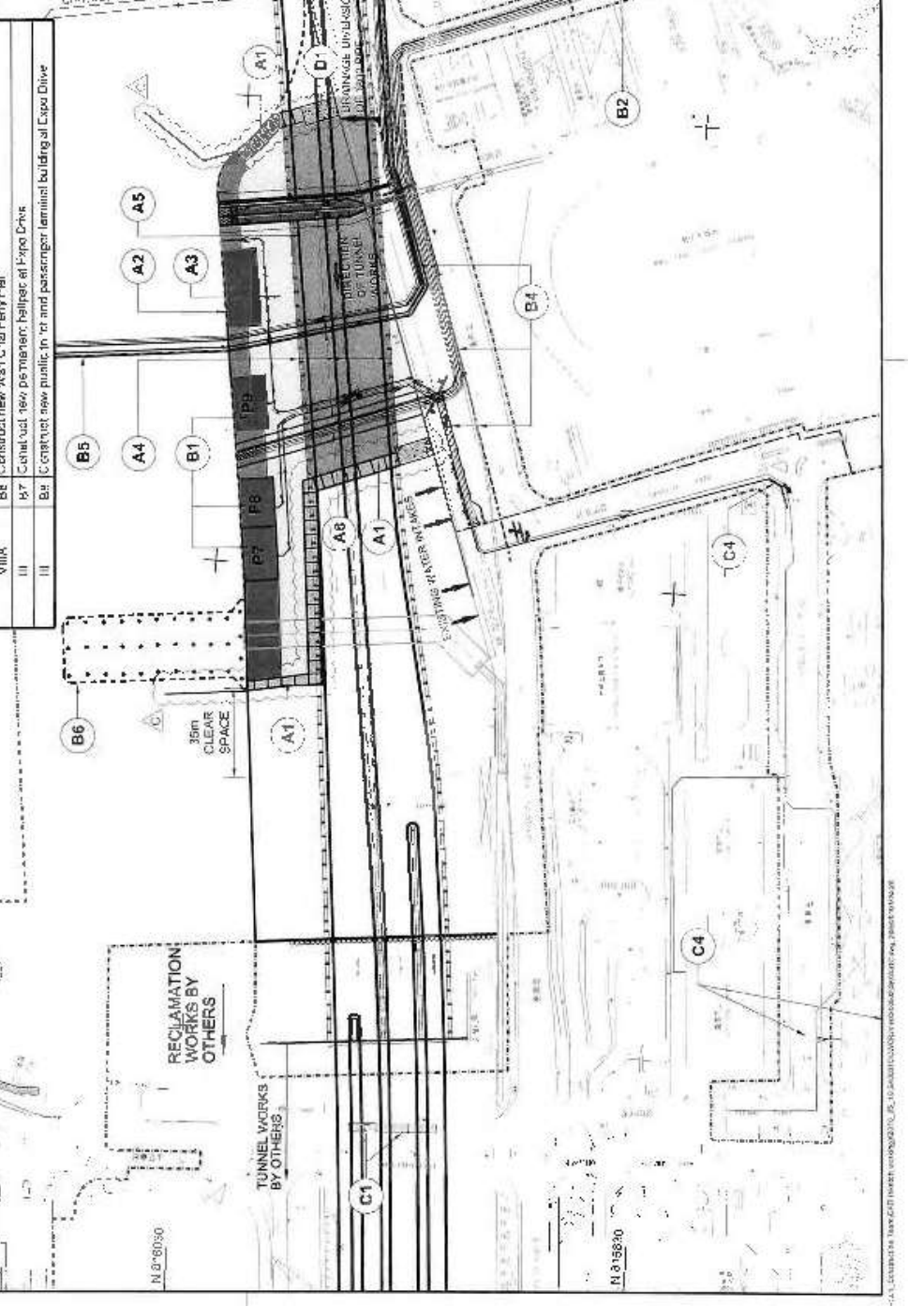


**圖 1- 合約編號 HY/2010/08 中環灣仔繞道-8號連接路段隧道**

**FIGURE 1 - CONTRACT NO. HY/2010/08 - CENTRAL - WAN CHAI BYPASS - TUNNEL (SLIP ROAD 8 SECTION)**

SCALE 1 : 3000

ACTIVITY	DURATION	START	FINISH	Section of Works	A Major Work at Area WCR1	Section of Works	C Other Miscellaneous Works
OVERALL STAGE : (Days 1 to 605)	630	2/20/10	3/6/11	XI	A1 Construct vessel and easier temporary access	III	C1 Construct new car and coach side parking spaces at Expo Drive East
DEMOLITION & RECLAIMATION PHASE 1 (WCR1)	140	2/20/10	4/30/10	XI	A2 Dredging and construct new access	III	C2 Modification work on existing sewerall and provide new EYA at Expo Drive
DREDGING & LAYING OF SUBMARINE OUTFALL PIPE ON SEA	470	2/20/10	3/26/11	IXB	A3 Reclamation to land 415x70	III	C3 Road on-alignment work on existing 371 at Expo Drive
				IXB	A4 Construct cushioning wall and macro pile of tunnel Position 1	II	C4 Road improvement work at junction of Harbour Road / - Murphy Street and Fanning Road / Gloucester Road
				IXB	A5 Construct tunnel Position 1 - structures including excavation and back-filling with LSW	V	C5 Demolition of existing above ground structure at Expo Drive
				IV, IVB, IVC V, VI, VII	A6 Conduct all drainage system, pipelines of this class and seating system within Area (WC-1)	VI	C6 Demolition of existing easements at location of Water Street
				Section of Works	B Major Work in Associated Area	IXA	C7 Demolition of existing temporary bridge at Expo Drive
				IXA, IVB, IVC	B1 Construct P, P, and 2g new pumping station	XI	C8 Demolition of existing temporary bridge at Expo Drive
				V	B2 Construct WSD's pumping station		
				VI	B3 Construct connection to main in Main Channel Preliminary Treatment Plant		
				VIA, IBS, IVC V, VI, VII	B4 Construct all drainage system, opponents of tribals and seating system on public road		
				VI	B5 Dredging and construct the surmounting outfall pipes		
				VIII	B6 Construct new Main Canal Ferry Pier		
				III	B7 Construct new permanent helipad at Expo Drive		
				III	B8 Construct new public lot and passenger terminal building at Expo Drive		

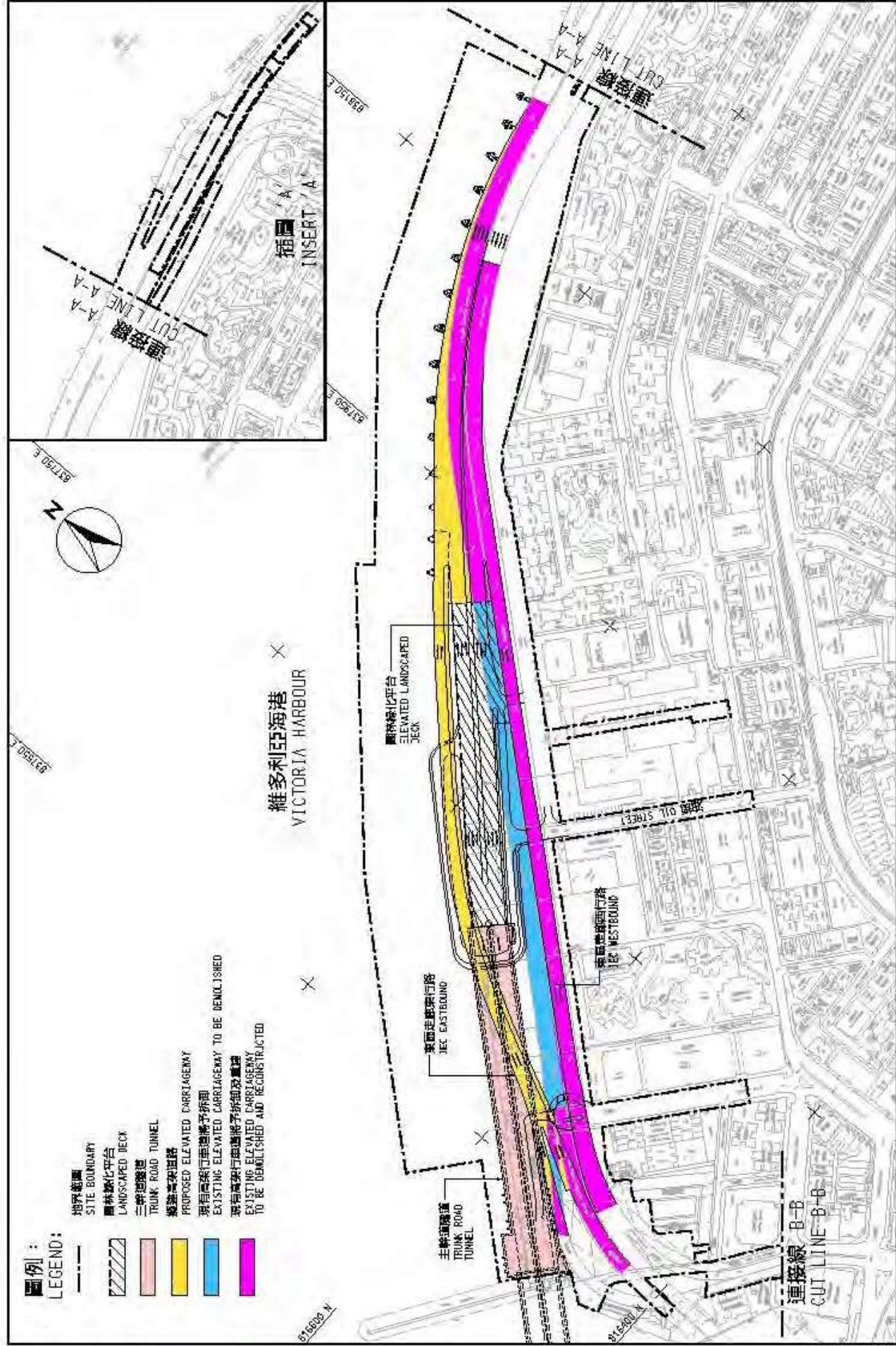


VICTORIA HARBOUR  
 GOLDEN BAUHINIA SQUARE  
 RECLAIMATION WORKS BY OTHERS  
 TUNNEL WORKS BY OTHERS  
 TUNNEL WORKS BY OTHERS  
 CONTRACT NO: WCR0202  
 DATE: 2/20/2010  
 DRAWN BY: LANCELOT WONG/SK/03/11  
 CONTRACT NO: WCR0202  
 DATE: 2/20/2010  
 DRAWN BY: LANCELOT WONG/SK/03/11  
 PROJECT: WCR1 WORKS PHASE 1  
 CONTRACT NO: WCR0202  
 DATE: 2/20/2010  
 DRAWN BY: LANCELOT WONG/SK/03/11  
 J = ALL WORKS SCHEDULE IN: LOCATION PLAN - STAGE 1  
 1:1000 SCALE BAR  
 0 25 50 100  
 ALL RIGHTS RESERVED



圖例：  
LEGEND:

- 地界範圍  
SITE BOUNDARY
- ▨ 園林綠化平台  
LANDSCAPED DECK
- 二幹道隧道  
TRUNK ROAD TUNNEL
- 綠道單車徑  
PROPOSED ELEVATED CARRIAGEWAY
- 現有高架行車道將予拆卸  
EXISTING ELEVATED CARRIAGEWAY TO BE DEMOLISHED
- 現有高架行車道將予拆卸及重建  
EXISTING ELEVATED CARRIAGEWAY TO BE DEMOLISHED AND RECONSTRUCTED



合約編號 HY/2009/19 - 中環灣仔繞道 - 北角段隧道及東區走廊連接路  
 CONTRACT NO. HY/2009/19 - CENTRAL-WAN CHAI BYPASS - TUNNEL (NORTH POINT SECTION) AND ISLAND EASTERN CORRIDOR LINK

SCALE 1 : 3000

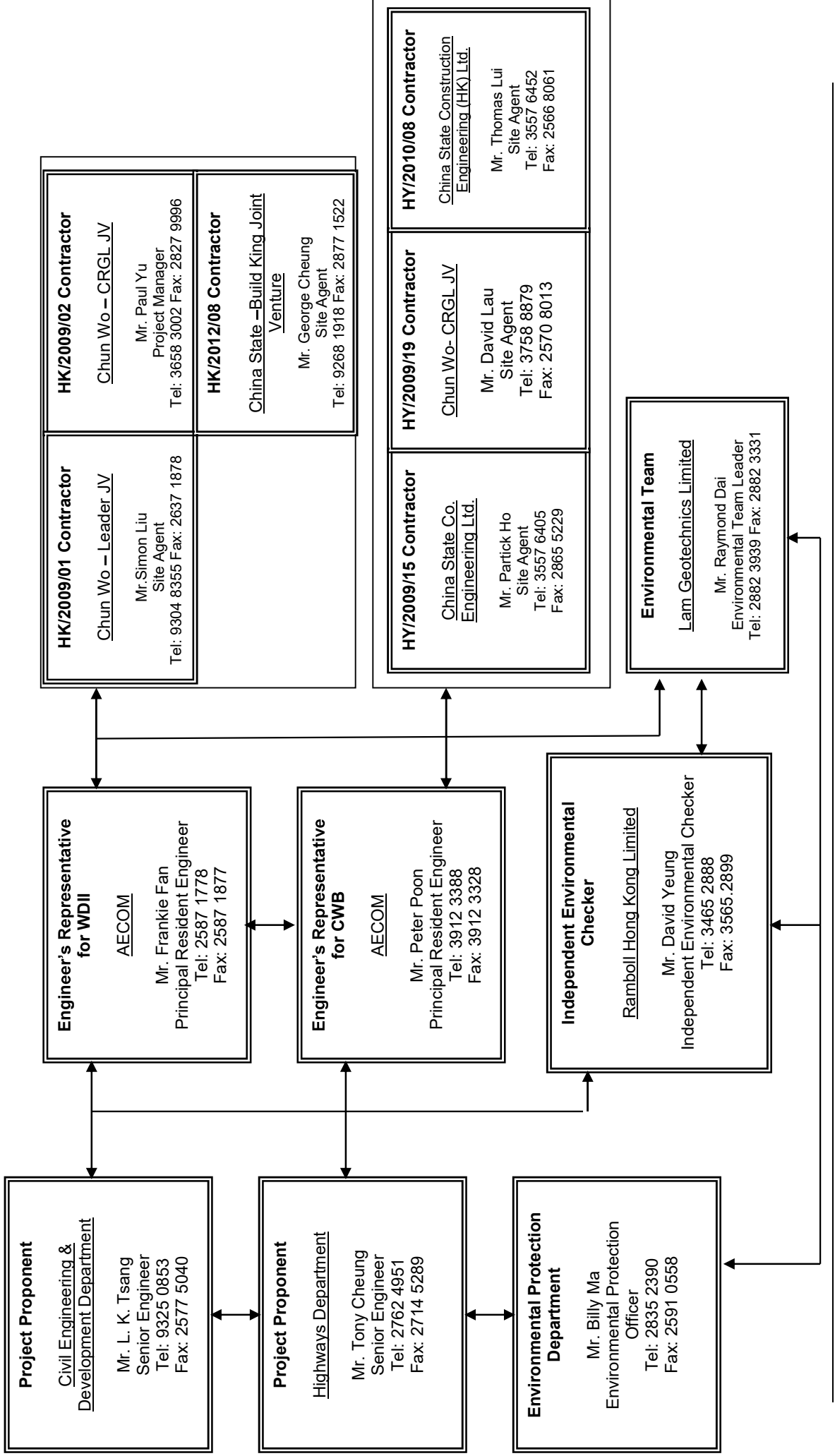


***Figure 2.2***

***Project Organization Chart***



**Project Organization Chart**





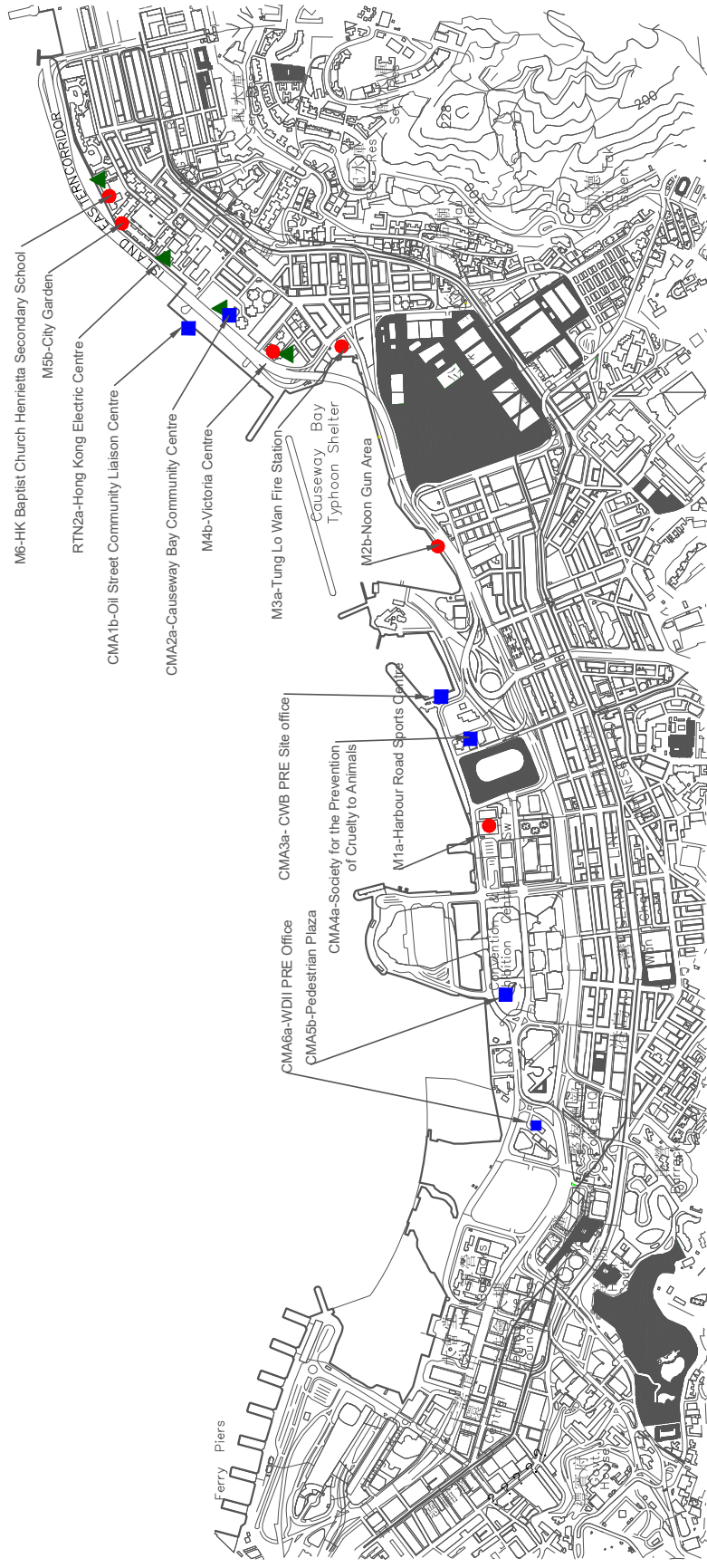
***Figure 3.1***

***Locations of Monitoring Stations***



**Legend**


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



**LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS**



**Legend**

-  Water Quality Monitoring Stations
- RW21-P789 (Wanchai WSD intake/ Great Eagle Centre/ China Resources Centre/ Sun Hung Kai Centre)
- C1 Hong Kong Convention and Exhibition Centre Extension
- P1 Hong Kong Convention and Exhibition Centre Phase 1
- P3 HK Academy For Performing Art
- P4 Shui On Centre
- P5 Government buildings (Wanchai Tower/ Revenue Tower/ Immigration Tower)
- C6 Proposed Exhibition Station/ World Trade Centre
- C7 Windsor House

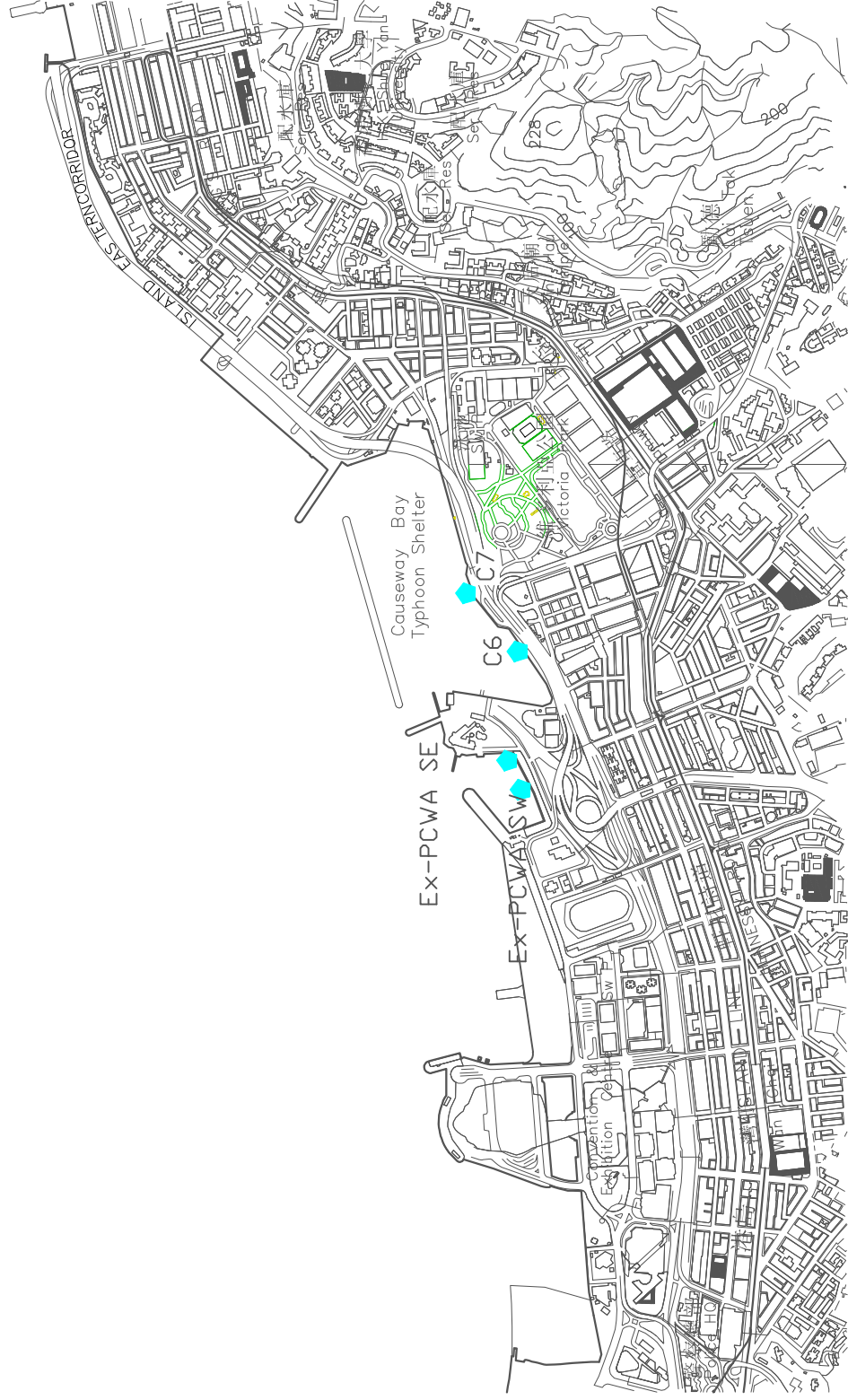


**FIGURE**

**LOCATIONS OF WATER QUALITY MONITORING STATIONS**

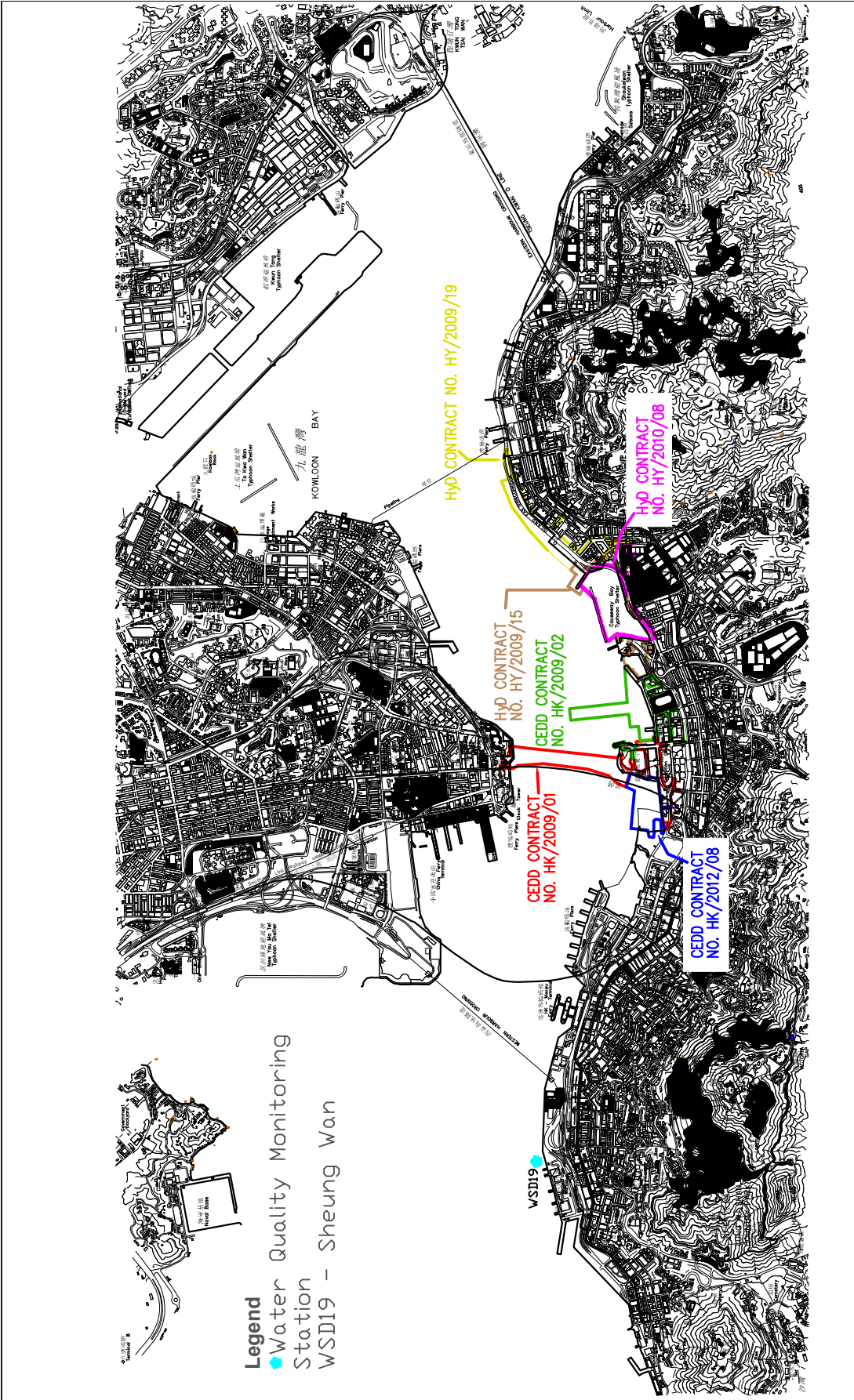
**Legend**

- Enhance DD Monitoring Stations
- Ex-PCWA SE Ex-Public Cargo Wanchai Area SouthEast Station
- Ex-PCWA SW Ex-Public Cargo Wanchai Area Southwest Station
- C6 Proposed Exhibition Station/ World Trade Centre
- C7 Windsor House



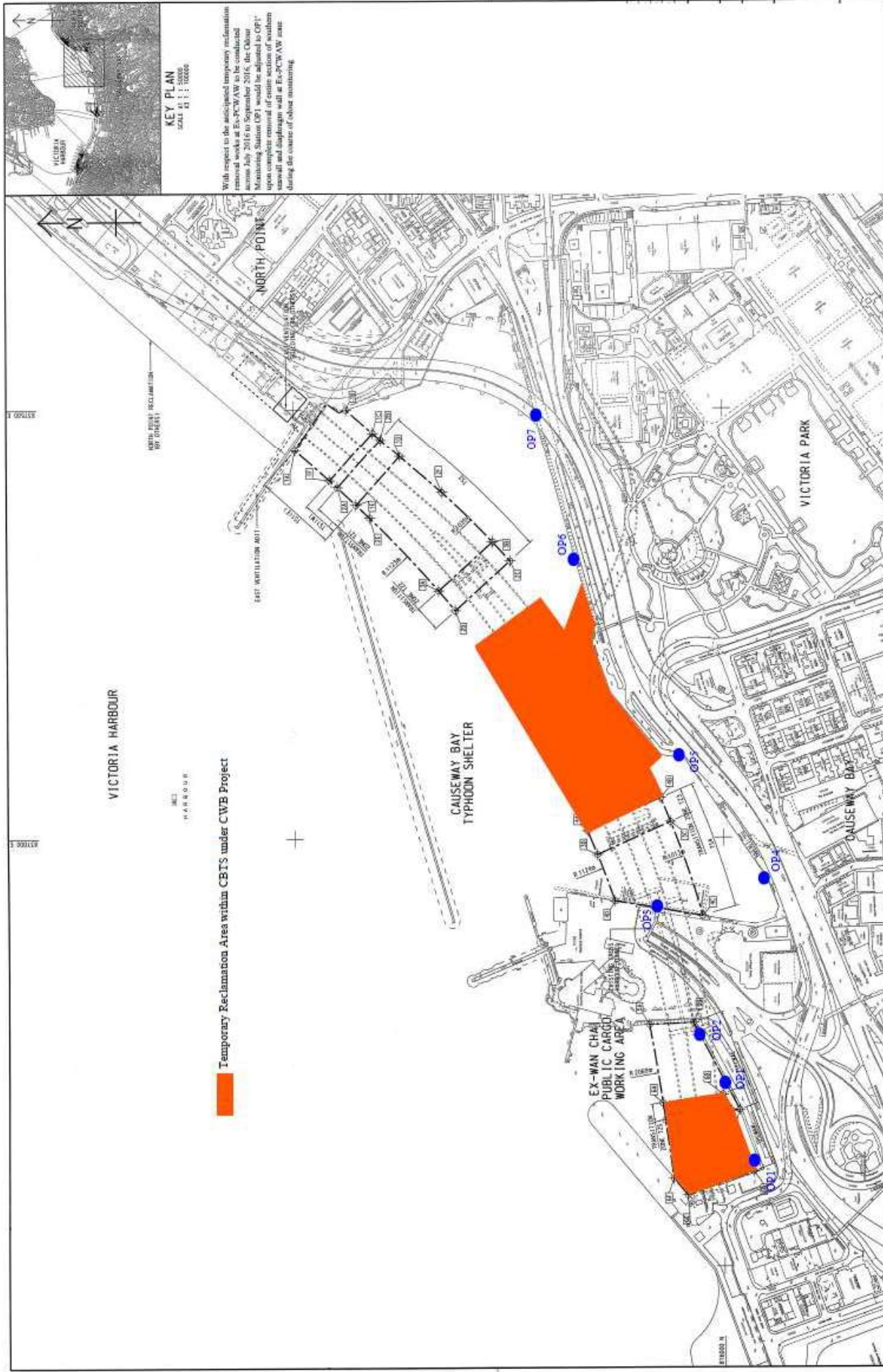
**FIGURE**

**LOCATIONS OF ENHANCE DO MONITORING STATIONS**



**FIGURE** LOCATIONS OF WATER QUALITY MONITORING STATIONS





**Figure** Locations of Odour Monitoring Stations



***Appendix 2.1***

***Environmental Mitigation Implementation Schedule***

## Environmental Mitigation Implementation Schedule

## Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
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		√			

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <sup>1</sup>		√			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD <sup>2</sup>		√			EIAO-TM
<b>Operation Phase</b>								
<i>For the Whole Project</i>								

<sup>1</sup> CEDD will identify an implementation agent.<sup>2</sup> CEDD will identify an implementation agent.

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on-going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD <sup>1</sup>			√		EIAO-TM
<b>For DPI – CWB (Within the Project Boundary)</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	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 A13.2 Implementation Schedule for Noise Control**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<b>For the Whole Project</b>								



EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.9.4	<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
<i>For DP1 – CWB (Within the Project Boundary)</i>								

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.3 – S4.8.5	<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> <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>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<i>For DP2 – WDII Major Roads (Road P2)</i>								
S4.8.3 – S4.8.4	<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>Temporary road diversion</li> <li>Resurfacing</li> <li>At-grade roadwork</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<i>For DP3 – Reclamation Works</i>								
S4.8.3 – S4.8.4	<p>Use of quiet powered mechanical equipment for the following task:</p> <ul style="list-style-type: none"> <li>Filling behind seawall</li> <li>Seawall construction</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>For DP5 – Wan Chai East Sewage Outfall</b>								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: <ul style="list-style-type: none"> <li>Submarine pipelines (marine section)</li> </ul> Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: <ul style="list-style-type: none"> <li>Installation of a new pipeline (land section)</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
<b>For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui</b>								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: <ul style="list-style-type: none"> <li>Submarine pipelines (marine section)</li> </ul>	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Operation Phase</b>								
<b>For DP1 – CWB (Within the Project Boundary)</b>								

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.14 – S4.8.18	<ul style="list-style-type: none"> <li>For Existing NSRs</li> <li>about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC</li> <li>about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC</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> For Future/Planned NSRs	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM
		In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	√	√#			

Appendix 3.1

EIA 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>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>	Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple	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.

Appendix 3.1

**Table A13.3 Implementation Schedule for Water Quality Control**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For DP3 – Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui), DP1 – CWB (within the Project Boundary)</i>								
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	Dredging shall be carried out by closed grab dredger for the following works: <ul style="list-style-type: none"> <li>• Seawall construction in all the reclamation areas;</li> <li>• Construction of the CWB Tunnel</li> <li>• Construction of the proposed WSD water mains; and</li> <li>• Construction of the proposed Wan Chai East sewage outfall pipelines.</li> </ul>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: <ul style="list-style-type: none"> <li>• Dredging along the proposed cross-harbour water mains;</li> <li>• Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).</li> </ul>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines																									
				Des	C	O	Dec																										
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																									
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO																									
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain. <table border="1" style="margin: 10px auto; width: 80%;"> <thead> <tr> <th rowspan="2">Reclamation Area</th> <th colspan="2">Maximum Dredging Rate</th> <th rowspan="2">Maximum Dredging Rate (m<sup>3</sup> per week)</th> </tr> <tr> <th>m<sup>3</sup> per day</th> <th>m<sup>3</sup> per hour (for 16 hrs per day)</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Dredging along seawall or breakwater</b></td> </tr> <tr> <td>North Point Shoreline Zone (NPR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>Causeway Bay</td> <td>TBW</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Shoreline Zone</td> <td>TGBR</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>PCWA Zone</td> <td>5,000</td> <td>313</td> <td>35,000</td> </tr> </tbody> </table>	Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m <sup>3</sup> per week)	m <sup>3</sup> per day	m <sup>3</sup> per hour (for 16 hrs per day)	<b>Dredging along seawall or breakwater</b>				North Point Shoreline Zone (NPR)	6,000	375	42,000	Causeway Bay	TBW	94	10,500	Shoreline Zone	TGBR	375	42,000	PCWA Zone	5,000	313	35,000	Work site / During the construction period	Contractor		√		EIAO-TM, WPCO
Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m <sup>3</sup> per week)																														
	m <sup>3</sup> per day	m <sup>3</sup> per hour (for 16 hrs per day)																															
<b>Dredging along seawall or breakwater</b>																																	
North Point Shoreline Zone (NPR)	6,000	375	42,000																														
Causeway Bay	TBW	94	10,500																														
Shoreline Zone	TGBR	375	42,000																														
PCWA Zone	5,000	313	35,000																														

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures				Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines																		
							Des	C	O	Dec																			
	<table border="1"> <tr> <td>Wan Chai Shoreline Zone (WCR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>HKCEC Shoreline Zone (HKCEC)</td> <td>HKCEC Stage 1 &amp; 3</td> <td>1,500</td> <td>94</td> </tr> <tr> <td></td> <td>HKCEC Stage 2</td> <td>6,000</td> <td>375</td> </tr> <tr> <td>Cross Harbour Water Mains</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Wan Chai East Submarine Sewage Pipeline</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> </table> <p>Note: 1,500 m<sup>3</sup> per day shall be applied for construction of the western seawall of WCR1.</p>	Wan Chai Shoreline Zone (WCR)	6,000	375	42,000	HKCEC Shoreline Zone (HKCEC)	HKCEC Stage 1 & 3	1,500	94		HKCEC Stage 2	6,000	375	Cross Harbour Water Mains	1,500	94	10,500	Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500								
Wan Chai Shoreline Zone (WCR)	6,000	375	42,000																										
HKCEC Shoreline Zone (HKCEC)	HKCEC Stage 1 & 3	1,500	94																										
	HKCEC Stage 2	6,000	375																										
Cross Harbour Water Mains	1,500	94	10,500																										
Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500																										
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m <sup>3</sup> per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																				
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																				
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																				
S5.8, Figure 5.3	<p>Silt screens shall be applied to seawater intakes at interim construction stages as stated below:</p> <table border="1"> <thead> <tr> <th>Interim Construction Stage</th> <th>Location of Applications</th> </tr> </thead> <tbody> <tr> <td>Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,</td> <td>WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South</td> </tr> <tr> <td></td> <td>Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong</td> </tr> </tbody> </table>	Interim Construction Stage	Location of Applications	Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,	WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South		Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO														
Interim Construction Stage	Location of Applications																												
Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,	WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South																												
	Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong																												

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines						
					Des	C	O	Dec							
	<table border="1"> <tr> <td>TBW, NP and Water Mains Zone</td> <td>Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre</td> </tr> <tr> <td>Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.</td> <td>WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.</td> </tr> <tr> <td>Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.</td> <td>WSD saltwater intakes at Sheung Wan and Re-provisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel &amp; World Trade Centre and re-provisioned Windsor House.</td> </tr> </table>	TBW, NP and Water Mains Zone	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre	Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Re-provisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and re-provisioned Windsor House.								
TBW, NP and Water Mains Zone	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre														
Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.														
Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Re-provisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and re-provisioned Windsor House.														
S5.8	<p>Other mitigation measures include:</p> <ul style="list-style-type: none"> <li>mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used;</li> <li>all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;</li> <li>loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and</li> </ul>	Work site / During the construction period	Contractor		√				ProPECC PN 1/94; WPCO (TM-DSS)						

Appendix 3.1

EIA 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>before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.</li> </ul>							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging rate shall be reduced as much as practicable. Site audit and water quality monitoring shall be carried out at the seawater intakes during the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Implementation of harbour-front enhancement.	CEDD <sup>3</sup>		√			WPCO

Appendix 3.1



EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>For the Whole Project</b>								
S5.8	<ul style="list-style-type: none"> <li>Construction Runoff and Drainage</li> <li>use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow;</li> <li>Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;</li> <li>a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal;</li> <li>oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain;</li> <li>precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events;</li> <li>on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge;</li> <li>All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer</li> </ul>	<ul style="list-style-type: none"> <li>Work site / During the construction period</li> </ul>	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

<sup>3</sup> CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>required.</p> <ul style="list-style-type: none"> <li>All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity.</li> </ul>							
	<ul style="list-style-type: none"> <li>Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.</li> </ul>							
S5.8	<p><i>Sewage from Construction Work Force</i></p> <p>Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.</p>	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<p><i>Floating Debris and Refuse</i></p> <p>Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.</p>	Work site and adjacent water / During the construction period.	Contractor		√			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	<p><i>Storm Water Discharges</i></p> <p>Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.</p>	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
<b>Operation Phase</b>								
<b>DPI – CWB (within the Project Boundary)</b>								
S5.8	<p>For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO:</p> <ul style="list-style-type: none"> <li>The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes.</li> <li>Petrol interceptors shall be regularly cleaned and maintained in good working condition.</li> <li>Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.</li> <li>Sewage arising from ancillary facilities of CWB (for examples, car park,</li> </ul>	CWB/During design and operational period	HyD/TD <sup>3</sup>	√		√		WPCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities.</p> <ul style="list-style-type: none"> <li>Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff.</li> <li>The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.</li> </ul>							

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

<sup>3</sup> if employ Management, Operation and Maintenance (MOM) Contract

Appendix 3.1

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For DP3 – Reclamation Works</i>								
S6.7.2	<p><b>Marine Sediments</b></p> <p>The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 34/2002
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm <sup>3</sup> . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
S6.7.6	<p>During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality:</p> <ul style="list-style-type: none"> <li>Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.</li> </ul>							

Appendix 3.1

EIA 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>Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.</li> <li>Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.</li> </ul>							
S6.6.12	<p><b>Floating Refuse</b></p> <p>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 13.3.</p>	Work site / During the construction period	Contractor		√			
<i>For the Whole Project</i>								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.7	<p><b>Good Site Practices</b></p> <p>Recommendations for good site practices during the construction activities include:</p> <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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.8	<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	√	√			

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.10	<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)
S6.7.11	<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		√			Waste Disposal (Chemical Waste) (General) Regulation  Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	<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

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling 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
S6.7.14	<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

Appendix 3.1

Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
S.12.6	<ul style="list-style-type: none"> <li>The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.</li> </ul>	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re-provisioned Tin Hau Temple	√				<p>"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR</p> <p>EPD ProPECC Note No. 3/94</p>
S7.10	<p>During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation:</p> <ul style="list-style-type: none"> <li>Excavation profiles must be properly designed and executed;</li> <li>In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;</li> <li>Quantities of soil to be excavated must be estimated;</li> <li>It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination.</li> <li>Temporary storage of soil at intermediate depot or on-site</li> </ul>	A King Marine / During soil remediation works	Contractor	√				<p>Air Pollution Control Ordinance</p> <p>Noise Control Ordinance</p> <p>Waste Disposal Ordinance</p> <p>Waste Disposal (Chemical Waste) (General) Regulation</p>

Appendix 3.1



EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	<ul style="list-style-type: none"> <li>Supply of suitable clean backfill materials is needed after excavation.</li> <li>Care must be taken of existing buildings and utilities.</li> <li>Precautions must be taken to control of ground settlement</li> <li>Speed controls for vehicles shall be imposed on dusty site areas.</li> <li>Vehicle wheel and body washing facilities at the site's exit points shall be established and used.</li> </ul> <p>The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities:</p>							Water Pollution Control Ordinance

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Air Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system.</li> <li>The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations.</li> <li>All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement.</li> <li>Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.</li> </ul>							
	<p><u>Noise Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers.</li> <li>Simultaneous operation of mixing facilities and other equipment shall be avoided.</li> <li>Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers.</li> <li>Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).</li> </ul>							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Water Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following the requirements of WPCO.</li> </ul> <p><u>Waste Mitigation Measures</u></p> <ul style="list-style-type: none"> <li>Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment.</li> <li>Stabilized soils shall be broken into suitable size for backfilling or reuse on site.</li> <li>A high standard of housekeeping shall be maintained within the mixing plant area.</li> <li>If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials.</li> </ul>							

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

**Table A13.6 Implementation Schedule for Marine Ecology**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<b>For the Whole Project - Schedule 3 DP</b>								
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
<b>For DP3 - Reclamation Works</b>								
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	√				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.4	<p>During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following:</p> <ul style="list-style-type: none"> <li>• Installation of silt curtains during dredging activities</li> <li>• Use of tightly-closed grab dredger</li> <li>• Reduction of dredging rate</li> <li>• Control of grab descending speed</li> <li>• Construction of leading edges of seawall in the early stages of the reclamation works</li> </ul>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	<ul style="list-style-type: none"> <li>• Adoption of multiple-phase construction schedule</li> </ul>							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S.9.7.6	<p>To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended:</p> <ul style="list-style-type: none"> <li>• Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible.</li> <li>• Adoption of multiple-phase construction schedule.</li> <li>• General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented.</li> </ul>	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

Appendix 3.1

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
<b>Construction Phase</b>								
<i>For the Whole Project</i>								
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
<i>For DP1 – CWB (Within the Project Boundary)</i>								
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

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
<i>For DP2 – WDII Major Roads (Road P2)</i>								
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
<i>For DP3 – Reclamation Works</i>								
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
<i>For DP5 – Wan Chai East Sewage Outfall</i>								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui</b>								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
<b>Operation Phase</b>								
<b>For the Whole Project - Schedule 3 DP</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	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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	CEDD/HyD/	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD <sup>4</sup>	√	√	√		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	CEDD/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	CEDD/HyD	√	√	√		ETWB TCW 2/2004
<b>For DP1 – CWB (Within the Project Boundary)</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	OM2 Shrub and Climbing Plants to soften proposed structures	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
<b>For DP2 – WDII Major Roads (Road P2)</b>								

<sup>4</sup> CEDD will identify an implementation agent

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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	CEDD/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	CEDD/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	CEDD/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	CEDD/HyD		√	√		ETWB TCW 2/2004
<b>For DP3 – Reclamation Works</b>								
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD <sup>5</sup>	√	√	√		ETWB TCW 2/2004

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

<sup>5</sup> CEDD will identify an implementation agent





***Appendix 3.1***

***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) <sup>Note 1</sup>

Note 1:

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

**Action and Limit Level for Air Quality Monitoring**

Monitoring Location	1-hour TSP 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
CMA6a	300.1	500	187.3	260

**Action and Limit Level for Water Quality Monitoring**

Parameters	Dry Season		Wet Season	
	Action	Limit	Action	Limit
<b>WSD Salt Water Intake</b>				
SS in $\text{mg L}^{-1}$	13.00	14.43	16.26	19.74
Turbidity in NTU	8.04	9.49	10.01	11.54
DO in mg/L	3.66	3.28	3.17	2.63
<b>Cooling Water Intake</b>				
SS in $\text{mg L}^{-1}$	15.00	22.13	18.42	27.54
Turbidity in NTU	9.10	10.25	11.35	12.71
DO in mg/L	3.36	2.73	3.02	2.44

Remarks:

- Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.

