



中國港灣工程有限責任公司

香港代表： 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY LIMITED
HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date : 13 June 2017
Our Ref. : CHEC300/OUT/2017/06/01.01/026646

By Hand

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

Attn: Mr. Ng Wang Shek
The Engineer's Representative

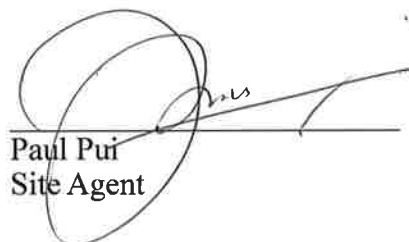
Dear Sir,

Contract No. HY/2013/03
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities
EP Condition 5.4 – Monthly EM&A Report (May 2017)

Pursuant to the Condition 5.4 of the EP-353/2009/K, we are pleased to submit one soft copy and three hard copies of the certified Monthly EM&A Report (Rev.5) for May 2017 for your on-ward submission.

Thank you for your kind attention.

Yours faithfully,
For and on behalf of
China Harbour Engineering Co. Ltd.



Paul Pui
Site Agent

PP/FH/MC/ac

Encl.

14 June 2017

By Fax (3468 2076) and By Post

AECOM Asia Co. Ltd.
The PRE's Office
5 Ying Hei Road, Tung Chung, Lantau
Hong Kong

Attention: Mr. Patrick Lee

Dear Sir,

**Re: Agreement No. CE 48/2011 (EP)
Environmental Project Office for the
HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities,
and Tuen Mun-Chek Lap Kok Link – Investigation**

**Contract No. HY/2013/03 – HZMB HKBCF – Vehicle Clearance Plazas and
Ancillary Buildings and Facilities
Monthly Environmental Monitoring & Audit Report for May 2017**

Reference is made to the Environmental Team's submission of Monthly Environmental Monitoring & Audit Report for May 2017 (Rev. 5) certified by the ET Leader (ET's ref.: "MCL/ED/0336/2017/D" dated 13 June 2017) and provided to us via e-mail on 13 June 2017.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 of the Environmental Permit No. EP-353/2009/K.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,
For and on behalf of
Ramboll Environ Hong Kong Limited



Raymond Dai
Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Ken Woo	(By Fax: 3188 6614)
	MCL	Mr. Arthur Cheng	(By Fax: 2450 8032)
	CHEC	Mr. Johnason Ko	(By Fax: 2887 3014)

Internal: DY, YH, ENPO Site

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Website : www.materialab-consultant.com

Date 13 June 2017
Our Ref. MCL/ED/0336/2017/D

Ramboll Environ Hong Kong Limited
(formerly ENVIRON Hong Kong Limited)
21/F, BEA Harbour View Centre
56 Gloucester Road, Wan Chai
Hong Kong

BY HAND

Attn.: Mr. Raymond Dai, IEC


Dear Sir,

**EP Condition 5.4 – Monthly EM&A Report for
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities –
Vehicle Clearance Plazas and Ancillary Buildings and Facilities (Contract No. HY/2013/03)**

Pursuant to Condition 5.4 of the Environmental Permit (EP-353/2009/K) for the captioned project, we are pleased to submit the certified Monthly EM&A Report for May 2017 (Rev. 5) for your verification.

Should you require further information, please do not hesitate to contact our Miss Jamie Tam at 3565 4157 or the undersigned at 3565 4115.

Yours faithfully,
for and on behalf of
MATERIALAB CONSULTANTS LIMITED



Arthur Cheng
Environmental Team Leader

AC/jt

c.c. AECOM – Mr. P.K. Lee, Mr. W.S. Ng, Mr. Patrick Ko
RAMBOLL ENVIRON – Mr. Ray Yan, Mr. Andy Wong
CHEC – Mr. Marko Chan

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Report No.: 0165/15/ED/0798

**MONTHLY ENVIRONMENTAL MONITORING & AUDIT
REPORT (Rev. 5)**

May 2017


Client: China Harbour Engineering Co., Ltd.
Project: Contract No. HY/2013/03
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities -
Vehicle Clearance Plazas and
Ancillary Buildings and Facilities

Report No.: 0165/15/ED/0798

Prepared by: Jamie Tam

Reviewed by: Bong Yu

Certified by:


Arthur Cheng
Environmental Team Leader

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and set against a dark, rectangular background with horizontal lines above and below the text.