**Action and Limit Level for Enhance DO Monitoring**

Parameters	Depth	Dry Season		Wet Season	
		Action	Limit	Action	Limit
C6	Surface and Middle	3.13	2.00	2.60	2.00
	Bottom	4.14	3.33	2.91	2.34
C7	Surface and Middle	3.87	3.09	3.31	2.57
	Bottom	3.91	3.53	2.75	2.48
Ex-WPCWA SW	Surface and Middle	3.84	3.73	3.19	3.10
	Bottom	4.71	4.63	3.31	3.25
Ex-WPCWA SE	Surface and Middle	4.26	3.61	3.55	3.00
	Bottom	5.36	5.35	3.76	3.76

**Action and Limit Levels for Odour Patrol**

Parameters	Action	Limit
Odour Nuisance (from odour intensity analysis or odour patrol)	<ul style="list-style-type: none"> <li>• When two documented complaint are received; or</li> <li>• Odour Intensity of 2 is measured from odour intensity analysis.</li> </ul>	<ul style="list-style-type: none"> <li>• Five or more consecutive genuine documented complaints within a week; or</li> <li>• Odour Intensity of 3 or above is measured from odour intensity analysis.</li> </ul>



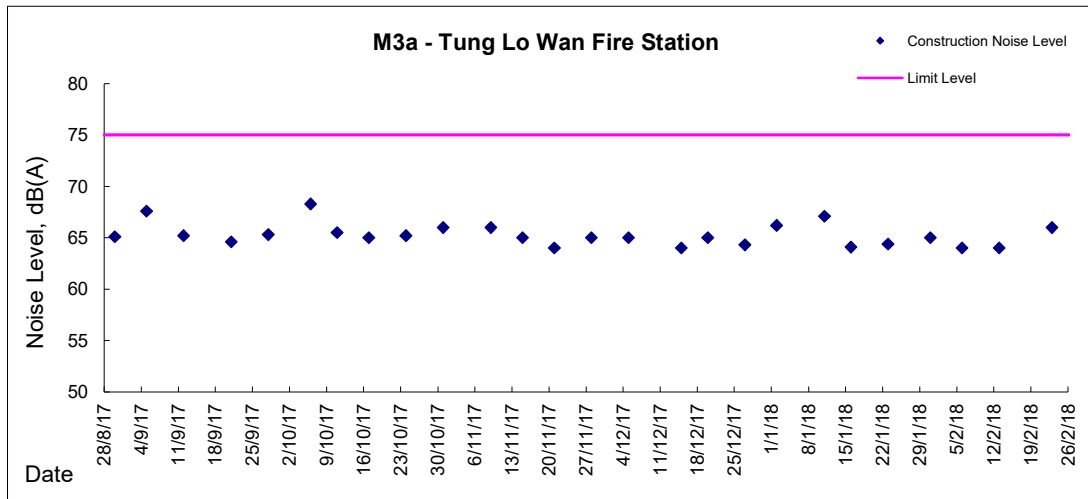
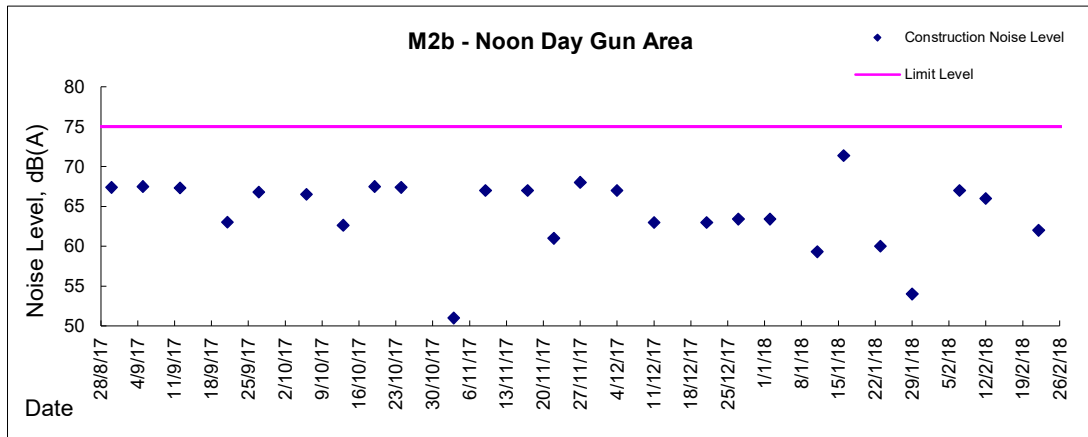
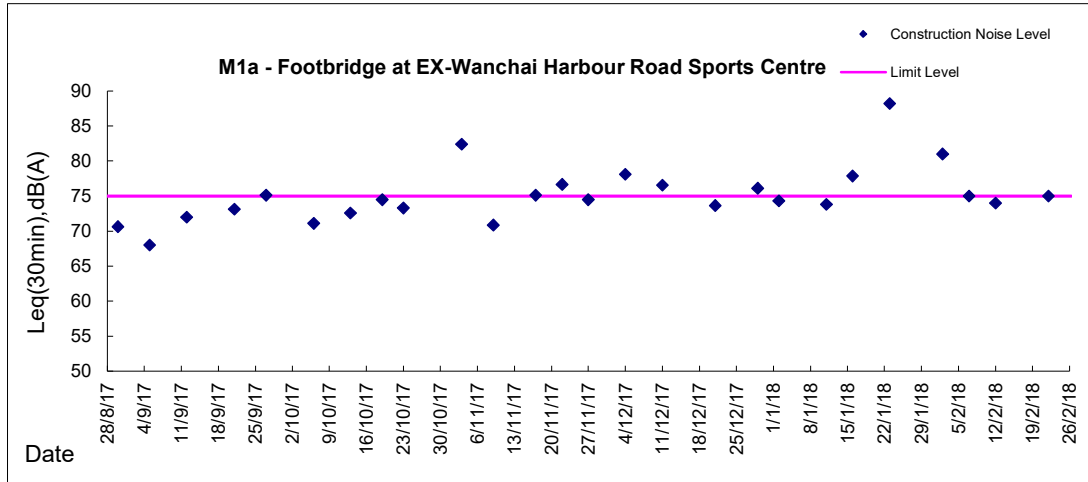
***Appendix 4.1***

***Noise Monitoring Graphical Presentations***



Graphic Presentation of Noise Monitoring Result

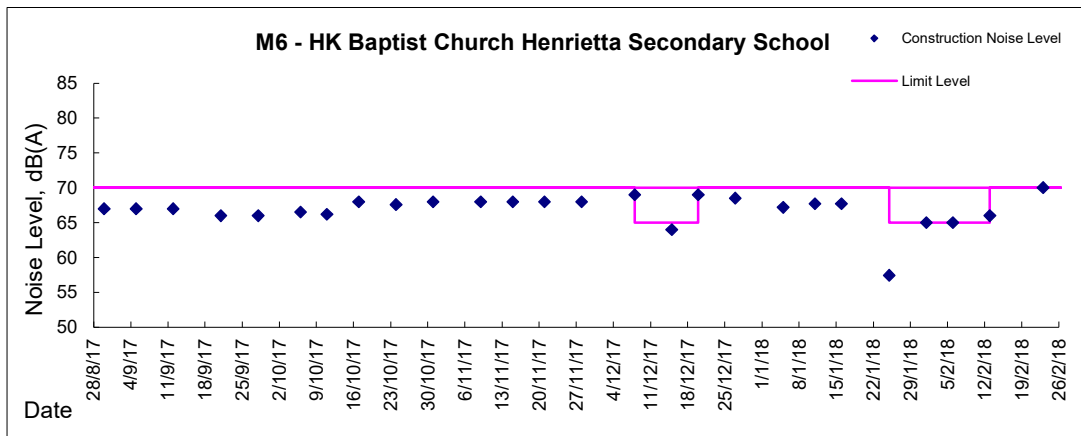
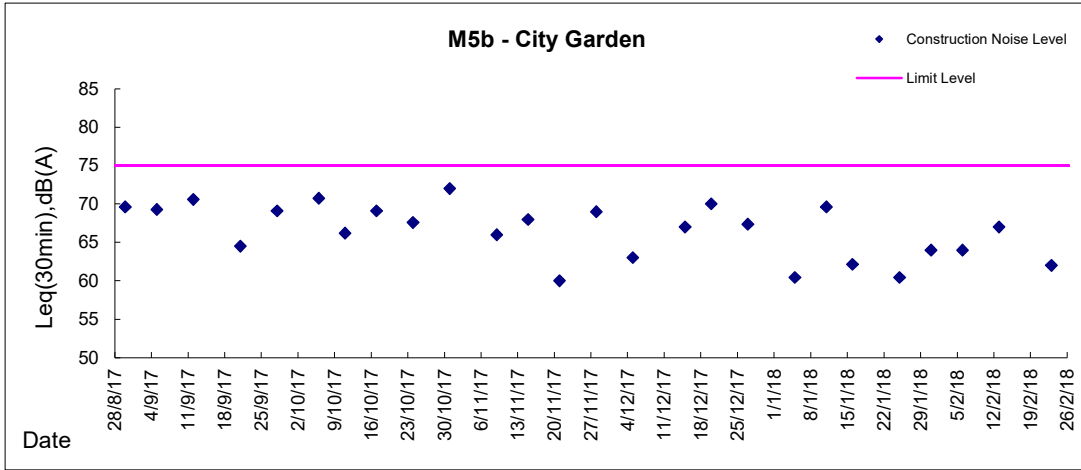
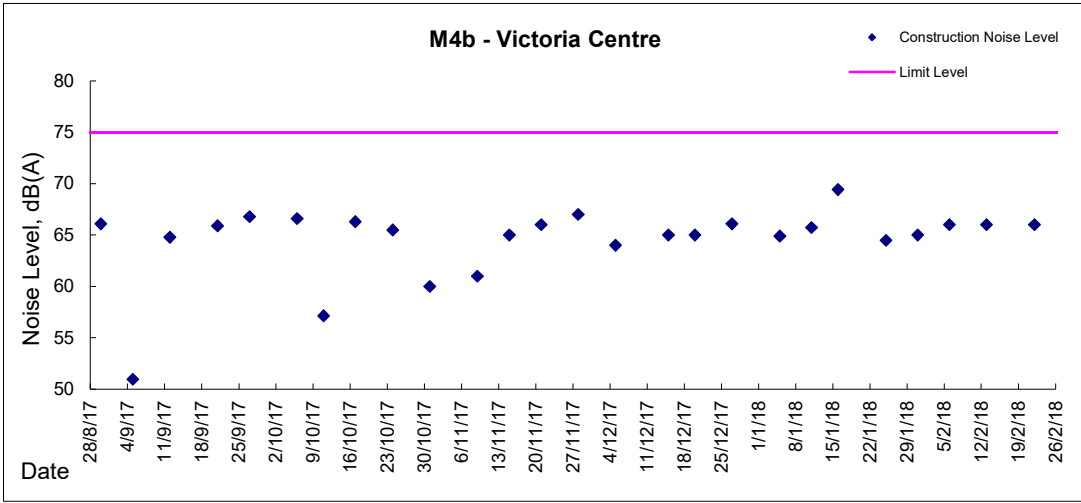
Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

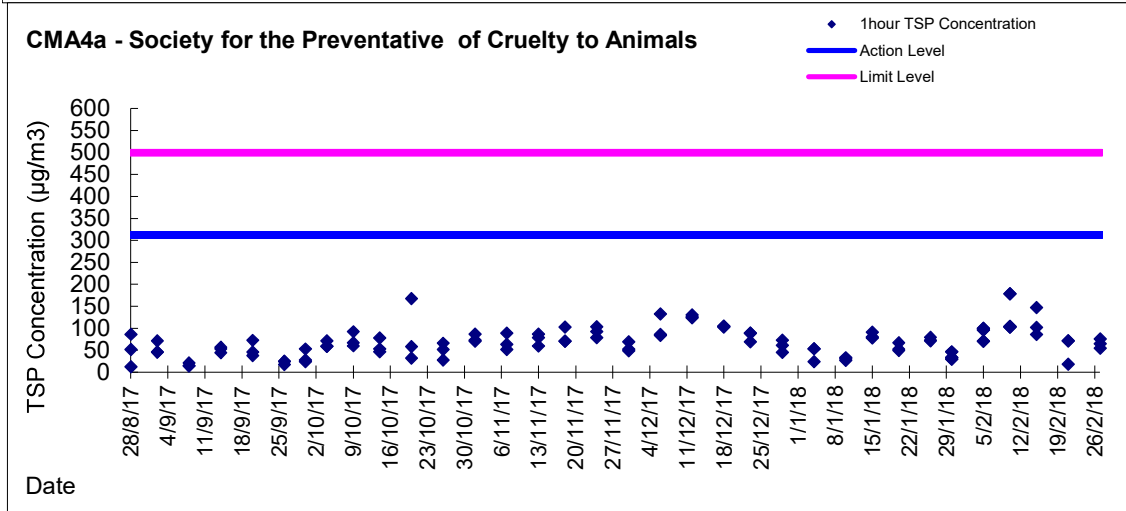
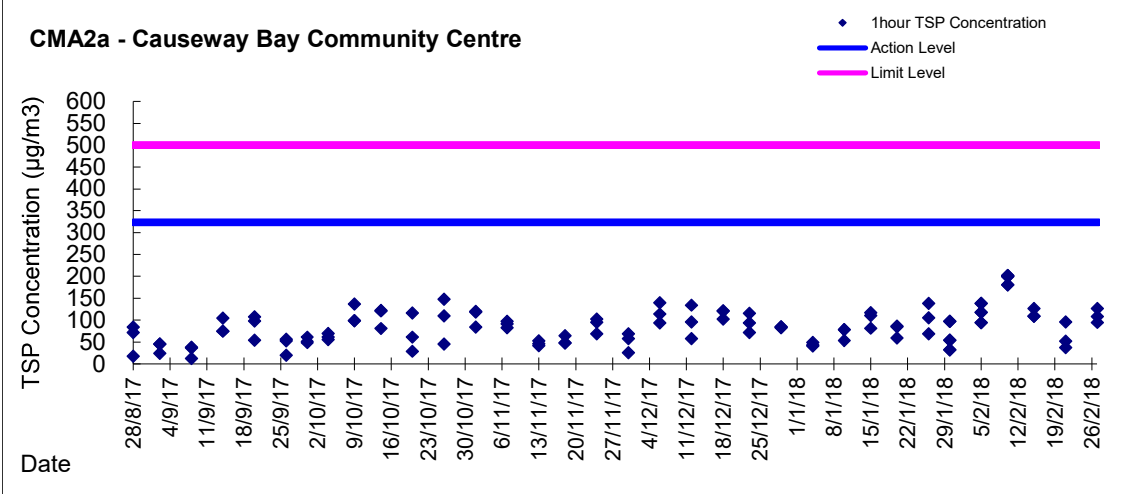
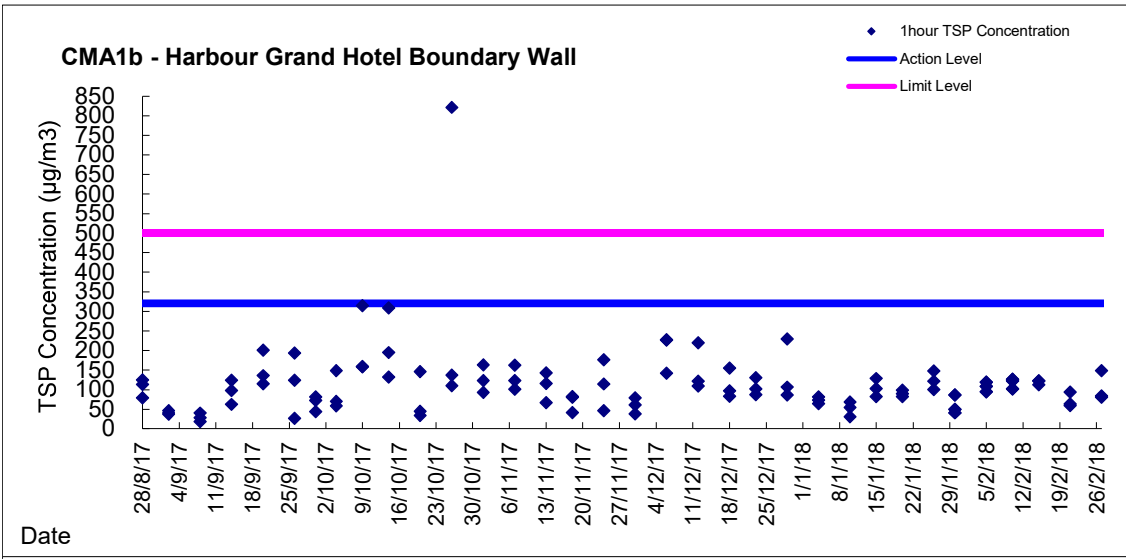




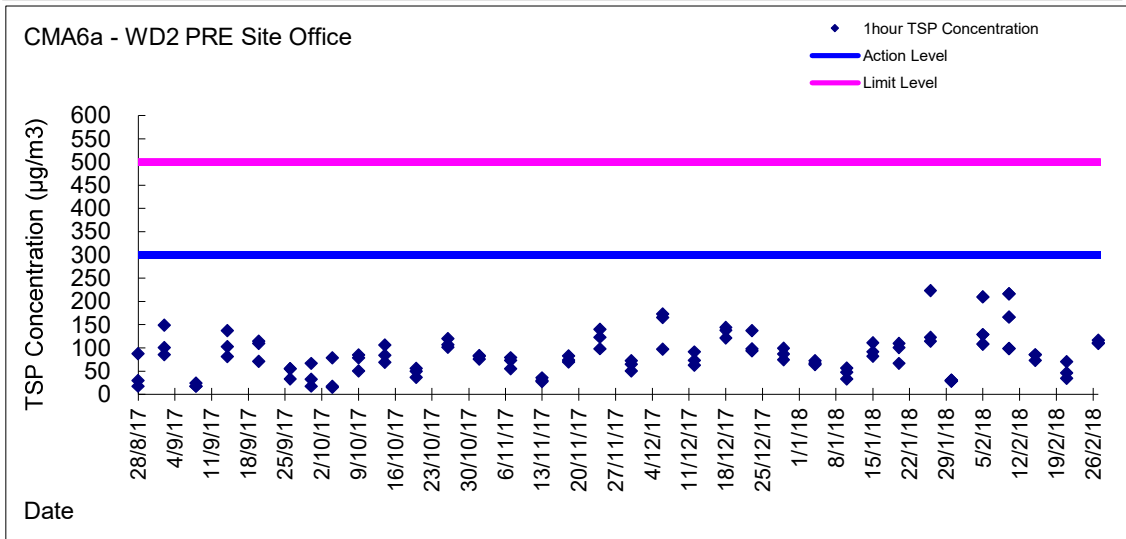
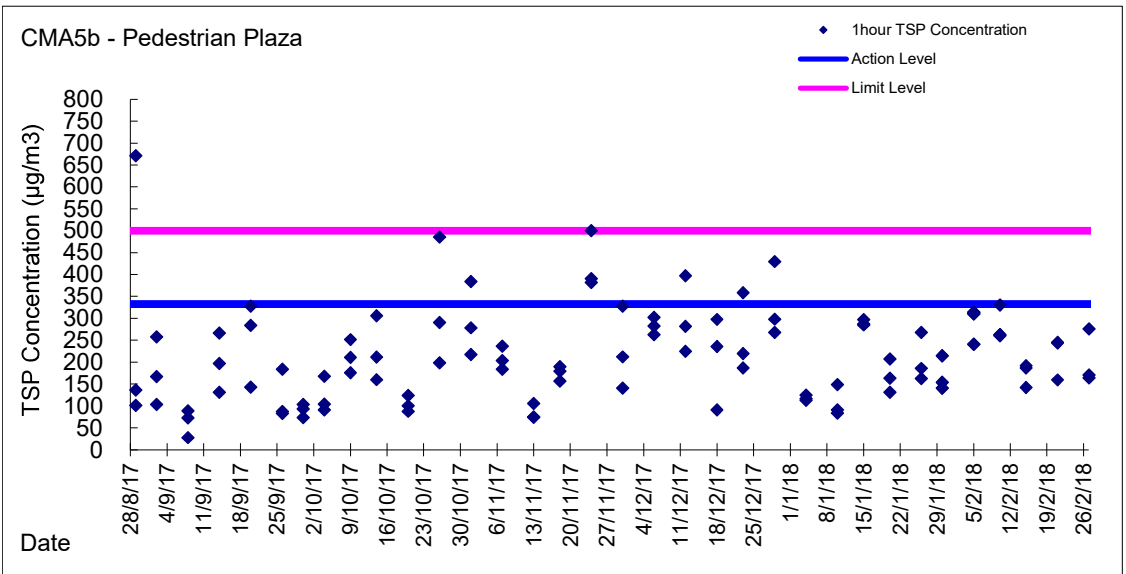
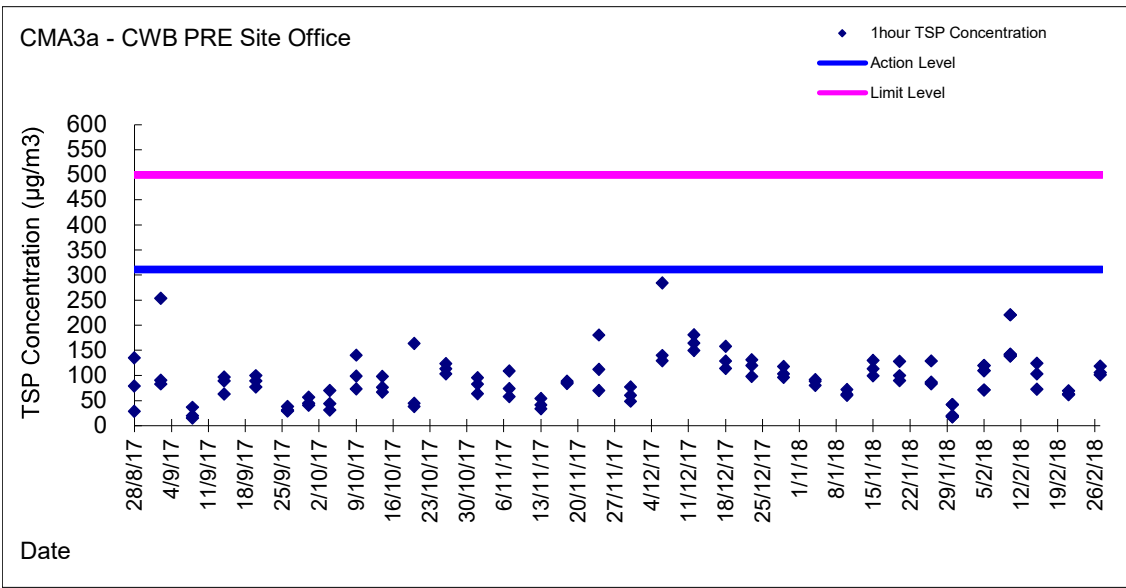
***Appendix 4.2***  
***Air Quality Monitoring Graphical Presentations***



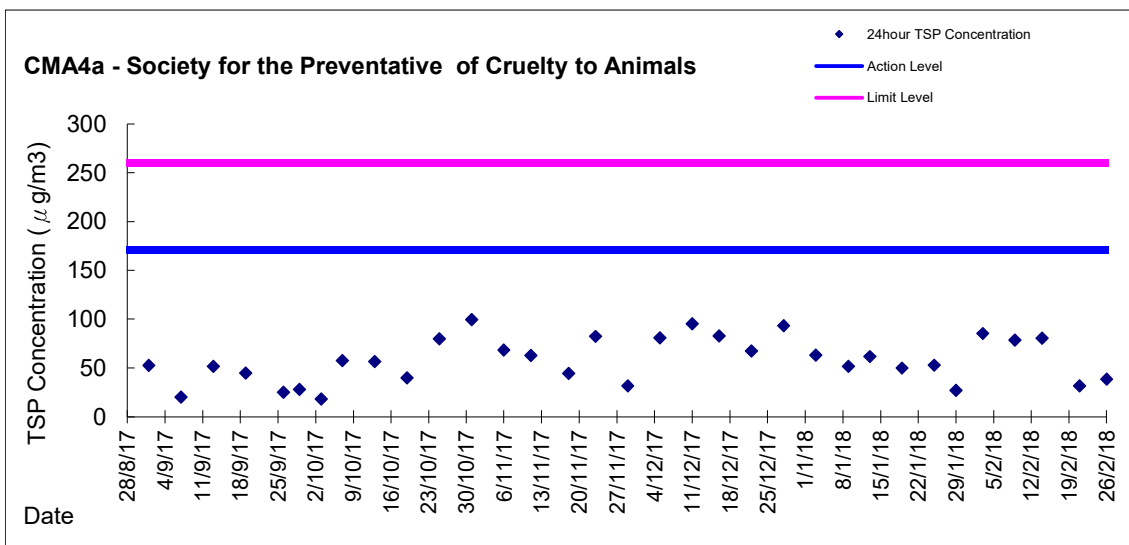
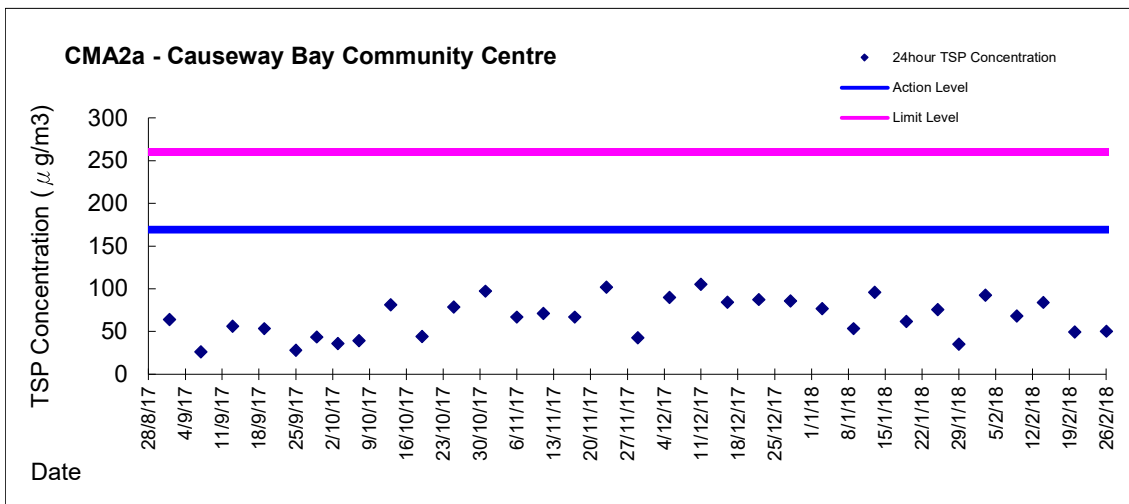
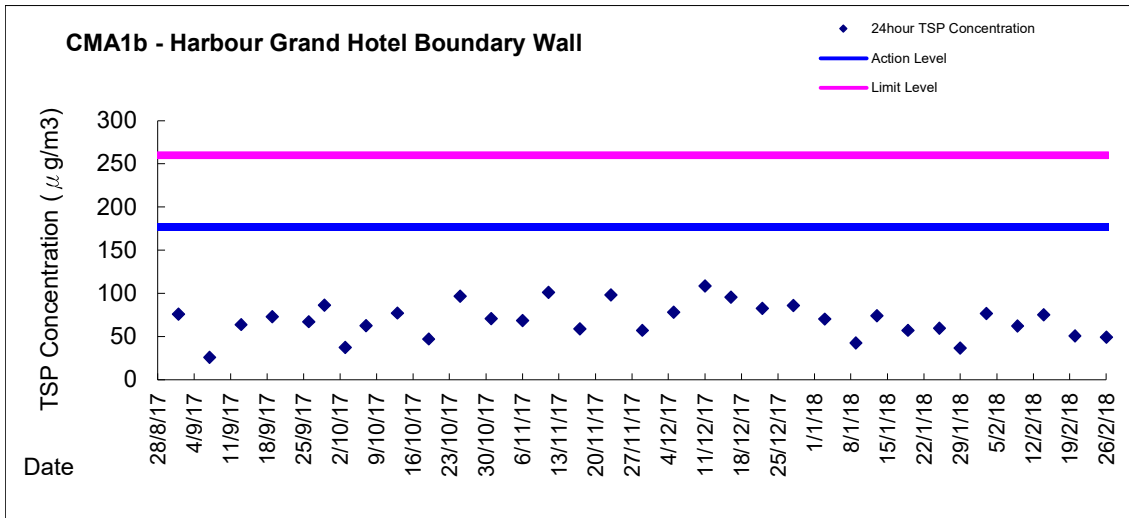
Graphic Presentation of 1 hour TSP Result



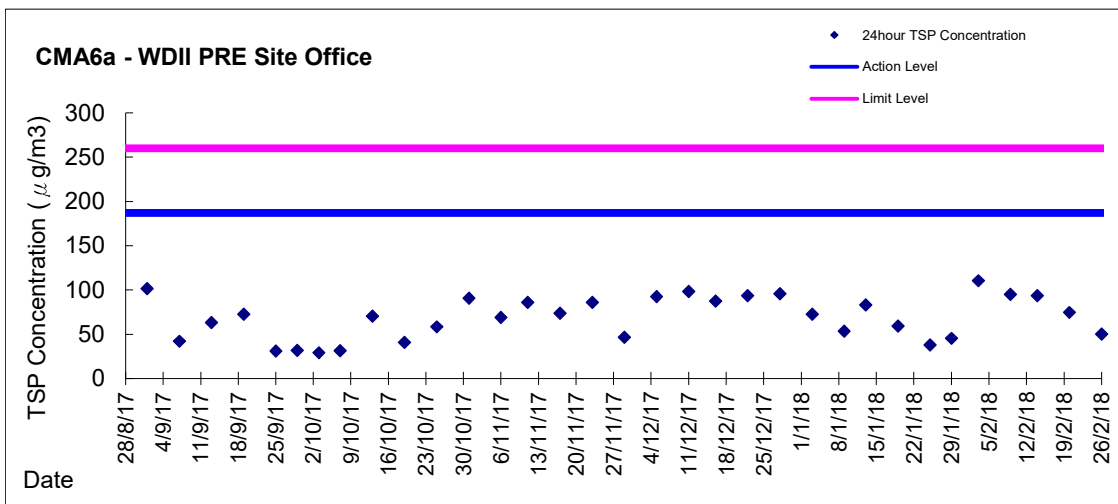
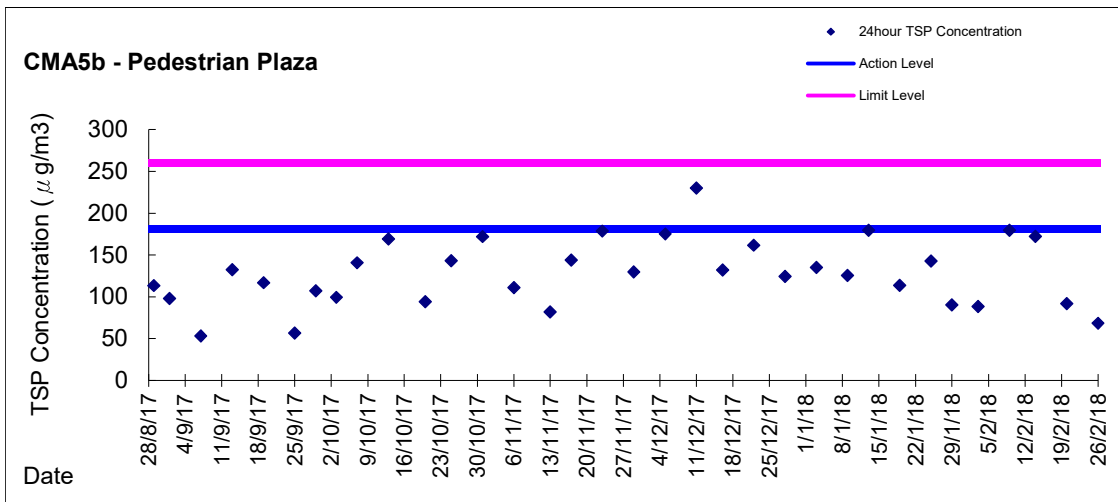
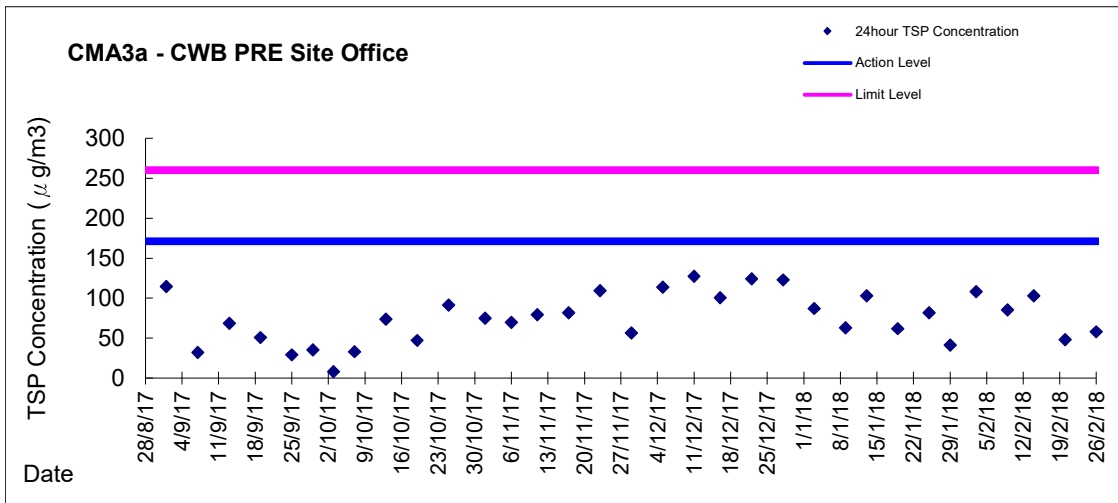
Graphic Presentation of 1 hour TSP Result



Graphic Presentation of 24 hour TSP Result



Graphic Presentation of 24 hour TSP Result



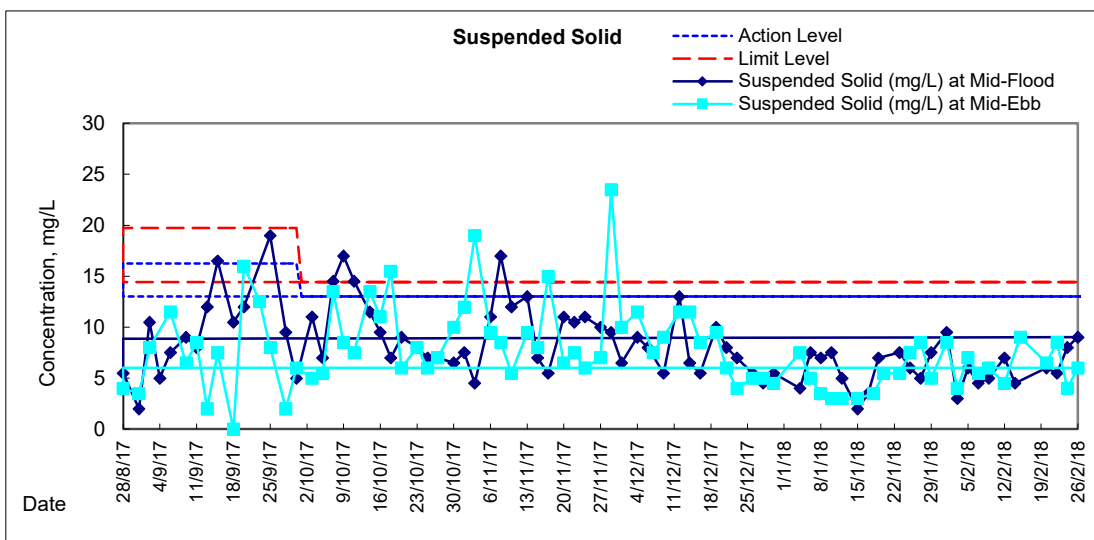
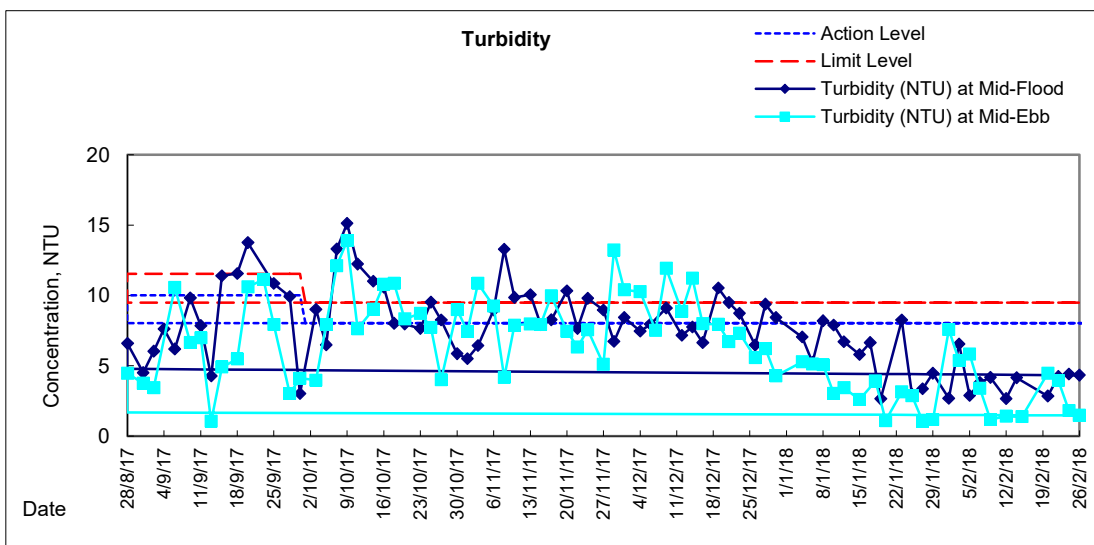
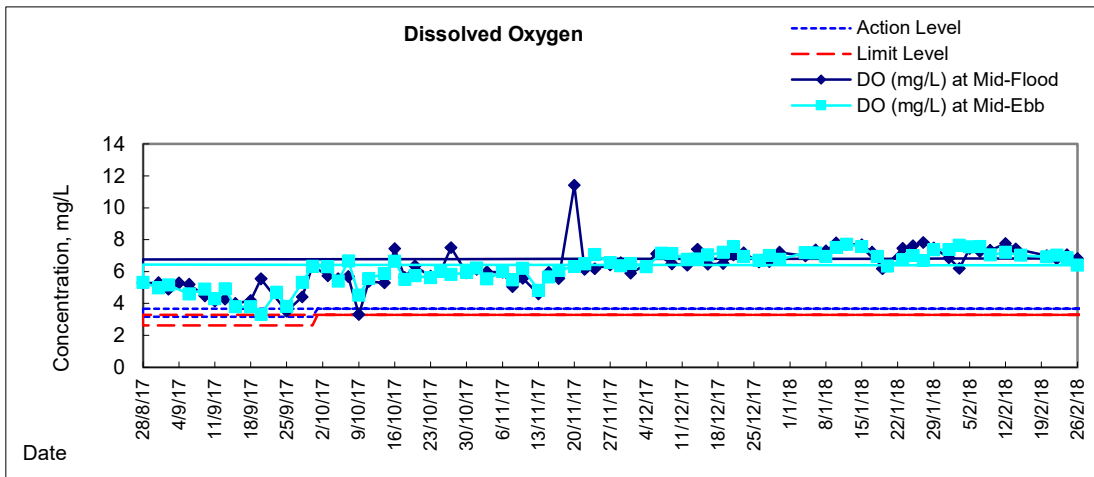


***Appendix 4.3***

***Water Quality Monitoring Graphical Presentations***



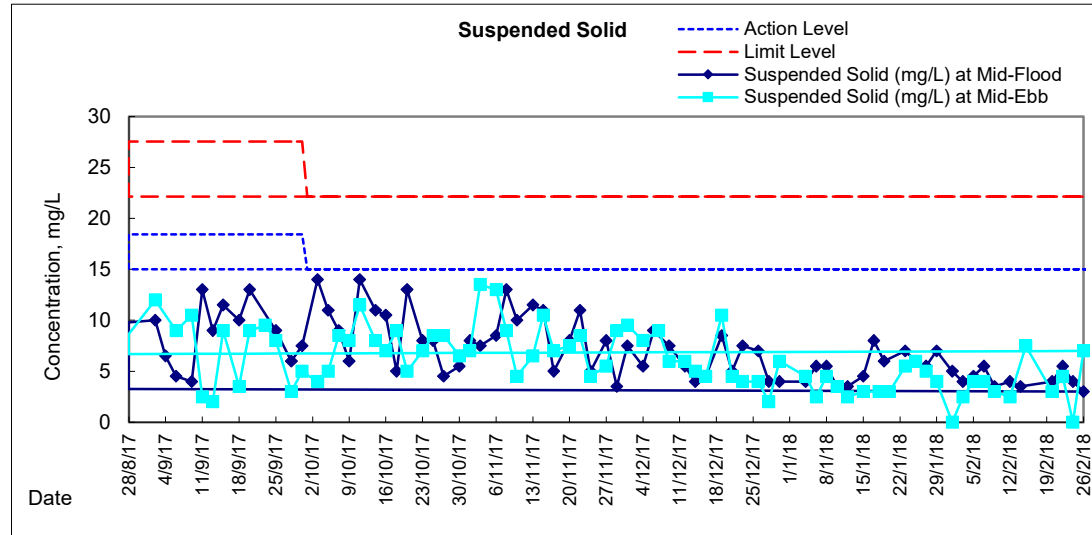
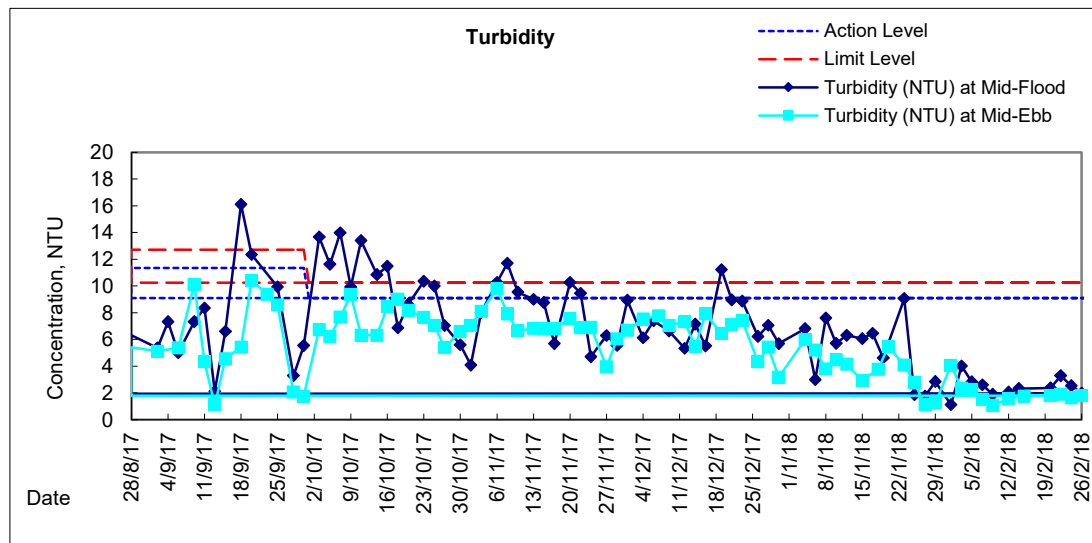
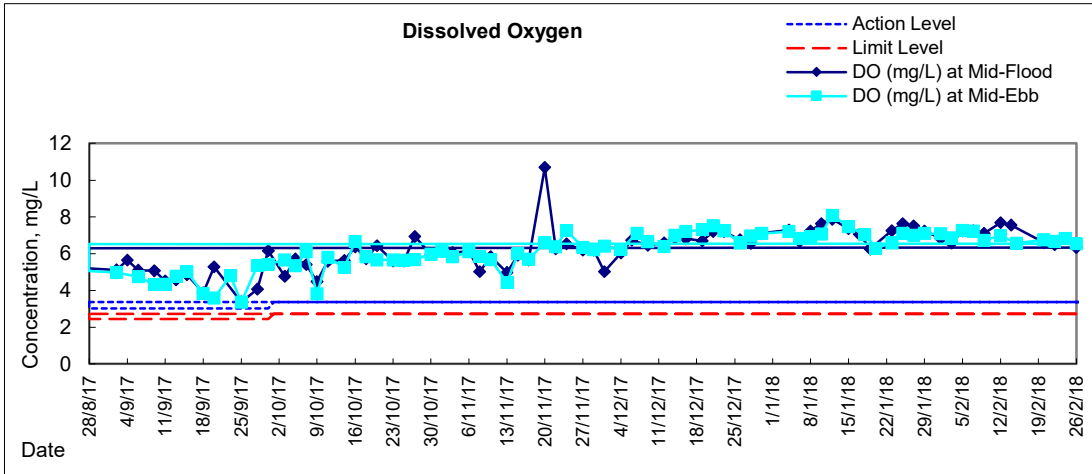
# Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan





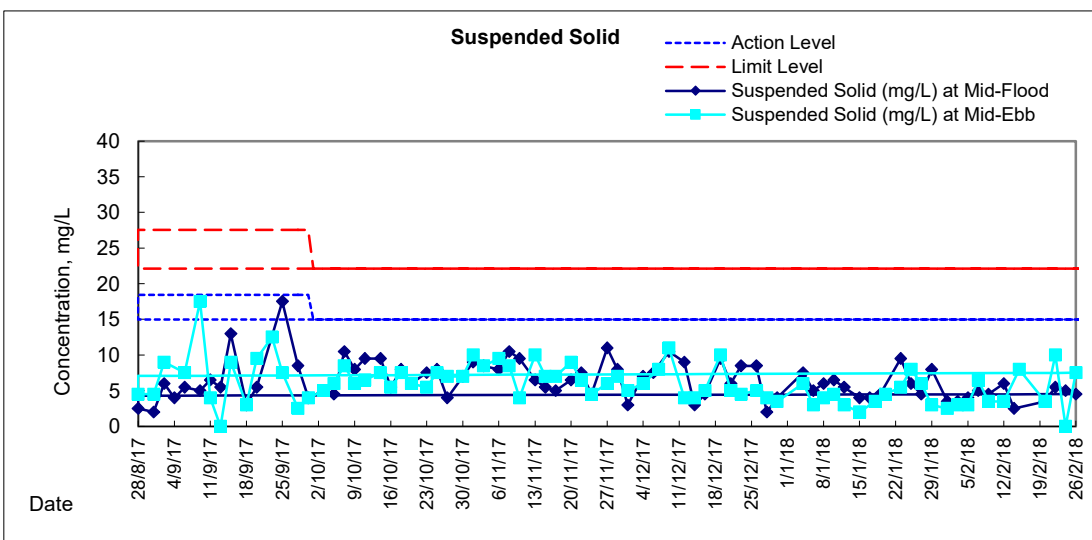
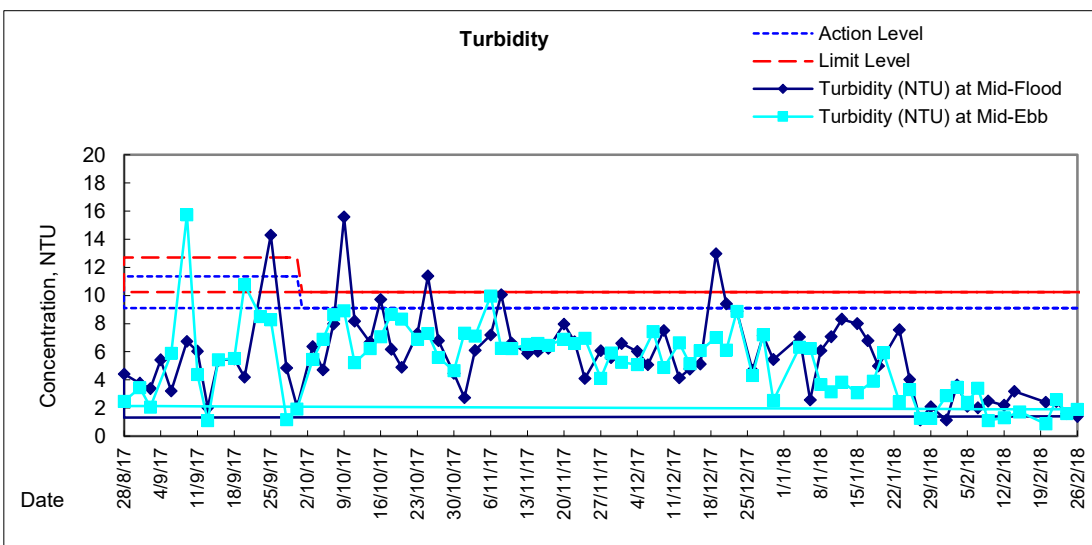
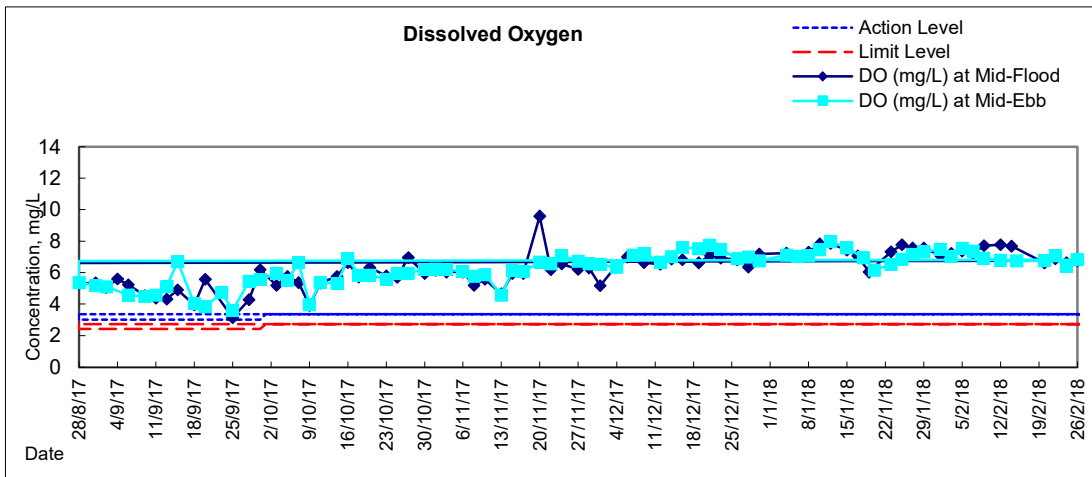


### Graphic Presentation of Water Quality Result of C1 - HKCEC



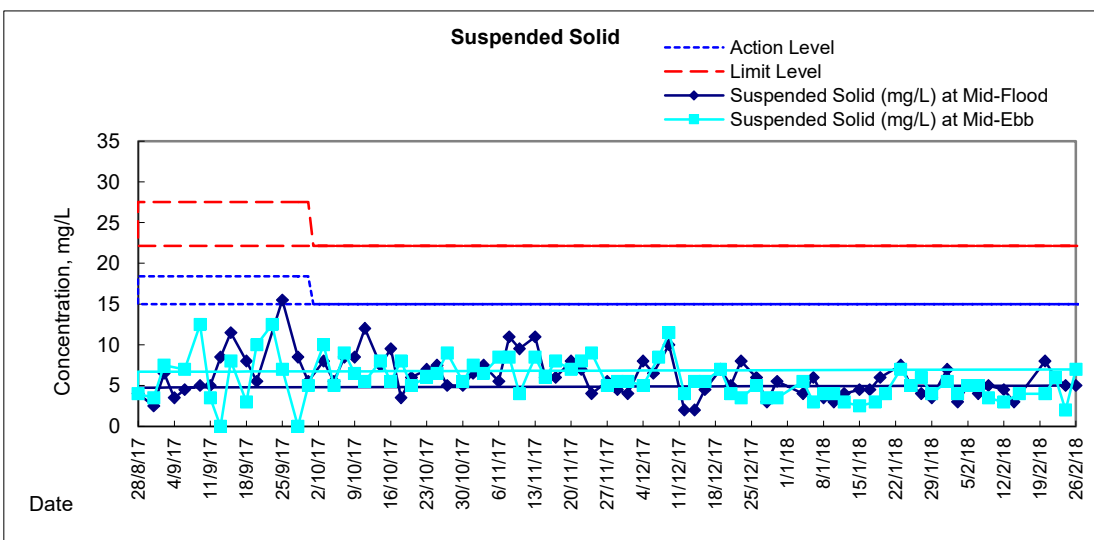
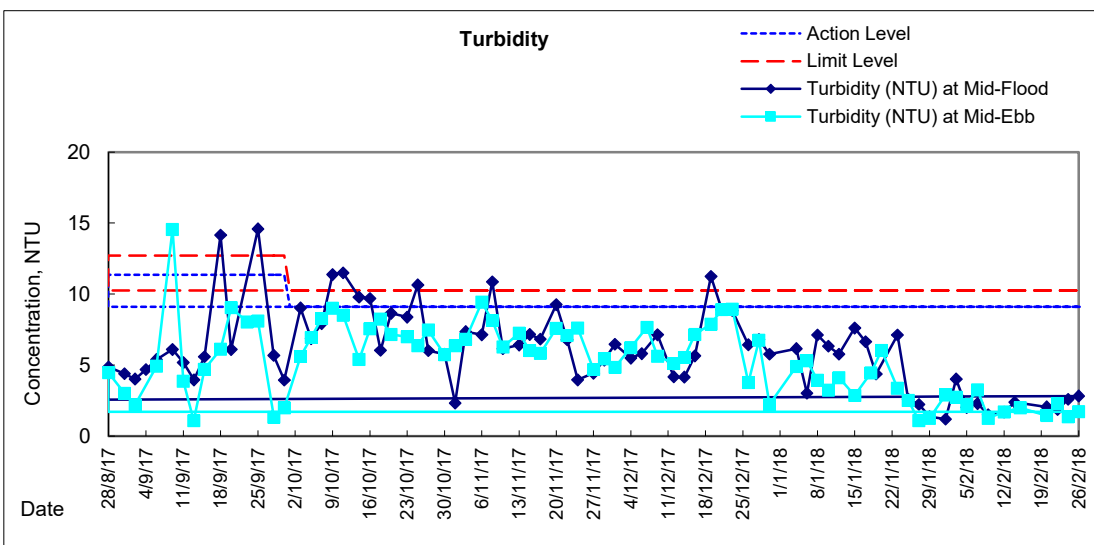
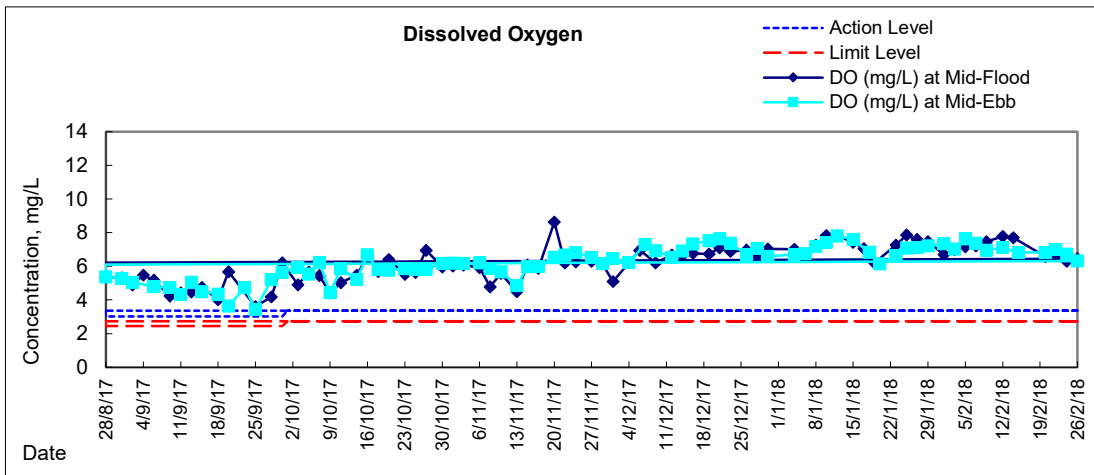


# Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I



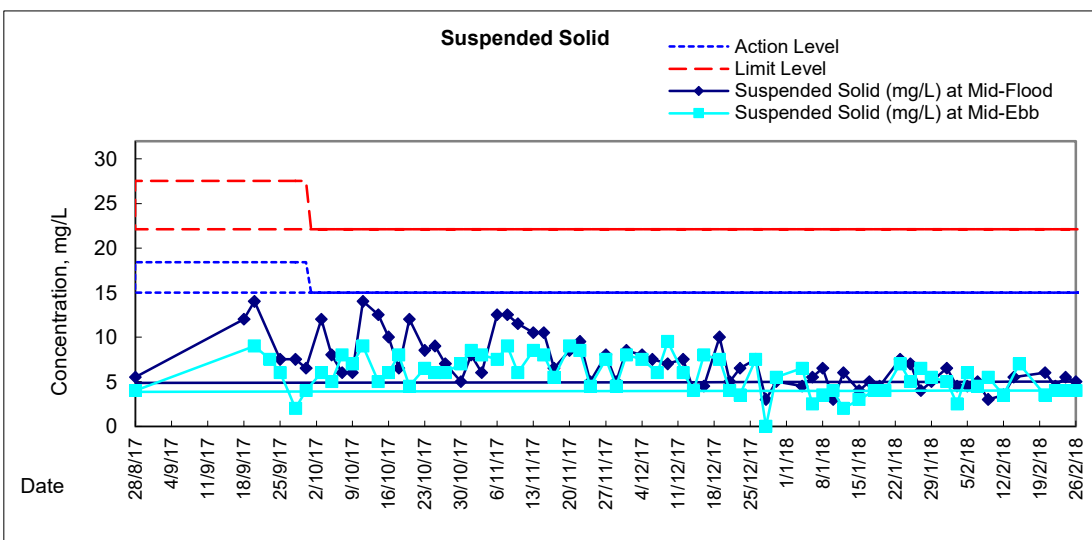
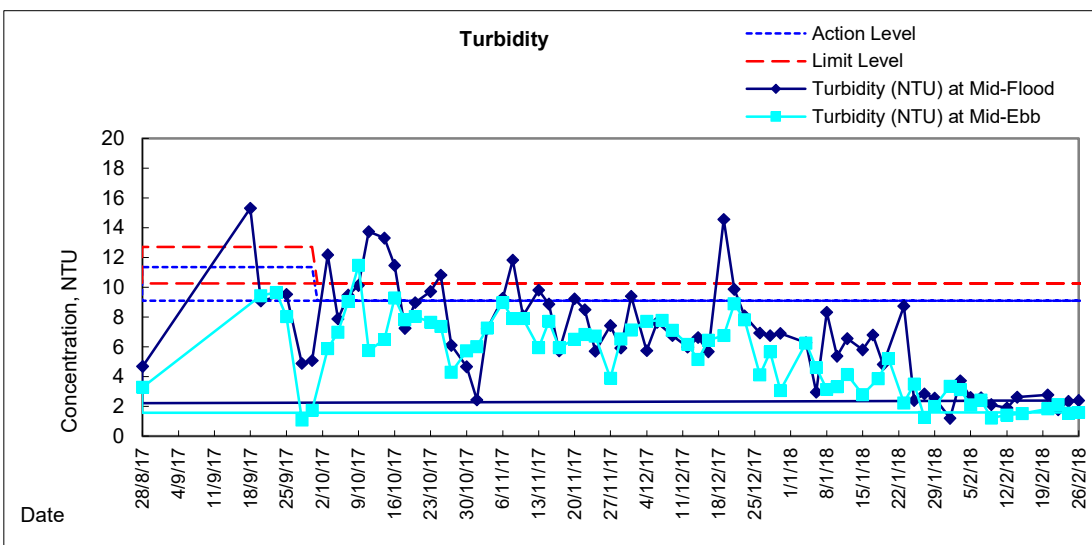
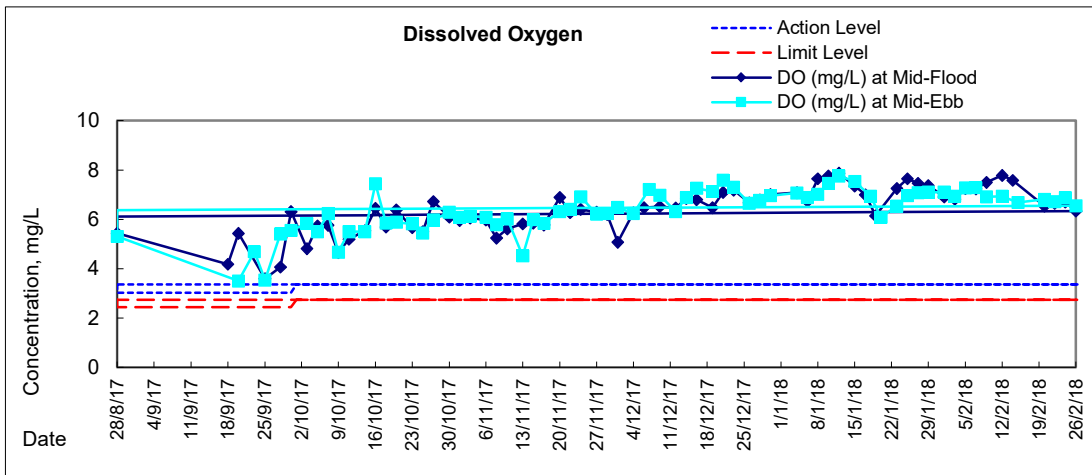


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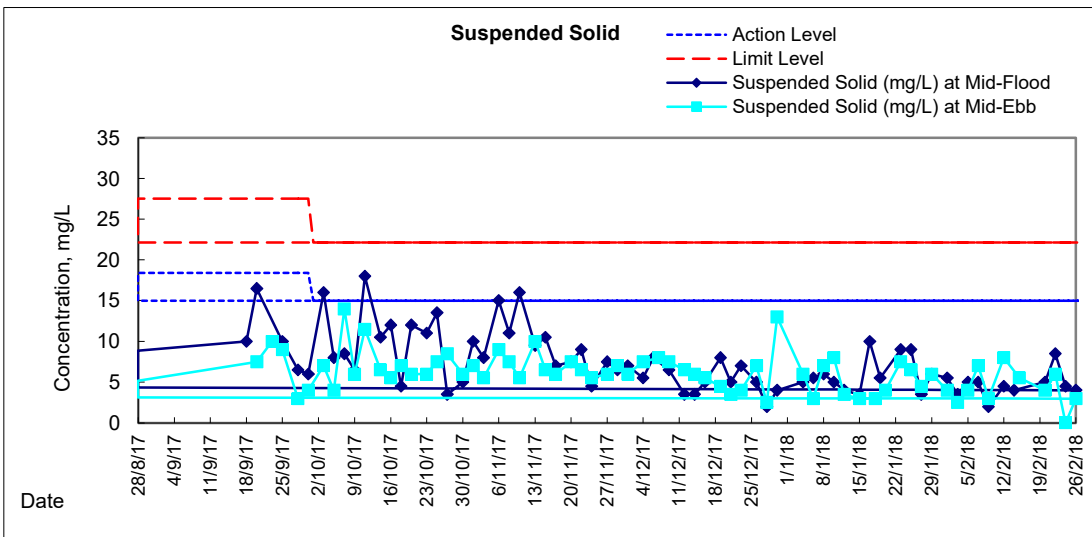
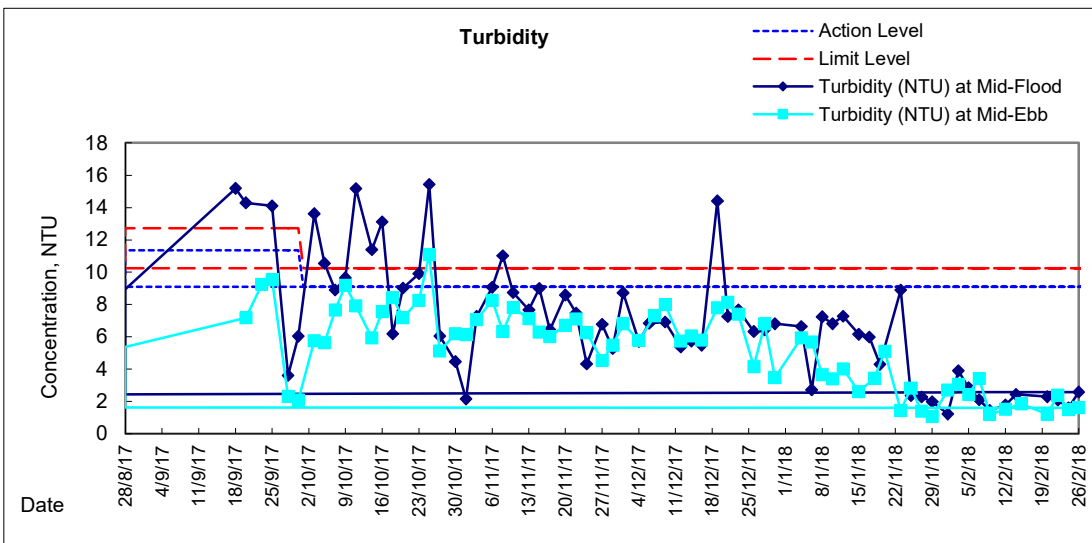
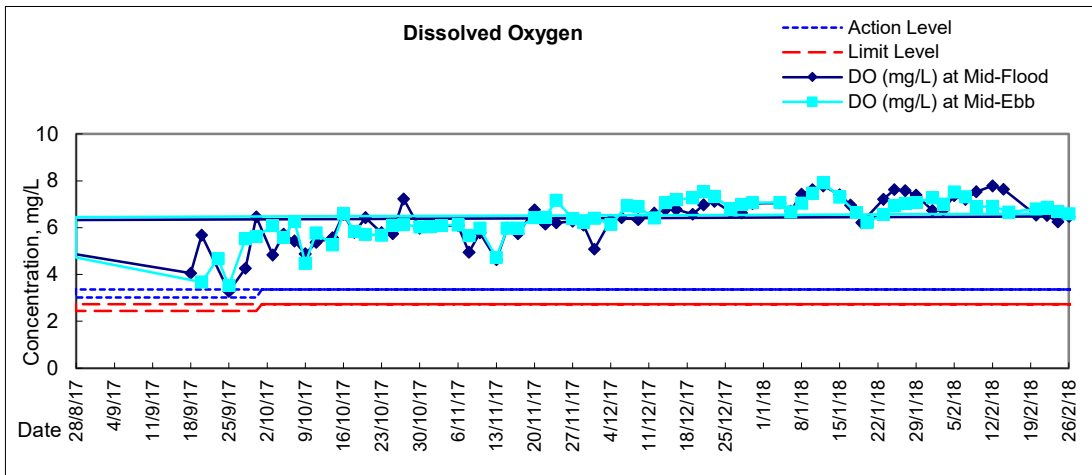


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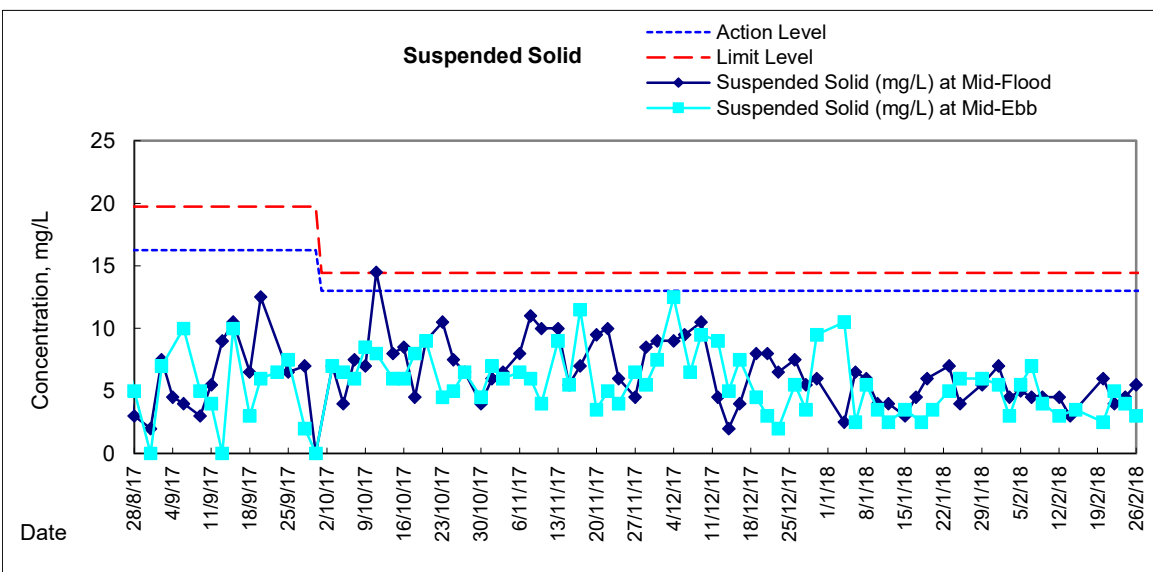
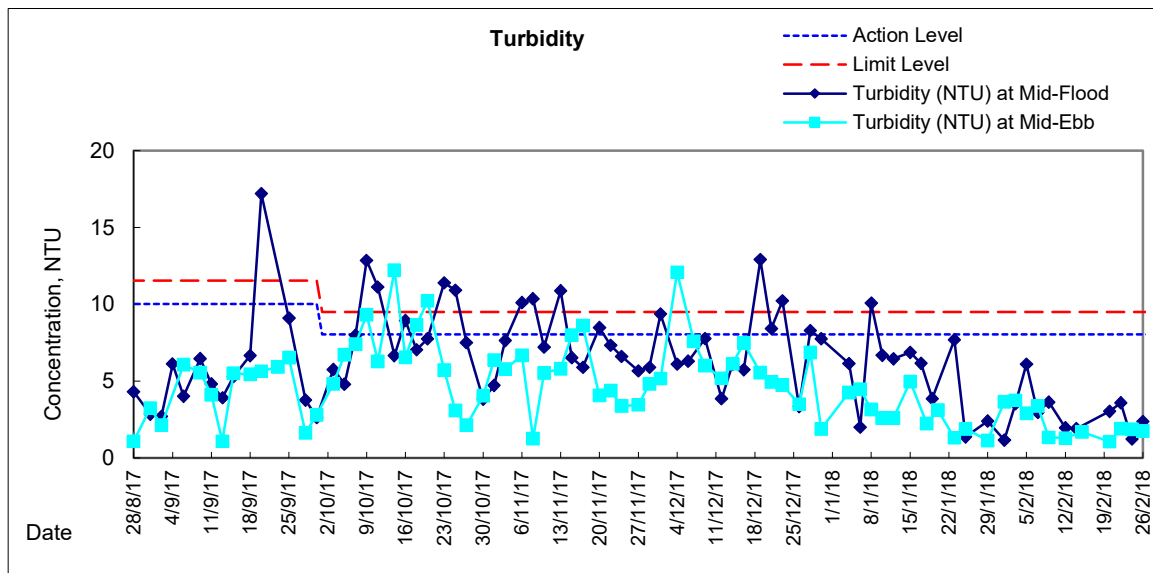
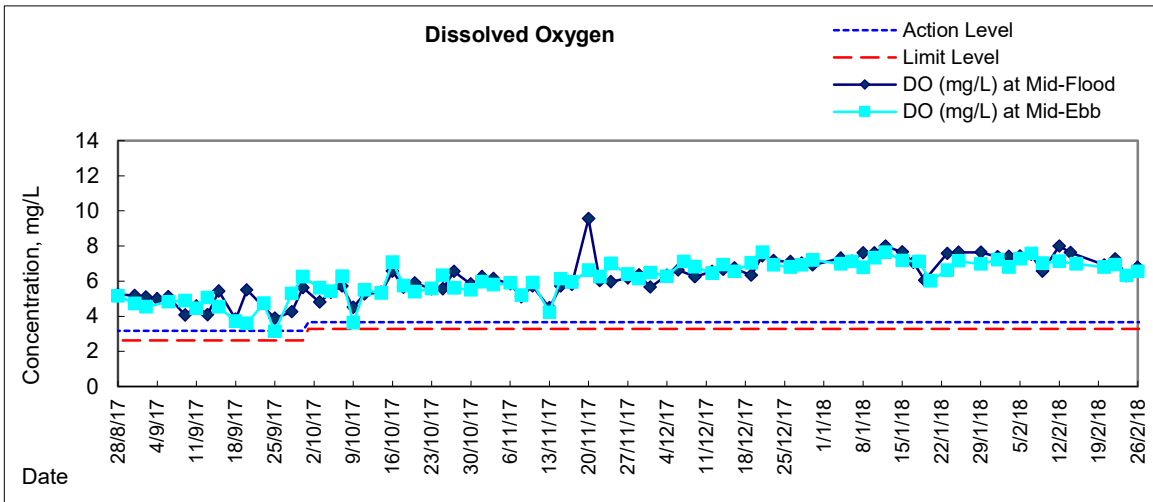


## Graphic Presentation of Water Quality Result of P4 - SOC



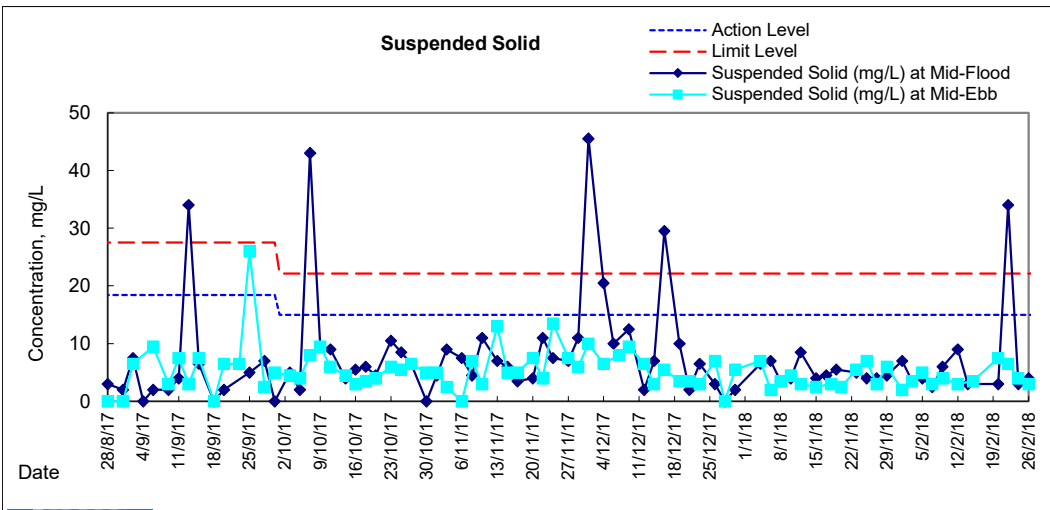
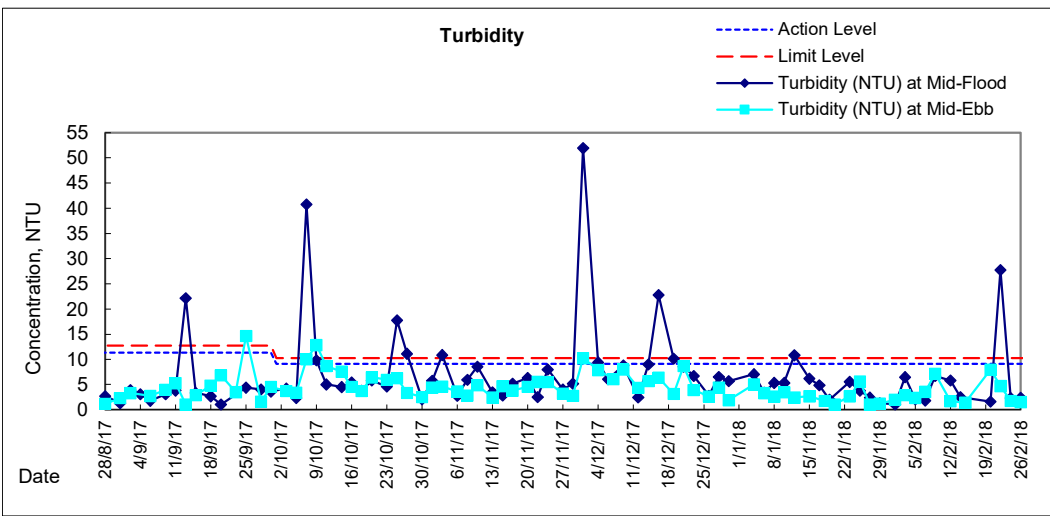
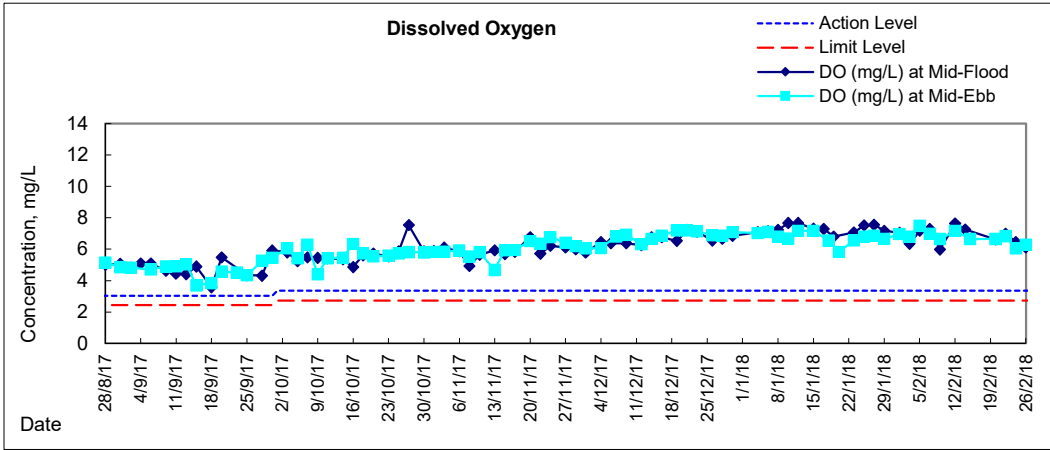


# Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK





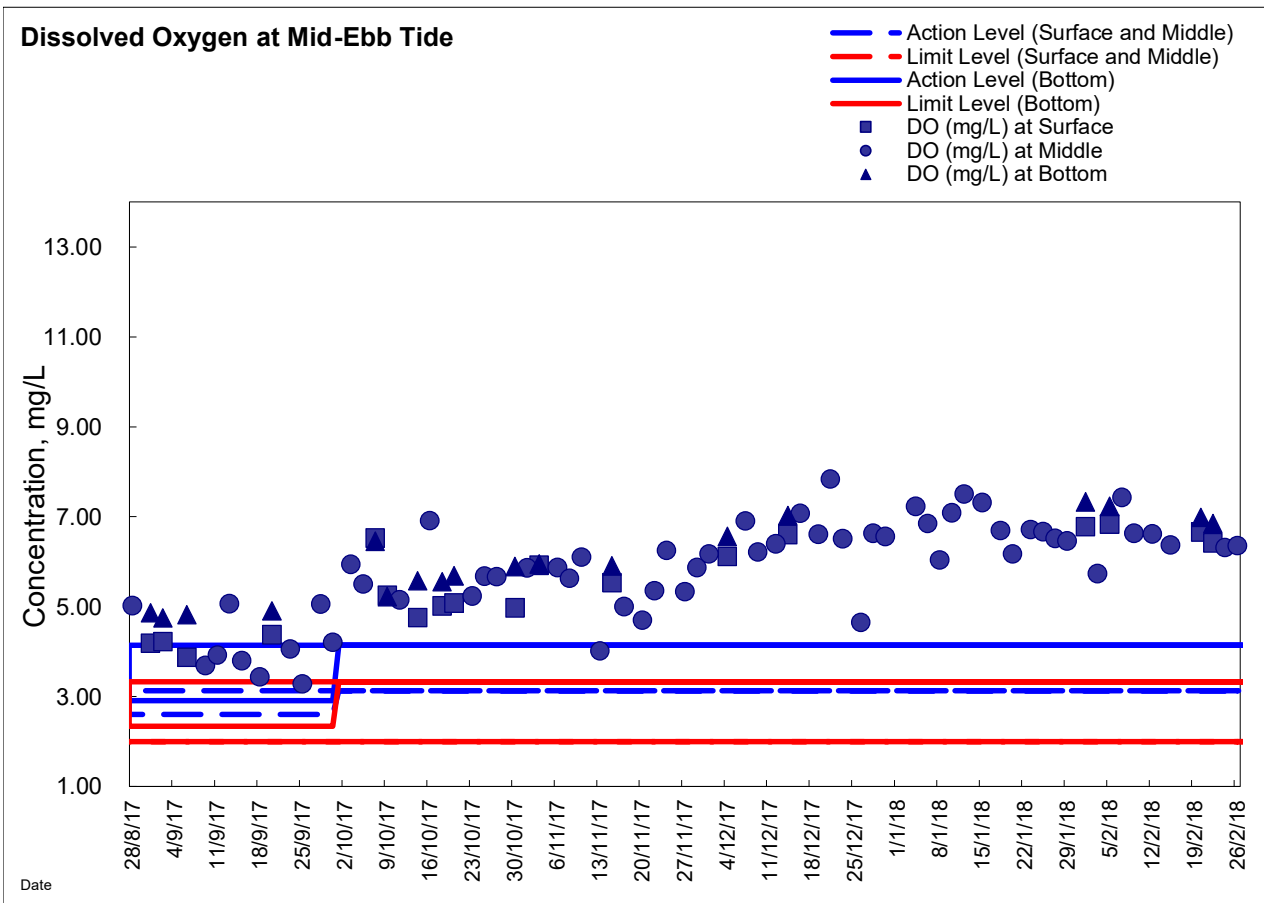
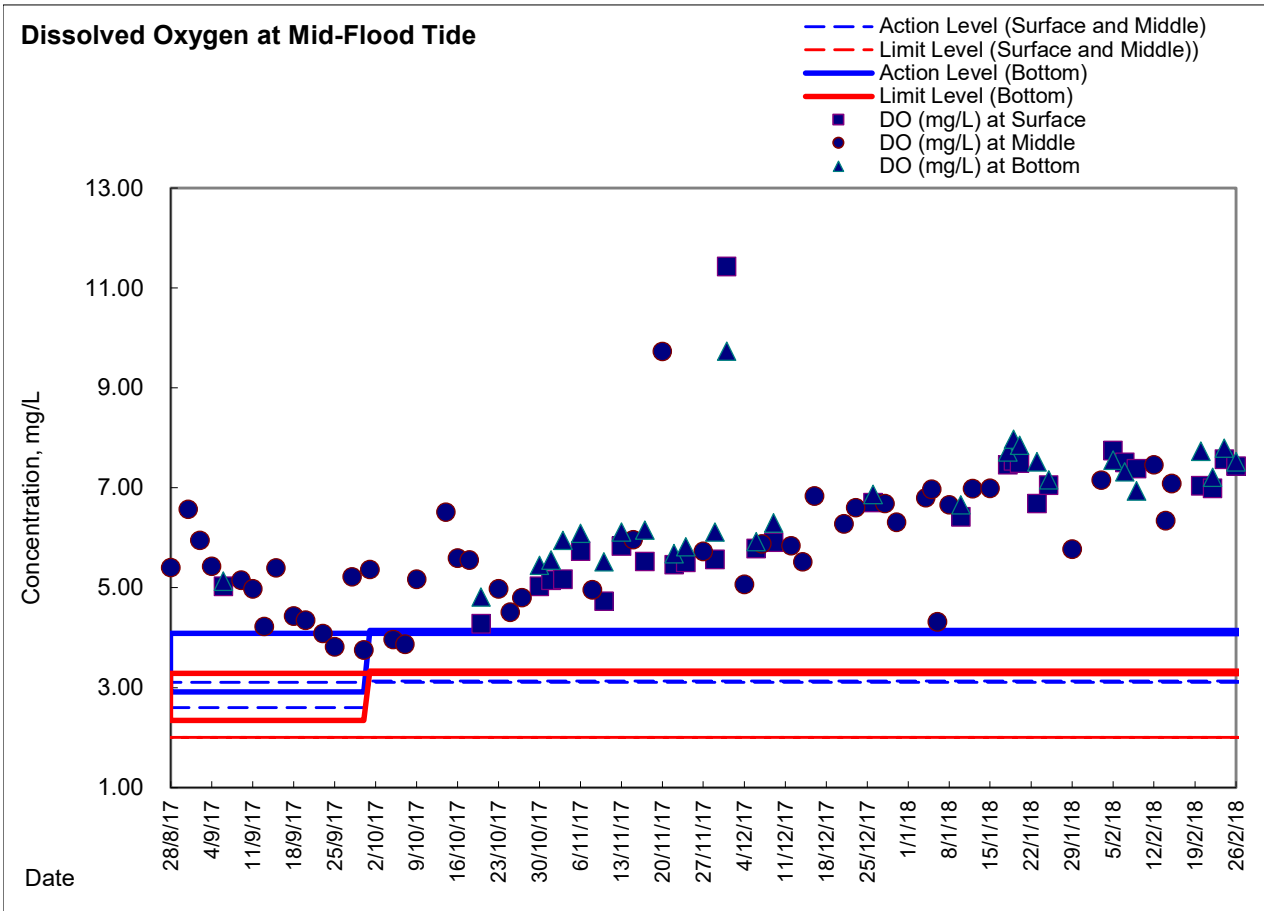
### Graphic Presentation of Water Quality Result of C7 - Windsor House