Report No.: 0165/15/ED/0798

CONTENTS

EXECUTIVE SUMMARY

1. INTRODUCTION
 - 1.1 Background
 - 1.2 Project Description
 - 1.3 Project Organisation
 - 1.4 Construction Programme
 - 1.5 Construction Works undertaken during the Reporting Period
2. AIR QUALITY MONITORING
 - 2.1 Monitoring Locations
 - 2.2 Monitoring Requirements
 - 2.3 Monitoring Results
3. NOISE MONITORING
 - 3.1 Monitoring Locations
 - 3.2 Monitoring Requirements
 - 3.3 Monitoring Results
4. WATER QUALITY MONITORING
 - 4.1 Monitoring Locations
 - 4.2 Monitoring Requirements
 - 4.3 Monitoring Results
5. ECOLOGY MONITORING
 - 5.1 Monitoring Locations
 - 5.2 Monitoring Requirements
 - 5.3 Monitoring Results
6. DISPOSAL OF MARINE SEDIMENT EXTRACTED FROM BORED PILING WORKS
 - 6.1 Background
 - 6.2 Dumping Arrangements
 - 6.3 Quantity Disposed
7. ENVIRONMENTAL SITE INSPECTION AND AUDIT
 - 7.1 Site Inspection
 - 7.2 Advice on the Solid and Liquid Waste Management Status
 - 7.3 Environmental Licenses and Permits
 - 7.4 Implementation Status of Environmental Mitigation Measures

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Report No.: 0165/15/ED/0798

- 7.5 Summary of Exceedance of the Environmental Quality Performance Limit
- 7.6 Summary of Complaints, Notification of Summons and Successful Prosecution
- 8. FUTURE KEY ISSUES
 - 8.1 Construction Programme for the Coming Months
 - 8.2 Environmental Site Inspection Schedule for the Coming Month
- 9. CONCLUSIONS

APPENDICES

- A Location of Works Areas
- B Project Organization for Environmental Works
- C Construction Program
- D Event / Action Plan
- E Waste Flow Table
- F Environmental Licenses and Permits
- G Implementation Schedule for Environmental Mitigation Measures (EMIS)
- H Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions
- I Environmental Site Inspection Schedule

FIGURES

- Figure 1 Air Quality Monitoring Stations
- Figure 2 Noise Monitoring Stations
- Figure 3 Water Quality Monitoring Stations
- Figure 4 Original Ecological Monitoring Transect Line and Layout Map before the Changes of EM&A Programme
- Figure 5 New Ecological Monitoring Transect Line and Layout Map after the Changes of EM&A Programme

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EXECUTIVE SUMMARY

This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. HY/2013/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities" (includes the construction works of Contract No. HY/2013/06 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System" within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contract") for the Highways Department of Hong Kong Special Administrative Region (HKSAR). Contract No. HY/2013/03 was awarded to China Harbour Engineering Co. Limited (construction works of Contract No. HY/2013/06 was awarded to ATAL Technologies Limited within Contract No. HY/2013/03 works area) (hereafter referred to as "the Contractor") and Materialab Consultants Limited (MCL) was appointed as the Environmental Team (ET) by the Contractor.

Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of the "Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities" (HZMB HKBCF) Project which is a "Designated Project" under Schedule 2 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499) and for which an EIA Report (Register No. AEIAR-145/2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP-353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance Register.

Commencement of Contract No. HY/2013/03 took place on 10 April 2015 while the construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015 while the construction works and the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area commenced on 13 September 2016).

Materialab Consultants Limited (MCL) has been appointed by the Contractor to implement the Environmental Monitoring & Audit (EM&A) programme for the Contract in accordance with the Updated EM&A Manual for HKBCF (Version 1.0) and will be providing environmental team services for the Contract.

This is the 21st Monthly EM&A Report for the Contract which summaries findings of the EM&A programme during the reporting period from 01 May 2017 to 31 May 2017 (includes the findings of the EM&A programme of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area during the reporting period from 01 May 2017 to 31 May 2017) (the "reporting period"). The monthly EM&A programme was undertaken in accordance with the Updated EM&A Manual for HKBCF (Version 1.0). It should be noted that the air quality and noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7, noise monitoring at NMS2 and NMS3B, water quality monitoring at the locations shown in **Figure 3** and ecological monitoring as shown in **Figure 4** and **Figure 5** as part of EM&A programme if these monitoring stations are no longer covered under Contract No. HY/2010/02 and HY/2011/03. However, this is subject to ENPO's final decision on which ET should carry out the monitoring work at these stations.