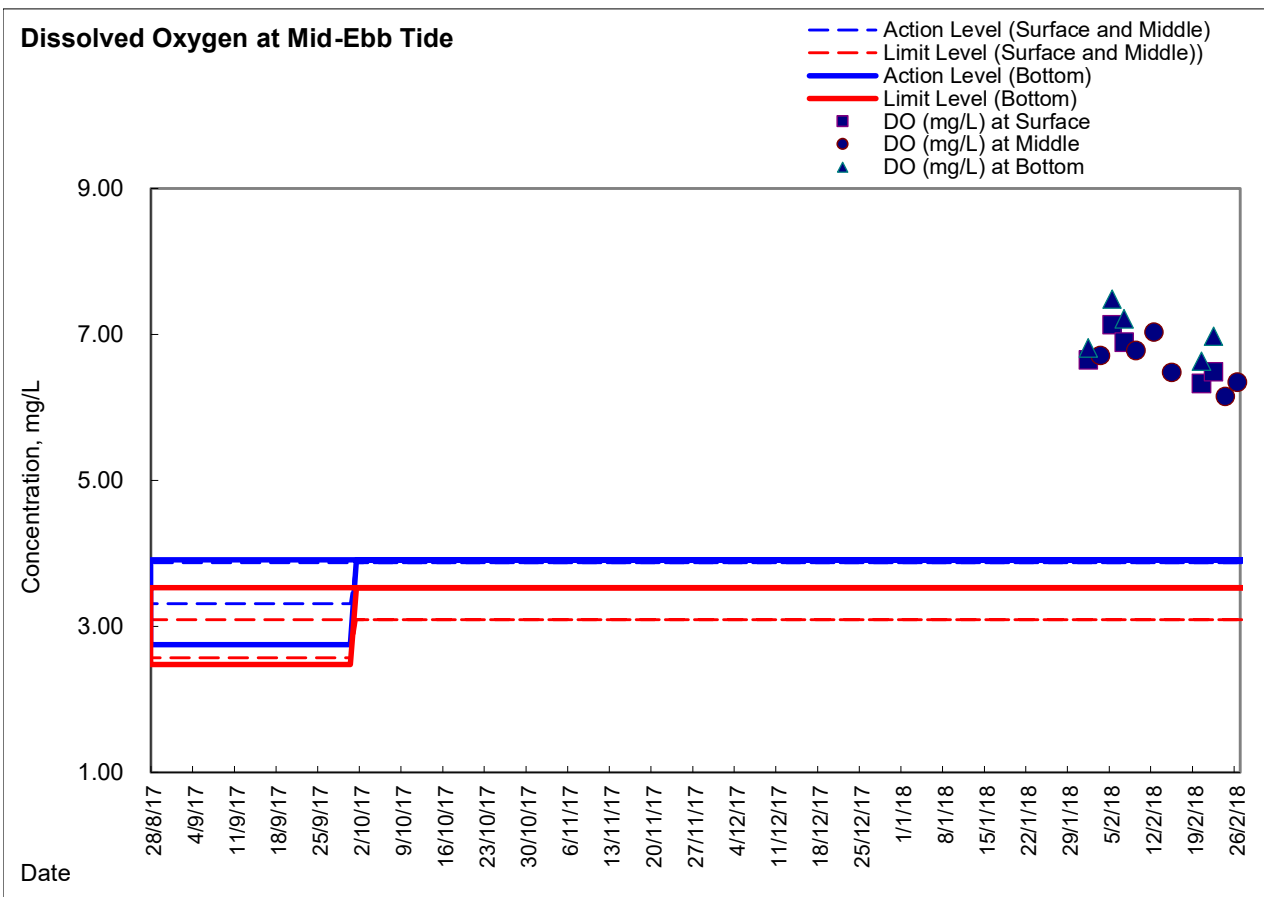
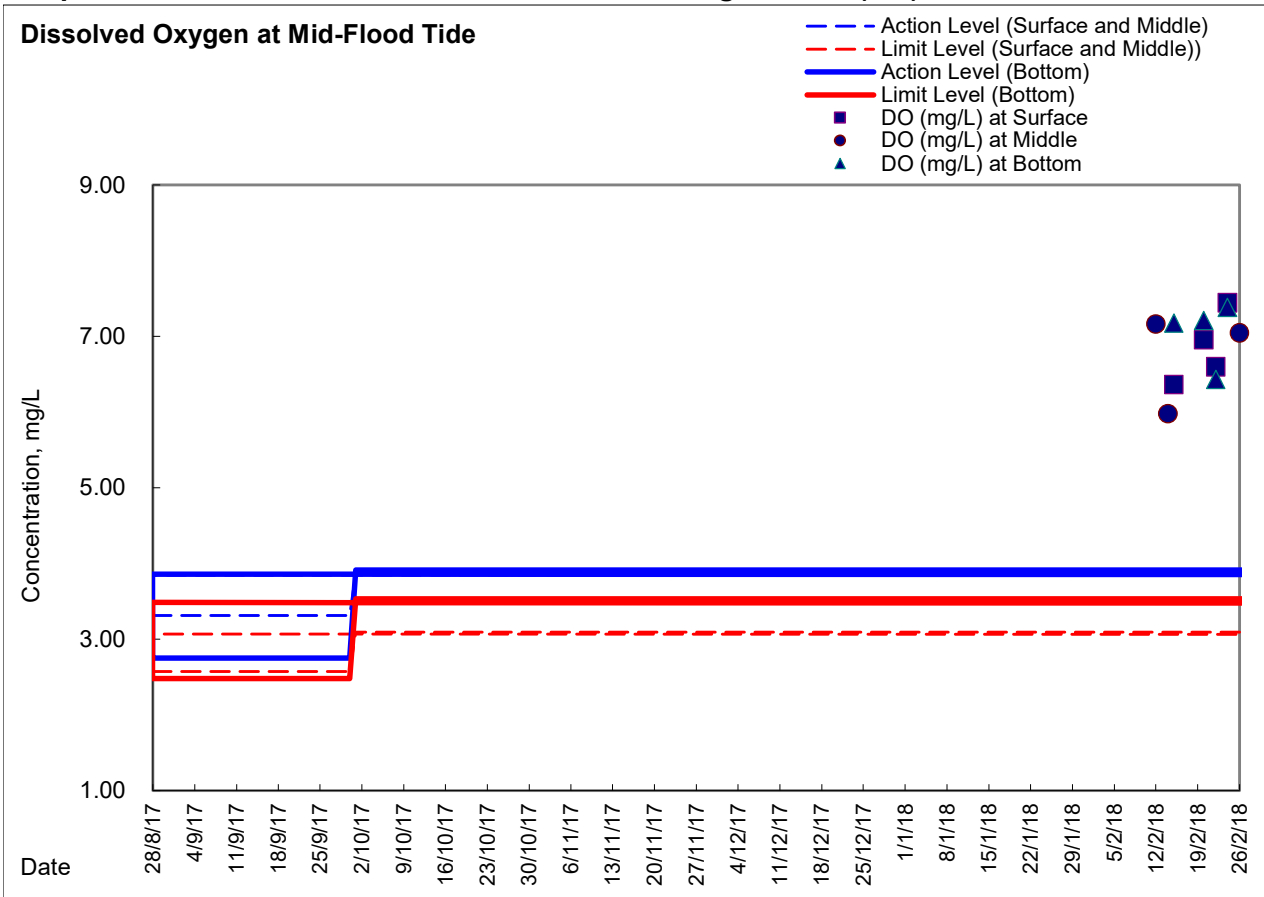


### Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





### Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



Remark: Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and was resumed from 1 February 2018 onwards with respect to the completion of removal of temporary reclamation zone.



***Appendix 5.1***

***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				CONTRACTOR
	ET	IEC	ER		
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			ER	CONTRACTOR
	ET	IEC	ER		
<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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>Notify Contractor. (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. Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	
2. Exceedance for two or more consecutive samples	<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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<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. (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>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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	
<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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol style="list-style-type: none"> <li>Check monitoring data submitted by ET;</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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<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. (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>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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	
2. Exceedance for two or more consecutive samples	<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. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<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. (The above actions should be taken within 2 working days after the exceedance is identified)</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. (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>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>	



**Event and Action Plan for Marine Water Quality**

EVENT	ACTION			CONTRACTOR
	ET	IEC	ER	
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)





EVENT	ACTION			CONTRACTOR
	ET	IEC	ER	
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)



### Event and Action Plan for Odour Patrol

<b>Event</b>		<b>ACTION</b>	
<b>Person-in-charge of Odour Monitoring</b>		<b>Implementation Agent Identified by CEDD</b>	
<b>Action Level</b> Exceedance of Action Level	<ol style="list-style-type: none"><li>1. Identify source/reason of exceedance;</li><li>2. Repeat odour patrol to confirm finding.</li></ol>	<ol style="list-style-type: none"><li>1. Carry out investigation to identify the source/reason of exceedance;</li><li>2. Rectify any unacceptable practice</li><li>3. Implement more mitigation measures if necessary;</li><li>4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li></ol>	
<b>Limit Level</b> Exceedance of Limit Level	<ol style="list-style-type: none"><li>1. Identify source / reason of exceedance;</li><li>2. Repeat odour patrol to confirm findings;</li><li>3. Increase odour patrol frequency;</li><li>4. If exceedance stops, cease additional odour patrol.</li></ol>	<ol style="list-style-type: none"><li>1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks;</li><li>2. Rectify any unacceptable practice;</li><li>3. Formulate remedial actions;</li><li>4. Ensure remedial actions properly implemented;</li><li>5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented;</li><li>6. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li></ol>	



***Appendix 6.1***

***Complaints Log***



### Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	<p>A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18<sup>th</sup> Feb, 2010 for the dredging works which carry out at area for North Point Reclamation.</p> <p>Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.</p> <p>The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.</p> <p>No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.</p> <p>No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.</p>	Closed
100321b	21/3/2010	Unknown	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March 2010(Monday).	<p>A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18<sup>th</sup> Feb, 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.</p> <p>Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.</p> <p>No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.</p> <p>No further complaints were received in the reporting month. The complaint is considered closed.</p>	Closed



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	<p>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW+RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</p> <p>2) According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010.</p> <p>3) No further complaints were received in the reporting month. The complaint is considered closed.</p>	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	<p>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW+RS0371-10 for their dredging works.</p> <p>2) There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.</p> <p>3) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.</p> <p>4) It is considered as invalid from the EP and CNP point of view.</p>	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	<p>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW+RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</p> <p>2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.</p> <p>3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.</p>	Closed



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no.. WSD15)	<p>1) Contractor for HY/2009/11 has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen.</p> <p>2) Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.</p> <p>3) Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.</p>	Closed
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	<p>1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.</p> <p>2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.</p> <p>3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.</p>	Closed
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine Department	North Point	Bad odour was generated from the dredging plant off North Point	<p>1) The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.</p> <p>2) A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.</p> <p>3) Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.</p>	Closed
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	<p>1) ET confirmed the following information with resident site staff on the complaint:</p> <ul style="list-style-type: none"> <li>It was referred to the filling operation at North Point</li> </ul>	Closed



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1-281451236)	North Point	<p>filling operation was louder than the traffic noise &amp; visual impact was generated due to the spotlight pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II;</p> <p>Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00-21:00.</p>	<p>Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II;</p> <ul style="list-style-type: none"> <li>Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall;</li> <li>Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights;</li> <li>No starting work on 7 Dec 2010 at 0630hours.</li> </ul> <p>2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour;</p> <p>3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill;</p> <p>4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time.</p> <p>5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose;</p> <p>6) No further complaint was received after implementation of proposed measures</p>	Closed
				<p>A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.</p>	<ol style="list-style-type: none"> <li>The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work.</li> <li>Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement.</li> <li>It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant.</li> <li>It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile</li> <li>The concern of mosquitoes breeding is out the scope of EM&amp;A, the follow-up action is not reported in this monthly EM&amp;A report.</li> </ol>	





**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at ICC (ICC# 1-272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	<p>1) According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period.</p> <p>2) There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre.</p> <p>3) It is considered as invalid complaint under this Project.</p>	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point - Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	<p>1) The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.</p> <p>2) According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.</p> <p>3) In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.</p> <p>4) A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.</p> <p>5) Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.</p>	Closed



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon-wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	<p>Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period</p> <p>Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary.</p> <p>Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation.</p> <p>Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.</p>	Closed
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	<p>ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.</p> <p>The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.</p> <p>According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition</p>	Closed



**Lam Geotechnics Limited**

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

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.	so as to prevent recurrent by barge defect  1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from 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 while breaking and excavation works were undertaken 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) 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 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) 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	Closed



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
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	<p>monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.</p> <p>4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.</p>	Closed
	08/08/2011			<p>1) It was referred by AECOM to ET on 28 July 2011</p> <p>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.</p> <p>3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.</p> <p>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.</p> <p>5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.</p> <p><i>Remarks: There will be counted as two complaints in this complaint log.</i></p>		
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.	<p>1) It was referred by AECOM to ET on 17 August 2011.</p> <p>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.</p> <p>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.</p> <p>4) Contractors were advised to relocate the loose materials</p>	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	<p>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.</p> <p>Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01.</p> <ol style="list-style-type: none"> <li>The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.</li> <li>The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>	Closed
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	<p>It was referred by AECOM to ET on 29 August 2011.</p> <p>Confirmed with the Resident Site Staff that the</p> <ul style="list-style-type: none"> <li>construction works were referred to the Contractors HY/2009/11 and HY/2009/19.</li> <li>The pump is located on the site area of HY/2009/19</li> <li>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.</li> <li>An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project</li> </ul>	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
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>team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.</p> <ul style="list-style-type: none"> <li>• Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19.</li> <li>• 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 coming from the seabed</li> </ul> <p>2) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying with their expectation.</p> <p>3) During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.</p> <p>4) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.</p> <p>5) It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed 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>6) 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>7) Contractors have fulfilled the requirement of site cleanliness 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> <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</p>	Closed



Lam Geotechnics Limited

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the 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.	<p>at the site. However, the polluted fumes and exhausted 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> <p>1) ET confirmed with the Resident Site Staff that</p> <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> <p>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.</p>	Closed
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	<p>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</p>	Closed





**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
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.	<p>CNP was checked by the police officer.</p> <p>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.</p> <p>Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.</p> <p>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</p> <p>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.</p> <p>RSS notified ET on 5 April 2012.</p> <p>ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period.</p> <p>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.</p> <p>HYD made a reply to the complainant on 16 April 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</p>	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>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.</p> <p>1) RSS notified ET on 8 March 2013 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. 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
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	<p>1) WSII RSS team notified ET on 12 June 2014; Notification letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014. 2) ET confirmed with RSS that neither marine construction works nor barge operation was conducted at the concerned location during the time of complaint. With respect to the complaint case, muddy dispersion was observed at HKCEC2W works area on 12 June 2014, and</p>	Closed



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
140723	21/07/2014	ICC Case Ref. 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.	<p>the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested.</p> <p>3) It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014.</p> <p>The Contractor's investigation report on the complaint case was submitted to EPA via email on 18 June 2014.</p> <p>1) Construction noise impact referred by RSS was received by ET on 25 July 2014</p> <p>2) ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation.</p> <p>3) According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period</p> <p>4) It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14."</p>	Final report (Issue1) issued on 31 July 2014.  Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141016	14/10/2014	EPD Ref.: EP860/E2/24 Annex IV ICC complaint received by ET on 10 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>Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need.</p> <p>5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works.</p> <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). 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. 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>	Interim investigation report submitted to EPD on 23 October 2014.  Updated interim investigation supplement ary information submitted to EPD on 17 November 2014  EPD



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	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>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> <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>	<p>advised no further comment on the updated interim report and case closed on 27 Nov 2014.</p>



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14 EPD complaint 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 opposite to WanChai Swimming Pool).</p> <p>Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated.</p> <p>Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier.</p> <p>Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.</p> <p>Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)</p> <p>Total 1 no. of dredger, 1 no. of hopper and 1 no. of tug boat were operated.</p> <p>According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area opposite 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>	Interim investigation report submitted to EPD on 17 November 2014.  EPD advised no comment on the interim report and case closed on 1 Dec 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
141113	12/11/2014	EPD Ref.: H05/RS/000282 53-14  EPD complaint 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.	Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site  The interim report would be submitted to EPD on 17 November 2014.  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)  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.  According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated.  In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair.  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.	Interim investigation report submitted to EPD on 19 November 2014.  EPD advised no comment on the interim report and case closed on 8 Dec 2014.





**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141121	Not Specified	EPD Ref: H08/RS/28263-14  EPD complaint information and findings was received by ET via email on 21 Nov 2014	Causeway Bay Typhoon Shelter	Resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.	EPD received a construction noise complaint from dredging works at Causeway Bay Typhoon Shelter and a resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.  EPD investigation found that the operation of a derrick barge is covered by CNP no. GW-RS0701-14.  EPD reminded the Contractor of HY/2011/08 to ensure the work strictly follow the permit conditions and endeavor to minimize the noise as so not to disturb the nearby residents.	Complaint case handled by EPD and relevant investigation findings was sent to ET on 21 November 2014
150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.  ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW;reclamation/ backfilling works at TPCWAW  Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works  According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were	Interim report submitted to EPD on 9 February 2015. EPD advised no comment on 27 February 2016 on the interim report submitted and case closed.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
150622	18 June 2015	EPD Ref.:H05/RS/ 00015054-15 dated 8 June	A mooring location near shore and at location outside Wan Chai Sports	Dark smoke and malodour emission was observed from a hopper barge moored near shore and	<p>conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.</p> <p>Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.</p> <p>In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.</p> <p>As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.</p> <p>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</p>	Interim report submitted to EPD on 29 June 2015 and EPD



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
		2015	Ground	other construction plants under operation from the reclamation construction site	<p>moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.</p> <p>ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 &amp; 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 &amp; 4 for transportation of the excavated material away from site.</p> <p>According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 &amp; 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge 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</p>	advised no comment on 20 July 2016 on the interim report submitted and case closed.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
150723	20 July 2015	EPD Ref.:H05/RS/ 00018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & 722 Bus stop	Malodour from marine sediment	<p>environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 &amp; 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and malodour emission affecting nearby public.</p> <p>A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015).</p> <p>The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 &amp; 722 bus stop. (Contract HK/2009/02).</p> <p>ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015.</p> <p>According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.</p>	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.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
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>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> <p>A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)</p> <p>ET confirmed with the Resident Site Staff that transferring of C&amp;D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015.</p> <p>Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.</p> <p>According to the relevant site records under Contract HK/2009/02, transferring of C&amp;D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&amp;D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper</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



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
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 transporting C&D material at the site.	<p>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>	Interim report submitted to EPD on 14 September 2015.  2 <sup>nd</sup> interim report submitted to EPD on 17 Dec 2015  3 <sup>rd</sup> interim report submitted to EPD on 31 Dec 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
					<p>From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>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 and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location.</p> <p>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>	





**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
150917	17 Sep 2015	A public complaint regarding water quality referred by EPD was	Central and Wan Chai Reclamation coastline (between LUNG WUJI ROAD to LUNG WO ROAD,	Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUJI ROAD to LUNG WO ROAD, Central & Wan	<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> <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>	Interim investigation report submitted to EPD on 25



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
151015	11 Oct 2015	received by ET on 17 September 2015	Central & Wan Chai, Hong Kong)	Chai, Hong Kong)	<p>seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.</p> <p>In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.</p>	September 2015. EPD advised no comment on 14 October 2015 and case closed.
		A public complaint regarding direct discharge of muddy effluent was received by ET on 14 October 2015	Seafront opposite to Watson Road adjacent to Eastern Breakwater	Pink fluid was observed discharged into marine waters at seafront opposite to Watson Road adjacent to the Eastern Breakwater on 11 October 2015.	<p>Based on the site records confirmed by RSS, no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 while at site area away from the seawall, construction of EVB substructure, EVB and APS structure was undertaken on 11 October 2015. In addition, no works involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 and no temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.</p> <p>Follow-up inspection was conducted during weekly environmental inspection on 14 October 2015. No construction works involving the use of paint was observed undertaken at the concerned location while a few number of small containers of paint was observed placed around the concerned location and the paint containers were sealed and no sign of leakage was observed. The few containers were further checked and was found not matching the pink fluid observed on the complaint date. On the other hand, a culvert discharge outfall was found located within the concerned area where the pink fluid was observed.</p> <p>Based on the above, no direct information indicating the pink</p>	HyD will consolidate all input from relevant parties to form a reply to ICC.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
151028	26 Oct 2015	A public complaint regarding construction noise impact referred by EPD was received by ET on 28 October 2015 (EPD Ref:H05/RS/00 027330-15 Dated 28 October 2015)	Construction Site next to ex-Wan Chai Ferry Pier	Operation of grab dredger at construction site near the ex-Wan Chai Ferry Pier from around 0100 to 0400 hours on 26 October 2015 caused noise nuisance.	fluid was originated from the works area under HY/2009/19 was considered available. Nevertheless, the Contractor was reminded that paints stored on site shall be properly labelled and stored in sealed container at weather proof location to avoid potential spillage.  According to the relevant site records under Contract HK/2009/02, from 01:00hrs to 04:00hrs on 26 October 2015, rock filling was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheet piling screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02 and the relevant Construction Noise Permit  GW-RS1121-15 for the concerned construction works was in place.  The construction activity conducted under Contract HK/2009/02 during the concerned period was in compliance with the statutory requirement. Nevertheless, 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 in view of the nearby public concern.	The interim report would be submitted to EPD on 05 November 2015 and EPD advised no comment on 16 November 2016 and case closed.
151116	13 November 2015	A public complaint regarding water quality referred by EPD was received by ET on 16 November 2015 (EPD Ref: H05/RS/000291 26-15)	Construction Site at HKCEC and seafront outside Lung Wo Road	Muddy water was discharged from the construction site at HKCEC and dispersed to seafront outside Lung Wo Road on 13 November 2015 afternoon. The complainant also alleged that the deployment of the silt curtain did not follow the design requirement under the environmental permit that the curtain should be hanged to seabed level	Based on the site records, rock mound trimming works was conducted under Contract HK/2012/08 at HKECE2 area on 13 November 2015 and mitigation measures including provision of localized silt curtain around the works area was implemented by the Contractor. Follow-up inspection was conducted during weekly environmental inspection on 17 November 2015, both outer layer silt curtain and localized layer of silt curtain around the active works area were observed deployed while the localized silt curtain deployed around the marine works area was observed partially opened for marine access. Despite no muddy dispersion was generated around the localized silt curtain enclosed area, the Contractor was advised to promptly improve the condition of the silt curtain to ensure the effectiveness of the mitigation measure deployed and to ensure the silt curtain is closed after marine vessel movement.  Based on further review on the current construction stage at HKECE2, the dredging works and trench filling works were completed and filling works were conducted behind seawall or temporarily seawall in form of rockbund, the outer layer of silt curtain currently serves as the additional mitigation measure to	The interim investigation report would be submitted to EPD on 1 December 2015 and record of diving inspection conducted on 27 November 2016 was forwarded to EPD on 4 Dec 2016. EPD advised no further comment on 14 Dec 2015 and case closed.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
160413 (HK201208)	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016)	Outside the Hong Kong Academy for Performing Arts	Muddy water discharge from construction site	<p>the required silt curtain deployment for safeguarding the water quality in the area. To clarify for the current silt curtain arrangement, the Contractor was advised to submit an updated silt curtain deployment plan with respect to the latest silt curtain arrangement for the current construction stage. In addition, contaminated discharge at Culvert L originating from upstream locations was intermittently observed based on previous site records. Nevertheless, in view of the public concern, the Contractor was reminded to conduct regular checking on the condition and maintenance for the silt curtain deployed on site to ensure the effectiveness of the mitigation measure.</p> <p>A joint meeting for the complaint was held amongst the EPD, WDII RSS team, the ET and the Contractor of HK/2012/08 on 24 November 2015 and a joint silt curtain diver inspection check amongst EPD, ET, IEC, WDII RSS and the Contractor was conducted on 27 November 2015 to confirm the silt curtain condition and the silt curtain deployed at the HKCEC2 water channel was found generally in order.</p>	Interim investigation report was submitted to the EPD on 21 April 2016.  EPD advised no further comment on 6 June 2016 on the interim report submitted and case closed.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
160706	30 June 2016	A public complaint referred by EPD was received by ET on 06 July	Construction area near Royal Hong Kong Yacht Club	Derrick barge moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.	<p>April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.</p> <p>Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from piling work via sedimentation tank to wastewater treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact.</p> <p>Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.</p> <p>A public complaint referred by EPD was received by ET on 06 July 2016 (Case Ref.: H05/RS/0016226-16). The complainant reported that a derrick barge in green colour under Contract HY/2009/15 moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.</p>	Interim report was submitted to EPD on 14 July 2016.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
		2016 (Case Ref. H05/RS/00016 226-16),			<p>ET confirmed with Resident Site Staff that the concerned green derrick barge was identified as Yue Fat 206 (YF 206) and the concerned green derrick barge was operated within the Ex-PCWA area for excavation works intermittently across the period from 15 June 2016 to 30 June 2016. The concerned green derrick barge YF206 within Ex-PCWA area was no longer deployed under Contract HY/2009/15 after 02 July 2016.</p> <p>Follow-up inspection was conducted on 11 July 2016, the concerned derrick barge YF206 was not deployed at the concerned location and no dark smoke was observed from other derrick barge operating on-site. Nevertheless, in view of the public concern, the Contractor of HY/2009/15 was reminded to conduct regular checking and maintenance of all derrick barges deployed on site to ensure only well maintained equipment is used to avoid potential dark smoke emission affect nearby surroundings.</p>	EPD advised no further comment on 20 September 2016 on the interim report submitted and case closed.



**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
160825	25 August 2016	A public complaint referred by EPD was received by ET on 25 August 2016 (Case Ref.: H08/RS/00012592-16)	East of Temporary Reclamation Zone TS3, Causeway Bay Typhoon Shelter	Muddy water was observed at Causeway Bay Typhoon Shelter	<p>A public complaint referred by EPD was received on 25 August 2016 (Case Ref.: H08/RS/00012592-16). The complainant reported that muddy water was observed at Causeway Bay Typhoon Shelter.</p> <p>ET confirmed with the Resident Site Staff that no marine construction activities were undertaken at the concerned location at East of Temporary Reclamation Zone TS3 within Causeway Bay Typhoon Shelter from 14:00hrs to 17:00hrs on 25 May 2016. Site control measures including the following were implemented by the Contractor of HY/2010/08 around the concerned location. Site control measures including i) Wastewater treatment facilities (AquaSed) were installed at TS3 for treatment of wastewater generated during construction activities. Sampling of effluent from AquaSed was conducted by the Contractor of HY/2010/08 and all results complied with the requirements in the Discharge Licence. Visual inspection and pH measurement of effluent were conducted daily by Environmental Supervisors and all results passed. ii) Brick/ earth/ sandbag bunds were installed alongside the site perimeter of TS3 to prevent muddy runoff into the sea. iii) Piping with idled ends were removed to prevent accidental discharge of untreated wastewater. iv) Diver inspection for silt curtains and/ or impermeable barriers was conducted on an ad-hoc basis. v) Temporary cut slopes were shotcreted or properly covered with tarpaulin sheets. viii) Regular inspections were conducted by the RSS and Contractor's environmental representatives on regular basis on the conditions of mitigation measures implemented on site.</p> <p>Based on the complainant photo information, the exposed soil slope at Temporary Reclamation Zone TS3 were observed protected by covering and enclosed by double layer of impermeable barrier/ silt curtain and no contaminated discharge was identified. In addition, based on information from Hong Kong Observatory, the tidal condition on 25 May 2016 afternoon was found to</p>	<p>The Interim investigation report was submitted to EPD on 2 September 2016.</p> <p>EPD advised no further comment on 31 October 2016 on the interim report submitted and case closed.</p>





**Lam Geotechnics Limited**

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complaint	Nature of Complaint	Outcome	Status
					<p>be ebb-tide while non construction works marine vessel movements around the identified muddy plume within Causeway Bay Typhoon Shelter was observed in the complainant photo information.</p> <p>Based on review on relevant records, no contaminated surface runoff and no contaminated discharge was identified at the concerned location during the environmental site inspection conducted on 25 May 2016. Follow up inspection was conducted on 31 August 2016 and seawall construction and filing works at the Temporary Reclamation Zone TS3 was observed completed. No contaminated discharge and no contaminated surface runoff was found.</p> <p>Nevertheless, the contractor of HY/2010/08 was reminded to maintain appropriate bunding at seawall boundary for protection against potential surface runoff related impact. Also, the Contractor of HY/2010/08 was reminded to maintain proper site drainage for effluent collection and treatment system to ensure the compliance with relevant discharge license.</p>	



***Appendix 7.1***

***Construction Programme of Individual Contracts***

Activity ID	Activity Name	Calendar	Start	End	Total Float	Scheduled/Actual Start	Scheduled/Actual Finish	Rem Dir	On Dir	Calendar
<b>Three Months Rolling Programme 2017-10-14 (td 20-Oct-17)</b>										
<b>Section 3 of the Works - Reprovisioning of Government Helipad and Public Toilet</b>										
<b>Expo Drive East and Convent Avenue - Outstanding Works</b>										
S3-070-1089D	Defects rectification works for the covered walkway at Expo Drive East	HK Working Day	24	24	-38	14-Nov-17	14-Nov-17		24	2017
S3-070-1510	Diversion of existing earthing copper tapes, water pipes & telephone cables serving Dragon Pearl Cruise Pier (by others)	HK Working Day	25	25	-38	25-Nov-17	25-Nov-17		25	2017
S3-070-1520	Construct end copings x 3 nos.	HK Working Day	15	15	-38	25-Nov-17	12-Dec-17		15	2017
S3-070-1530	Construct end copings x 3 nos. Construct end copings	HK Working Day	6	6	-38	12-Dec-17	18-Dec-17		6	2017
<b>Section 4A of the Works - Cooling Water Pumping System for Sun Hung Kai Centre (P8)</b>										
<b>Cooling Mains Work above Tunnel Portion &amp; connecting to Pump Station</b>										
S4A-0900A	Outstanding Works - re-construction of EVA	Calendar Day	18	30	-13	15-Sep-17 A	18-Nov-17		18	2017
<b>Section 4B of the Works - Cooling Water Pumping System for China Resources Building (P9)</b>										
<b>Cooling Mains Work above Tunnel Portion &amp; connecting to Pump Station</b>										
S4B-0900A	Outstanding Works - re-construction of EVA	Calendar Day	18	32	-12	15-Sep-17 A	20-Nov-17		18	2017
<b>Section 4C of the Works - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (P7)</b>										
<b>Cooling Mains Work above Tunnel Portion &amp; connecting to Pump Station</b>										
S4C-0900A	Outstanding Works - re-construction of EVA	Calendar Day	22	22	-13	31-Oct-17	22-Nov-17		22	2017
<b>Section 8A of the Works - Reprovisioning of Wan Chai Ferry Pier in Area 8</b>										
<b>Outstanding Works in Section 8A</b>										
S8A-OUT-1038a	Site clearance including removal of construction materials and containers at Permanent EVA (east-west direction)	HK Working Day	20	0		23-Aug-17 A	14-Sep-17 A		20	2017
S8A-OUT-1039a	Construct Permanent EVA (east-west direction)	HK Working Day	25	32	-95	15-Sep-17 A	22-Nov-17		25	2017
S8A-OUT-1040	Relocation of fire hydrant near Ferry Pier	HK Working Day	10	10	-95	08-Nov-17	18-Nov-17		10	2017
S8A-OUT-1050	Permanent relocation of existing utilities to permanent EVA	HK Working Day	10	9	-4	16-Dec-16 A	13-Nov-17		10	2017
S8A-OUT-1060	Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier	HK Working Day	12	12	+19	13-Nov-17	24-Nov-17		12	2017
S8A-OUT-1070	Reinstatement works of the flooring under the temporary covered walkway	HK Working Day	6	6	-19	22-Nov-17	29-Nov-17		6	2017
S8A-OUT-1080	Rectification works of the defects at Observation Deck and ST-01	HK Working Day	34	15	-4	08-Jun-17 A	04-Nov-17		34	2017
<b>Section 8B of the Works - Temporary Covered Walkway &amp; Works in Area 8</b>										
<b>Temporary Covered Walkway</b>										
S8B-T10V-02300	Temp. Covered Walkway. Construct the remaining Type 4 Covered Walkway at west wing	HK Working Day	96	96	-95	08-Nov-17	26-Feb-18		96	2017
<b>Section 9B of the Works - CWB Tunnel Structure (CH3400 - CH3796)</b>										
<b>Tunnel Portion 1 (CH3400-CH3630)</b>										
<b>CWB Structural Works</b>										
<b>Outstanding Works</b>										
S9B-T1-OUT-1040	TB1 - Rectification works against water leakage for tunnel side walls	Calendar Day	25	22	-2	10-Jun-17 A	10-Nov-17		25	2017
<b>Tunnel Portion 2 (CH3425-CH3500)</b>										
<b>CWB Structural Works</b>										
S9B-T2-6010	Reinstate Top Slab at the Access Shaft in Tunnel Portion 2	HK Working Day	15	0		23-Aug-17 A	26-Sep-17 A		15	2017
S9B-T2-6020	Curing to the Reinstate Top Slab at the Access Shaft in Tunnel Portion 2	Calendar Day	14	0		27-Sep-17 A	10-Oct-17 A		14	2017
S9B-T2-6025	Carry out remedial works for wall defects in Tunnel Portion 2	HK Working Day	6	1	17	11-Oct-17 A	20-Oct-17		6	2017
S9B-T2-6030	Backfill the Access Shaft with Foam Concrete in Tunnel Portion 2	HK Working Day	2	0		15-Oct-17 A	16-Oct-17 A		2	2017
S9B-T2-6035	Cut down the Access Shaft to 1.5 metres below final formation level and backfill in Tunnel Portion 2	HK Working Day	9	9	-523	19-Oct-17 A	30-Oct-17		9	2017
<b>Outstanding Works</b>										
S9B-T2-OUT-1040	TB2 - Rectification works against water leakage for tunnel side walls	Calendar Day	25	22	-2	10-Jun-17 A	10-Nov-17		25	2017
<b>Section 10 Works - CWB Tunnel Structure (CH3246 - CH3400)</b>										
<b>TP3 &amp; 4 Outstanding Works</b>										
S9B-T34-OUT-1020	TP3 & 4 - Carry out defects rectification works	Calendar Day	25	0		10-Jun-16 A	17-Oct-17 A		25	2017
S9B-T34-OUT-1030	TP3 & 4 - Remedial works of the cross road ducts	Calendar Day	18	0		07-Jul-17 A	22-Sep-17 A		18	2017
<b>Section 10 Works - CWB Tunnel Structure (CH3246 - CH3400)</b>										
<b>TP5 Outstanding Works</b>										
S9B-T34-7400	ELS (S1) Removal - Bay 1 to Bay 4	HK Working Day	11	0		26-Sep-17 A	03-Oct-17 A		11	2017
S9B-T34-7410	ELS (S1) Removal - Bay 5 to Bay 15	HK Working Day	17	17	-684	13-Dec-17	03-Jan-18		17	2017
S9B-T34-7420	ELS (S1a) Removal under Temp Bridge No. 1	HK Working Day	5	5	-677	18-Dec-17	22-Dec-17		5	2017
S9B-T34-7431	ELS (S1a) Removal under Temp Bridge No. 2	HK Working Day	4	4	-684	03-Jan-18	06-Jan-18		4	2017
<b>TP3 &amp; 4 Outstanding Works</b>										
S9B-T34-OUT-1020	TP3 & 4 - Carry out defects rectification works	Calendar Day	25	0		10-Jun-16 A	17-Oct-17 A		25	2017
S9B-T34-OUT-1030	TP3 & 4 - Remedial works of the cross road ducts	Calendar Day	18	0		07-Jul-17 A	22-Sep-17 A		18	2017

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- ◆ Milestone
- ◆ Critical Milestones
- █ Current Works
- █ Critical Works
- █ Remaining Level of Effort

Activity ID	Activity Name	Calendar	2017												2018														
			24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14	21	28								
S10-T5-OJUT-1020	TP5 - Carry out defects identification and rectification works	Calendar Day																											
S10-T5-OJUT-1030	TP5 - Remedial works of the cross road ducts and drainage pipes	Calendar Day																											
<b>Section 11 of the Works - Remainder of Works</b>																													
<b>Marine Works at WCR1</b>																													
S11-S1-1822	WCR1. Remaining installation of the Corrosion Monitoring System - Construct draw pit and ductings	HK Working Day																											
S11-S1-2062	WCR1. Remaining installation of the Corrosion Monitoring System - Cable connection and testing the connectivity	HK Working Day																											
S11-S1-1826	WCR1. Remaining installation of the Corrosion Monitoring System - Backfilling and final reinstatement	HK Working Day																											
<b>Marine Works at WCR3</b>																													
S11-R3-2080	WCR3. Remaining installation of the Corrosion Monitoring System - Expose and inspect the reserved CMS cables	HK Working Day																											
S11-R3-2082	WCR3. Remaining installation of the Corrosion Monitoring System - Construct draw pit and ductings	HK Working Day																											
S11-R3-2084	WCR3. Remaining installation of the Corrosion Monitoring System - Cable connection and testing the connectivity	HK Working Day																											
S11-R3-2086	WCR3. Remaining installation of the Corrosion Monitoring System - Backfilling and final reinstatement	HK Working Day																											
<b>Misc. Works</b>																													
<b>Fabrication of Precast Sewall Blocks in Tunnel Portion 3 &amp; 4</b>																													
S11-RTC-2800	Finalization of Sewall Block Schedule in the area of TP24	HK Working Day																											
S11-RTC-2810	Set up Fabrication Yard and Formwork for Precast Sewall Blocks	HK Working Day																											
S11-RTC-2820	Placing concrete for Precast Sewall Blocks (175 nos. @ 7nos./day)	HK Working Day																											
S11-RTC-2830	Delivery of Precast Sewall Blocks (175nos. @ 9nos./day)	HK Working Day																											
S11-RTC-2840	Sewall Blocks Repairing Works (35nos. @ 20nos./day)	HK Working Day																											
<b>Removal of Temporary Reclamation CH 3710 to CH 3710 (East)</b>																													
S11-RTC-3028	Works within Temp D-Wall - Remove ELS1 Grid 9 - Grid 15	Calendar Day																											
S11-RTC-3074	Works within Temp D-Wall - Phase Levelling Stones for Permanent Sewall Blocks (280m3 @ 50m3/day)	HK Working Day																											
S11-RTC-3075	Works within Temp D-Wall - Install Permanent Sewall Blocks (563 nos. @ 20 nos./day)	HK Working Day																											
S11-RTC-3110	Works outside Temp D-Wall - Remove concrete parapet of at-grade road	HK Working Day																											
S11-RTC-3112	Works outside Temp D-Wall - Remove run-in of at-grade road	HK Working Day																											
S11-RTC-3114	Works outside Temp D-Wall - Remove 10m free zone behind the northern D-Wall (900m3 @30m3/day)	HK Working Day																											
<b>Removal of Temporary Reclamation CH 3630 to CH 3710 (West)</b>																													
S11-RTC-3257	Works within Temp D-Wall - Remove ELS1 Grid 0 - Grid 4	HK Working Day																											
S11-RTC-3258	Works within Temp D-Wall - Phase Scarified Public Fill from -3.0mPD to +1.5mPD with 35 deg fill slope (2,500m3 @200m3/day)	HK Working Day																											
S11-RTC-3260	Works within Temp D-Wall - Complete the Removal of Temp Bridge No. 1	HK Working Day																											
S11-RTC-3265	Works within Temp D-Wall - Phase Levelling Stones for Permanent Sewall Blocks	HK Working Day																											
S11-RTC-3270	Works within Temp D-Wall - Install Permanent Sewall Blocks in dry condition (1 st to 3rd) (563 nos. @20 nos./d)	HK Working Day																											
S11-RTC-3430	Works within Temp D-Wall - Complete the Removal of Temp Bridge No. 1	HK Working Day																											
S11-RTC-3432	Works at South-West corner - Site Preparation for forming an access at SW of TP24	HK Working Day																											
<b>Temporary Works at North West corner of Tunnel Portion 3 and 4</b>																													
S11-TW-1215	The back SP Wall - Site formation and lowering soil to existing ground level at west	HK Working Day																											
S11-TW-1220	The back SP Wall - Form temporary 1:5 cut slope and excavate to +1.5mPD at west (380 m3 @50 m3/day)	HK Working Day																											
S11-TW-1230	The back SP Wall - Install brackets and walings to sheet pile wall (2nos. @4 days/tno)	HK Working Day																											
S11-TW-1240	The back SP Wall - Install tie back (4nos. @1no./day)	HK Working Day																											
S11-TW-1260	The back SP Wall - Remove tie back and walings at +4.1mPD bet existing box section and TP1 Dwall	HK Working Day																											
S11-TW-1270	The back SP Wall - Backfill to +3.5mPD at west of box section	HK Working Day																											
S11-TW-1280	The back SP Wall - Extract sheet pile at north-west corner and remove D-wall and site cleaning	HK Working Day																											
<b>Removal of Temporary D-Wall CH 3630 to CH 3710</b>																													
S11-RTC-3340	Preparation for D-Wall Cutting - Advance Coring inside D Wall (64 out of 72 nos. for filling, 3 machines @1no./machine/day)	HK Working Day																											
S11-RTC-3341a	Preparation for D-Wall Cutting - Finalization of D Wall Cutting Alignment	HK Working Day																											
S11-RTC-3341b	Preparation for D-Wall Cutting - Remaining Coring inside D Wall (8 out of 72 nos. for filling, 1 machine @1no./machine/day)	HK Working Day																											
S11-RTC-3342	Preparation for D-Wall Cutting - Excavation within tunnel cofferdam for cutting holes (350m3 @100m3/day)	HK Working Day																											
S11-RTC-3345	Preparation for D-Wall Cutting - Full Coring within tunnel cofferdam (37 nos. , 3 machines @1no./machine/day)	HK Working Day																											
<b>Hung Hing Road Flyover Reinstatement</b>																													
S11-HH-4044	Reinstatement of HHR Flyover - Installation of Movement Joint for the bridge	HK Working Day																											
S11-HH-4165	Reinstatement of HHR Flyover - Lay pipes and filling inside structure with granular fill	HK Working Day																											
S11-HH-5075	Reinstatement of HHR Flyover - Formwork stripping for the walls of bay 2 of HHR	HK Working Day																											
S11-HH-5076	Reinstatement of HHR Flyover - Apply miradrain	HK Working Day																											

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- ◆ Milestone
- ◆ Critical Milestones
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Activity ID	Activity Name	Calendar	Total Float	Scheduled/Actual Finish	Scheduled/Actual Start	Rem Dur	On Dur
S11-HH-5077	Reinstatement of HHR Flyover - Filling inside structure with granular fill (approx. 470 m³) and install subsoil drain	HK Working Day		21-Sep-17 A	15-Sep-17 A	6	0
S11-HH-5079	Reinstatement of HHR Flyover - Backfill selected filler material	HK Working Day		25-Sep-17 A	22-Sep-17 A	4	0
S11-HH-5080	Reinstatement of HHR Flyover - Lay binding layer for the transition slab	HK Working Day		26-Sep-17 A	26-Sep-17 A	1	0
S11-HH-5085	Reinstatement of HHR Flyover - Erect formwork & prepare C/J of the transition slab	HK Working Day		28-Sep-17 A	27-Sep-17 A	2	0
S11-HH-5086	Reinstatement of HHR Flyover - Fix Re-bars for the transition slab	HK Working Day		02-Oct-17 A	29-Sep-17 A	2	0
S11-HH-5087	Reinstatement of HHR Flyover - Concreting for the transition slab	HK Working Day		03-Oct-17 A	03-Oct-17 A	1	0
<b>Hung Hing Road Flyover - Bay 3 (East Side) CH 3747-3770</b>							
S11-HH-5182	Reinstatement of HHR Flyover - Fix Re-bars, including end wall	HK Working Day		29-Sep-17 A	07-Sep-17 A	4	0
S11-HH-5184	Reinstatement of HHR Flyover - Install drainage pipe inside wall between gullies	HK Working Day		30-Sep-17 A	30-Sep-17 A	1	0
S11-HH-5186	Reinstatement of HHR Flyover - Formwork for the end wall and internal wall of east abutment	HK Working Day		02-Oct-17 A	01-Oct-17 A	2	0
S11-HH-5188	Reinstatement of HHR Flyover - Erect falsework for the top slab	HK Working Day		04-Oct-17 A	03-Oct-17 A	2	0
S11-HH-5190	Reinstatement of HHR Flyover - Erect formwork for the top slab	HK Working Day		05-Oct-17 A	28-Sep-17 A	4	0
S11-HH-5194	Reinstatement of HHR Flyover - Fix Re-bars for the top slab	HK Working Day		05-Oct-17 A	05-Oct-17 A	2	0
S11-HH-5196	Reinstatement of HHR Flyover - Install holding down bolt	HK Working Day		04-Oct-17 A	04-Oct-17 A	3	0
S11-HH-5198	Reinstatement of HHR Flyover - Formwork for the bridge deck upstand	HK Working Day		05-Oct-17 A	05-Oct-17 A	2	0
S11-HH-5198	Reinstatement of HHR Flyover - Conceting for the remaining wall/slab/deck upstand	HK Working Day		06-Oct-17 A	06-Oct-17 A	1	0
S11-HH-5200	Reinstatement of HHR Flyover - Curing of slab	Calendar Day		12-Oct-17 A	07-Oct-17 A	6	0
S11-HH-5202	Reinstatement of HHR Flyover - Curing of wall	Calendar Day		08-Oct-17 A	08-Oct-17 A	1	0
S11-HH-5203	Reinstatement of HHR Flyover - Construction and concreting for kerb	HK Working Day		17-Oct-17 A	14-Oct-17 A	4	0
S11-HH-5204	Reinstatement of HHR Flyover - Dismantle falsework and formwork inside Bay 3 (after road diversion)	HK Working Day	-678	13-Nov-17	04-Nov-17	8	8
S11-HH-5206	Reinstatement of HHR Flyover - Dismantle falsework and formwork external of Bay 3	HK Working Day		13-Oct-17 A	09-Oct-17 A	5	0
S11-HH-5208	Reinstatement of HHR Flyover - Rectify external wall defect (if any)	HK Working Day		18-Oct-17 A	14-Oct-17 A	5	0
<b>Hung Hing Road Flyover - Reinstatement of Utilities and Drainage</b>							
S11-HH-4052	Reinstatement of HHR Flyover - Cover up all utilities and complete paving blocks along footpath	HK Working Day		18-Oct-17 A	18-Oct-17 A	0	0
S11-HH-4052	Reinstatement of HHR Flyover - Construct manhole MH1 & MH2	HK Working Day		23-Sep-17 A	19-Sep-17 A	2	0
S11-HH-4064	Reinstatement of HHR Flyover - Lay drainage works G2 to MH2, including testing	HK Working Day		22-Sep-17 A	20-Sep-17 A	3	0
S11-HH-4066	Reinstatement of HHR Flyover - Lay drainage works MH2 to MH1, including testing	HK Working Day		27-Sep-17 A	25-Sep-17 A	3	0
S11-HH-4068	Reinstatement of HHR Flyover - Lay drainage works G1 to MH1, including testing	HK Working Day		21-Sep-17 A	21-Sep-17 A	3	0
S11-HH-4069	Reinstatement of HHR Flyover - Manhole Final Works after acceptance of pipes	HK Working Day		28-Sep-17 A	27-Sep-17 A	3	0
S11-HH-4070	Reinstatement of HHR Flyover - Backfill on top of drainage pipe at Bay 1 & 2	HK Working Day		26-Sep-17 A	24-Sep-17 A	2	0
S11-HH-4071	Reinstatement of HHR Flyover - Laying drainage pipe (300mm dia. pipe - MH2 to MH20), 10 m long including testing	HK Working Day		03-Oct-17 A	24-Sep-17 A	10	0
S11-HH-4072	Reinstatement of HHR Flyover - Backfill on top of drainage pipe outside Bay 1 & 2 - Layer 1	HK Working Day		01-Oct-17 A	29-Sep-17 A	2	0
<b>Hung Hing Road Flyover - Road Works and Street Furniture</b>							
S11-HH-4078	Reinstatement of HHR Flyover - Trimming road formation	Calendar Day		23-Sep-17 A	20-Sep-17 A	4	0
S11-HH-4079	Reinstatement of HHR Flyover - Road Kerb (300m @ 100m/day)	Calendar Day		07-Oct-17 A	03-Oct-17 A	4	0
S11-HH-4080	Reinstatement of HHR Flyover - Lay sub-base and compaction	Calendar Day		12-Oct-17 A	07-Oct-17 A	5	0
S11-HH-4081	Reinstatement of HHR Flyover - Testing of sub-base (Govt. Lab & Result)	HK Working Day		13-Oct-17 A	13-Oct-17 A	1	0
S11-HH-4082	Reinstatement of HHR Flyover - MJ installation at Bay 3	Calendar Day		17-Oct-17 A	11-Oct-17 A	6	0
S11-HH-4083	Reinstatement of HHR Flyover - Lay 1st layer of Asphalt (Road base)	Calendar Day		13-Oct-17 A	13-Oct-17 A	1	0
S11-HH-4084	Reinstatement of HHR Flyover - Lay 2nd layer of Asphalt (Base Course)	Calendar Day		13-Oct-17 A	13-Oct-17 A	1	0
S11-HH-4086	Reinstatement of HHR Flyover - Lay 3rd layer of Asphalt (Wearing Course)	Calendar Day		17-Oct-17 A	17-Oct-17 A	1	0
S11-HH-4088	Reinstatement of HHR Flyover - Install manhole and gully covers	HK Working Day		11-Oct-17 A	09-Oct-17 A	3	0
S11-HH-4089	Reinstatement of HHR Flyover - Road Marking	Calendar Day		20-Oct-17 A	20-Oct-17 A	1	0
S11-HH-4090	Reinstatement of HHR Flyover - Traffic sign, road furniture & street lighting	Calendar Day	-759	20-Oct-17 A	14-Oct-17 A	7	0
S11-HH-4091	Reinstatement of HHR Flyover - Works by Highways Lighting (including cabling & street lights)	HK Working Day		18-Oct-17 A	09-Oct-17 A	8	0
S11-HH-4092	Reinstatement of HHR Flyover - Install steel parapet (130m @ 18m/day)	HK Working Day		19-Oct-17 A	09-Oct-17 A	7	0
S11-HH-4093	Reinstatement of HHR Flyover - READY FOR ROAD DIVERSION	HK Working Day	-685	21-Oct-17	21-Oct-17	1	1
S11-HH-4095	Reinstatement of HHR Flyover - Reinstall a drainage pipe along Temp Steel Bridges	HK Working Day	-683	16-Nov-17	23-Oct-17	24	24
S11-HH-4096	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 1	HK Working Day	-685	13-Nov-17	23-Oct-17	19	19
S11-HH-4097	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 2	HK Working Day	-684	02-Dec-17	11-Nov-17	20	20
S11-HH-4098	Reinstatement of HHR Flyover - Remove Temp Steel Bridge No. 3	HK Working Day	-684	16-Nov-17	23-Oct-17	25	25
S11-HH-4102	Remove the bituminous pavement of at-grade road	HK Working Day	-684	09-Dec-17	02-Dec-17	7	7
S11-HH-4105	Demolition of RC Decking 'X' above Bay 17A (150m³ @ 15m³/day)	HK Working Day	-413	15-Oct-17	09-Dec-17	10	10
S11-HH-4120	Reinstatement of HHR Flyover - Construction of footing and associated utility diversion for the directional sign	HK Working Day		15-Oct-17 A	13-Oct-17 A	3	0
S11-HH-4122	Reinstatement of HHR Flyover - Installation of the directional sign	HK Working Day		18-Oct-17 A	16-Oct-17 A	3	0

Reinstatement of Box Culvert O		Date	Revision	Checked	Approved
◆ Milestone					
◆ Critical Milestones					
■ Current Works					
■ Critical Works					
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Activity ID	Activity Name	Off Dir	Rem Dir	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar
S11-BCO-2016	Box Culvert O Reinstatement - Design of Box Culvert 'O' by designer and reviewed by CW-CRGLV	45	16	18-Aug-17 A	06-Nov-17	-357	HK Working Day
S11-BCO-2020	Box Culvert O Reinstatement - Design Submission of Box Culvert 'O' for comment and approval by AECOM	35	35	07-Nov-17	13-Dec-17	-357	HK Working Day
S11-BCO-2022	Box Culvert O Reinstatement - Procure Units Fabrication and Delivery (Total = 107 units @1.5m/day + 20d delivery)	79	79	14-Dec-17	15-Mar-18	-352	HK Working Day
S11-BCO-2027	Box Culvert O Reinstatement - Installation of Bulkhead at Bay 19 (Outfall) of Box Culvert 'O'	33	33	18-Dec-17	24-Jan-18	-362	HK Working Day
<b>Box Culvert O Construction (Tunnel Section) - Bay 15A and Bay 16A</b>							
S11-BCO-2086	Box Culvert O Reinstatement - Bay 16A Base formwork	2	2	30-Nov-17	02-Dec-17	-98	HK Working Day
S11-BCO-2087	Box Culvert O Reinstatement - Bay 16A Base rebar	3	3	02-Dec-17	06-Dec-17	-98	HK Working Day
S11-BCO-2088	Box Culvert O Reinstatement - Bay 16A Base kicker and end formwork	2	2	06-Dec-17	07-Dec-17	-98	HK Working Day
S11-BCO-2089	Box Culvert O Reinstatement - Bay 16A Base concrete	1	1	08-Dec-17	09-Dec-17	-98	HK Working Day
S11-BCO-2070	Box Culvert O Reinstatement - Bay 16A Remove Base formwork	1	1	08-Dec-17	09-Dec-17	-98	HK Working Day
S11-BCO-2071	Box Culvert O Reinstatement - Bay 16A Mid Wall rebar	3	3	09-Jan-18	11-Jan-18	-98	HK Working Day
S11-BCO-2072	Box Culvert O Reinstatement - Bay 16A External Wall formwork	3	3	11-Jan-18	15-Jan-18	-98	HK Working Day
S11-BCO-2073	Box Culvert O Reinstatement - Bay 16A External Wall rebar	3	3	15-Jan-18	17-Jan-18	-98	HK Working Day
S11-BCO-2074	Box Culvert O Reinstatement - Bay 16A External Wall concrete	3	3	18-Jan-18	20-Jan-18	-98	HK Working Day
S11-BCO-2079	Box Culvert O Reinstatement - Bay 15A Base formwork	2	2	20-Nov-17	21-Nov-17	-98	HK Working Day
S11-BCO-2080	Box Culvert O Reinstatement - Bay 15A Base rebar	3	3	21-Nov-17	24-Nov-17	-98	HK Working Day
S11-BCO-2081	Box Culvert O Reinstatement - Bay 15A Base kicker and end formwork	2	2	24-Nov-17	27-Nov-17	-98	HK Working Day
S11-BCO-2082	Box Culvert O Reinstatement - Bay 15A Base concrete	1	1	27-Nov-17	28-Nov-17	-98	HK Working Day
S11-BCO-2084	Box Culvert O Reinstatement - Bay 15A Remove Base formwork	1	1	29-Nov-17	29-Nov-17	-98	HK Working Day
S11-BCO-2086	Box Culvert O Reinstatement - Bay 15A Mid Wall rebar	3	3	09-Dec-17	13-Dec-17	-98	HK Working Day
S11-BCO-2088	Box Culvert O Reinstatement - Bay 15A Wall int formwork	3	3	13-Dec-17	16-Dec-17	-98	HK Working Day
S11-BCO-2089	Box Culvert O Reinstatement - Bay 15A External Wall rebar	3	3	16-Dec-17	19-Dec-17	-98	HK Working Day
S11-BCO-2091	Box Culvert O Reinstatement - Bay 15A Wall External formwork	3	3	19-Dec-17	22-Dec-17	-98	HK Working Day
S11-BCO-2091a	Box Culvert O Reinstatement - Bay 15A falsework and formwork for Roof	3	3	22-Dec-17	28-Dec-17	-98	HK Working Day
S11-BCO-2092	Box Culvert O Reinstatement - Bay 15A Roof rebar	3	3	28-Dec-17	30-Dec-17	-98	HK Working Day
S11-BCO-2093	Box Culvert O Reinstatement - Bay 15A End formwork	3	3	30-Dec-17	04-Jan-18	-98	HK Working Day
S11-BCO-2094	Box Culvert O Reinstatement - Bay 15A Roof and Wall concrete	1	1	04-Jan-18	05-Jan-18	-98	HK Working Day
S11-BCO-2095	Box Culvert O Reinstatement - Bay 15A Remove End formwork	2	2	05-Jan-18	08-Jan-18	-98	HK Working Day
<b>Box Culvert O Construction (Outfall Section) - Bay 17A</b>							
S11-BCO-2026	Box Culvert O Reinstatement - Demolition of RC Decking above Bay 17A of Box Culvert 'O'	7	7	09-Dec-17	16-Dec-17	-413	HK Working Day
S11-BCO-2112	Mobilisation for Pre-Bored plant for installing Sheeplining at Bay 17A	6	6	18-Dec-17	23-Dec-17	-413	HK Working Day
S11-BCO-2114	Pre-Bored Sheeplining Works (36 nr. 12m deep@24m/day) at Bay 17A	21	21	23-Dec-17	18-Jan-18	-413	HK Working Day
S11-BCO-2116	Install Sheeplines ESP IV 12m deep (30m @ 1.2m linear length/day) at Bay 17A	28	28	18-Jan-18	23-Feb-18	-413	HK Working Day
<b>Box Culvert O Construction - Bay 14A</b>							
S11-BCO-2152	Mobilisation for Pre-Bored plant for installing Sheeplining at Bay 14A	7	7	20-Nov-17	25-Nov-17	-378	HK Working Day
S11-BCO-2154	Pre-Bored Sheeplining Works (10 nr. 12m deep@24m/day) at Bay 14A	5	5	27-Nov-17	01-Dec-17	-378	HK Working Day
<b>Box Culvert O Construction (South Point) - Bay 14 to Bay 13</b>							
S11-BCO-2316	Box Culvert O Reinstatement - Bay 14 Pre-Bored Sheeplining Works (50 nr. 12m deep@24m/day)	25	25	02-Dec-17	30-Dec-17	-378	HK Working Day
S11-BCO-2366	Box Culvert O Reinstatement - Bay 13 Pre-Bored Sheeplining Works (50 nr. 12m deep@24m/day)	36	36	02-Jan-18	08-Feb-18	-378	HK Working Day
<b>Reinstatement for Traffic Diversion</b>							
S11-HH-5010	Reinstatement for the Traffic Diversion at Hung Hing Road Flyover (Summary)	144	2	08-Mar-17 A	21-Oct-17	-685	HK Working Day
S11-HH-5048	Rectification of road defects identified at Convention Avenue	5	5	20-Oct-17	25-Oct-17	13	HK Working Day
<b>Wan Shing Street Sewerage Works</b>							
S11-SW-1081	UU detection and excavate trial pit TP-HHR-05 at Wan Shing Street	4	18	18-Jun-17 A	08-Nov-17	652	HK Working Day
S11-SW-1083	Trench excavation and shoring installation at Wan Shing Street	12	25	31-Aug-17 A	15-Nov-17	-181	HK Working Day
S11-SW-1084	Divert existing DN600 and removal of DN500 pvc pipe at the Wan Shing Street	6	6	28-Nov-17	04-Dec-17	-192	HK Working Day
S11-SW-1084a	Excavate trial pit to locate existing 132kV cables adjacent to the proposed DN750 pipe at the Wan Shing Street	6	21	11-Aug-17 A	11-Nov-17	-202	HK Working Day
S11-SW-1084b	Excavate trial trench TT-WWS-01 at the Wan Shing Street	8	8	23-Sep-17 A	18-Nov-17	-202	HK Working Day
S11-SW-1084c	Check the status of existing manhole at MH4.15 location and submit the findings to the ER	6	6	18-Nov-17	24-Nov-17	-202	HK Working Day
S11-SW-1085	Demolition of existing manhole at MH4.15 location	5	5	24-Nov-17	30-Nov-17	-202	HK Working Day
S11-SW-1086	Construction of manhole MH4.17 (Type I) including DN600 inlet	16	16	11-Dec-17	02-Dec-17	-199	HK Working Day
S11-SW-1087	Laying DN600 sewer pipes (near MH4.17 with 8m length approx.)	3	3	30-Nov-17	03-Dec-17	-202	HK Working Day
S11-SW-1088	Laying DN750 sewer pipes and connection to MH4.19	27	27	30-Nov-17	30-Dec-17	-199	HK Working Day
S11-SW-1089	Backfill (300mm layer), removal sheet piles and reinstale the pavement	27	27	02-Dec-17	03-Jan-18	-202	HK Working Day
S11-SW-1090	Implement TTA Stage 3	1	1	03-Jan-18	04-Jan-18	-202	HK Working Day
S11-SW-1091	Trench excavation and shoring installation at Wan Shing Street	12	12	04-Jan-18	17-Jan-18	-202	HK Working Day

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

**WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)**

**3-MONTH ROLLING PROGRAMME (data date 20-Oct-17)**

	Date	Revision	Checked	Approved

**CHUN WO - CRGL**

**JOINT VENTURE**

- ◆ Milestone
- ◆ Critical Milestones
- Current Works
- Critical Works
- Remaining Level of Effort

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

**WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)**

**3-MONTH ROLLING PROGRAMME (data date 20-Oct-17)**

Activity ID	Activity Name	Orig Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar	2017							2018												
								24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14	21	28	
S11-SW-1092	Laying DN600 clay pipes in the middle of MH4.15 & MH4.17 (3m approx.)	5	5	17-Jan-18	22-Jan-18	-202	HK Working Day																				Laying
S11-SW-1093	Check the status of existing DN600 clay pipes and submit a proposal to the ER for testing	6	6	16-Jan-18	22-Jan-18	-202	HK Working Day																				Check

**CHUN WO - CRGL**

**JOINT VENTURE**

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Revision

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Activity ID	Activity Name	Or Dur	Rem Dur	Scheduled / Actual Start	Scheduled / Actual Finish	Total Rest	Calendar
<b>Three-Month Rolling Programme 2018-02-20 (dd 20-Feb-18)</b>							
<b>Section 3 of the Works - Re-provisioning of Government Helipad and Public Toilet Expo Drive East and Convent Avenue - Outstanding Works</b>							
SS-0704-169D	Defects rectification works for the covered walkway at Expo Drive East	24	27	28-Nov-16 A	22-Mar-18	-144	HK Working Day
SS-0704-1510	Division of existing earthing copper tapes, water pipes & telephone cables serving Dragon Pearl Cruise Pier (by others)	25	25	23-Feb-18	21-Mar-18	-138	HK Working Day
SS-0704-1520	Construct end copings x 3 nos.	15	15	21-Mar-18	10-Apr-18	-138	HK Working Day
SS-0704-1530	Construct Paving Blocks adjacent to the end copings	6	6	10-Apr-18	16-Apr-18	-138	HK Working Day
<b>Section 4A of the Works - Cooling Water Pumping System for Sun Hung Kai Centre (P8)</b>							
<b>Cooling Mains Work above Tunnel Portion &amp; connecting to Pump Station</b>							
SA4-0900C1	Submission for Raising the Vent Shaft and Water Meter Structure	60	45	05-Feb-18 A	14-Apr-18	491	HK Working Day
SA4-0900C2	Raising the Vent Shaft and Water Meter Structure	60	60	16-Apr-18	20-Jun-18	491	HK Working Day
<b>Section 4B of the Works - Cooling Water Pumping System for China Resources Building (P9)</b>							
<b>Cooling Mains Work above Tunnel Portion &amp; connecting to Pump Station</b>							
SAB-0900C1	Submission for Raise Vent Shaft and Water Meter Room	60	45	05-Feb-18 A	14-Apr-18	491	HK Working Day
SAB-0900C2	Raise Vent Shaft and Water Meter Room Structure	60	60	16-Apr-18	20-Jun-18	491	HK Working Day
<b>Section 4C of the Works - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (P7)</b>							
<b>Cooling Mains Work above Tunnel Portion &amp; connecting to Pump Station</b>							
SAC-0900C1	Submission for Raise Vent Shaft and Water Meter Room	60	45	05-Feb-18 A	14-Apr-18	-294	HK Working Day
SAC-0900C2	Raise Vent Shaft and Water Meter Room Structure	60	60	16-Apr-18	20-Jun-18	-294	HK Working Day
<b>Section 5 of the Works - WSD Salt Water Pumping System</b>							
<b>WSD Salt Water Pumping Station</b>							
SS-COU1-1000	Carry out defect rectification works at the front yard of WSD Pump station	6	6	26-Feb-18	03-Mar-18	-115	Calendar Day
<b>Section 8A of the Works - Re-provisioning of Wan Chai Ferry Pier in Area 8</b>							
<b>Outstanding Works in Section 8A</b>							
SSA-COU1-039a	Construct Permanent E/W (east-west direction)	25	60	15-Sep-17 A	02-May-18	-152	HK Working Day
SSA-COU1-040	Relocation of fire hydrant near Ferry Pier	8	8	08-Mar-18	14-Mar-18	-111	HK Working Day
<b>Section 9B of the Works - CWB Tunnel Structure (CH3400 - CH3796)</b>							
<b>Tunnel Portion 1 (CH3500-CH3630)</b>							
<b>CWB Structural Works</b>							
<b>Outstanding Works</b>							
SSB-12-COU1-1040	TB1 - Rectification works against water leakage for tunnel side walls	25	7	26-Sep-17 A	26-Feb-18	-110	Calendar Day
SSB-12-COU1-1045	TB1 - Carry out CCTV inspection for the drainage system	2	2	20-Feb-18	21-Feb-18	-115	Calendar Day
<b>Tunnel Portion 2 (CH3425-CH3500)</b>							
<b>CWB Structural Works</b>							
<b>Outstanding Works</b>							
SSB-12-COU1-1045	TB2 - Rectification works against water leakage for tunnel side walls	25	7	26-Sep-17 A	26-Feb-18	-110	Calendar Day
SSB-12-COU1-1045	TB2 - Carry out CCTV inspection for the drainage system	2	2	22-Feb-18	23-Feb-18	-115	Calendar Day
<b>Tunnel Portion 3 &amp; Tunnel Portion 4 (CH3630-CH3790)</b>							
<b>CWB Structural Works</b>							
<b>TB3 &amp; 4 Outstanding Works</b>							
SSB-13-COU1-1020	TP3 & 4 - Carry out defects rectification works	25	7	10-Jun-16 A	26-Feb-18	-110	Calendar Day
SSB-13-COU1-1045	TB3 & 4 - Carry out CCTV inspection for the drainage system	2	2	24-Feb-18	25-Feb-18	-115	Calendar Day
<b>Section 10 Works - CWB Tunnel Structure (CH3246 - CH3400)</b>							
<b>TP5 Outstanding Works</b>							
S10-15-COU1-1020	TP5 - Carry out defects identification and rectification works	80	7	17-Jul-17 A	26-Feb-18	-110	Calendar Day
S10-15-COU1-1030	TP5 - Remedial works of the cross road ducts and drainage pipes	18	18	17-Sep-17 A	08-Mar-18	-121	Calendar Day
<b>Section 11 of the Works - Remainder of Works</b>							
<b>Mainline Works at WCR3</b>							
ST1-R3-2105	Carry out remedial works for 0.5 tonne Rock Armour	6	11	25-Dec-17 A	08-Mar-18	-135	HK Working Day
<b>Misc. Works</b>							
<b>Removal of Temporary Reclamation CH 3710 to CH 3730 (East)</b>							

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**CEDD CONTRACT NO. HK/2009/02**  
**WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)**  
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<p><b>CHUN WO - CRGL</b> <b>JOINT VENTURE</b></p>	<p><b>Milestone</b>   Milestone  <b>Current Works</b>   Current Works  <b>Critical Works</b>   Critical Works                      Remaining Level of Effort  </p>
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Activity ID	Activity Name	Or Dur	Rem Dur	Scheduled Actual Start	Scheduled Actual Finish	Total Float	Calendar
S11-HCO-2084	Box Culvert O Reinstatement - Bay 15A Remove Base formwork	1	1	01-Mar-18	02-Mar-18	-200	HK Working Day
S11-HCO-2086	Box Culvert O Reinstatement - Bay 15A Mid Wall rebar	3	3	13-Mar-18	15-Mar-18	-200	HK Working Day
S11-HCO-2088	Box Culvert O Reinstatement - Bay 15A Wall int formwork	2	2	15-Mar-18	17-Mar-18	-200	HK Working Day
S11-HCO-2089	Box Culvert O Reinstatement - Bay 15A External Wall rebar	3	3	17-Mar-18	21-Mar-18	-200	HK Working Day
S11-HCO-2091	Box Culvert O Reinstatement - Bay 15A Wall External formwork	2	2	21-Mar-18	22-Mar-18	-200	HK Working Day
S11-HCO-2091a	Box Culvert O Reinstatement - Bay 15A falsework and formwork for Roof	2	2	23-Mar-18	24-Mar-18	-200	HK Working Day
S11-HCO-2092	Box Culvert O Reinstatement - Bay 15A Roof rebar	3	3	24-Mar-18	26-Mar-18	-189	HK Working Day
S11-HCO-2093	Box Culvert O Reinstatement - Bay 15A End formwork	2	2	28-Mar-18	03-Apr-18	-189	HK Working Day
S11-HCO-2094	Box Culvert O Reinstatement - Bay 15A Roof and Wall concrete	1	1	03-Apr-18	04-Apr-18	-189	HK Working Day
S11-HCO-2095	Box Culvert O Reinstatement - Bay 15A Remove End formwork	2	2	04-Apr-18	06-Apr-18	-189	HK Working Day
<b>Box Culvert O Construction (North Section) - Bay 17A</b>							
S11-HCO-2026	Box Culvert O Reinstatement - Demolition of RC Decking above Bay 17A of Box Culvert O	7	7	23-Feb-18	02-Mar-18	-333	HK Working Day
S11-HCO-2112	Box Culvert O Reinstatement - Demolition of RC Decking above Bay 17A of Box Culvert O	4	4	24-Feb-18	01-Mar-18	-474	HK Working Day
S11-HCO-2114	Pipe Piling works (left -in) at Bay 17A	20	20	01-Mar-18	22-Mar-18	-174	HK Working Day
S11-HCO-2116	Insert Holes for installed Pipe Piles and grouting at Bay 17A	28	28	22-Mar-18	24-Apr-18	-174	HK Working Day
S11-HCO-2118	Demolish Remaining Part of Bay 17A	6	6	28-Mar-18	08-Apr-18	-174	HK Working Day
S11-HCO-2120	Excavate soil at Bay 17A	6	6	04-Apr-18	11-Apr-18	-174	HK Working Day
S11-HCO-2122	Erection of Strut and Walker (1 layer, 3 Struts) at Bay 17A	8	8	11-Apr-18	19-Apr-18	-174	HK Working Day
S11-HCO-2124	Demolition of Bulkhead Wall at Bay 18	8	8	19-Apr-18	27-Apr-18	-174	HK Working Day
S11-HCO-2126	Demolition of North D/Wall (2.2mPD, 110m3) at Bay 17A	6	6	27-Apr-18	04-May-18	-174	HK Working Day
<b>Box Culvert O Construction (South Portion) - Bay 14A</b>							
S11-HCO-2132	Modification for Pipe Piling works at Bay 14A	5	5	23-Feb-18	28-Feb-18	-398	HK Working Day
S11-HCO-2134	Pipe Piling works (left -in) at Bay 14A	5	5	28-Feb-18	05-Mar-18	-398	HK Working Day
S11-HCO-2156	Insert Holes for installed Pipe Piles and grouting at Bay 14A	4	4	05-Mar-18	09-Mar-18	-388	HK Working Day
S11-HCO-2158	Demolish Remaining Part of Bay 14A	8	8	17-Mar-18	17-Mar-18	-207	HK Working Day
S11-HCO-2160	Excavate soil at Bay 14A	4	4	17-Mar-18	22-Mar-18	-207	HK Working Day
S11-HCO-2162	Erection of Strut and Walker (1 layer, 1 strut) at Bay 14A	5	5	22-Mar-18	27-Mar-18	-207	HK Working Day
S11-HCO-2166	Demolition of South D/Wall (2.2mPD, 110m3) at Bay 14A	6	6	27-Mar-18	02-Apr-18	-207	HK Working Day
S11-HCO-2168	Grade 200 Rockfill to Formation Level at Bay 14A	3	3	05-Apr-18	10-Apr-18	-207	HK Working Day
S11-HCO-2172	Place Binding Layer at Bay 14A	1	1	10-Apr-18	11-Apr-18	-207	HK Working Day
S11-HCO-2174	Modification of Crane at Bay 14A	2	2	13-Apr-18	15-Apr-18	-207	HK Working Day
S11-HCO-2176	Install Precast Units (2.5m per unit of 30T, 16 units @3 units/day) at Bay 14A	6	6	13-Apr-18	19-Apr-18	-207	HK Working Day
S11-HCO-2178	Backfill to Ground Level (4m Height, 2 Layer/day 300 t/m3) at Bay 14A	7	7	20-Apr-18	27-Apr-18	-449	HK Working Day
<b>Box Culvert O Construction (South Portion) - Bay 14 to Bay 13</b>							
S11-HCO-2316	Box Culvert O Reinstatement - Bay 14 Pipe Piling works (left -in)	25	25	06-Mar-18	04-Apr-18	-398	HK Working Day
S11-HCO-2318	Box Culvert O Reinstatement - Bay 14 Insert Holes for installed Pipe Piles and grouting	21	21	10-Mar-18	04-Apr-18	-388	HK Working Day
S11-HCO-2320	Box Culvert O Reinstatement - Bay 14 Demolish Remaining Part	8	8	05-Apr-18	14-Apr-18	-220	HK Working Day
S11-HCO-2322	Box Culvert O Reinstatement - Bay 14 Excavate soil	6	6	18-Apr-18	21-Apr-18	-220	HK Working Day
S11-HCO-2324	Box Culvert O Reinstatement - Bay 14 Erection of Strut and Walker (1 layer, 4 struts)	5	5	21-Apr-18	26-Apr-18	-220	HK Working Day
S11-HCO-2326	Box Culvert O Reinstatement - Bay 14 Grade 200 Rockfill to Formation Level (Remaining Portion)	3	3	27-Apr-18	02-May-18	-220	HK Working Day
S11-HCO-2366	Box Culvert O Reinstatement - Bay 14 Place Binding Layer	1	1	02-May-18	03-May-18	-220	HK Working Day
S11-HCO-2368	Box Culvert O Reinstatement - Bay 13 Pipe Piling works (left -in)	34	34	05-Apr-18	14-May-18	-398	HK Working Day
S11-HCO-2368	Box Culvert O Reinstatement - Bay 13 Insert Holes for installed Pipe Piles and grouting	28	28	09-Apr-18	09-May-18	-390	HK Working Day
<b>Reinstatement for Traffic Diversion</b>							
S11-HH-0206	Rectification of road defects identified at Convention Avenue	5	5	17-Apr-18	23-Apr-18	-144	HK Working Day
<b>Van Shing Street Sewerage Works</b>							
S11-SW-1083	Trench excavation and shoring installation at Van Shing Street	12	23	31-Aug-17	17-Mar-18	-315	HK Working Day
S11-SW-1084	Divert existing DN500 and removal of D500 pvc pipe at the Van Shing Street	6	6	26-Mar-18	04-Apr-18	-322	HK Working Day
S11-SW-1085	Excavate trial pit to locate existing 132kV cables adjacent to the proposed DN750 pipe at the Van Shing Street	6	15	11-Aug-17	10-Apr-18	-332	HK Working Day
S11-SW-1086	Excavate trial trench T14WWS01 at the Van Shing Street	8	15	23-Sep-17	16-Mar-18	-332	HK Working Day
S11-SW-1086	Excavate trial trench T14WWS01 at the Van Shing Street	8	15	27-Nov-17	23-Feb-18	596	HK Working Day
S11-SW-1086	Excavate trial trench T14WWS01 at the Van Shing Street - Letter to UUI for shifting cables on 07/Nov/17	6	6	07-Nov-17	22-Mar-18	-332	HK Working Day
S11-SW-1085	Check the status of existing manhole at MH4,15 location and submit the finding to the ER	5	5	13-Apr-18	23-Apr-18	-329	HK Working Day
S11-SW-1086	Construction of manhole MH4,17 (Type II including DN600 inlet)	16	16	13-Apr-18	30-Apr-18	-329	HK Working Day
S11-SW-1087	Laying DN600 sewer pipes (near MH4,17 with 9m length approx.)	3	3	28-Mar-18	04-Apr-18	-332	HK Working Day
S11-SW-1088	Laying DN750 sewer pipes and connection to MH4,19	27	27	28-Mar-18	30-Apr-18	-329	HK Working Day

**CHUN WO - CRGL**  
**JOINT VENTURE**

◆ Milestone  
◆ Critical Milestones  
■ Current Works  
■ Critical Works  
■ Remaining Level of Effort

**CEDD CONTRACT NO. HK/2009/02**  
**WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)**  
**3-MONTH ROLLING PROGRAMME (data date 20-Feb-18)**

Date	Revision	Checked	Approved

Activity ID	Activity Name	Calendar	Or	Rem	Scheduled	Scheduled /	Total	Calendar	2018	May
S11-SW-1089	Backfill (300mm)layer), removal sheet piles and reinstaate the pavement	HK Working Day	27	27	04-Apr-18	Actual Start / Actual Finish	432	HK Working Day	March	Backfill (300mm)lay
					04-May-18				April	
									May	








<ul style="list-style-type: none"> <li>◆ Milestone</li> <li>◆ Critical Milestones</li> <li>■ Current Works</li> <li>■ Critical Works</li> <li>■ Remaining Level of Effort</li> </ul>	<b>CHUN WO - CRGL JOINT VENTURE</b>			<b>CEDD CONTRACT NO. HK/2009/02 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2) 3-MONTH ROLLING PROGRAMME (data date 20-Feb-18)</b>		
	Date	Revision	Checked	Approved		

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish
<b>HK/2012/08 Revised Works Programme Rev.11.1 (DD 30 Jun 2017)</b>				
<b>Dredging and Reclamation</b>				
<b>Marine Work Construction</b>				
<b>Zone D</b>				
<b>Seawall Construction - Zone D</b>				
<b>Seawall 10 &amp; 11</b>				
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	15	14-Oct-17	28-Oct-17
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	16	29-Oct-17	13-Nov-17
MAR20670	Zone D - Seawall 10 & 11: Lay geotextile and filter	19	14-Nov-17	02-Dec-17
<b>Works for Section Completion</b>				
<b>Construction</b>				
<b>CWB Tunnel &amp; Slip Road Structures and Facilities</b>				
<b>CWB D - Slip Road 1 - Trough / Retaining Wall</b>				
<b>CWB D - Slip Road 1 - Trough/Retaining Wall Structure</b>				
SIIA13742	Sec III A - CWB SR1 Trough & RW: Trough Structure bay 1a & 1b: Construct box-out area & backfilling	25	07-Oct-17	31-Oct-17
<b>Section III A - Road A2, A4 &amp; A5</b>				
<b>Roadwork &amp; Utilities - Section 1 (L1806 - L1801)</b>				
SIIA10303	Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L1806 - L1801)	20	01-Nov-17	23-Nov-17
SIIA10300	Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L202-L201)	21	03-Oct-17	26-Oct-17
SIIA10340	Sec III A - roadwork and utilities section 1 carriageway - utilities: HEC along carriageway	21	23-Dec-17	19-Jan-18
SIIA10302	Sec III A - roadwork and utilities section 1 carriageway - gully pipe	18	24-Nov-17	14-Dec-17
SIIA10320	Sec III A - roadwork and utilities section 1 carriageway - watermain	7	15-Dec-17	22-Dec-17
SIIA10290	Sec III A - roadwork and utilities section 1 carriageway - Implementation of TTA Stage 5	1	30-Sep-17	30-Sep-17
<b>Roadwork &amp; Utilities - Section 2 (L1810 - L1806)</b>				
SIIA12530	Sec III A - roadwork and utilities section 2 carriageway - watermain	10	14-Nov-17	24-Nov-17
SIIA12550	Sec III A - roadwork and utilities section 2 carriageway - utilities: HEC along carriageway & section 2 HEC & gully pipe (L1801 - L1806)	28	25-Nov-17	29-Dec-17
SIIA12510	Sec III A - roadwork and utilities section 2 carriageway - gully pipe (L1801 - L1806)	25	14-Oct-17	13-Nov-17
<b>Roadwork &amp; Utilities - Section 3 (L1808 - L1102)</b>				
SIIA12810	Sec III A - roadwork and utilities section 3 carriageway - black top	7	23-Dec-17	03-Jan-18
SIIA12770	Sec III A - roadwork and utilities section 3 carriageway - utilities: HEC & crossroad duct (PCCW & HGC)	41	13-Oct-17	30-Nov-17
SIIA12790	Sec III A - roadwork and utilities section 3 carriageway - road kerb & formation	19	01-Dec-17	22-Dec-17
<b>Roadwork &amp; Utilities - Section 4 (L1406 - L1401)</b>				
SIIA13010	Sec III A - roadwork and utilities section 4 carriageway - road formation: crossroad duct (HEC), road kerb & formation	24	20-Oct-17	17-Nov-17
SIIA13030	Sec III A - roadwork and utilities section 4 carriageway - black top	7	18-Nov-17	25-Nov-17
SIIA12990	Sec III A - roadwork and utilities section 4 carriageway - watermain	10	09-Oct-17	19-Oct-17

<b>3 Months Rolling Programme for Non-CR III Area ( Oct 2017 - Dec 2017)</b> <b>(Ref. to Works Programme Rev.11.1)</b>		Date	Revision	Checked	Approved
		03-Oct-17	11.1		

Data Date: 30-Jun-17

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



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2017	2018		
					Oct	Nov	Dec	Jan
<b>Roadwork &amp; Utilities - Section 6 (L1102 - L1411)</b>								
SI1A1339	Sec III A - roadwork and utilities section 6 carriageway - Roadwork & Utilities - Roadwork	5	05-Oct-17	10-Oct-17				
SI1A1339	Sec III A - roadwork and utilities section 6 carriageway - Gully pipe (L1101-L1102)	8	21-Oct-17	31-Oct-17				
SI1A13470	Sec III A - roadwork and utilities section 6 carriageway - black top	7	22-Nov-17	29-Nov-17				
SI1A13450	Sec III A - roadwork and utilities section 6 carriageway - road kerb & formation	8	01-Nov-17	21-Nov-17				
SI1A13395	Sec III A - roadwork and utilities section 6 carriageway - Drainage works (L1101-L1102)	9	11-Oct-17	20-Oct-17				
<b>Section V - Remaining At-Grade Road; Remove 2nd Stage ITA</b>								
<b>Roadwork &amp; Utilities</b>								
<b>Section 1 (L1504 - L1900)</b>								
SV12460	Sec V - Roadwork & Utilities Section 1 Carriageway - Utilities (TCSS crossroad duct)	21	11-Oct-17	04-Nov-17				
SV12570	Sec V - Roadwork & Utilities Section 1 footpath - utilities:TCSS	30	22-Nov-17	28-Dec-17				
SV12540	Sec V - Roadwork & Utilities Section 1 footpath - Watermain	14	06-Nov-17	21-Nov-17				
SV12580	Sec V - Roadwork & Utilities Section 1 footpath - paving block	30	29-Dec-17	02-Feb-18				
SV12490	Sec V - Roadwork & Utilities Section 1 Carriageway - Road kerb & formation	24	06-Nov-17	02-Dec-17				
SV12520	Sec V - Roadwork & Utilities Section 1 Carriageway - Black top	20	04-Dec-17	28-Dec-17				
<b>Section 2 (L1510 - L1504)</b>								
SV12604	Sec V - Roadwork & Utilities Section 2 Carriageway : formation for access diversion	6	30-Sep-17	07-Oct-17				
SV12606	Sec V - Roadwork & Utilities Section 2 Carriageway. Divert access cross Zone B	0	09-Oct-17					
SV12630	Sec V - Roadwork & Utilities Section 2 Carriageway - Drainage Works L1406A - L1406B	21	15-Nov-17	08-Dec-17				
SV12690	Sec V - Roadwork & Utilities Section 2 footpath - Drainage Works (L2104 - L2105)	25	09-Dec-17	10-Jan-18				
SV12610	Sec V - Roadwork & Utilities Section 2 Carriageway - Drainage Works L1507-L1504	31	09-Oct-17	14-Nov-17				
SV12665	Sec V - Roadwork & Utilities Section 2 Carriageway - Gully pipe (L1507-L1504, L1406A)	25	09-Dec-17	10-Jan-18				
<b>Section 3 (Culvert L - L1510)</b>								
SV12844	Sec V - Roadwork & Utilities Section 3 footpath - U channel	21	15-Nov-17	08-Dec-17				
SV12840	Sec V - Roadwork & Utilities footpath - Drainage works (Culvert L - L2105)	25	16-Oct-17	14-Nov-17				
SV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCSS, HGS, RCP, M	39	09-Dec-17	26-Jan-18				
SV12820	Sec V - Roadwork & Utilities Section 3 Carriageway - Black top	20	19-Dec-17	13-Jan-18				
SV12810	Sec V - Roadwork & Utilities Section 3 Carriageway - Gully pipe (Culvert L - L1611)	30	16-Oct-17	20-Nov-17				
SV12850	Sec V - Roadwork & Utilities footpath - Watermain	21	15-Nov-17	08-Dec-17				
SV12815	Sec V - Roadwork & Utilities Section 3 Carriageway - Road kerb & formation	24	21-Nov-17	18-Dec-17				
<b>Section IV - Slip Road 3</b>								
<b>Roadwork &amp; Utilities</b>								
<b>Section 1 (L16008 - L1601)</b>								
SV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2103-L2101)	21	03-Nov-17	27-Nov-17				
SV11780	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Watermain	18	29-Dec-17	19-Jan-18				
SV11764	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Gully pipe (L1607-L1601, L2004-L2005)	25	28-Nov-17	28-Dec-17				
SV11860	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - Drainage Works: future connection pipes	7	29-Dec-17	06-Jan-18				
<b>Section 2 (L2301 - L2105)</b>								
SV11941	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Drainage Works (L608-L1609)	30	19-Oct-17	23-Nov-17				
SV11960	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Watermain	10	20-Dec-17	03-Jan-18				