The dates of site inspection for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are listed below:

Environmental Site Inspection: 5, 11, 18, and 26 May 2017.

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Breaches of Action and Limit Levels

Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.

There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 4.1** by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.

Complaint Log

There was one complaint received in relation to the environmental impact during the reporting period.

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
008	ENPO-C0119	31 May 2017	Air pollution

The complaint was still under investigation. Details will be reported in the coming reporting period.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

Changes on the EM&A programme were justified and verified by the ET Leader for Contract No. HY/2010/02 and the IEC respectively on 24 March 2017, and it was approved by EPD on 12 May 2017. The changes to the EM&A programme for the HKBCF project effective from 15 May 2017 are shown in the following:

1. Water Quality Monitoring

Current and Alternative WQM Stations

WQM Station	Description	East	North
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N)	Control Station	808814	822355
SR5	Sensitive receiver (Artificial Reef in NE Airport)	811489	820455
SR5(N)	Sensitive receiver (Artificial Reef in NE Airport)	812569	821475
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
IS10(N)	Impact Station (Close to HKBCF construction site)	812942	820881

Remarks: CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations.

The locations of current and alternative WQM stations are shown in **Figure 3**.

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2. Dolphin Monitoring

Co-ordinates of Vessel-based Transect Lines (changes are marked in red):

Line No.		Easting	Northing
2	Start Point	805476	820800
2	End Point	805476	826654
3	Start Point	806464	821150
3	End Point	806464	822911
4	Start Point	807518	821500
4	End Point	807518	829230
5	Start Point	808504	821850
5	End Point	808504	828602
6	Start Point	809490	822150
6	End Point	809490	825352
7	Start Point	810499	822000
7	End Point	810499	824613
24	Start Point	805476	815900
24	End Point	805476	819100

Remarks: Line No. 24 is a new vessel-based transect line for dolphin monitoring.

The original co-ordinates for the transect lines and layout map before the changes of the EM&A programme are shown in **Figure 4** and the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017 are shown in **Figure 5**.

Future Key Issues

The future key issues to be undertaken in the upcoming month are:

For Contract No. HY/2013/03

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E;
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee;
13. Deployment, maintenance and inspection of silt curtain; and
14. Construction of water outfall of box culvert.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

1. Conduit & display panel installation at Building 037 and CUE works area.

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1. INTRODUCTION

1.1 Background

1.1.1 MaterialLab Consultants Limited was commissioned by China Harbour Engineering Co. Limited (also referred to as “the Contractor”) to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for Contract No. HY/2013/03 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Vehicle Clearance Plazas and Ancillary Buildings and Facilities” (includes the construction works of Contract No. HY/2013/06 “Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System” within Contract No. HY/2013/03 works area) (“the Contract”) for the Highways Department of Hong Kong Special Administrative Region (HKSAR).

1.1.2 Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) is part of Hong Kong–Zhuhai–Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) which is “Designated Projects”, under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap 499) and for which an EIA Report (Register No. AEIAR-145-2009) was prepared and approved. The current Environmental Permit (EP) for HKBCF, namely No. EP- 353/2009/K, was issued on 11 April 2016. These documents are available through the EIA Ordinance. The general layout of the Project area is shown in **Appendix A**.

1.1.3 This is the twenty-first EM&A report to document the findings of site inspection activities and EM&A programme carried out by the Contractor of Contract No. HY/2013/03 (includes the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) from 01 May 2017 to 31 May 2017 (reporting period) under Contract No. HY/2013/03 (from 01 May 2017 to 31 May 2017 for the construction works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) and is submitted to fulfil Condition 5.4 of the EP.