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2017	2018
					Oct	Nov
SIV11942	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Gully pipe (L230-L203, L1608-L1609)	22	24-Nov-17	19-Dec-17		
SIV12010	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Road work formation	24	20-Dec-17	19-Jan-18		
<b>Section 3 ( M/H1.6 - L2303 )</b>						
SIV12103	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: ELS	10	18-Oct-17	30-Oct-17		
SIV12104	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: Construct manhole & pipes	36	31-Oct-17	11-Dec-17		
SIV12105	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: backfilling & divert E/A	12	12-Dec-17	27-Dec-17		
SIV12120	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M1.6-CL1-C1.2): Construct MH and pipes	28	28-Dec-17	30-Jan-18		
SIV12100	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M/H1.7 - L2301)	31	19-Oct-17	24-Nov-17		
SIV12140	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Gully pipe (M/H 1.7 - L2301)	30	25-Nov-17	02-Jan-18		
SIV12180	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U channel	14	24-Oct-17	09-Nov-17		
SIV12220	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - Paving block	45	10-Nov-17	04-Jan-18		
<b>Section VII - Remainder Works</b>						
<b>Road &amp; Drainage Works (Culvert L - M/H1.7, Adjacent to SR3)</b>						
SVII11600	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Drainage Works (Culvert L - M/H1.7)	40	12-Dec-17	30-Jan-18		
<b>Retaining Wall RW5 Construction</b>						
SVII10860	Sec VII - Retaining wall RW5 - curing, removal formwork	15	07-Nov-17	23-Nov-17		
SVII10680	Sec VII - Retaining wall RW5 (bay 2) - construct base slab and wall	20	13-Oct-17	06-Nov-17		
SVII10820	Sec VII - Retaining wall RW5 (bay 4) - construct base slab and wall	20	13-Oct-17	06-Nov-17		
<b>Landing Steps Construction</b>						
<b>Landing Steps BSW13</b>						
SVII10920	Sec VII - Landing steps (BSW13) - install s.s. handrail / tactile / sign board / bollard	25	20-Nov-17	18-Dec-17		
SVII10900	Sec VII - Landing steps (BSW13) - install vertical fender / step fender	15	02-Nov-17	18-Nov-17		
<b>Landing Steps BSW4</b>						
SVII10960	Sec VII - Landing steps (BSW4) - install vertical fender / step fender	15	19-Dec-17	08-Jan-18		
<b>Promenade Seawall Parapet Construction</b>						
SVII13220	Sec VII - Zone D: Construct seawall block mass concrete parapet	40	04-Dec-17	22-Jan-18		
SVII13140	Sec VII - Zone A1, A2 & B: Construct seawall parapet	35	02-Nov-17	12-Dec-17		
<b>Promenade Footpath and EVA Construction</b>						
<b>Section 2</b>						
SVII12610	Sec VII - section 2 footpath - drainage works (L2203 - L2202A) & U-channel	49	14-Nov-17	12-Jan-18		
<b>Section 3</b>						
SVII12850	Sec VII - section 3 footpath - watermain	18	13-Oct-17	03-Nov-17		
SVII12870	Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, PCCW)	44	04-Nov-17	27-Dec-17		
SVII12875	Sec VII - 3 footpath - drainage works -U channel	14	28-Dec-17	13-Jan-18		
<b>Section 4</b>						
SVII13054	Sec VII - section 4 footpath - U channel	14	09-Dec-17	27-Dec-17		
SVII13052	Sec VII - section 4 footpath - watermain	21	15-Nov-17	08-Dec-17		
SVII13050	Sec VII - section 4 footpath - drainage works (L2203 - L2203A)	21	20-Oct-17	14-Nov-17		
SVII13055	Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC & PCCW	56	09-Dec-17	15-Feb-18		
<b>Section 5</b>						



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

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



Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2017			2018	
					Oct	Nov	Dec	Jan	Feb
SVII13275	Sec VII - section 5 footpath - watermain	21	26-Oct-17	20-Nov-17					
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC, PCCW	59	21-Nov-17	31-Jan-18					
Section 6									
SVII13514	Sec VII - section 6 footpath - U channel	20	14-Dec-17	09-Jan-18					
SVII13510	Sec VII - section 6 footpath - watermain	20	21-Nov-17	13-Dec-17					
SVII12490	Sec VII - section 6 footpath - drainage works(Culvert L-L2204)	25	21-Oct-17	20-Nov-17					
SVII13530	Sec VII - section 6 footpath - utilities: HEC, TCSS, HGC, PCCW	62	14-Dec-17	02-Mar-18					

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2018	2018	2018	Mar
<b>HK/2012/08 Revised Works Programme Rev.12.0(DD 20 November 2017)</b>								
<b>Dredging and Reclamation</b>								
<b>Marine Work Construction</b>								
<b>Zone D</b>								
<b>Seawall Construction - Zone D</b>								
<b>Seawall 10 &amp; 11</b>								
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	14	08-Jan-2018*	21-Jan-2018				
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	7	22-Jan-2018	28-Jan-2018				
MAR20670	Zone D - Seawall 10 & 11: Lay geotextile and filter	7	29-Jan-2018	04-Feb-2018				
<b>Works for Section Completion</b>								
<b>Construction</b>								
<b>Section III A - Road A2, A4 &amp; A5</b>								
<b>Roadwork &amp; Utilities - Section 1 (L1806 - L1801)</b>								
SIHA10270	Sec III A - section 1 carriageway - Construct M/H F9	7	20-Dec-2017	29-Dec-2017				
SIHA10272	Sec III A - section 1 carriageway - connect M/F F9 to existing pipe	7	30-Dec-2017	06-Jan-2018				
SIHA10274	Sec III A - section 1 carriageway - construct M/H F8C	7	20-Dec-2017	29-Dec-2017				
SIHA10276	Sec III A - section 1 carriageway - sewerage pipe from M/H F9 to F8C	3	30-Dec-2017	03-Jan-2018				
SIHA10278	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B	15	30-Dec-2017	17-Jan-2018				
SIHA10279b	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B (night time); construct M/H F8B	6	15-Dec-2017 A	28-Dec-2017				
SIHA10279c	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B (night time); construct sewerage pipe	29	02-Jan-2018	03-Feb-2018				
SIHA10292	Sec III A - section 1 carriageway - construct M/H F8A	7	09-Jan-2018	16-Jan-2018				
SIHA10293	Sec III A - section 1 carriageway - sewerage pipe from M/H F8B - F8A (night time)	6	05-Feb-2018	10-Feb-2018				
SIHA10294	Sec III A - section 1 carriageway - sewerage pipe from M/H F8A - F8	11	17-Jan-2018	29-Jan-2018				
SIHA10295	Sec III A - carriageway - works prior TTA stage 5: excavation and duct laying of TCS and public lighting	7	18-Jan-2018	25-Jan-2018				
SIHA10296	Sec III A - section 1 carriageway - works prior TTA stage 5: replace damaged manhole and pipeline	14	20-Dec-2017	08-Jan-2018				
SIHA10297	Sec III A - section 1 carriageway - works prior TTA stage 5: 25mm storm drain from 1522 to existing	7	09-Jan-2018	16-Jan-2018				
SIHA10298	Sec III A - section 1 carriageway - works prior TTA stage 5: road kerb	5	26-Jan-2018	31-Jan-2018				
SIHA10301	Sec III A - section 1 carriageway - works prior TTA stage 5: road formation	2	01-Feb-2018	02-Feb-2018				
SIHA10302	Sec III A - section 1 carriageway - works prior TTA stage 5: laying asphalt	5	03-Feb-2018	08-Feb-2018				
SIHA10303	Sec III A - section 1 carriageway - works prior TTA stage 5: road marking & preparation works	3	12-Feb-2018	14-Feb-2018				
SIHA10310	Sec III A - section 1 carriageway - TTA stage 5: Implementation of TTA Stage 5	1	15-Feb-2018	15-Feb-2018				
<b>Roadwork &amp; Utilities - Section 2 (L1810 - L1807)</b>								
SIHA12550	Sec III A - roadwork and utilities section 2 carriageway - utilities: HEC along carriageway & Crossroad duct (HEC & road kerb & formation	7	25-Nov-2017 A	29-Dec-2017				
SIHA12570	Sec III A - roadwork and utilities section 2 carriageway - road kerb & formation	17	30-Dec-2017	19-Jan-2018				
SIHA12590	Sec III A - roadwork and utilities section 2 carriageway - Hack top	7	20-Jan-2018	27-Jan-2018				

<b>3 Months Rolling Programme for Non-CRIII Area (January 2018 - March 2018)</b> (Ref. to Revised Works Programme Rev.12)		Date	Revision	Checked	Approved
Data Date: 20-Dec-2017		20-Dec-2017	12		
<ul style="list-style-type: none"> <li><span style="color: blue;">◆</span> Current Milestone</li> <li><span style="color: blue;">■</span> Actual Work</li> <li><span style="color: red;">■</span> Critical Remaining Work</li> <li><span style="color: green;">■</span> Remaining Work</li> <li><span style="color: green;">■</span> Remaining Level of Effort</li> </ul>					

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2018	2019	2020
<b>Roadwork &amp; Utilities - Section 3 (L1808 - L1102)</b>							
SI1A12710	Sec III A - roadwork and utilities section 3 carriageway - drainage roadwork (L1808 - L1102)	2	11-Dec-2017 A	21-Dec-2017			
SI1A12750	Sec III A - roadwork and utilities section 3 carriageway - gully pipe (L1808A - L1102)	12	22-Dec-2017	08-Jan-2018			
SI1A12762	Sec III A - roadwork and utilities section 3 carriageway - watermain	10	09-Jan-2018	19-Jan-2018			
SI1A12770	Sec III A - roadwork and utilities section 3 carriageway - utilities: HEC ducting (60m) & crossroad duct (PCW & HGC)	16	20-Jan-2018	07-Feb-2018			
SI1A12790	Sec III A - roadwork and utilities section 3 carriageway - road kerb & formation	17	08-Feb-2018	02-March-2018			
<b>Roadwork &amp; Utilities - Section 4 (L1406 - L1401)</b>							
SI1A12950	Sec III A - roadwork and utilities section 4 carriageway - drainage works (L1402 - L1401)	4	11-Dec-2017 A	23-Dec-2017			
SI1A12970	Sec III A - roadwork and utilities section 4 carriageway - gully pipe (L1401)	10	27-Dec-2017	08-Jan-2018			
SI1A13000	Sec III A - roadwork and utilities section 4 carriageway - formation (L1401)	5	09-Jan-2018	13-Jan-2018			
SI1A13050	Sec III A - roadwork and utilities section 4 carriageway - back top (L1401)	5	15-Jan-2018	19-Jan-2018			
<b>Roadwork &amp; Utilities - Section 6 (L1102 - L1411)</b>							
SI1A13380	Sec III A - roadwork and utilities section 6 carriageway - sealing up the gap between bay 12 of Culvert L	0	08-Nov-2017 A	01-Dec-2017 A			
SI1A13385	Sec III A - roadwork and utilities section 6 carriageway - watermain	3	02-Dec-2017 A	23-Dec-2017			
SI1A13389	Sec III A - roadwork and utilities section 6 carriageway - Backfilling of water channel from bay 16 to bay 20B	5	23-Dec-2017	30-Dec-2017			
SI1A13395	Sec III A - roadwork and utilities section 6 carriageway - Drainage works (L1103-L1102)	9	02-Jan-2018	11-Jan-2018			
SI1A13399	Sec III A - roadwork and utilities section 6 carriageway - gully pipe (L1104 - L1102)	8	12-Jan-2018	20-Jan-2018			
SI1A13444	Sec III A - roadwork and utilities section 6 carriageway - watermain (road crossing)	7	22-Jan-2018	29-Jan-2018			
SI1A13445	Sec III A - roadwork and utilities section 6 carriageway - utilities: crossed duct (HEC, HGC, PCCV)	13	30-Jan-2018	13-Feb-2018			
SI1A13450	Sec III A - roadwork and utilities section 6 carriageway - road kerb & formation	18	14-Feb-2018	09-March-2018			
<b>Section V - Remaining At-Grade Road &amp; Road P2</b>							
<b>Roadwork &amp; Utilities</b>							
<b>Section 1 (L1504 - L1900)</b>							
SV12466	Sec V - Roadwork & Utilities Section 1 - implementation of TTA stage 3E (closure of slow lane at northbound of Expo)	1	15-Jan-2018*	15-Jan-2018			
SV12460	Sec V - Roadwork & Utilities Section 1 - drainage works (L1902 - L1900)	15	16-Jan-2018	01-Feb-2018			
SV12462	Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 - L1900)	6	02-Feb-2018	08-Feb-2018			
SV12464	Sec V - Roadwork & Utilities Section 1 - temp. reinstatement to match with existing Expo Drive	14	09-Feb-2018	28-Feb-2018			
SV12540	Sec V - Roadwork & Utilities Section 1 footpath - Watermain	6	11-Dec-2017 A	28-Dec-2017			
SV12570	Sec V - Roadwork & Utilities Section 1 footpath - utilities: TCS	30	29-Dec-2017	02-Feb-2018			
SV12580	Sec V - Roadwork & Utilities Section 1 footpath - paving Block	29	03-Feb-2018	12-March-2018			
<b>Section 2 (L1510 - L1504)</b>							
SV12622	Sec V - Roadwork & Utilities Section 1 Carriageway - gully pipe (L1511 - L1609)	8	13-Dec-2017 A	30-Dec-2017			
SV12624	Sec V - Roadwork & Utilities Section 1 Carriageway - road kerb & formation	21	02-Jan-2018	25-Jan-2018			
SV12626	Sec V - Roadwork & Utilities Section 1 Carriageway - Black top	13	26-Jan-2018	09-Feb-2018			
SV12690	Sec V - Roadwork & Utilities Section 2 footpath - Drainage Works (L2104 - L2105)	18	23-Dec-2017	16-Jan-2018			
SV12692	Sec V - Roadwork & Utilities Section 2 footpath - U channel	14	17-Jan-2018	01-Feb-2018			
SV12695	Sec V - Roadwork & Utilities Section 2 footpath - Watermain	13	02-Feb-2018	20-Feb-2018			
<b>Section 3 (Culvert L - L1510)</b>							
SV12810	Sec V - Roadwork & Utilities Section 3 Carriageway - Gully pipe (Culvert L - L1611)	3	24-Nov-2017 A	22-Dec-2017			
SV12820	Sec V - Roadwork & Utilities Section 3 Carriageway - Black top	21	23-Dec-2017	19-Jan-2018			

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish
SIV12844	Sec IV - Roadwork & Utilities Section 3 footpath - U channel	6	09-Dec-2017 A	28-Dec-2017
SIV12850	Sec V - Roadwork & Utilities footpath - Watermain	14	29-Dec-2017	15-Jan-2018
SIV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCSS, HGC, FCCM	34	15-Jan-2018	27-Feb-2018
<b>Section IV - Slip Road 3</b>				
<b>Roadwork &amp; Utilities</b>				
<b>Section 1 (L16008 - L1601)</b>				
SIV11740	Sec IV - Re-Possession of the areas S and P	0	08-Dec-2017 A	
SIV11742	Sec IV - Re-Possession of the area at the end of Road P2	0	30-Dec-2017*	
SIV11744	Sec IV - sign gantry DS20 footing (type 1); remove existing 600mm drain pipe	4	20-Dec-2017*	23-Dec-2017
SIV11745	Sec IV - sign gantry DS20 footing (type 1); excavation	2	27-Dec-2017	28-Dec-2017
SIV11746	Sec IV - sign gantry DS20 footing (type 1); footing structure	14	29-Dec-2017	15-Jan-2018
SIV11747	Sec IV - sign gantry DS20 & DS21 footing (type 2); excavation & ELS	21	30-Dec-2017	24-Jan-2018
SIV11748	Sec IV - sign gantry DS20 & DS21 footing (type 2); footing structure	21	25-Jan-2018	21-Feb-2018
SIV11760	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1607 - L1608)	30	09-Dec-2017 A	26-Jan-2018
SIV11761	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1609 - L1605)	7	15-Jan-2018	23-Jan-2018
SIV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2103 - L2101A)	17	27-Jan-2018	15-Feb-2018
<b>Section 2 (L2301 - L2103)</b>				
SIV11940	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Drainage Works (L2301 - L2103)	5	09-Dec-2017 A	27-Dec-2017
SIV11942	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Gully pipe (L2301 - L2013, L1608 - L1609)	22	28-Dec-2017	23-Jan-2018
SIV11960	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Watermain	10	24-Jan-2018	03-Feb-2018
SIV12010	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Road kerb & formation	20	05-Feb-2018	02-Mar-2018
<b>Section 3 (M/H1.6 - L2301)</b>				
SIV12092	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M/H1.7 - L2301)	59	28-Dec-2017	10-Mar-2018
SIV12096	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.8: construct manholes	28	29-Nov-2017 A	24-Jan-2018
SIV12102	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.8: demolan existing seawall	13	25-Jan-2018	08-Feb-2018
SIV12103	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.2-M1.5: ELS	10	09-Feb-2018	23-Feb-2018
<b>Section VII - Remainder Works</b>				
<b>Road &amp; Drainage Works (Culvert L - M/H1.7, Adjacent to SR3)</b>				
SIV111600	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Drainage Works (Culvert L - M/H1.7)	59	09-Jan-2018	20-Mar-2018
<b>Retaining Wall RW5 Construction</b>				
SIV110660	Sec VII - Retaining Wall RW5 (bay 1) - construct base slab and wall	22	05-Feb-2018	05-Mar-2018
SIV110800	Sec VII - Retaining wall RW5 (bay 3) - construct base slab and wall	22	05-Feb-2018	05-Mar-2018
<b>Promenade Seawall Parapet Construction &amp; EVA</b>				
<b>Promenade Footpath</b>				
<b>Section 2</b>				
SIV112610	Sec VII - section 2 footpath - drainage works : L202 - L203A	20	29-Jan-2018	23-Feb-2018
<b>Section 3</b>				
SIV112850	Sec VII - section 3 footpath - watermain	17	20-Jan-2018	08-Feb-2018
SIV112870	Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, FCCM)	40	09-Feb-2018	03-Apr-2018
<b>Section 4</b>				

2018

Jan

Feb

Mar

Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	2018
SV113050	Sec VII - section 4 footpath - drainage works (L2203 & L2204)	0	21-Nov-2017 A	14-Dec-2017 A	
SV113110	Sec VII - section 4 footpath - paving block	25	14-Feb-2018	17-Mar-2018	
<b>Section 5</b>					
SV113270	Sec VII - section 5 footpath - drainage works (L2203A & L2204)	10	15-Dec-2017 A	03-Jan-2018	
SV113275	Sec VII - section 5 footpath - watermain	14	04-Jan-2018	19-Jan-2018	
SV113310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HSC, PCCW	42	20-Jan-2018	13-Mar-2018	
<b>Section 6</b>					
SV113490	Sec VII - section 6 footpath - drainage works (CJWvert L & L2204)	14	12-Jan-2018	27-Jan-2018	
SV113510	Sec VII - section 6 footpath - watermain	13	03-Feb-2018	21-Feb-2018	
<b>Section X - Protection &amp; Preservation of Trees</b>					
<b>Soft Landscaping Works</b>					
SX10020	Sec X - Protection & Preservation of Trees	276	31-Jan-2013 A	21-Sep-2018	

Mar

Feb

Jan

2

Activity ID	Activity Name	Rem Dur	Start	Finish	2017												2018		
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25
<b>3MRP (Nov 2017 - Feb 2017)</b>																			
<b>03 - PRELIMINARY WORKS</b>																			
<b>03.3 - Interface Works</b>																			
0330-1040	Relocate FEHD to Permanent Depot	9	02-Jan-18	11-Jan-18															
0330-1045	Clean-up Area after Relocation	3	12-Jan-18	15-Jan-18															
<b>FEHD Permanent Depot</b>																			
0330-1071	Installation of Post (43Nos) > Facility Area 5 & 10	6	27-Nov-17*	02-Dec-17															
0330-1073	Construction of Steel Roof > Facility Area 5 & 10	6	01-Dec-17	07-Dec-17															
0330-1075	Sprinkler System Installation > Facility Area 5 & 10	7	06-Dec-17	13-Dec-17															
0330-1077	T & C of Sprinkler System > Facility Area 5 & 10	6	14-Dec-17	20-Dec-17															
0330-1081	Installation of Post (73Nos) > Facility Area 6, 8 & 9	9	20-Nov-17	29-Nov-17															
0330-1095	Signage Works & remaining light post	3	21-Dec-17	23-Dec-17															
A4910	Road Marking & Misc Works	8	21-Dec-17	30-Dec-17															
<b>10 - SECTION X OF THE WORKS</b>																			
<b>10.1 - E/B Bridges (Bridge D, E and F)</b>																			
<b>10.1.4 - Bridge E / Hing Fat Slip Road</b>																			
<b>Bridge Construction</b>																			
1014-2280	Bridge E - Construct Permanent parapet at "TB" Tie-in	35	08-Sep-17 A	30-Dec-17															
<b>10.3 - Middle Bridge (Bridge F)</b>																			
<b>10.3.2 - Bridge Construction</b>																			
<b>Bridge F3B</b>																			
1032-2540	Bridge F3B - Construct Int. Double Noise Encl. (63m) (stage 1)	12	19-Sep-17 A	02-Dec-17															
1032-2550	Bridge F3B - Installation of CC & Temporary Lighting	25	04-Dec-17	03-Jan-18															
1032-2560	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	6	04-Jan-18	10-Jan-18															
1032-2561	Divert 2 Lane Traffic (Stage 1)	0	11-Jan-18																
1032-2562	Bridge F3B - Construct Int. Double Noise Encl. (63m) (stage 2)	27	11-Jan-18	10-Feb-18															
1032-2563	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	6	06-Feb-18	12-Feb-18															
1032-2564	Divert 2 Lane Traffic (Stage 2)	0	13-Feb-18																
<b>Bridge F2B</b>																			
1032-3080	Bridge F2B - Longitudinal Stitching	6	06-Oct-17 A	25-Nov-17															
1032-3100	Bridge F2B - Construct Median Barriers	12	25-Oct-17 A	09-Dec-17															
1032-3120	Bridge F2B - Construct Int. Double Noise Encl.	18	11-Nov-17 A	02-Jan-18															
1032-3140	Bridge F2B - Deck Road Waterproofing, Surfacing & Marking	6	04-Jan-18	10-Jan-18															
<b>Bridge F1B2</b>																			
1032-3810	Dismantle LGB	20	13-Nov-17 A	12-Dec-17															
1032-3820	Prestress External Tendon of Bridge F1B2	7	18-Nov-17 A	27-Nov-17															
1032-3840	Bridge F1B2 - Longitudinal Stitching	33	19-Jan-18	01-Mar-18															
1032-3860	Bridge F1B2 - Southern Parapet	30	13-Dec-17	18-Jan-18															
1032-3880	Bridge F1B2 - Construct Int. Double Noise Encl. Bridge F1B2	48	13-Jan-18	13-Mar-18															

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

**Contract HY/2009/19**  
**Three Months Rolling Programme (20.Nov.2017 to 19.Feb.2018)**

Activity ID	Activity Name	Rem Dur	Start	Finish	2017						2018					
					19	26	03	10	17	24	31	07	14	21	28	04
<b>Bridge F1B1</b>																
1032-1700	Dismantle LG1 and Cart away	20	11-Nov-17 A	12-Dec-17												
1032-1720	Prestress External Tendon of Bridge F1B2	12	02-Dec-17	15-Dec-17												
1032-1740	Bridge F1B1 - Longitudinal Stitching	60	16-Dec-17	01-Mar-18												
1032-1760	Bridge F1B1 - Construct Median Barriers	30	29-Dec-17	02-Feb-18												
1032-1780	Bridge F1B1 - Construct Int. Double Noise Encl. Bridge F1B2	46	16-Jan-18	13-Mar-18												
<b>Bridge F5</b>																
1032-3980	Bridge F5 Deck Surfacing & Marking	5	04-Jan-18	10-Jan-18												
1032-4000	TTA Cutting of Deck Bar Temp. TD & EB.Cons. of Parapet, Noise Encl.(Northside) start	0	13-Feb-18													
1032-4040	Cutting of Deck Between Temp. TD & EB> Pier F5-F8	12	13-Feb-18	01-Mar-18												
<b>All Middle Bridge F (Common)</b>																
1032-4220	Bridge F TCSS/E&M Ducts and Supports (F1B1, F1B2, F2B, F3B)	22	25-Oct-17 A	10-Jan-18												
1032-4240	Fresh Water Main 150D) at Bridge F Deck	87	27-Nov-17	13-Mar-18												
1032-4260	Bridge F Sign Gantries and Misc. Mounting Structure/Support	46	26-Dec-17	21-Feb-18*												
1032-4350	TCSS/LV Ducts at Zone 5 (Nighth work)	24	10-Nov-17 A	16-Dec-17												
1032-4353	TCSS/LV Ducts at Zone 1 & 3 (daywork)	16	20-Nov-17	07-Dec-17												
1032-4354	TCSS/LV Ducts at Zone 7 (Nighth work)	17	18-Dec-17	08-Jan-18												
1032-4355	TCSS/LV Ducts at Zone 2 (daywork)	9	18-Dec-17	28-Dec-17												
1032-4356	Sign Gantry (DS06B,DS06A & FADS06) (Nighth work)	50	22-Feb-18	24-Apr-18												
<b>10.6 - Tunnel Approach Ramp</b>																
<b>10.6.1 - Approach Ramp (Excluding Portion 1B)</b>																
<b>Structure Works</b>																
1061-6060	Bay 5 & 6 > Side Wall - Lower Portion - Install Waterproofing Membrane	0	20-Nov-17 A	20-Nov-17												
1061-6080	Bay 5 & 6 > Side Wall - Lower Portion - Rebar Fixing	2	20-Nov-17	21-Nov-17												
1061-6100	Bay 5 & 6 > Side Wall - Lower Portion - Erect Formworks	2	22-Nov-17	23-Nov-17												
1061-6120	Bay 5 & 6 > Side Wall - Lower Portion - Concreting	1	24-Nov-17	24-Nov-17												
1061-6140	Bay 5 & 6 > Side Wall - Lower Portion - Backfill Behind Side Wall	3	25-Nov-17	28-Nov-17												
1061-6160	Bay 5 & 6 > Side Wall - Lower Portion - Cast Temp. Concrete Slab (3days curing)	4	29-Nov-17	02-Dec-17												
1061-6180	Bay 5 & 6 > Side Wall - Lower Portion - Remove 1st & 2nd Struts & Waling	6	01-Dec-17	07-Dec-17												
1061-6200	Bay 5 & 6 > Side Wall - Upper Portion - Erect Scaffolding & Working Platform	4	06-Dec-17	09-Dec-17												
1061-6220	Bay 5 & 6 > Side Wall - Upper Portion - Erect Formwork (one side)	6	08-Dec-17	14-Dec-17												
1061-6240	Bay 5 & 6 > Side Wall - Upper Portion - Install Waterproofing Membrane	3	14-Dec-17	16-Dec-17												
1061-6260	Bay 5 & 6 > Side Wall - Upper Portion - Rebar Fixing	5	18-Dec-17	22-Dec-17												
1061-6280	Bay 5 & 6 > Side Wall - Upper Portion - Complete Formworks	4	21-Dec-17	26-Dec-17												
1061-6300	Bay 5 & 6 > Side Wall - Upper Portion - Concreting	1	27-Dec-17	27-Dec-17												
1061-6440	Bay 7 & 8 > Side Wall - Lower Portion - Install Waterproofing Membrane	1	22-Nov-17	22-Nov-17												
1061-6460	Bay 7 & 8 > Side Wall - Lower Portion - Rebar Fixing	3	23-Nov-17	25-Nov-17												
1061-6480	Bay 7 & 8 > Side Wall - Lower Portion - Erect Formworks	3	27-Nov-17	29-Nov-17												
1061-6500	Bay 7 & 8 > Side Wall - Lower Portion - Concreting	1	30-Nov-17	30-Nov-17												

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

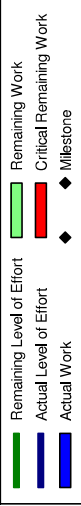
**Contract HY/2009/19**

**Three Months Rolling Programme (20.Nov.2017 to 19.Feb.2018)**

Page 2 of 6



Activity ID	Activity Name	Rem Dur	Start	Finish	2018														
					2017				2018				2018						
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25
					December				January				February						
1061-6520	Bay 7 & 8 > Side Wall - Lower Portion - Backfill Behind Side Wall	3	01-Dec-17	04-Dec-17															
1061-6540	Bay 7 & 8 > Side Wall - Lower Portion - Cast Temp Concrete Slab (3days curing)	4	05-Dec-17	09-Dec-17															
1061-6560	Bay 7 & 8 > Side Wall - Lower Portion - Remove 1st & 2nd Struts & Walling	6	07-Dec-17	14-Dec-17															
1061-6580	Bay 7 & 8 > Side Wall - Upper Portion - Erect Scaffolding & Working Platform	4	12-Dec-17	16-Dec-17															
1061-6600	Bay 7 & 8 > Side Wall - Upper Portion - Erect Formwork (one side)	5	14-Dec-17	20-Dec-17															
1061-6620	Bay 7 & 8 > Side Wall - Upper Portion - Install Waterproofing Membrane	3	18-Dec-17	21-Dec-17															
1061-6640	Bay 7 & 8 > Side Wall - Upper Portion - Rebar Fixing	4	20-Dec-17	26-Dec-17															
1061-6660	Bay 7 & 8 > Side Wall - Upper Portion - Complete Formworks	3	23-Dec-17	28-Dec-17															
1061-6680	Bay 7 & 8 > Side Wall - Upper Portion - Concreting	1	28-Dec-17	29-Dec-17															
1061-6820	Bay 1 - 8 > Side Wall - Backfilling Works	23	01-Dec-17	29-Dec-17															
<b>Retaining Walls &amp; Trough Structure B, C &amp; D</b>																			
1061-6860	Construct Retaining Wall E Pile Cap (7 nos)	41	06-Mar-17 A	08-Jan-18															
1061-6880	Construct Retaining Wall E2 (Ch 5371 - 5398)	18	29-Dec-17	19-Jan-18															
1061-6900	Construct Retaining Wall E1 (Ch 5332 - 5371)	18	09-Jan-18	29-Jan-18															
1061-6920	Construct Retaining Wall E3 (Ch 5399 - 5419)	14	20-Nov-17	05-Dec-17															
1061-6985	Parapet at Wall above Retaining Wall F	54	20-Nov-17	23-Jan-18															
1061-6987	Parapet at Wall above Retaining Wall E3	16	06-Dec-17	23-Dec-17															
1061-6989	Parapet at Wall above Retaining Wall E1 & 2	57	20-Jan-18	31-Mar-18															
1061-7000	Backfill to Road Founding Level	14	06-Dec-17	21-Dec-17															
1061-7020	Falseworks System for Landscape Deck	18	22-Dec-17	13-Jan-18															
1061-7040	Excavate for Foundation of Retaining Wall D	7	22-Dec-17	30-Dec-17															
1061-7060	Construct Retaining Wall D Footing (Ch 190 - 170)	18	02-Jan-18	22-Jan-18															
1061-7080	Construct Retaining Wall D (Ch 190 - 170)	32	30-Jan-18	10-Mar-18															
1061-7120	Excavate to Founding Level Trough B Structure	12	02-Jan-18	15-Jan-18															
1061-7140	Construct Trough Structure B Base Slab	18	16-Jan-18	05-Feb-18															
1061-7180	Excavate to Founding Level Trough C Structure	24	16-Jan-18	12-Feb-18															
1061-7200	Construct Trough Structure C Base Slab	18	13-Feb-18	08-Mar-18															
1061-7220	Construct Trough Structure C Side Walls	24	09-Mar-18	09-Apr-18															
1061-7240	Road & other Misc Works at Trough D	15	10-Apr-18	26-Apr-18															
<b>Landscape Deck</b>																			
1061-7260	Ch 5331 - 5419 > Construct LD Middle Pile Cap (7nos)	21	20-Nov-17	13-Dec-17															
1061-7280	Bay 5 & 6 > Ch 5262 - 5292 - Construct Columns (6 nos)	12	28-Dec-17	11-Jan-18															
1061-7300	Bay 5 & 6 > Ch 5262 - 5292 - Beam & Deck (30m)	23	12-Jan-18	07-Feb-18															
1061-7320	Bay 4 > Ch 5292 - 5303 - Construct Columns (3 nos)	12	27-Nov-17	09-Dec-17															
1061-7340	Bay 4 > Ch 5292 - 5303 - Beam & Deck (12m)	24	28-Dec-17	25-Jan-18															
1061-7360	Bay 7 & 8 > Ch 5232 - 5262 - Construct Columns (9 nos)	12	12-Jan-18	25-Jan-18															
1061-7380	Bay 7 & 8 > Ch 5232 - 5262 - Beam & Deck (30m)	23	19-Jan-18	14-Feb-18															
1061-7400	Bay 1 to 3 > Ch 5303 - 5331 > Construct Columns (9 nos)	21	27-Nov-17	20-Dec-17															
1061-7420	Bay 1 to 3 > Ch 5303 - 5331 > Beam & Deck	23	02-Jan-18	27-Jan-18															



Activity ID	Activity Name	Rem Dur	Start	Finish	2018														
					2017						2018								
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25
					December														
					January														
					February														
1061-7440	Ch 5331 - 5419 > Construct Columns (23nos)	12	14-Dec-17	28-Dec-17	Ch 5331 - 5419 > Construct Columns (23nos)														
1061-7460	Ch 5331 - 5419 > Beam & Deck	23	19-Jan-18	14-Feb-18	Ch 5331 - 5419 > Bear														
1061-7480	Ch 5303 - 5419 > Noise Panel Installations	45	08-Feb-18	07-Apr-18	Ch 5331 - 5419 > Bear														
<b>10.6.2 - Approach Ramp (Within Portion IIB)</b>																			
<b>ELS</b>																			
A1050	ELS Installation and Excavation Part 3 (750m <sup>3</sup> / day)	7	17-Nov-17 A	27-Nov-17	ELS Installation and Excavation Part 3 (750m <sup>3</sup> / day)														
A1060	ELS Installation and Excavation Part 4 (750m <sup>3</sup> / day)	8	21-Nov-17	29-Nov-17	ELS Installation and Excavation Part 4 (750m <sup>3</sup> / day)														
A1070	ELS Installation and Excavation Part 5 (750m <sup>3</sup> / day)	9	27-Nov-17	06-Dec-17	ELS Installation and Excavation Part 5 (750m <sup>3</sup> / day)														
A1080	ELS Installation and Excavation Part 6 (750m <sup>3</sup> / day)	8	07-Dec-17	15-Dec-17	ELS Installation and Excavation Part 6 (750m <sup>3</sup> / day)														
A1090	ELS Installation and Excavation Part 7 (750m <sup>3</sup> / day)	7	13-Dec-17	20-Dec-17	ELS Installation and Excavation Part 7 (750m <sup>3</sup> / day)														
A1100	ELS Installation and Excavation Part 8 (750m <sup>3</sup> / day)	7	19-Dec-17	27-Dec-17	ELS Installation and Excavation Part 8 (750m <sup>3</sup> / day)														
<b>Structure</b>																			
<b>Bay 1</b>																			
<b>Base Slab</b>																			
A1110	Blinding	1	07-Dec-17	07-Dec-17	Blinding														
A1120	Water Proofing Membrane	2	08-Dec-17	09-Dec-17	Water Proofing Membrane														
A1130	Rebar fixing	4	11-Dec-17	14-Dec-17	Rebar fixing														
A1140	Erect Formwork	4	13-Dec-17	16-Dec-17	Erect Formwork														
A1150	Remove Formwork and Apply Vertical Water Proofing	2	18-Dec-17	19-Dec-17	Remove Formwork and Apply Vertical Water Proofing														
<b>Wall - Lower Portion</b>																			
A1160	Remove S3 and S4 Strut + Waling	2	20-Dec-17	21-Dec-17	Remove S3 and S4 Strut + Waling														
A1170	Erect Working Platform and Rebar Fixing	2	22-Dec-17	23-Dec-17	Erect Working Platform and Rebar Fixing														
A1180	Erect and Formwork	3	26-Dec-17	28-Dec-17	Erect and Formwork														
A1190	Concreting	1	29-Dec-17	29-Dec-17	Concreting														
A1200	Vertical Water Proofing	1	30-Dec-17	30-Dec-17	Vertical Water Proofing														
A1210	Backfilling	3	02-Jan-18	04-Jan-18	Backfilling														
<b>Wall - Upper Portion</b>																			
A1220	Remove S1 and S2 Strut + Waling	2	05-Jan-18	06-Jan-18	Remove S1 and S2 Strut + Waling														
A1230	Erect Working Platform and Rebar Fixing	3	08-Jan-18	10-Jan-18	Erect Working Platform and Rebar Fixing														
A1240	Erect and Formwork	3	11-Jan-18	13-Jan-18	Erect and Formwork														
A1250	Concreting	1	15-Jan-18	15-Jan-18	Concreting														
A1260	Vertical Water Proofing	1	16-Jan-18	16-Jan-18	Vertical Water Proofing														
<b>Bay 2</b>																			
<b>Base Slab</b>																			
A1270	Blinding	1	18-Dec-17	18-Dec-17	Blinding														
A1280	Water Proofing Membrane	2	19-Dec-17	20-Dec-17	Water Proofing Membrane														
A1290	Rebar fixing	4	21-Dec-17	26-Dec-17	Rebar fixing														
A1300	Erect Formwork	4	23-Dec-17	28-Dec-17	Erect Formwork														
A1310	Remove Formwork and Apply Vertical Water Proofing	2	29-Dec-17	30-Dec-17	Remove Formwork and Apply Vertical Water Proofing														

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

Activity ID	Activity Name	Rem Dur	Start	Finish	2017				2018							
					19	26	03	10	17	24	31	07	14	21	28	04
<b>Wall - Lower Portion</b>																
A1320	Remove S3 and S4 Strut + Waling	2	02-Jan-18	03-Jan-18												
A1330	Erect Working Platform and Rebar Fixing	2	04-Jan-18	05-Jan-18												
A1340	Erect and Formwork	3	06-Jan-18	09-Jan-18												
A1350	Concreting	1	10-Jan-18	10-Jan-18												
A1360	Vertical Water Proofing	1	11-Jan-18	11-Jan-18												
A1370	Backfilling	3	12-Jan-18	15-Jan-18												
<b>Wall - Upper Portion</b>																
A1380	Remove S1 and S2 Strut + Waling	2	16-Jan-18	17-Jan-18												
A1390	Erect Working Platform and Rebar Fixing	3	18-Jan-18	20-Jan-18												
A1400	Erect and Formwork	3	22-Jan-18	24-Jan-18												
A1410	Concreting	1	25-Jan-18	25-Jan-18												
A1420	Vertical Water Proofing	1	26-Jan-18	26-Jan-18												
<b>Bay 3</b>																
<b>Base Slab</b>																
A1430	Blinding	1	29-Dec-17	29-Dec-17												
A1440	Water Proofing Membrane	2	30-Dec-17	02-Jan-18												
A1450	Rebar fixing	4	03-Jan-18	06-Jan-18												
A1460	Erect Formwork	4	05-Jan-18	09-Jan-18												
A1470	Remove Formwork and Apply Vertical Water Proofing	2	10-Jan-18	11-Jan-18												
<b>Wall - Lower Portion</b>																
A1480	Remove S3 and S4 Strut + Waling	2	12-Jan-18	13-Jan-18												
A1490	Erect Working Platform and Rebar Fixing	2	15-Jan-18	16-Jan-18												
A1500	Erect and Formwork	3	17-Jan-18	19-Jan-18												
A1510	Concreting	1	20-Jan-18	20-Jan-18												
A1520	Vertical Water Proofing	1	22-Jan-18	22-Jan-18												
A1530	Backfilling	3	23-Jan-18	25-Jan-18												
<b>Wall - Upper Portion</b>																
A1540	Remove S1 and S2 Strut + Waling	2	26-Jan-18	27-Jan-18												
A1550	Erect Working Platform and Rebar Fixing	2	29-Jan-18	30-Jan-18												
A1560	Erect and Formwork	3	31-Jan-18	02-Feb-18												
A1570	Concreting	1	03-Feb-18	03-Feb-18												
A1580	Vertical Water Proofing	1	05-Feb-18	05-Feb-18												
<b>Bay 4</b>																
<b>Base Slab</b>																
A1590	Blinding	1	10-Jan-18	10-Jan-18												
A1600	Water Proofing Membrane	2	11-Jan-18	12-Jan-18												
A1610	Rebar fixing	4	13-Jan-18	17-Jan-18												
A1620	Erect Formwork	4	18-Jan-18	22-Jan-18												
<b>Legend</b>																
Remaining Level of Effort          Actual Level of Effort          Remaining Work          Critical Remaining Work          Milestone																

Activity ID	Activity Name	Rem Dur	Start	Finish	2017												2018							
					19	26	03	10	17	24	31	07	14	21	28	04	11	18	25					
A1630	Remove Formwork and Apply Vertical Water Proofing	2	23-Jan-18	24-Jan-18																				
<b>Wall - Lower Portion</b>																								
A1640	Remove S3 and S4 Strut + Waling	2	25-Jan-18	26-Jan-18																				
A1650	Erect Working Platform and Rebar Fixing	2	27-Jan-18	29-Jan-18																				
A1660	Erect and Formwork	3	30-Jan-18	01-Feb-18																				
A1670	Concreting	1	02-Feb-18	02-Feb-18																				
A1680	Vertical Water Proofing	1	03-Feb-18	03-Feb-18																				
A1690	Backfilling	3	05-Feb-18	07-Feb-18																				
<b>Wall - Upper Portion</b>																								
A1710	Remove S1 and S2 Strut + Waling	2	08-Feb-18	09-Feb-18																				
A1720	Erect Working Platform and Rebar Fixing	2	10-Feb-18	12-Feb-18																				
A1730	Erect and Formwork	3	13-Feb-18	15-Feb-18																				
A1740	Concreting	1	20-Feb-18	20-Feb-18																				
A1750	Vertical Water Proofing	1	21-Feb-18	21-Feb-18																				
<b>Bay 5</b>																								
<b>Base Slab</b>																								
A1760	Blinding	1	23-Jan-18	23-Jan-18																				
A1770	Water Proofing Membrane	2	24-Jan-18	25-Jan-18																				
A1780	Rebar fixing	4	26-Jan-18	30-Jan-18																				
A1790	Erect Formwork	4	29-Jan-18	01-Feb-18																				
A1800	Remove Formwork and Apply Vertical Water Proofing	2	02-Feb-18	03-Feb-18																				
<b>Wall - Lower Portion</b>																								
A1810	Remove S3 and S4 Strut + Waling	2	05-Feb-18	06-Feb-18																				
A1820	Erect Working Platform and Rebar Fixing	2	07-Feb-18	08-Feb-18																				
A1830	Erect and Formwork	3	09-Feb-18	12-Feb-18																				
A1840	Concreting	1	13-Feb-18	13-Feb-18																				
A1850	Vertical Water Proofing	1	14-Feb-18	14-Feb-18																				
A1860	Backfilling	3	15-Feb-18	21-Feb-18																				

**Contract HY/2009/19**  
**Three Months Rolling Programme (20.Nov.2017 to 19.Feb.2018)**

Legend:  
 Remaining Level of Effort: Green bar  
 Actual Level of Effort: Blue bar  
 Actual Work: Blue bar with diagonal lines  
 Remaining Work: Green bar  
 Critical Remaining Work: Red bar  
 Milestone: Diamond

Page 6 of 6

Activity ID	Activity Name	Start	Finish	Rem Dur	2018															
					Y	21	28	04	11	18	25	04	11	18	25	01	08	15	22	29

3MRP (Jan 2018 - April 2018)																					
03 - PRELIMINARY WORKS																					
03.3 - Interface Works																					
FEHD Permanent Depot																					
0330-1071	Installation of Post (43Nos) > Facility Area 5 & 10	22-Jan-18*	27-Jan-18	6																	
0330-1073	Construction of Steel Roof > Facility Area 5 & 10	26-Jan-18	01-Feb-18	6																	
0330-1075	Sprinkler System Installation > Facility Area 5 & 10	31-Jan-18	07-Feb-18	7																	
0330-1077	T & C of Sprinkler System > Facility Area 5 & 10	08-Feb-18	14-Feb-18	6																	
0330-1081	Installation of Post (73Nos) > Facility Area 6, 8 & 9	20-Jan-18	30-Jan-18	9																	

10 - SECTION X OF THE WORKS											
10.3 - Middle Bridge (Bridge F)											
10.3.2 - Bridge Construction											

Bridge F3B																					
1032-2562	Bridge F3B - Construct Int. Double Noise Encl. (83m) (stage 2)	15-Jan-18 A	13-Feb-18	21																	
1032-2563	Bridge F3B - Deck Road Waterproofing, Surfacing & Marking	08-Feb-18	14-Feb-18	6																	
1032-2564	Divert 2 Lane Traffic (Stage 2)	15-Feb-18		0																	
Bridge F1B2																					
1032-3840	Bridge F1B2 - Longitudinal Stitching	19-Jan-18 A	01-Mar-18	27																	
1032-3860	Bridge F1B2 - Southern Parapet	14-Dec-17 A	25-Jan-18	5																	
1032-3880	Bridge F1B2 - Construct Int. Double Noise Encl. Bridge F1B2	13-Jan-18 A	27-Feb-18	30																	
1032-3900	Bridge F1B2 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	02-Mar-18	09-Mar-18	7																	
Bridge F1B1																					
1032-1740	Bridge F1B1 - Longitudinal Stitching	16-Dec-17 A	17-Jan-18 A	0																	
1032-1780	Bridge F1B1 - Construct Int. Double Noise Encl. Bridge F1B2	16-Jan-18 A	27-Feb-18	30																	
1032-1800	Bridge F1B1 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	02-Mar-18	09-Mar-18	7																	
Bridge F5																					
1032-4040	Cutting of Deck Between Temp. TD & E/B > Pier F5-F8	15-Feb-18	03-Mar-18	12																	
1032-4060	Cutting of Deck Between Temp. TD & E/B > Pier F8-F11	05-Mar-18	17-Mar-18	12																	
1032-4080	Cutting of Deck Between Temp. TD & E/B > Pier F11-F14	19-Mar-18	03-Apr-18	12																	
1032-4100	Construction Parapet (Northside) > Pier F5-F8	26-Feb-18	10-Mar-18	12																	
1032-4120	Construction Parapet (Northside) > Pier F8-F11	12-Mar-18	24-Mar-18	12																	
1032-4140	Construction Parapet (Northside) > Pier F11-F14	26-Mar-18	11-Apr-18	12																	
1032-4160	Construct Noise Enclosure (Northside) > Pier F5 - F8	12-Mar-18	11-Apr-18	24																	
All Middle Bridge F (Common)																					
1032-4240	Fresh Water Main 150DI at Bridge F Deck	27-Nov-17 A	24-Mar-18	52																	
1032-4260	Bridge F Sign Gantries and Misc. Mounting Structure/Support	26-Dec-17 A	21-Feb-18*	25																	
1032-4356	Sign Gantry (DS06B, DS06A & FADS06) (Nigth work)	22-Feb-18	24-Apr-18	50																	

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.Jan.2018 to 19.Apr.2018)

Page 1 of 4

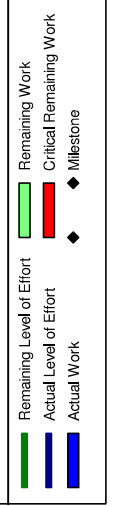
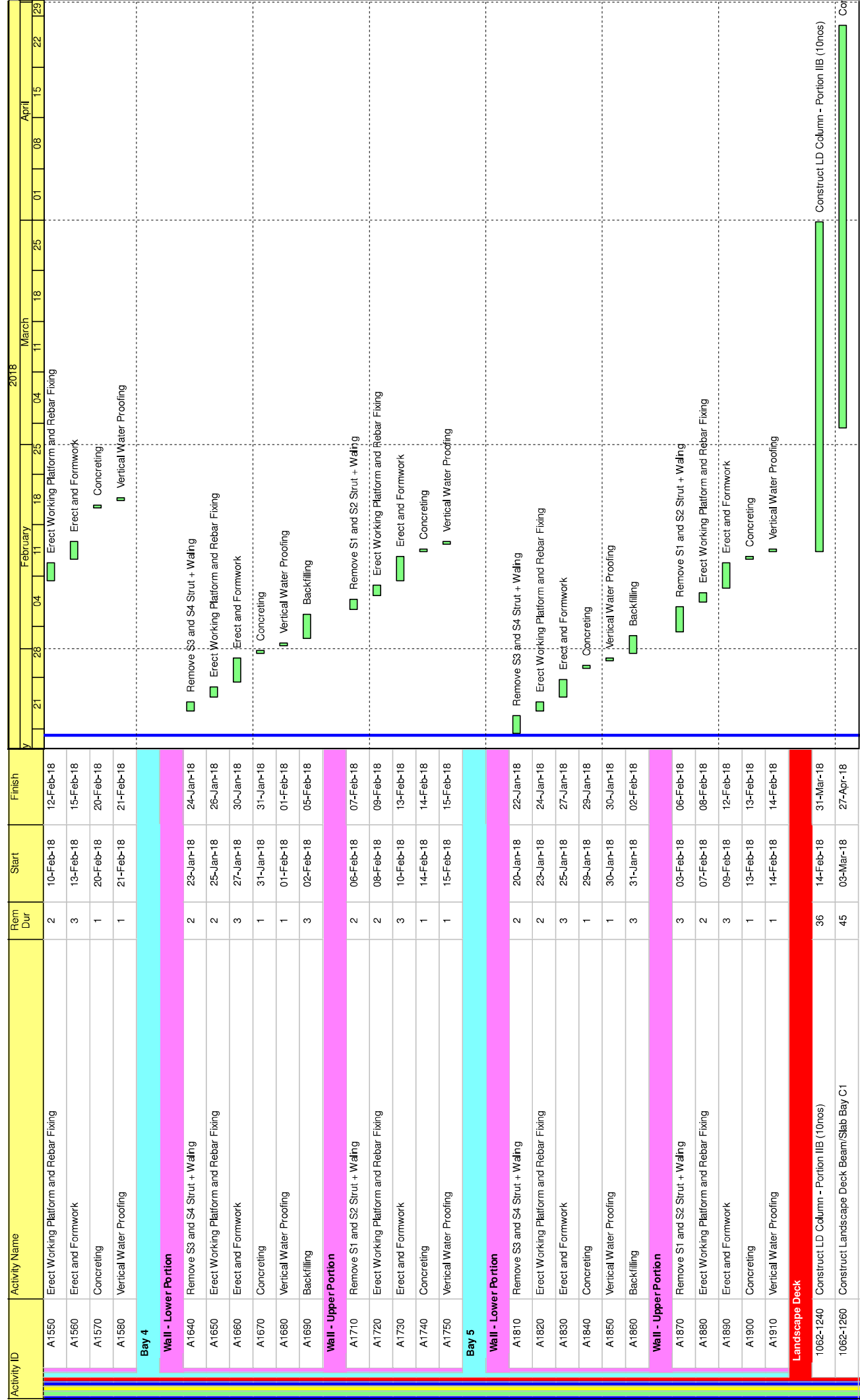
Activity ID	Activity Name	Rem Dur	Start	Finish	2018											
					Y	21	28	04	11	18	25	01	08	15	22	29
<b>10.6 - Tunnel Approach Ramp</b>																
<b>10.6.1 - Approach Ramp (Excluding Portion IIB)</b>																
<b>Structure Works</b>																
1061-6660	Bay 7 & 8 > Side Wall - Upper Portion - Complete Formworks	1	11-Jan-18	20-Jan-18												
1061-6680	Bay 7 & 8 > Side Wall - Upper Portion - Concreting	1	22-Jan-18	22-Jan-18												
1061-6682	Bay 1 - 8 > Side Wall - Backfilling Works	17	01-Dec-17	08-Feb-18												
<b>Retaining Walls &amp; Trough Structure B,C &amp; D</b>																
1061-6680	Construct Retaining Wall E Pile Cap (7 nos)	28	06-Mar-17	24-Feb-18												
1061-6880	Construct Retaining Wall E2 (Ch 5371 - 5398)	14	20-Jan-18	05-Feb-18												
1061-6900	Construct Retaining Wall E1 (Ch 5332 - 5371)	18	26-Feb-18	17-Mar-18												
1061-6985	Parapet at Wall above Retaining Wall F	10	21-Dec-17	31-Jan-18												
1061-6988	Parapet at Wall above Retaining Wall E2	14	06-Feb-18	24-Feb-18												
1061-6990	Parapet at Wall above Retaining Wall E1	18	19-Mar-18	11-Apr-18												
1061-7010	Backfilling to form flat level	7	18-Jan-18	27-Jan-18												
1061-7020	Falseworks System for Landscape Deck	18	29-Jan-18	21-Feb-18												
1061-7040	Excavate for Foundation of Retain Wall D	7	22-Feb-18	01-Mar-18												
1061-7060	Construct Retaining Wall D Footing (Ch 190 - 170)	18	02-Mar-18	22-Mar-18												
1061-7080	Construct Retaining Wall D (Ch 190 - 170)	24	23-Mar-18	23-Apr-18												
1061-7120	Excavate to Founding Level Trough B Structure	12	02-Mar-18	15-Mar-18												
1061-7140	Construct Trough Structure B Base Slab	24	16-Mar-18	16-Apr-18												
1061-7160	Construct Trough Structure B Side Walls	24	17-Apr-18	15-May-18												
1061-7180	Excavate to Founding Level Trough C Structure	14	09-Mar-18	24-Mar-18												
1061-7200	Construct Trough Structure C Base Slab	18	26-Mar-18	18-Apr-18												
<b>Landscape Deck</b>																
1061-7260	Ch 5331 - 5419 > Construct LD Middle Pile Cap (7nos)	7	20-Nov-17	27-Jan-18												
1061-7280	Bay 5 & 6 > Ch 5262 - 5292 - Construct Columns (6 nos)	12	11-Jan-18	02-Feb-18												
1061-7300	Bay 5 & 6 > Ch 5262 - 5292 - Beam & Deck (30m)	23	03-Feb-18	05-Mar-18												
1061-7320	Bay 4 > Ch 5292 - 5303 - Construct Columns (3 nos)	9	11-Dec-17	30-Jan-18												
1061-7340	Bay 4 > Ch 5292 - 5303 - Beam & Deck (12m)	24	31-Jan-18	02-Mar-18												
1061-7360	Bay 7 & 8 > Ch 5232 - 5262 - Construct Columns (9 nos)	12	03-Feb-18	20-Feb-18												
1061-7380	Bay 7 & 8 > Ch 5232 - 5262 - Beam & Deck (30m)	23	10-Feb-18	12-Mar-18												
1061-7420	Bay 1 to 3 > Ch 5303 - 5331 > Beam & Deck	23	03-Feb-18	05-Mar-18												
1061-7440	Ch 5331 - 5419 > Construct Columns (23nos)	12	29-Jan-18	10-Feb-18												
1061-7460	Ch 5331 - 5419 > Beam & Deck	23	12-Feb-18	13-Mar-18												
<b>10.6.2 - Approach Ramp (Within Portion IIB)</b>																
<b>Structure</b>																
<b>Bay 1</b>																

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

Activity ID	Activity Name	Rem Dur	Start	Finish	2018																																		
					January							February							March							April													
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
<b>Wall - Lower Portion</b>																																							
A1160	Remove S3 and S4 Strut + Waling	2	30-Jan-18	31-Jan-18																																			
A1170	Erect Working Platform and Rebar Fixing	2	01-Feb-18	02-Feb-18																																			
A1180	Erect and Formwork	3	03-Feb-18	06-Feb-18																																			
A1190	Concreting	1	07-Feb-18	07-Feb-18																																			
A1200	Vertical Water Proofing	1	08-Feb-18	08-Feb-18																																			
A1210	Backfilling	3	09-Feb-18	12-Feb-18																																			
<b>Wall - Upper Portion</b>																																							
A1220	Remove S1 and S2 Strut + Waling	2	13-Feb-18	14-Feb-18																																			
A1230	Erect Working Platform and Rebar Fixing	3	15-Feb-18	21-Feb-18																																			
A1240	Erect and Formwork	3	22-Feb-18	24-Feb-18																																			
A1250	Concreting	1	26-Feb-18	26-Feb-18																																			
A1260	Vertical Water Proofing	1	27-Feb-18	27-Feb-18																																			
<b>Bay 2</b>																																							
<b>Wall - Lower Portion</b>																																							
A1320	Remove S3 and S4 Strut + Waling	2	27-Jan-18	29-Jan-18																																			
A1330	Erect Working Platform and Rebar Fixing	2	30-Jan-18	31-Jan-18																																			
A1340	Erect and Formwork	3	01-Feb-18	03-Feb-18																																			
A1350	Concreting	1	05-Feb-18	05-Feb-18																																			
A1360	Vertical Water Proofing	1	06-Feb-18	06-Feb-18																																			
A1370	Backfilling	3	07-Feb-18	09-Feb-18																																			
<b>Wall - Upper Portion</b>																																							
A1380	Remove S1 and S2 Strut + Waling	2	10-Feb-18	12-Feb-18																																			
A1390	Erect Working Platform and Rebar Fixing	3	13-Feb-18	15-Feb-18																																			
A1400	Erect and Formwork	3	20-Feb-18	22-Feb-18																																			
A1410	Concreting	1	23-Feb-18	23-Feb-18																																			
A1420	Vertical Water Proofing	1	24-Feb-18	24-Feb-18																																			
<b>Bay 3</b>																																							
<b>Wall - Lower Portion</b>																																							
A1480	Remove S3 and S4 Strut + Waling	2	25-Jan-18	26-Jan-18																																			
A1490	Erect Working Platform and Rebar Fixing	2	27-Jan-18	29-Jan-18																																			
A1500	Erect and Formwork	3	30-Jan-18	01-Feb-18																																			
A1510	Concreting	1	02-Feb-18	02-Feb-18																																			
A1520	Vertical Water Proofing	1	03-Feb-18	03-Feb-18																																			
A1530	Backfilling	3	05-Feb-18	07-Feb-18																																			
<b>Wall - Upper Portion</b>																																							
A1540	Remove S1 and S2 Strut + Waling	2	08-Feb-18	09-Feb-18																																			

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



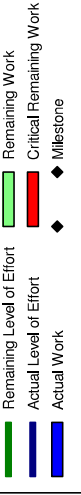
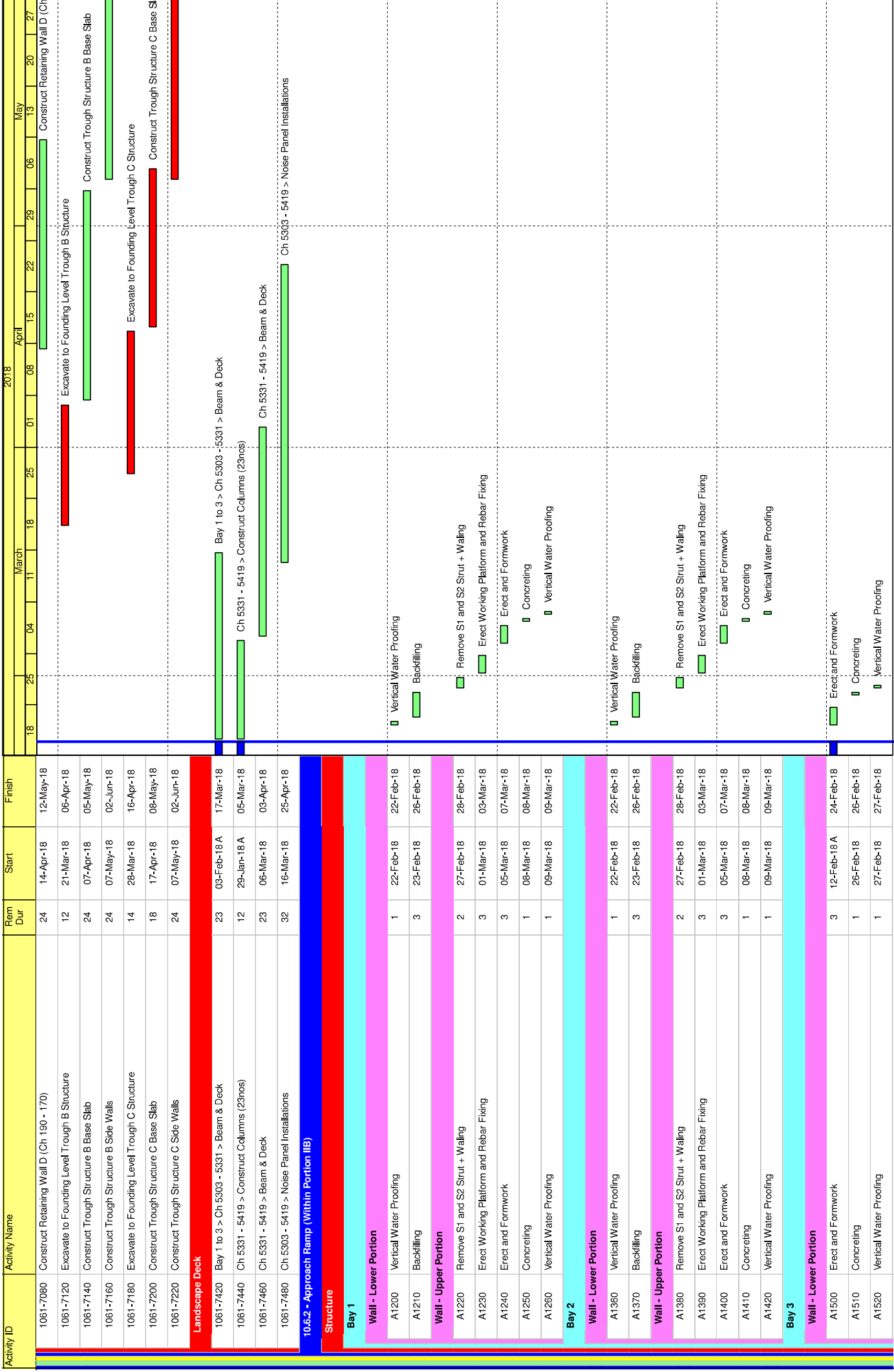


**Contract HY/2009/19**  
**Three Months Rolling Programme (20.Jan.2018 to 19.Apr.2018)**

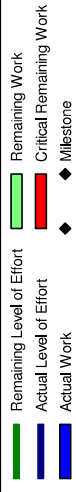
Activity ID	Activity Name	Rem Dur	Start	Finish	2018												
					18	25	04	11	18	25	01	08	15	22	29	06	13
<b>3MRP (Feb 2018 - May 2018)</b>																	
<b>10 - SECTION X OF THE WORKS</b>																	
<b>10.3 - Middle Bridge (Bridge F)</b>																	
<b>10.3.2 - Bridge Construction</b>																	
<b>Bridge F3B</b>																	
1032-2564	Divert 2 Lane Traffic (Stage 2)	0	25-Feb-18*														
<b>Bridge F1B2</b>																	
1032-3880	Bridge F1B2 - Construct Int. Double Noise Encl. Bridge F1B2	8	13-Jan-18 A	28-Feb-18													
1032-3900	Bridge F1B2 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	7	01-Mar-18	08-Mar-18													
<b>Bridge F1B1</b>																	
1032-1780	Bridge F1B1 - Construct Int. Double Noise Encl. Bridge F1B2	15	16-Jan-18 A	08-Mar-18													
1032-1800	Bridge F1B1 - Bridge F1C Deck Road Waterproofing, Surfacing & Marking	7	09-Mar-18	16-Mar-18													
<b>Bridge F5</b>																	
1032-4040	Cutting of Deck Between Temp. TD & E/B > Pier F5-F8	12	26-Feb-18	10-Mar-18													
1032-4060	Cutting of Deck Between Temp. TD & E/B > Pier F8-F11	12	12-Mar-18	24-Mar-18													
1032-4080	Cutting of Deck Between Temp. TD & E/B > Pier F11-F14	12	26-Mar-18	11-Apr-18													
1032-4100	Construction Parapet (Northside) > Pier F5-F8	12	05-Mar-18	17-Mar-18													
1032-4120	Construction Parapet (Northside) > Pier F8-F11	12	19-Mar-18	03-Apr-18													
1032-4140	Construction Parapet (Northside) > Pier F11-F14	12	04-Apr-18	18-Apr-18													
1032-4160	Construct Noise Enclosure (Northside) > Pier F5 - F8	24	19-Mar-18	18-Apr-18													
1032-4180	Reinstate Deck Pier F8 - F14 (Northside) > Surfacing & Marking	5	19-Apr-18	24-Apr-18													
1032-4200	Reinstate Deck Pier F5 - F8 (Northside) > Surfacing & Marking	5	25-Apr-18	30-Apr-18													
<b>All Middle Bridge F (Common)</b>																	
1032-4240	Fresh Water Main 150D] at Bridge F Deck	39	27-Nov-17 A	09-Apr-18													
1032-4260	Bridge F Sign Gantries and Misc. Mounting Structure/Support	2	26-Dec-17 A	21-Feb-18*													
1032-4356	Sign Gantry (DS06B,DS06A & FADS06) (Nigth work)	50	22-Feb-18	24-Apr-18													
<b>10.5 - Temporary Bridge</b>																	
<b>10.5.3 - Temporary Bridge TD</b>																	
1053-1140	Demolition of Temporary Bridge TD* at VI	32	19-Mar-18	27-Apr-18													
<b>10.6 - Tunnel Approach Ramp</b>																	
<b>10.6.1 - Approach Ramp (Excluding Portion IB)</b>																	
<b>Retaining Walls &amp; Trough Structure B,C &amp; D</b>																	
1061-6860	Construct Retaining Wall E Pile Cap (7 nos)	45	06-Mar-17 A	16-Apr-18													
1061-6900	Construct Retaining Wall E1 (Ch 5332 - 5371)	18	17-Apr-18	08-May-18													
1061-6989	Parapet at Wall above Retaining Wall E2	14	12-Mar-18	27-Mar-18													
1061-6990	Parapet at Wall above Retaining Wall E1	18	09-May-18	29-May-18													
1061-7020	Faleworks System for Landscape Deck	18	29-Jan-18 A	12-Mar-18													
1061-7040	Excavate for Foundation of Retain Wall D	7	13-Mar-18	20-Mar-18													
1061-7060	Construct Retaining Wall D Footing (Ch 190 - 170)	18	21-Mar-18	13-Apr-18													

■ 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.Feb.2018 to 19.May.2018)**



Activity ID	Activity Name	Rem Dur	Start	Finish	2018																			
					18	25	04	11	18	25	01	08	15	22	29	05	13	20	27					
A1530	Backfilling	3	28-Feb-18	02-Mar-18																				
<b>Wall - Upper Portion</b>																								
A1540	Remove S1 and S2 Strut + Waling	2	03-Mar-18	05-Mar-18																				
A1550	Erect Working Platform and Rebar Fixing	2	06-Mar-18	07-Mar-18																				
A1560	Erect and Formwork	3	08-Mar-18	10-Mar-18																				
A1570	Concreting	1	12-Mar-18	12-Mar-18																				
A1580	Vertical Water Proofing	1	13-Mar-18	13-Mar-18																				
<b>Bay 4</b>																								
<b>Wall - Lower Portion</b>																								
A1660	Erect and Formwork	3	12-Feb-18 A	24-Feb-18																				
A1670	Concreting	1	26-Feb-18	26-Feb-18																				
A1680	Vertical Water Proofing	1	27-Feb-18	27-Feb-18																				
A1690	Backfilling	3	28-Feb-18	02-Mar-18																				
<b>Wall - Upper Portion</b>																								
A1710	Remove S1 and S2 Strut + Waling	2	03-Mar-18	05-Mar-18																				
A1720	Erect Working Platform and Rebar Fixing	2	06-Mar-18	07-Mar-18																				
A1730	Erect and Formwork	3	08-Mar-18	10-Mar-18																				
A1740	Concreting	1	12-Mar-18	12-Mar-18																				
A1750	Vertical Water Proofing	1	13-Mar-18	13-Mar-18																				
<b>Bay 5</b>																								
<b>Wall - Lower Portion</b>																								
A1810	Remove S3 and S4 Strut + Waling	2	20-Feb-18	21-Feb-18																				
A1820	Erect Working Platform and Rebar Fixing	2	22-Feb-18	23-Feb-18																				
A1830	Erect and Formwork	3	24-Feb-18	27-Feb-18																				
A1840	Concreting	1	28-Feb-18	28-Feb-18																				
A1850	Vertical Water Proofing	1	01-Mar-18	01-Mar-18																				
A1860	Backfilling	3	02-Mar-18	05-Mar-18																				
<b>Wall - Upper Portion</b>																								
A1870	Remove S1 and S2 Strut + Waling	3	06-Mar-18	08-Mar-18																				
A1880	Erect Working Platform and Rebar Fixing	2	09-Mar-18	10-Mar-18																				
A1890	Erect and Formwork	3	12-Mar-18	14-Mar-18																				
A1900	Concreting	1	15-Mar-18	15-Mar-18																				
A1910	Vertical Water Proofing	1	16-Mar-18	16-Mar-18																				
<b>Landscape Deck</b>																								
1062-1240	Construct LD Column - Portion IIB (10nos)	36	28-Feb-18	13-Apr-18																				
1062-1260	Construct Landscape Deck Beam/Slab Bay C1 & C2	45	14-Mar-18	09-May-18																				
1062-1280	Construct Noise Panel Trough A (within Portion IIB)	30	20-Apr-18	25-May-18																				



**Contract HY/2009/19  
Three Months Rolling Programme (20.Feb.2018 to 19.May.2018)**

Activity ID	Activity Name	Original Duration	Start	Finish	2017	2018
<b>Total</b>					Oct	Dec
		112d	30-Jul-17A	08-Feb-18		2018 Jan
		112d	30-Jul-17A	08-Feb-18		
		112d	30-Jul-17A	08-Feb-18		
		60d	30-Jul-17A	21-Dec-17		
		9d	23-Oct-17	02-Nov-17		
		6d	20-Oct-17A	30-Oct-17		
		7d	20-Oct-17A	27-Oct-17		
		1d	30-Oct-17	30-Oct-17		
		27d	15-Sep-17A	19-Oct-17A		
		28d	15-Sep-17A	19-Oct-17A		
		1d	26-Sep-17A	26-Sep-17A		
		51d	23-Oct-17	21-Dec-17		
		10d	30-Oct-17	15-Nov-17		
		10d	30-Oct-17	09-Nov-17		
		10d	07-Nov-17	17-Nov-17		
		15d	07-Nov-17	23-Nov-17		
		15d	18-Nov-17	05-Dec-17		
		14d	06-Dec-17	21-Dec-17		
		60d	30-Jul-17A	23-Nov-17		
		60d	30-Jul-17A	03-Oct-17A		
		20d	20-Oct-17A	11-Nov-17		
		14d	30-Oct-17	14-Nov-17		
		7d	30-Oct-17	06-Nov-17		
		15d	07-Nov-17	23-Nov-17		
		5d	13-Nov-17	17-Nov-17		
		62d	15-Aug-17A	05-Dec-17		
		20d	19-Sep-17A	13-Oct-17A		
		5d	14-Oct-17A	19-Oct-17A		
		20d	16-Oct-17A	08-Nov-17		
		1d	20-Oct-17A	20-Oct-17A		
		25d	20-Oct-17A	18-Nov-17		
		20d	20-Oct-17A	13-Nov-17		
		7d	20-Oct-17A	27-Oct-17		
		5d	25-Oct-17	31-Oct-17		
		15d	25-Oct-17	11-Nov-17		
		30d	01-Nov-17	05-Dec-17		
		8d	14-Nov-17	22-Nov-17		
		60d	15-Aug-17A	04-Nov-17		
		60d	15-Aug-17A	04-Nov-17		
		10d	24-Oct-17	04-Nov-17		
		84d	15-Sep-17A	14-Jan-18		
		40d	15-Sep-17A	03-Nov-17		

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

Page 1 of 4  
**Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel + (Slip Road 8 Section) - 3 Months Rolling Programme**

█ Actual Work  
█ Remaining Work  
█ Critical Remaining Work  
◆ Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	2017		2018	
					Oct	Nov	Dec	Jan
EXW_2000	Connection of E&M and TCSS ducts in zone 3	10d	25-Sep-17 A	07-Oct-17 A				
EXW_1980	Demolition of old DS17 footing	7d	21-Oct-17 A	30-Oct-17				
<b>Traffic Island</b>								
EXW_2010	SCP4 substructure (footing and mass concrete) construction by LIV	84d	21-Oct-17 A	14-Jan-18				
EXW_2030	TTM commencement for Traffic Island	7d	21-Oct-17 A	30-Oct-17				
EXW_2040	Reconstruction of new DS17 footing	14d	01-Nov-17	16-Nov-17				
EXW_2050	Directional sign DS17 steel frame	7d	17-Nov-17	24-Nov-17				
EXW_2060	New VM56 steel frame	7d	25-Nov-17	02-Dec-17				
EXW_2070	TCSS and lighting at island	7d	04-Dec-17	11-Dec-17				
EXW_2080	JTIS (3 nos. footings, 1 no. concrete plinth)	14d	12-Dec-17	29-Dec-17				
EXW_2090	Storm drainage and gully at island	12d	30-Dec-17	13-Jan-18				
EXW_2100	Kerb for island	6d	30-Dec-17	06-Jan-18				
EXW_2110	Pavement works of carriageway	6d	08-Jan-18	13-Jan-18				
EXW_2120	Allocation of traffic island area to LIV for SCP4 superstructure construction	1d	14-Jan-18	14-Jan-18				
<b>Nursery Compound</b>								
EXW_2140	Metal works and cat ladder works	74d	23-Sep-17 A	20-Jan-18				
EXW_2150	Fire services (procurement and installation)	10d	23-Sep-17 A	06-Oct-17 A				
EXW_2160	Floor waterproofing	60d	23-Sep-17 A	05-Dec-17				
EXW_2170	Procurement, plumbing and sanitary services	10d	23-Sep-17 A	06-Oct-17 A				
EXW_2180	Electricity connection works and lighting	45d	23-Sep-17 A	17-Nov-17				
EXW_2190	Confirmation of possible tree fall of the three retained trees T267, T268, T269 by VPMO and LCS	30d	23-Sep-17 A	31-Oct-17				
EXW_2200	Waterworks (FS Fresh and Salt Water, Fresh Water) and Irrigation System	74d	06-Oct-17 A	20-Jan-18				
EXW_2210	Drainage works	15d	06-Oct-17 A	06-Oct-17 A				
EXW_2230	Addition swan neck fire hydrant to be constructed for nursery compound	15d	07-Oct-17 A	24-Oct-17				
EXW_2220	Reinstatement of existing boundary fence wall around nursery compound	15d	25-Oct-17	11-Nov-17				
EXW_2240	EVA	44d	13-Nov-17	05-Jan-18				
<b>Zone 4 up to Elderly Facilities</b>								
<b>Elderly Facilities V039 Received on 22 Jun 2017</b>								
EXW_2260	Confirmation with LCS	90d	30-Aug-17 A	08-Feb-18				
EXW_2270	Facilities fabrication	87d	18-Sep-17 A	05-Feb-18				
EXW_2280	Ground leveling, drainage works and safety net installation	30d	18-Sep-17 A	24-Oct-17				
EXW_2290	Subletting	59d	25-Oct-17	05-Jan-18				
EXW_2300	Arbour confirmation and fabrication	26d	06-Jan-18	05-Feb-18				
EXW_2310	Associated drainage works for the walkway	60d	30-Aug-17 A	06-Feb-18				
EXW_2320	Arbour installation and walkway construction	60d	06-Oct-17 A	15-Dec-17				
<b>SR8 Tunnel</b>								
<b>Zone A</b>								
EXW_2330	Construction of Additional 8 nos. of Draw Pits for Road Lighting	18d	16-Dec-17	09-Jan-18				
EXW_2390	Construction of drawpits and ductings	26d	10-Jan-18	08-Feb-18				
EXW_2440	Fabrication of precast concrete cover	30d	23-Aug-17 A	20-Oct-17 A				
EXW_2910	Installation of precast concrete cover	15d	08-Sep-17 A	25-Sep-17 A				
EXW_2910	Installation of precast concrete cover	30d	23-Aug-17 A	20-Oct-17 A				
EXW_2910	Installation of precast concrete cover	30d	23-Aug-17 A	26-Sep-17 A				
EXW_2910	Installation of precast concrete cover	20d	26-Sep-17 A	20-Oct-17 A				

Page 2 of 4

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

Date: 23-Oct-17

Revision: DWP-08 (1) - 3 Months Rolling

Checked: TL

Approved: TL

Actual Work: █

Remaining Work: █

Critical Remaining Work: █

Milestone: ◆

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

Activity ID	Activity Name	Original Duration	Start	Finish	2017		2018	
					Oct	Nov	Dec	Jan
<b>Zone B</b>								
<b>Pump Sump E</b>								
EXW_2480	Cat ladder installation (5 nos.)	20d	15-Sep-17 A	17-Nov-17				
EXW_2490	Cover installation (5 nos.)	10d	11-Oct-17 A	21-Oct-17 A				
<b>Pump Sump E Hand Rail</b>								
EXW_2530	Installation of handrail (agreed with CC contract)	7d	23-Oct-17 A	31-Oct-17				
<b>Egress Passage</b>								
EXW_2550	Railing installation (2 nos. - 10m)	15d	01-Nov-17	17-Nov-17				
<b>Installation of Precast Concrete Covers for Cable Trough</b>								
EXW_2570	Installation of precast concrete cover (agreed with CC contract)	15d	01-Nov-17	17-Nov-17				
<b>SR8 - C6 Stitching Structure Construction</b>								
EXW_2770	Base Slab Construction	7d	21-Sep-17 A	31-Oct-17				
EXW_2780	Shuffle the vehicular access	5d	21-Sep-17 A	26-Sep-17 A				
EXW_2780	Construction of 2nd portion base slab	7d	23-Oct-17	31-Oct-17				
<b>SR8 - Rotational Joint Installation</b>								
EXW_2840	Omega seal installation (by specialist's subcontractor Atlas)	21d	08-Sep-17 A	03-Oct-17 A				
EXW_2880	Tentative water recharge date in base slab C6 (Date of first vertical cut: 10/10/2017)	1d	10-Oct-17 A	10-Oct-17 A				
<b>Proprietary Cantilever Teeth Expansion Joint Installation for Base Slab (by Freyssinet)</b>								
EXW_2850	Procurement (2 months)	60d	30-Aug-17 A	13-Dec-17				
EXW_2860	Installation (TBC in coordination with bituminous works of LVJ)	14d	11-Nov-17	27-Nov-17				
EXW_2870	Steel protection	14d	28-Nov-17	13-Dec-17				
<b>Levelling of Base Slab (To be Agreed with LVJ)</b>								
EXW_2900	Levelling of Base Slab (To be agreed with LVJ)	15d	28-Nov-17	14-Dec-17				
<b>Marine Works</b>								
<b>SR8 -2-West (W4D8 to W4D11, W3D5 to W3D7)</b>								
MW_1160	Horizontal cut at Panel W4D8-W4D11, W3D5-W3D7 (28 nos.)	5d	20-Sep-17 A	24-Sep-17 A				
<b>Stage 1 - Footpath Diversion (West Side)</b>								
MW_1230	Stage 1-Diversion of Footpath (West Side)	1d	24-Sep-17 A	24-Sep-17 A				
MW_1240	Removal of temporary footpath	8d	01-Oct-17 A	08-Oct-17 A				
<b>Works above Zone C - Bay C6</b>								
MW_1250	Mobilization of backhoe	1d	01-Oct-17 A	16-Oct-17 A				
MW_1260	Backfill G400 rock for reinstatement of sloping seawall	5d	02-Oct-17 A	06-Oct-17 A				
MW_1280	Break and remove re-prop wal	6d	07-Oct-17 A	12-Oct-17 A				
MW_1290	Backfill G200 & G400 rock to final profile	4d	13-Oct-17 A	16-Oct-17 A				
<b>Removal of D-wall at Landing Step of Existing Vertical Seawall (W4D13, 14)</b>								
MW_1300	Temporary fill upto +0.00mPD for working platform	2d	17-Oct-17 A	18-Oct-17 A				
MW_1310	Break and remove D-wall W4D13 & 14 to +1.5mPD	8d	23-Oct-17	30-Oct-17				
MW_1320	Break and remove D-wall at Panel W4D13 sea side to -2.0mPD	4d	31-Oct-17	03-Nov-17				
MW_1330	Install bracket for D-wall cut hole	3d	04-Nov-17	06-Nov-17				
<b>Reinstatement of Vertical Seawall</b>								
MW_1340	Excavate the formation level at end of Panel W4D14	1d	04-Nov-17	04-Nov-17				
MW_1350	Erect formwork at end of Panel W4D14	2d	05-Nov-17	06-Nov-17				
MW_1360	Pour mass concrete at end of Panel W4D14	1d	07-Nov-17	07-Nov-17				
MW_1370	Remove formworks	1d	08-Nov-17	08-Nov-17				

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

Page 3 of 4

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

Actual Work  
Remaining Work  
Critical Remaining Work  
Milestone

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



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

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

Page 4 of 4

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

Actual Work

Remaining Work

Critical Remaining Work

Milestone

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

Activity ID	Activity Name	Original Duration	Start	Finish	2017			2018	
					Oct	Nov	Dec	Jan	
<b>Total</b>									
<b>3 Months Rolling Programme - 2017-09 (DWP-08, 1st submission)</b>									
<b>Removal of TSS South side</b>									
<b>South West (Zone A)</b>									
1	South West (Zone A)	306d	15-May-17 A	16-Mar-18					
2	Remove filled material to -4.35mPD (13,000m3)	306d	15-May-17 A	16-Mar-18					
3	Remove seawall blocks at Bay 24- 22 - 22 (400 nos.)	306d	15-May-17 A	16-Mar-18					
4	Remove seawall blocks at Bay 23 & 24 (120 nos.)	78d	17-May-17 A	16-Sep-17 A					
5	Core D-wall cut holes at Panel W2D5 to W2D8	66d	17-May-17 A	16-Sep-17 A					
6	Remove filled material to -7.0mPD up to Panel W2D8	13d	17-May-17 A	01-Jun-17 A					
7	Remove seawall blocks at Bay 23 & 24 (120 nos.)	6d	19-May-17 A	26-May-17 A					
8	Remove Outfall Q Sheet Piles Wall	6d	27-Jun-17 A	02-Jul-17 A					
9	Remove Outfall Q Sheet Piles Wall	7d	03-Jul-17 A	14-Jul-17 A					
10	Remove Outfall Q Sheet Piles Wall	2d	11-Aug-17 A	15-Aug-17 A					
11	Remove Outfall Q Sheet Piles Wall	14d	18-Aug-17 A	16-Sep-17 A					
12	Remove Outfall Q Sheet Piles Wall	15d	12-Jun-17 A	14-Jul-17 A					
13	Remove Outfall Q Sheet Piles Wall	8d	12-Jun-17 A	30-Jun-17 A					
14	Remove Outfall Q Sheet Piles Wall	9d	29-Jun-17 A	14-Jul-17 A					
15	Remove Outfall Q Sheet Piles Wall	18d	19-Jul-17 A	04-Aug-17 A					
16	Remove Outfall Q Sheet Piles Wall	9d	19-Jul-17 A	27-Jul-17 A					
17	Remove Outfall Q Sheet Piles Wall	9d	28-Jul-17 A	04-Aug-17 A					
<b>South West (Zone B)</b>									
18	Excavation to Expose Existing Landing Steps	34d	22-Jun-17 A	25-Jul-17 A					
19	Excavation to Expose Existing Intake of Windsor House	6d	22-Jun-17 A	27-Jun-17 A					
20	Clear Up for Inspection of Existing Intake of Windsor House	5d	28-Jun-17 A	02-Jul-17 A					
21	Remove Filled Material to -4.35mPD (11,000m3)	7d	03-Jul-17 A	09-Jul-17 A					
22	Remove Filled Material to -7.0mPD	18d	03-Jul-17 A	20-Jul-17 A					
23	Remove Filled Material to -7.0mPD	6d	18-Jul-17 A	23-Jul-17 A					
24	Core D-wall Cut Holes at Panel W2D10 to W4D3 (82 nos.)	2d	24-Jul-17 A	25-Jul-17 A					
<b>South East (Zone C)</b>									
25	South East (Zone C)	126d	24-May-17 A	24-Oct-17					
26	Break concrete slab	105d	24-May-17 A	24-Oct-17					
27	Remove filled material to -4.35mPD (7,000m3)	8d	24-May-17 A	25-May-17 A					
28	Remove seawall blocks at Bay 2 - Bay 4 (454 nos.)	2d	26-May-17 A	12-Jun-17 A					
29	Remove filled material to -7.0mPD	7d	13-Jun-17 A	19-Jun-17 A					
30	Remove filled material to -7.0mPD	35d	24-Jun-17 A	28-Jul-17 A					
31	Clean and Install String for Vertical Cutting	7d	24-Jun-17 A	30-Jun-17 A					
32	Vertical cut at Panel W2D32 to W2D35 (16 nos./1.5m)	1d	01-Jul-17 A	01-Jul-17 A					
33	Horizontal cut at Panel W2D32 to W2D35 (24 nos./1.5m)	7d	02-Jul-17 A	14-Jul-17 A					
34	Vertical cut at Panel W2D24 to W2D31 (16 nos./1.5m)	12d	17-Jul-17 A	28-Jul-17 A					
35	Horizontal cut at Panel W2D24 to W2D31 (24 nos./1.5m)	34d	15-Aug-17 A	06-Sep-17 A					
36	Vertical cut at Panel W2D24 to W2D31 (16 nos./1.5m)	10d	15-Aug-17 A	26-Aug-17 A					
37	Horizontal cut at Panel W2D24 to W2D31 (24 nos./1.5m)	8d	03-Sep-17 A	08-Sep-17 A					
38	Vertical cut at W4D7 to W4D11 + W3D5 to W3D7 (24 nos.)	75d	11-Aug-17 A	24-Oct-17					
39	Vertical cut at W3D2 to W3D4 (9 nos.)	12d	11-Aug-17 A	09-Oct-17					
40	Horizontal cut at W3D2 to W3D4 (12 nos.)	3d	28-Aug-17 A	05-Sep-17 A					
41	Horizontal cut at W4D7 to W4D11 + W3D5 to W3D7 (32 nos.)	3d	06-Sep-17 A	09-Sep-17 A					
42	Horizontal cut at W4D7 to W4D11 + W3D5 to W3D7 (32 nos.)	15d	10-Oct-17	24-Oct-17					
43	Horizontal cut at W4D7 to W4D11 + W3D5 to W3D7 (32 nos.)	306d	15-May-17 A	16-Mar-18					