1.2 Project Description

1.2.1 The works to be executed under Contract No. HY/2013/03 include the following major items:

- a. Cargo clearance facilities including kiosks for clearance of good vehicles, customs inspection platforms, X-ray building, etc.;
- b. Passenger related facilities including processing kiosks and examination facilities for private cars and coaches, annexure for examination of accompanying passengers of private cars, etc.;
- c. Accommodation/offices for the facilities (like fire station, police station, buildings for Immigration Department [ImmD], Hong Kong Customs and Excise Department [C&ED], Agriculture, Fisheries and Conservation Department [AFCD], Food and Environmental Hygiene Department [FEHD], Department of Health [DofH] etc.) of the Government departments providing services in connection with the HKBCF;
- d. Provision of transport and miscellaneous facilities inside the HKBCF including public transport interchange (PTI), transport drop-off and pick-up areas, vehicle holding areas, passenger queuing areas, road networks, footbridges, fencing, sewerage and drainage systems, sewage treatment plant and treated effluent disposal facilities, water supply system, building services works, electronic system, and traffic control and information system including traffic control and surveillance system (TCSS), etc.;

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- e. Provision of roads connecting the BCF to the Hong Kong Link Road (HKLR), the Tuen Mun – Chek Lap Kok Link (TM-CLKL) and the Hong Kong International Airport (HKIA), expect the part of road works in HKIA entrusted to the HKLR project; and
- f. Reprovisioning of the affected HKIA's facilities, expect those affected by the Automated People Mover (APM) system such as the existing east rescue berth.

1.2.2 The works to be executed under Contract No. HY/2013/06 within Contract No. HY/2013/03 works area include the following major items:

- a. The Automatic Vehicle Clearance Support System amid to increasing traffic flow for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities;
- b. Responsible for designs and develops a set of tailor-made computer monitoring and control systems to for daily security operation; and
- c. The Clearance Workstations at 72 vehicle clearance kiosks, Customs and Excise's inbound and outbound traffic control centers as well as a Vehicle Tracking System.

1.3 Project Organisation

1.3.1 The Project Organisation for Environmental Works of Contract No. HY/2013/03 is shown in **Appendix B**. The contact person and telephone numbers of key personnel for the captioned project are shown in **Table 1.1**:

Table 1.1 Contact Persons and Telephone Numbers of Key Personnel (for Contract No. HY/2013/03)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (China Harbour Engineering Co. Ltd)	Site Agent	Mr. Paul Pui	9125 0700	2512 0427
	Environmental Officer	Mr. Marko Chan	9427 2879	2512 0427
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	5236 7111	--

1.3.2 The Project Organisation for Environmental Works of Contract No. HY/2013/06 within Contract No. HY/2013/03 works area is shown in **Appendix B**. The contact person and telephone numbers of key personnel for the captioned project are shown in **Table 1.2**:

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Table 1.2 Contact Persons and Telephone Numbers of Key Personnel (for Contract No. HY/2013/06 within Contract No. HY/2013/03 works area)

Party	Position	Contact Person	Telephone No.	Fax No.
Engineer or Engineer's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. W. S. Ng	3958 7400	3902 8800
Environmental Project Office / Independent Environmental Checker (Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Mr. Y. H. Hui	3547 2133	3465 2899
	Independent Environmental Checker (IEC)	Mr. Raymond Dai	3465 2888	3465 2899
	Environmental Site Supervisor	Mr. Ray Yan	5181 8165	3465 2899
Contractor (ATAL Technologies Limited)	Site Agent	Mr. Eric Yim	2565 3355	3162 5217
	Environmental Officer	Mr. W. Li	2565 3137	3162 5217
Environmental Team (MaterialLab Consultants Limited)	Environmental Team Leader (ETL)	Mr. Arthur Cheng	3565 4115	2450 8032
24-hr Complaint Hotline	--	--	6509 0375	--

1.3.3 The Contract HY/2013/03 has commenced on 10 April 2015. The commencement of construction works and the EM&A programme have commenced on 29 August 2015.

1.3.4 The Contract HY/2013/06 has commenced on 14 August 2015. The commencement of construction works and the EM&A programme have commenced on 13 September 2016 within Contract No. HY/2013/03 works area.

1.4 Construction Programme

1.4.1 The construction programme for Contract No. HY/2013/03 (includes the construction works of HY/2013/06 within Contract No. HY/2013/03 works area) are provided in **Appendix C**.

1.5 Construction Works Undertaken during the Reporting Period

1.5.1 The construction works of Contract No. HY/2013/03 commenced on 29 August 2015 (includes the construction works of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area). During this reporting period, the following major site activities were commenced:

For Contract No. HY/2013/03

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;

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8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E;
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee; and
13. Deployment, maintenance and inspection of silt curtain.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

1. Conduit & display panel installation at Building 037 and CUE works area.

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2. AIR QUALITY MONITORING

2.1 Monitoring Locations

2.1.1 The air quality monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao-Bridge HKBCF – Reclamation Works" and Contract No. HY/2011/03 "Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road – Section between Scenic Hill and HKBCF". The ET of the Contract or another ET of the HZMB project is required to conduct impact air quality monitoring at AMS6 and AMS7 as part of EM&A programme if these air quality monitoring stations are no longer covered under Contract No. HY/2010/02 and HY/2011/03. **Figure 1** shows the locations of air monitoring stations.

Table 2.1 Air Quality Monitoring Location

Air Monitoring Station	Location
AMS6	Dragonair/CNAC (Group) Building (A80)
AMS7	Hong Kong SkyCity Marriott Hotel

2.2 Monitoring Requirements

2.2.1 The monitoring requirements, equipment, parameters, frequency and duration, methodology, schedule, and meteorological information are described in the monthly EM&A Reports prepared for Contract No. HY/2010/02 and HY/2011/03.

2.2.2 The Action and Limit levels for 1-hr TSP and 24-hr TSP are summarized in **Table 2.2**.

Table 2.2 Action and Limit Levels for Air Quality

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
1 hour TSP		
AMS6	360	500
AMS7	370	
24 hours TSP		
AMS6	173	260
AMS7	183	

2.2.3 The event and action plan is provided in **Appendix D**.

2.2.4 If exceedance(s) at these stations is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the monthly EM&A Report.

2.3 Monitoring Results

2.3.1 The monitoring results for AMS6 and AMS7 are reported in the monthly EM&A Reports prepared for Contract No. HY/2011/03 and HY/2010/02 respectively.

2.3.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.

2.3.3 There was no Action and Limit Level exceedances of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

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Report No.: 0165/15/ED/0798

3. NOISE MONITORING

3.1 Monitoring Locations

3.1.1 The noise monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao Bridge HKBCF – Reclamation Works". The ET of the Contract or another ET of the HZMB project is required to conduct noise monitoring at NMS2 and NMS3B as part of EM&A programme if these monitoring stations are no longer covered under Contract No. HY/2010/02. **Figure 2** shows the locations of noise monitoring stations.

Table 3.1 Construction Noise Monitoring Location

ID No.	Description
NMS2	Seaview Crescent
NMS3B	Site Boundary of Site Office Area at WA2

3.2 Monitoring Requirements

3.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology and monitoring schedule are detailed in the monthly EM&A Reports prepared for Contract No. HY/2010/02.

3.2.2 The Action and Limit Levels for construction noise are defined in **Table 3.2**.

Table 3.2 Action and Limit Level for Construction Noise

Monitoring Station	Action Level	Limit Level
For the Time Period 0700-1900 hrs. on Normal Weekdays		
NMS2	When one documented complaint is received	75.0 dB (A) Leq (30 min.)
NMS3B		70.0 dB (A) Leq (30 min.)*

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

* Reduce to 70 dB(A) for schools and 65 dB(A) during school examination period

3.3 Monitoring Results

3.3.1 The monitoring results for NMS2 and NMS3B are reported in the monthly EM&A Reports prepared for Contract No. HY/2010/02. No noise exceedance was recorded at stations NMS2 and NMS3B by the ET of Contract No. HY/2010/02 during the reporting period.

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4. WATER QUALITY MONITORING

As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported.

4.1 Monitoring Locations

4.1.1 The water monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao-Bridge HKBCF – Reclamation Works". The ET of the Contract or another ET of the HZMB project is required to conduct impact water quality monitoring at the stations shown in **Table 4.1** and **Figure 3**. Changes on the EM&A programme were effective from 15 May 2017. The changes of the monitoring locations are shown in **Table 4.1**.

Table 4.1 Water Quality Monitoring Stations

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	Impact Station (Close to HKBCF construction site)	811489	820455
IS10(N) ⁽³⁾	Impact Station (Close to HKBCF construction site)	812569	821475
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
SR5(N) ⁽³⁾	Control Station	812569	821475
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 1	823741	823495
SR10B(N) ⁽¹⁾	Sensitive receivers(Ma Wan FCZ) 2	823683	823187
CS(Mf)3	Control Station	809989	821117
CS(Mf)3(N) ⁽³⁾	Control Station	808814	822355
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004
CS6	Control Station	817028	823992
CSA ⁽²⁾	Control Station	818103	823064

Note:

(1) Additional monitoring station for Ma Wan FCZ

(2) Additional control monitoring station for Ma Wan FCZ

(3) CS(Mf)3(N), SR5(N) and IS10(N) are alternative WQM Stations which replaced current WQM Stations CS(Mf)3, SR5 and IS10 respectively from 15 May 2017

Remarks:

The ET of the Contract should conduct impact water quality monitoring at the WQMs listed in the table as part of EM&A programme according to latest notification from ENPO if water quality monitoring is no longer covered by another ET of the HZMB project. The ET of the Contract shall communicate and share the monitoring data to the ET(s) of the other contracts if the water quality monitoring station(s) is/are as part of EM&A programme.