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

Page 1 of 4

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

**Actual Work** (Blue bar)

**Remaining Work** (Green bar)

**Critical Remaining Work** (Red bar)

**Milestone** (Diamond)

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

Activity ID	Activity Name	Original Duration	Start	Finish	2017			2018	
					Oct	Nov	Dec	Jan	
<b>C6 Stitching Structure Construction</b>									
120	SF8 - C6 Stitching Structure Construction	188d	15-May-17 A	09-Nov-17					
<b>Roof slab construction</b>									
C61000	ICE design cert submission for Engineer's consent	209d	15-May-17 A	09-Nov-17					
C61010	Erection of falsework (Revised due to rainstorm and typhoon)	66d	15-May-17 A	19-Jul-17 A					
C61020	Formwork erection and diaphragm wall C.J. and couplers preparation (coating if required)	9d	15-May-17 A	24-May-17 A					
C61030	Formwork erection and diaphragm wall C.J. and couplers preparation (coating if required)	22d	26-May-17 A	20-Jun-17 A					
C61040	Steel fixing for roof slab	5d	21-Jun-17 A	25-Jun-17 A					
C61050	Final cleaning and concreting	8d	26-Jun-17 A	05-Jul-17 A					
	Falsework and formwork removal	1d	06-Jul-17 A	06-Jul-17 A					
		6d	17-Jul-17 A	19-Jul-17 A					
<b>OHVD construction</b>									
C61100	Falsework modification	24d	20-Jul-17 A	11-Aug-17 A					
C61110	OHVD slab construction (box out will be formed in R.J. location)	8d	20-Jul-17 A	27-Jul-17 A					
C61120	OHVD kicker wall construction	8d	28-Jul-17 A	04-Aug-17 A					
		8d	05-Aug-17 A	11-Aug-17 A					
<b>Base slab construction</b>									
200	Base slab construction	27d	28-Aug-17 A	17-Sep-17 A					
C61060	Shuffle the vehicular access	5d	28-Aug-17 A	01-Sep-17 A					
C61070	Construction of 1st portion base slab	7d	02-Sep-17 A	08-Sep-17 A					
C61080	Shuffle the vehicular access	5d	09-Sep-17 A	13-Sep-17 A					
C61090	Construction of 2nd portion base slab	7d	14-Sep-17 A	17-Sep-17 A					
<b>SF8 - Rotational Joint Installation</b>									
150d	Procurement (5 months)	150d	22-Jun-17 A	09-Nov-17					
A62190	1st part	5d	02-Oct-17	06-Oct-17					
A62200	2nd part	5d	07-Oct-17	11-Oct-17					
A62210	3rd part	5d	12-Oct-17	16-Oct-17					
<b>Proprietary Cantilever Teeth Expansion Joint Installation for Base Slab</b>									
A62220	Procurement (5 months)	150d	22-Jun-17 A	09-Nov-17					
A62230	Installation	14d	27-Oct-17	09-Nov-17					
<b>Phase I - Reinstatement of Section of Sloping Seawall above Zone C Bay C6</b>									
<b>Backfill Rubble Mount, Installation of Granite Stone Facing by Land Team</b>									
91d	Section of Sloping Seawall above Bay C6 Reinstatement	236d	24-Jul-17 A	16-Mar-18					
91d	Section of Sloping Seawall above Bay C6 Reinstatement	91d	24-Jul-17 A	22-Oct-17					
A61050	Dismantle Reprop Wall Partially (Above Slope Sea Wall)	5d	24-Jul-17 A	07-Oct-17					
A61040	Backfilling of Rubble Mound (Grade 200 Rock)	7d	27-Sep-17 A	28-Sep-17 A					
A61060	Cast Kerbing Concrete	3d	08-Oct-17	10-Oct-17					
A61070	Make good rubble mound and shotcreting	5d	11-Oct-17	15-Oct-17					
A61080	Installation of Granite Stone Facing	7d	16-Oct-17	22-Oct-17					
<b>Removal of Remaining Pipe Pile Wall, Sheet Pile Wall &amp; D-wall by Marine Team</b>									
260	Removal of Remaining Pipe Pile Wall, Sheet Pile Wall & D-wall	145d	22-Oct-17	16-Mar-18					
A61100	Cut pipe pile wall at A1 - A14 (After A61090 & 25A)	145d	22-Oct-17	16-Mar-18					
A61110	Under water cut sheet pile wall (5 nos.)	6d	09-Dec-17	23-Dec-17					
A61130	Remove filled material to -4.35mPD (6,000m3)	10d	30-Dec-17	29-Dec-17					
A61140	Remove seawall blocks at Bay 1 & 2 (356nos.)	8d	09-Jan-18	16-Jan-18					
A61150	Remove filled material below cut off level 1m	5d	17-Jan-18	21-Jan-18					
A61200	Vertical cut at Panel W4D12, 15, 16 & 17 (12nos./1.5m)	4d	22-Jan-18	25-Jan-18					
A61210	Horizontal cut at W4D12, 15, 16 & 17 (16 nos./1.5m)	5d	26-Jan-18	30-Jan-18					

**Actual Work** (Blue bar)

**Remaining Work** (Green bar)

**Critical Remaining Work** (Red bar)

**Milestone** (Diamond)

Page 2 of 4

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

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

Activity ID	Activity Name	Original Duration	Start	Finish	2017			2018				
					Oct	Nov	Dec	Jan	Feb	Mar		
A6160	Vertical cut at W309 to W3D10 (9 nos.)	3d	26-Jan-18	28-Jan-18								
A6170	Horizontal cut at W328 to W3D10 (12 nos.)	9d	31-Jan-18	08-Feb-18								
<b>Phase II Seawall Reinstatement</b>												
36	Phase II Seawall Reinstatement	36d	30-Nov-17	07-Jan-18								
37	Along existing vertical seawall	12d	30-Nov-17	12-Dec-17								
38	Vertical cut at Panel W4D13 to 14 (8 nos./1.5m)	8d	01-Dec-17	08-Dec-17								
39	Horizontal cut at W4D13 to 14 (8 nos./1.5m)	4d	09-Dec-17	12-Dec-17								
<b>Reinstatement of Vertical Seawall</b>												
40	Reinstatement of Vertical Seawall	26d	13-Dec-17	07-Jan-18								
41	Drill hole and install dowel bar at existing vertical seawall	7d	13-Dec-17	19-Dec-17								
42	Erect steel plate for external formwork of seawall (diver works)	7d	20-Dec-17	26-Dec-17								
43	Pour tremie concrete for reinstatement of existing seawall (diver works)	2d	27-Dec-17	28-Dec-17								
44	Remove steel formworks (diver works)	2d	29-Dec-17	30-Dec-17								
45	Reinstatement granite facing stone at vertical seawall	4d	31-Dec-17	03-Jan-18								
46	Erect formwork for seawall coping	2d	04-Jan-18	05-Jan-18								
47	Pour concrete for seawall coping	1d	06-Jan-18	06-Jan-18								
48	Remove formwork at seawall coping	1d	07-Jan-18	07-Jan-18								
<b>TTA Revert Traffic Back to Original Alignment</b>												
<b>East Bound TTA - IEC East Bound, Victoria Park Road &amp; footpath along Sea Side</b>												
<b>Stage 1 - IEC (East Bound)</b>												
<b>Reinstatement Existing Structure</b>												
A10760	Reinstatement of Type 2 Wing Wall (20m) and Type 3 Parapet (10m)	21d	11-Jul-17 A	07-Oct-17								
A10900	Install metal parapet on parapet wall (30m)	6d	02-Oct-17	07-Oct-17								
<b>Stage 2 - Victoria Park Road</b>												
A10930	Break flexible pavement and concrete slab above EB traffic deck	2d	01-Sep-17 A	19-Nov-17								
A10920	Remove flexible pavement and then break temp light weight concrete ramp (60m)	14d	08-Sep-17 A	06-Sep-17 A								
A10940	Construct parapet wall Type R3 (1.5m) and Type R2 (25m) on extg bridge	23d	09-Sep-17 A	28-Oct-17								
A10970	Dismantle traffic deck (360m2) and cut king posts (4 nos.)	5d	15-Sep-17 A	20-Sep-17 A								
A10950	Backfill Type B Material up to 2m below F.L.(Ave. 2.6m High, 13 Layer@0.2m each layer)	6d	21-Sep-17 A	23-Sep-17 A								
A10960	Break two concrete footings for temp traffic deck	6d	26-Sep-17 A	01-Oct-17 A								
A10980	Break pipe piles (28 nos.) and cut sheet pile (60 piece)	14d	26-Sep-17 A	09-Oct-17								
A10980	Backfill General Fill Material up to Formation Level (Ave. 1.5m High, 5 Layer@ 0.3m each Layer)	9d	28-Sep-17 A	11-Oct-17								
A10990	Construct 450/300 stormwater pipe (20m/35m) with 2 Manholes and 1 gully	8d	12-Oct-17	19-Oct-17								
A10000	Remove the temp uPVC divided pipe (45m) and two Manholes	3d	20-Oct-17	22-Oct-17								
A10920	Install metal parapet on parapet wall (40m)	6d	22-Oct-17	27-Oct-17								
A11010	Reinstale the road kerb along YPR (100m)	5d	23-Oct-17	27-Oct-17								
A11020	Wall compact formation level and subbase for SRT	8d	28-Oct-17	04-Nov-17								
A11030	Lay flexible road pavement (RB, BC)	3d	05-Nov-17	07-Nov-17								
A11040	Expose and Install Manhole Covers	2d	08-Nov-17	09-Nov-17								
A11050	Lay flexible road pavement (WC)	2d	10-Nov-17	11-Nov-17								
A11060	Lay road marking and erect permanent traffic signs	2d	12-Nov-17	13-Nov-17								
A11070	Implement next TTM stage 3 (VPR footpath, EB)	1d	19-Nov-17	19-Nov-17								
<b>Stage 3 - Reinstatement of Footpath along Sea Side</b>												

**Actual Work** (Blue bar)

**Remaining Work** (Green bar)

**Critical Remaining Work** (Red bar)

**Milestone** (Diamond)

Page 3 of 4

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

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

Activity ID	Activity Name	Original Duration	Start	Finish	2017			2018			
					Oct	Nov	Dec	Jan	Feb	Mar	
<b>Phase 1</b>											
A11240	Temporary Pedestrian Diversion	38d	20-Nov-17	27-Dec-17							
A11250	Break flexible pavement and concrete slab above EB traffic deck (Partially)	4d	20-Nov-17	23-Nov-17							
A11310	Temporary Relocate telecom ducts	3d	24-Nov-17	26-Nov-17							
A11260	Dismantle traffic deck (Partially) and Cut king posts	7d	24-Nov-17	30-Nov-17							
A11270	Break two concrete footings	5d	27-Nov-17	01-Dec-17							
A11280	Cut pipe piles and sheet pile	7d	02-Dec-17	08-Dec-17							
A11290	Backfill Type B Material up to 2m below F.L. (Compaction by proof rolling method of 0.2m each layer)	10d	02-Dec-17	11-Dec-17							
A11300	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	10d	18-Dec-17	27-Dec-17							
<b>Phase 2 - Sloping Sewer Reinstatement</b>											
A11320	Backfill and make good rubble mound profile	32d	01-Dec-17	01-Jan-18							
A11330	Install hand pack rubble	7d	01-Dec-17	07-Dec-17							
A11340	Erect formwork for toe berm	6d	08-Dec-17	13-Dec-17							
A11350	Concreting for toe berm	3d	14-Dec-17	16-Dec-17							
A11360	Trim the rubble mound profile	2d	17-Dec-17	18-Dec-17							
A11370	Shotcreting on the rubble mound	4d	19-Dec-17	22-Dec-17							
A11380	Erect formwork for intermediate berms	2d	23-Dec-17	24-Dec-17							
A11390	Concreting for intermediate berms	7d	25-Dec-17	31-Dec-17							
<b>West Bound - IEC West Bound &amp; Tising Fung Street</b>											
<b>Stage 2 - Tising Fung Street</b>											
A11140	Remove flexible pavement and then break temp light weight concrete ramp (60m)	15d	07-Aug-17 A	03-Jan-18							
A11150	Construct parapet wall Type R2 (18m) and Type R1 (42m) on existing bridge	118d	07-Aug-17 A	03-Dec-17							
A11090	Dismantle traffic deck (300m2) and cut king posts (4 nos.)	10d	07-Aug-17 A	09-Oct-17							
A11100	Backfill Type B Material up to 2m below F.L. (Ave. 2.6m High, 13 Layer@0.2m each Layer)	42d	11-Sep-17 A	20-Nov-17							
A11110	Backfill General Fill Material up to Formation Level (Ave. 1.5m High, 5 Layer@0.3m each Layer)	5d	20-Sep-17 A	28-Sep-17 A							
A11120	Break pipe piles (28 nos.) and cut sheet pile (60 piece)	6d	27-Sep-17 A	28-Sep-17 A							
A11130	Break two concrete footings for temp traffic deck	15d	29-Sep-17 A	04-Oct-17							
A11170	Relay new 400 diameter PE pipe under slow lane of TFS by HKCG (4+21)	10d	01-Oct-17 A	30-Sep-17 A							
A11180	Lay cross road duct for permanent lighting	6d	01-Oct-17	31-Oct-17							
A11190	Reinstale the Road Kerb along TFS (100m)	25d	07-Oct-17	03-Nov-17							
A11200	Wall compact formation level and subbase for SRT	3d	01-Nov-17	03-Nov-17							
A11210	Lay flexible road pavement (RB, BC, WC)	6d	04-Nov-17	09-Nov-17							
A11160	Install metal parapet on parapet wall (60m)	8d	10-Nov-17	17-Nov-17							
A11220	Lay road marking and erect permanent traffic signs	7d	18-Nov-17	24-Nov-17							
A11230	Final cleaning for implement next TTM stage 3 (Victoria Park, WB)	6d	21-Nov-17	26-Nov-17							
<b>Stage 3A - Removal of Temporary Traffic Deck on Diverted Tising Fung Street &amp; Reinstatement Works</b>											
A11690	Break flexible pavement and concrete slab above traffic deck	1d	03-Dec-17	03-Dec-17							
A11700	Dismantle traffic deck and Cut king posts	31d	04-Dec-17	03-Jan-18							
A11720	Break two concrete footings	3d	04-Dec-17	06-Dec-17							
A11730	Cut pipe piles and sheet pile	5d	07-Dec-17	11-Dec-17							
A11740	Backfill Type B Material up to 2m below F.L. (Compaction by proof rolling method of 0.2m each layer)	7d	12-Dec-17	18-Dec-17							
A11750	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	7d	12-Dec-17	18-Dec-17							
A11760	Backfill Type B Material up to 2m below F.L. (Compaction by proof rolling method of 0.2m each layer)	6d	19-Dec-17	24-Dec-17							
A11770	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	10d	25-Dec-17	03-Jan-18							

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02-Oct-17 08:...	DWP-08 (1) - 3 Months Rolling	TL	TL

Page 4 of 4  
**Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel + (Slip Road 8 Section) - 3 Months Rolling Programme**

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

Activity ID	Activity Name	Original Duration	Start	Finish	2017	2018	2019
<b>Total</b>		148d	07-Sep-17 A	02-Mar-18			
<b>IEC Reinstatement Programme - REV-JL-01(CW Version) - Major - Minor Layout</b>							
<b>Major Works for Substantial Completion of KD9 - Section 5b of Works</b>							
<b>East Bound - Victoria Park Road</b>							
<b>TTM Stage 2 - Revert Traffic back to Original Victoria Road</b>							
A1060	Removal of Pipe Pile Wall, D Wall and Sheet Pile Wall (Marine Team)	79d	07-Sep-17 A	09-Feb-18			
A1070	Removal of Pipe Pile Wall, D Wall and Sheet Pile Wall (Marine Team)	39d	25-Oct-17 A	23-Dec-17			
A1070	Installation of temp directional sign mounted on extg footbridge	1d	23-Dec-17	23-Dec-17			
<b>Existing Bridge Parapet Reinstatement</b>							
A1080	Construct parapet wall Type R3 (15m) and Type R2 (25m) on existing bridge	27d	07-Sep-17 A	10-Oct-17 A			
A1090	Install metal parapet on parapet wall (40m)	4d	13-Dec-17	16-Dec-17			
<b>Removal of Light Weight Concrete Ramp</b>							
A1100	Erect bamboo scaffold with protection net	4d	03-Oct-17 A	07-Oct-17 A			
A1110	Remove temporary metal barrier on temporary road	4d	03-Oct-17 A	07-Oct-17 A			
A1120	Remove flexible pavement and then break temp light weight concrete ramp (60m)	12d	03-Oct-17 A	23-Oct-17 A			
<b>Reinstatement Works after Removal of Light Weight Concrete Ramp</b>							
A1130	Temporary diversions of Victoria Park Road after removing of light weight concrete ramp	2d	16-Oct-17 A	24-Oct-17 A			
A1140	Break up temporary asphalt pavement and cut hearding	2d	18-Oct-17 A	19-Oct-17 A			
A1150	Construct min. 1.5m width pedestrian footpath with concrete ramp	4d	20-Oct-17 A	23-Oct-17 A			
A1160	Pedestrian Diversion of Victoria Park Road Footpath (Stage 2)	1d	24-Oct-17 A	24-Oct-17 A			
<b>Reinstatement Works within Traffic Deck</b>							
A1220	Break pipe piles and cut sheet pile	14d	24-Sep-17 A	09-Oct-17 A			
A1240	Dismantle 1.5m high metal barrier	2d	03-Oct-17 A	04-Oct-17 A			
A1250	Break two concrete footings for temp traffic deck	2d	06-Oct-17 A	07-Oct-17 A			
<b>Drainage Works</b>							
A1190	Construct DN450 and DN375 stormwater pipe with 2 manholes (including removal of existing 450 concrete pipe)	46d	03-Oct-17 A	30-Nov-17			
A1170	Remove the temp uPVC divided pipe (45m) and two Manholes	2d	08-Oct-17 A	09-Oct-17 A			
A1180	Extend 2x225 concrete pipe with conc surround to new manhole SMH7008490 (including of water jet before extension pipes)	5d	05-Nov-17	09-Nov-17			
A2010	Excavate common trench and erect shoring for DN300 pipe, manholes and 400 PE pipe (including of removal extg PE pipe)	6d	07-Nov-17	12-Nov-17			
A1185	CCTV survey of 2 existing DN225 pipeline (with water jet and within site area)	1d	10-Nov-17	10-Nov-17			
A2370	Construct DN300 stormwater pipe with 2 Manholes	4d	27-Nov-17	30-Nov-17			
<b>Reinstatement of Existing Gas Main</b>							
A1280	Laying and connection of DN400mm gas main by HKCG	22d	13-Nov-17 A	26-Nov-17			
A1270	Excavation for DN400mm Gas main outside TTA works area (night work and apply CNP)	14d	13-Nov-17	26-Nov-17			
<b>Reinstatement Works of Carriageway Pavement for Stage 3 TTA</b>							
A1290	Backfilling common trench and then construct 5 gullies with DN150mm UPVC gully Pipes	16d	01-Dec-17	17-Dec-17			
A1295	Lay cross road duct from drawpit A to VPR footpath	2d	05-Dec-17	06-Dec-17			
A1300	Reinstale the road kerb along VPR (70m)	4d	07-Dec-17	10-Dec-17			
A1310	Wall compact formation level and subbase by proof rolling method (instead of SRT)	2d	11-Dec-17	12-Dec-17			
A1320	Lay flexible road pavement (RB, BC)	3d	13-Dec-17	15-Dec-17			
A1330	Expose and Install Manhole Covers	1d	15-Dec-17	15-Dec-17			
A1340	Lay flexible road pavement (PMSMA 10)	1d	16-Dec-17	16-Dec-17			
A1350	Implement next TTM stage 3 (VPR EB) with road marking	1d	17-Dec-17	17-Dec-17			
<b>TTM Stage 3 - Reinstatement of Footpath along Seafrost</b>							
		55d	17-Dec-17	09-Feb-18			

Page 1 of 3

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

Date: 23-Oct-17

Revision: DWP-08 (1) - 3 Months Rolling

Checked: TL

Approved: TL

Actual Work

Remaining Work

Critical Remaining Work

Milestone



Activity ID	Activity Name	Original Duration	Start	Finish	2017	2018
A1370	Temporary Diversion of Victoria Park Road Footpath (Stage 3)	3d	17-Dec-17	19-Dec-17	Dec	Jan
<b>Reinstatement Works in Traffic Deck Part A</b>						
A1380	Break flexible pavement and concrete slab above EB traffic deck (Partially)	21d	20-Dec-17	09-Jan-18		
A1390	Temporary Recrete telecom ducts and water main	3d	20-Dec-17	22-Dec-17		
A1400	Temporary Recrete telecom ducts and water main	5d	20-Dec-17	24-Dec-17		
A1410	Dismantle traffic deck (Partially) and Cut king posts	3d	23-Dec-17	25-Dec-17		
A1410	Backfill Type B Material up to 2m below F.F.L (Compaction by proof rolling method of 0.2m each layer)	3d	26-Dec-17	28-Dec-17		
A1420	Break pipe piles and cut sheet pile	6d	29-Dec-17	03-Jan-18		
A1430	Backfill Subbase material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	3d	04-Jan-18	06-Jan-18		
A1440	Break two concrete footings	2d	08-Jan-18	09-Jan-18		
<b>Reinstatement of Existing Gas Main</b>						
A1450	Excavation for DN400mm Gas main	17d	10-Jan-18	26-Jan-18		
A1460	Laying DN400mm gas main by HKCG at VPR footpath	3d	10-Jan-18	12-Jan-18		
<b>Reinstatement of Existing Utilities at Existing Footpath</b>						
A1470	Lower 12KV and 132 KV cables	14d	27-Jan-18	09-Feb-18		
A1480	Lay HGC, PCOV, Whart T&T and NWT telecom ducts and construct drawpits	3d	27-Jan-18	30-Jan-18		
A1500	Reinstate permanent water main	10d	31-Jan-18	09-Feb-18		
<b>West Bound - Tsing Fung Street &amp; Victoria Park</b>						
<b>TTM Stage 2 - Revert Traffic back to Original Tsing Fung Street</b>						
A1850	Reinstatement Works for Traffic Diversion back to Original Tsing Fung Street	65d	16-Sep-17 A	10-Dec-17		
<b>Existing Bridge Parapet Reinstatement</b>						
A1800	Construct parapet wall Type R2 (60m) on existing bridge	4d	05-Nov-17	08-Nov-17		
A1810	Install metal parapet on parapet wall (60m)	23d	16-Sep-17 A	10-Oct-17 A		
A1820	Erect bamboo scaffold with protection net	5d	29-Nov-17	03-Dec-17		
<b>Removal of Light Weight Concrete Ramp</b>						
A1830	Remove temporary metal barrier on temporary road	19d	08-Oct-17 A	11-Nov-17		
A1840	Remove flexible pavement and then break temp light weight concrete ramp (60m)	4d	08-Oct-17 A	11-Nov-17 A		
<b>Reinstatement Works within Traffic Deck</b>						
A1880	Dismantle traffic deck (300m2) and cut king posts (4 nos.)	50d	20-Sep-17 A	07-Nov-17		
A1900	Backfill Type B Material up to 2m below F.F.L (Avg. 2.6m height, by proof rolling method of 0.2m each layer, 13 layers)	23d	20-Sep-17 A	14-Oct-17 A		
A1910	Break pipe piles (20 nos.) and cut sheet pile (60 piece)	18d	27-Sep-17 A	16-Oct-17 A		
A1920	Backfill subbase material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	4d	17-Oct-17 A	20-Oct-17 A		
A1930	Dismantle 1.5m high metal barrier	3d	21-Oct-17 A	23-Oct-17 A		
A1940	Break two concrete footings for temp traffic deck	2d	24-Oct-17 A	25-Oct-17 A		
<b>Drainage Works</b>						
A1960	Backfilling trench and then construct 1 manhole and 2 gullies with DN150mm UPVC gully Pipes	4d	23-Nov-17	26-Nov-17		
A1990	CCTV survey of existing main pipeline (with water jet and within site area)	3d	26-Nov-17	28-Nov-17		
<b>Reinstatement of Existing Gas Main</b>						
A1970	Excavation for DN400mm Gas main	15d	08-Nov-17	22-Nov-17		
A1980	Laying and connection of DN400mm gas main by HKCG (inside site area)	10d	08-Nov-17	17-Nov-17		
A2000	Removal of extg. 400 diameter PE pipe	7d	13-Nov-17	19-Nov-17		
<b>Reinstatement Works of Carriageway Pavement for Stage 3 TTA</b>						
A2020	Well compact formation level and subbase by proof rolling method (instead of SRT)	14d	26-Nov-17	10-Dec-17		
A2030	Lay cross road duct for permanent lighting	3d	26-Nov-17	28-Nov-17		
A2040	Reinstate the Road Kerb along TFS (100m)	2d	29-Nov-17	30-Nov-17		
A2040	Reinstate the Road Kerb along TFS (100m)	4d	01-Dec-17	04-Dec-17		

Page 2 of 3

**Actual Work** █

**Remaining Work** █

**Critical Remaining Work** █

**Milestone** ◆

Date: 23-Oct-17

Revision: DWP-08 (1) - 3 Months Rolling

Checked: TL

Approved: TL

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

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**Page 2 of 3**

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



Activity ID	Activity Name	Original Duration	Start	Finish	2017		2018	
					Nov	Dec	Jan	Feb
A2050	Lay flexible road pavement (RB, BC)	3d	05-Dec-17	07-Dec-17		Lay flexible road pavement (RB, BC)		
A2060	Expose and Install Manhole Covers	1d	07-Dec-17	07-Dec-17		Expose and Install Manhole Covers		
A2070	Lay flexible road pavement (PMSMA 10)	1d	08-Dec-17	08-Dec-17		Lay flexible road pavement (PMSMA 10)		
A2080	Lay road marking and erect permanent traffic signs	1d	08-Dec-17	08-Dec-17		Lay road marking and erect permanent traffic signs		
A2090	Implement next TTM stage 3 (Tsing Fung Street, WB)	1d	10-Dec-17	10-Dec-17		Implement next TTM stage 3 (Tsing Fung Street, WB)		
<b>TTM Stage 3 - Reinstatement of Victoria Park</b>								
		103d	20-Nov-17	02-Mar-18				
<b>Reinstatement Works in Traffic Deck</b>								
A2100	Break flexible pavement and concrete slab above WB traffic deck	3d	10-Dec-17	12-Dec-17		Break flexible pavement and concrete slab above WB traffic deck		
A2110	Dismantle traffic deck and Cut king posts	5d	13-Dec-17	17-Dec-17		Dismantle traffic deck and Cut king posts		
A2120	Break two concrete footings	3d	18-Dec-17	20-Dec-17		Break two concrete footings		
A2130	Backfill Type B Material up to 2m below F.L. (Compaction by proof rolling method of 0.2m each layer)	3d	21-Dec-17	23-Dec-17		Backfill Type B Material up to 2m below F.L. (Compaction by proof rolling method of 0.2m each layer)		
A2140	Cut pipe piles and sheet pile	5d	24-Dec-17	28-Dec-17		Cut pipe piles and sheet pile		
A2150	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	3d	29-Dec-17	31-Dec-17		Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)		
A2160	Dismantle 1.5m high metal barrier	2d	01-Jan-18	02-Jan-18		Dismantle 1.5m high metal barrier		
<b>Reinstatement Works inside Victoria Park</b>								
A2180	Removal of Temporary 400 diameter Gas main	7d	20-Nov-17	26-Nov-17		Removal of Temporary 400 diameter Gas main		
A2170	Reinstatement of Boundary Fence	21d	02-Jan-18	25-Jan-18		Reinstatement of Boundary Fence		
A2190	Cutting sheet pile to 1.5m below finish slope profile (MS 168B)	10d	26-Jan-18	06-Feb-18		Cutting sheet pile to 1.5m below finish slope profile (MS 168B)		
A2200	Slope Reinstatement of Victoria Park	21d	03-Feb-18	02-Mar-18		Slope Reinstatement of Victoria Park		
<b>Completion of Minor Outstanding / Remaining Works for KD9</b>								
		97d	05-Nov-17	09-Feb-18				
<b>West Bound - Completion of Minor Outstanding / Remaining Works for KD9</b>								
A2240	Laying Public Lighting duct	13d	05-Nov-17	09-Feb-18		Laying Public Lighting duct		
A2250	Installation of public lighting post and connection by HYD	6d	26-Jan-18	31-Jan-18		Installation of public lighting post and connection by HYD		
A2260	Well compact road formation level and subbase for SRT	7d	01-Feb-18	07-Feb-18		Well compact road formation level and subbase for SRT		
<b>Minor Reinstatement Works in IEC West Bound</b>								
A2300	Replacement of new movement joint at IEC WB (Sun midnight only)	97d	05-Nov-17	09-Feb-18		Replacement of new movement joint at IEC WB (Sun midnight only)		
A2330	Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC WB	8d	05-Nov-17	12-Nov-17		Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC WB		
A2310	Repairing of extg conc deck surface after milling of temp asphalt at IEC WB and EIB (Sun midnight only)	2d	05-Nov-17	06-Nov-17		Repairing of extg conc deck surface after milling of temp asphalt at IEC WB and EIB (Sun midnight only)		
A2320	Repairing of concrete defects on extg concrete deck and abutment M	59d	13-Nov-17	10-Jan-18		Repairing of concrete defects on extg concrete deck and abutment M		
A2340	Erection of new precast concrete panels (12 nos.) at abutment M facing to VPR	30d	11-Jan-18	09-Feb-18		Erection of new precast concrete panels (12 nos.) at abutment M facing to VPR		
A2350	Reinstatement of fire hydrant mounted on external face of edge barrier at IEC WB	2d	11-Jan-18	12-Jan-18		Reinstatement of fire hydrant mounted on external face of edge barrier at IEC WB		
A2350	Reinstatement of fire hydrant mounted on external face of edge barrier at IEC WB	3d	13-Jan-18	15-Jan-18		Reinstatement of fire hydrant mounted on external face of edge barrier at IEC WB		

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

Page 3 of 3

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

Actual Work

Remaining Work

Critical Remaining Work

Milestone

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

Activity ID	Activity Name	Original Duration	Start	Finish	2018	2019	2020
<b>Total</b>		1876d	21-Mar-13 A	21-Jun-18	Feb	Mar	Apr
<b>DWP-08 - (2) - Update Progress As of 20 Feb 18</b>		1676d	21-Mar-13 A	21-Jun-18	Feb	Mar	Apr
<b>Works in KD8</b>		24d	05-Feb-18 A	27-Feb-18 A	Feb	Mar	Apr
<b>TS3W - Remove Temporary Reclamation</b>		24d	05-Feb-18 A	27-Feb-18 A	Feb	Mar	Apr
<b>Stage 7 - Remove D-wall W4D13, 14 &amp; W4D12, W4D15 - 16 + W3D8 - W3D11 &amp; Seawall Reinstatement</b>		24d	05-Feb-18 A	27-Feb-18 A	Feb	Mar	Apr
<b>Reinstatement of Remaining Vertical Seawall by Land Plants</b>		24d	05-Feb-18 A	27-Feb-18 A	Feb	Mar	Apr
MW_1610	Pour concrete behind 5th layer of facing stone	1d	05-Feb-18 A	05-Feb-18 A	Feb	Mar	Apr
MW_1630	Erect Formwork for coping	3d	06-Feb-18 A	09-Feb-18 A	Feb	Mar	Apr
MW_1640	Pour concrete for coping	1d	10-Feb-18 A	10-Feb-18 A	Feb	Mar	Apr
MW_1660	Lay footpath paving blocks	4d	11-Feb-18 A	14-Feb-18 A	Feb	Mar	Apr
MW_1650	Backfill up to formation level (6 layers)	13d	26-Feb-18 A	27-Feb-18 A	Feb	Mar	Apr
<b>Works in KD6</b>		132d	30-Aug-17 A	20-Mar-18	Feb	Mar	Apr
<b>Works in SR8 (Open Cut Method)</b>		132d	30-Aug-17 A	20-Mar-18	Feb	Mar	Apr
<b>SR8 (Zone C) - Ch. 528 to Ch. 368</b>		74d	30-Aug-17 A	20-Mar-18	Feb	Mar	Apr
<b>Zone C - Tunnel Structure</b>		74d	30-Aug-17 A	20-Mar-18	Feb	Mar	Apr
<b>Egress Passage - EP01</b>		74d	30-Aug-17 A	20-Mar-18	Feb	Mar	Apr
A9050	Steel Railing - Fabrication & Installation	74d	30-Aug-17 A	20-Mar-18	Feb	Mar	Apr
<b>SR8 (Zone B) - Ch.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)</b>		16d	21-Feb-18 A	16-Mar-18	Feb	Mar	Apr
<b>SR8 (Zone B) Tunnel - ELS / CCT / BF Works ( 7 Bays Ch. 385.000 to Ch.317.500)</b>		16d	21-Feb-18 A	16-Mar-18	Feb	Mar	Apr
<b>Portal Structure</b>		16d	21-Feb-18 A	16-Mar-18	Feb	Mar	Apr
<b>Pump House</b>		7d	21-Feb-18 A	28-Feb-18 A	Feb	Mar	Apr
<b>Remaining Works inside Pump Sump E</b>		7d	21-Feb-18 A	28-Feb-18 A	Feb	Mar	Apr
<b>Pump Sump E Hand Rail</b>		7d	21-Feb-18 A	28-Feb-18 A	Feb	Mar	Apr
EXW_2530	Installation of handrail (agreed with CC contract)	7d	21-Feb-18 A	28-Feb-18 A	Feb	Mar	Apr
<b>Remaining Works in Zone B</b>		15d	28-Feb-18 A	16-Mar-18	Feb	Mar	Apr
<b>Egress Passage</b>		15d	28-Feb-18 A	16-Mar-18	Feb	Mar	Apr
EXW_2550	Railing installation (2 nos. - 10m)	15d	28-Feb-18 A	16-Mar-18	Feb	Mar	Apr
<b>Works in KD9 (include Re-provisioning Works of KD4, KD5)</b>		185d	23-Oct-17 A	15-May-18	Feb	Mar	Apr
<b>External Works Under KD9</b>		185d	23-Oct-17 A	15-May-18	Feb	Mar	Apr
<b>Zone 1</b>		90d	15-Dec-17 A	27-Mar-18	Feb	Mar	Apr
<b>Drainage Alignment Confirmation for MH72, 73, 74 due to Tree T1106</b>		90d	15-Dec-17 A	27-Mar-18	Feb	Mar	Apr
EXW_1125	Drawing Confirmation and construction for MH2-74A and associated drainage	8d	15-Dec-17 A	25-Mar-18	Feb	Mar	Apr
EXW_1145	Pedestrian walkway open to public during Christmas and CNY	90d	23-Jan-18 A	27-Mar-18	Feb	Mar	Apr
<b>Zone 2</b>		35d	25-Oct-17 A	04-Apr-18	Feb	Mar	Apr
EXW_1890	Irrigation system construction	15d	25-Oct-17 A	04-Apr-18	Feb	Mar	Apr
EXW_1880	Boundary fence installation	30d	01-Nov-17 A	04-Apr-18	Feb	Mar	Apr
<b>Zone 3</b>		35d	03-Mar-18	16-Apr-18	Feb	Mar	Apr
<b>Traffic Island</b>		35d	03-Mar-18	16-Apr-18	Feb	Mar	Apr
EXW_2050	Directional sign DS17 steel frame	7d	03-Mar-18*	10-Mar-18	Feb	Mar	Apr
EXW_2060	New VMSS steel frame	7d	12-Mar-18	19-Mar-18	Feb	Mar	Apr
EXW_2070	TCSSS and lighting at island	7d	20-Mar-18	26-Mar-18	Feb	Mar	Apr
EXW_2080	JTIS (3 nos. footings, 1 no. concrete plinth)	14d	27-Mar-18	16-Apr-18	Feb	Mar	Apr
<b>Zone 4 up to Eternity Facilities</b>		90d	30-Jan-18 A	15-May-18	Feb	Mar	Apr

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Page 1 of 3

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

Date

20-Feb-18

Revision

DWP-08 (2) - 3 Months Rolling

Checked

TL

Approved

TL

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

Activity ID	Activity Name	Original Duration	Start	Finish	2018	2018	2018	2018	2018	2018
					Feb	Mar	Apr	May	Jun	
Elderly Facilities V039 Received on 22 Jun 2017										
EXW_2270	Facilities fabrication	90d	30-Jan-18 A	15-May-18						
EXW_2270	Facilities fabrication	90d	30-Jan-18 A	15-May-18						
Additional Walkway & Arbour V040 Received on 22 Aug 2017										
EXW_2300	Arbour confirmation and fabrication	60d	15-Feb-18 A	12-Apr-18						
EXW_2310	Associated drainage works for the walkway	60d	15-Feb-18 A	12-Apr-18						
EXW_2310	Associated drainage works for the walkway	20d	17-Mar-18	12-Apr-18						
Reverting Traffic for IEC, YP Rd & TF St & Seawall Reinstatement (KD9)										
TTA Revert Traffic Back to Original Alignment										
TTA Revert Traffic Back to Original Alignment										
East Bound TTA - IEC East Bound, Victoria Park Road & Footpath along Sea Side										
TTM Stage 1 - IEC (East Bound)										
Reinstatement Existing Structure										
EB_1020	Install metal parapet on parapet wall (30m)	6d	28-Feb-18	05-Mar-18						
EB_1020	Install metal parapet on parapet wall (30m)	6d	28-Feb-18	05-Mar-18						
TTM Stage 2 - Revert Traffic back to Original Victoria Road										
Existing Bridge Parapet Reinstatement										
EB_1180	Install metal parapet on parapet wall (40m)	4d	06-Mar-18	09-Mar-18						
EB_1180	Install metal parapet on parapet wall (40m)	4d	06-Mar-18	09-Mar-18						
TTM Stage 3 - Reinstatement of Footpath along Seafont										
Reinstatement Works in Traffic Deck Parr A										
EB_1540	Break two concrete footings	31d	31-Jan-18 A	19-Mar-18						
EB_1520	Break pipe piles and cut sheet pile	2d	31-Jan-18 A	16-Mar-18						
EB_1530	Backfill Subbase material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	6d	10-Feb-18 A	26-Feb-18 A						
EB_1530	Backfill Subbase material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	3d	17-Mar-18	19-Mar-18						
Reinstatement of Existing Gas Main										
EB_1560	Excavation for DN400mm Gas main	17d	20-Mar-18	05-Apr-18						
EB_1570	Laying DN400mm gas main by HKCG at VPR footpath	3d	20-Mar-18	22-Mar-18						
EB_1570	Laying DN400mm gas main by HKCG at VPR footpath	14d	23-Mar-18	05-Apr-18						
West Bound - IEC West Bound & Tsing Fung Street										
TTM Stage 2 - Revert Traffic back to Original Tsing Fung Street										
Existing Bridge Parapet Reinstatement										
IECW_1140	Install metal parapet on parapet wall (60m)	5d	28-Feb-18	04-Mar-18						
IECW_1140	Install metal parapet on parapet wall (60m)	5d	28-Feb-18	04-Mar-18						
TTM Stage 3 - Reinstatement of Victoria Park										
Reinstatement Works in Traffic Deck										
IECW_1390	Cut pipe piles and sheet pile	48d	18-Jan-18 A	16-Mar-18						
IECW_1400	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	5d	18-Jan-18 A	13-Mar-18						
IECW_1400	Backfill General Fill Material up to Formation Level (Avg. 1.5m height, by SRT method of 0.3m each layer, 5 layers)	3d	14-Mar-18	16-Mar-18						
Reinstatement Works inside Victoria Park										
IECW_1440	Reinstatement of Boundary Fence	60d	29-Jan-18 A	23-Apr-18						
IECW_1460	Cutting sheet pile to 1.5m below finish slope profile (MS 169B)	21d	29-Jan-18 A	17-Mar-18						
IECW_1470	Slope Reinstatement of Victoria Park	10d	19-Mar-18	28-Mar-18						
IECW_1470	Slope Reinstatement of Victoria Park	21d	26-Mar-18	23-Apr-18						
Completion of Minor Outstanding / Remaining Works for KD9										
IECW_1600	Replacement of new movement joint at IEC WB (Sun midnight only)	67d	28-Feb-18	05-May-18						
IECW_1600	Replacement of new movement joint at IEC WB (Sun midnight only)	67d	28-Feb-18	05-May-18						
Minor Reinstatement Works for Tsing Fung Street										
IECW_1530	Laying Public Lighting duct	13d	18-Mar-18	30-Mar-18						
IECW_1540	Installation of public lighting post and connection by Hyd	6d	18-Mar-18	23-Mar-18						
IECW_1550	Well compact road formation level and subbase for SRT	7d	24-Mar-18	30-Mar-18						
IECW_1550	Well compact road formation level and subbase for SRT	6d	24-Mar-18	29-Mar-18						
Minor Reinstatement Works in IEC West Bound										
IECW_1610	Repairing of ext to conc deck surface after milling of temp asphalt at IEC WB and EIB (Sun midnight only)	67d	28-Feb-18	05-May-18						
IECW_1610	Repairing of ext to conc deck surface after milling of temp asphalt at IEC WB and EIB (Sun midnight only)	8d	28-Feb-18	07-Mar-18						
IECW_1630	Repairing of 300 dia. concrete pipeline by lining under slow lane of IEC WB	2d	28-Feb-18*	01-Mar-18						
IECW_1610	Repairing of ext to conc deck surface after milling of temp asphalt at IEC WB and EIB (Sun midnight only)	59d	08-Mar-18	05-May-18						

**Actual Work** █

**Remaining Work** █

**Critical Remaining Work** █

**Milestone** ◆

Page 2 of 3

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

Date: 20-Feb-18

Revision: DWP-08 (2) - 3 Months Rolling

Checked: TL

Approved: TL

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

Activity ID	Activity Name	Original Duration	Start	Finish	Feb	Mar	Apr	May	Jun
<b>Works in Victoria Park (KD4, KD5, KD9)</b>									
<b>Re-Provisioning Works</b>									
VP_NC_1500	External wall tile cleaning	3d	23-Oct-17A	20-Mar-18					
VP_NC_1420	Painting to wall & ceiling in general (final coat)	4d	15-Mar-18	19-Mar-18					
<b>Nursery Compound</b>									
VP_NC_1690	Installation	1d	13-Feb-18A	14-Feb-18A					
VP_NC_1820	Installation	7d	21-Feb-18A	28-Feb-18A					
<b>ABWF</b>									
VP_NC_1500	External wall tile cleaning	3d	23-Oct-17A	20-Mar-18					
VP_NC_1420	Painting to wall & ceiling in general (final coat)	4d	15-Mar-18	19-Mar-18					
<b>Nursery compound</b>									
VP_NC_1690	Installation	1d	13-Feb-18A	14-Feb-18A					
VP_NC_1820	Installation	7d	21-Feb-18A	28-Feb-18A					
<b>External Works</b>									
VP_NC_1890	Form WR1 submission	7d	09-Feb-18A	13-Feb-18A					
VP_NC_1900	Expected power on date	7d	14-Feb-18A	14-Feb-18A					
<b>Fire Services</b>									
VP_NC_1980	Pump and water pipe installation	10d	22-Dec-17A	10-Mar-18					
VP_NC_1990	Hose Reel installation, Breakglass and Alarm	3d	10-Feb-18A	13-Feb-18A					
VP_NC_1930	FS pipe connection from u/g to water meter room	2d	24-Feb-18A	28-Feb-18A					
<b>Plumbing and Flushing Water Supplies</b>									
VP_NC_2080	Cleaning of potable water pipe and sampling to WSD	7d	17-Feb-18A	26-Feb-18A					
VP_NC_2100	WSD inspection	14d	28-Feb-18	15-Mar-18					
<b>GRP Water Tank Installation</b>									
VP_NC_2130	Final As-fitted drawing submission to WSD	7d	30-Jan-18A	06-Feb-18A					
<b>External Works Aside Nursery Compound</b>									
VP_NC_2150	U channel at toilet	2d	30-Jan-18A	31-Jan-18A					
VP_NC_2190	SS angle to shower room u channel	1d	31-Jan-18A	31-Jan-18A					
VP_NC_2140	Drainage work at External area	15d	28-Feb-18	16-Mar-18					
<b>Water Works</b>									
VP_NC_2220	FS Fresh & Salt Water, Fresh Water and Irrigation System	15d	07-Feb-18A	27-Feb-18A					
<b>External Works Around Nursery Compound</b>									
VP_NC_2250	Reinstatement of Existing Boundary Fence Wall Around Nursery Compound	45d	28-Feb-18	24-Apr-18					
<b>KD10 - Preservation and Protection of Trees</b>									
PPT_0000	Preservation and Protection of Existing Trees	1088d	21-Mar-13A	21-Jun-18					
<b>KD15 &amp; KD8 - Mooring Components Upkeep (CBTS and ATS)</b>									
MAR_3020	Mooring Upkeep at Porton X(10) & XVII(16) - CBTS	979d	15-May-14A	28-Feb-18					

Date	Revision	Checked	Approved
20-Feb-18	DWP-08 (2) - 3 Months Rolling	TL	TL

Page 3 of 3

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

**Actual Work** ■

**Remaining Work** ■

**Critical Remaining Work** ■

**Milestone** ◆

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