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Report No.: 0165/15/ED/0798

4.2 Monitoring Requirements

- 4.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared by Contract No. HY/2010/02.
- 4.2.2 The event and action plan is provided in **Appendix D**.
- 4.2.3 The Action and Limit Levels for Water Quality are provided in **Table 4.2**.

Table 4.2 Action and Limit Levels for Water Quality

Parameters	Action	Limit
DO in mg/L (Surface, Middle & Bottom)	Surface and Middle 5.0 Bottom 4.7	Surface and Middle = 4.2 (except 5 mg/L for FCZ) Bottom = 3.6
SS in mg/L (depth-averaged) at all monitoring stations and control stations	23.5 and 120% of upstream control station's SS at the same tide of the same day*	34.4 and 130% of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes*
Turbidity in NTU (depth-averaged)	27.5 and 120% of upstream control station's turbidity at the same tide of the same day*	47.0 and 130% of upstream control station's turbidity at the same tide of the same day*

* Remarks: Reference is made to EPD approval of adjustment of water quality assessment criteria issued and became effective on 18 February 2013.

Notes:

- "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
- All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.
- The 1%-ile of baseline data for dissolved oxygen (surface and middle) and dissolved oxygen (bottom) are 4.2mg/L and 3.6mg/L respectively.

- 4.2.4 If exceedance(s) at these stations is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the monthly EM&A Report.

4.3 Monitoring Results

- 4.3.1 The monitoring results for the monitoring stations showed in **Table 4.1** are reported in the monthly EM&A Report prepared for Contract No. HY/2010/02. There was no Action and Limit Level exceedance recorded by the Environmental Team of Contract No. HY/2010/02 during the reporting period.

Report No.: 0165/15/ED/0798

5. ECOLOGY MONITORING

As silt curtain was installed on 11 May 2017 and therefore, monitoring result is reported.

5.1 Monitoring Locations

5.1.1 The ecological monitoring works for the Contract are covered by Contract No. HY/2010/02 "Hong Kong-Zhuhai-Macao-Bridge HKBCF – Reclamation Works". The ET of the Contract or another ET of the HZMB project is required to conduct dolphin monitoring at 24 transects as part of EM&A programme if these transects are no longer covered under Contract No. HY/2010/02. The ecological monitoring should adopt line-transect vessel survey method. The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as: Northeast Lantau survey area; and Northwest Lantau survey area. Changes of the EM&A programme were effective from 15 May 2017. **Figure 4** shows the original co-ordinates for the transect lines and layout map before the changes of the EM&A programme and **Figure 5** shows the new co-ordinates for the transect lines and layout map after the changes of the EM&A programme with effect from 15 May 2017.

Remarks:

The ET of this Contract should conduct impact ecological monitoring as part of EM&A programme according to latest notification from ENPO when the monitoring transect(s) is/are no longer covered by another ET of the HZMB project.

5.2 Monitoring Requirements

5.2.1 The monitoring requirements, monitoring equipment, monitoring parameters, frequency and duration, monitoring methodology, monitoring schedule, meteorological information are detailed in the monthly EM&A Reports prepared by Contract No. HY/2010/02.

5.2.2 The event and action plan is provided in **Appendix D**.

5.2.3 The Action and Limit Levels for Chinese White Dolphin Monitoring are provided in **Table 5.1(a) & Table 5.1(b)**.

Table 5.1(a) Action and Limit Levels for Chinese White Dolphin Monitoring - Approach to Define Action Level (AL) and Limit Level (LL)

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 70% of baseline) & (ANI < 70% of baseline)	(STG < 70% of baseline) & (ANI < 70% of baseline)
Limit Level	[(STG < 40% of baseline) & (ANI < 40% of baseline)] AND [(STG < 40% of baseline) & (ANI < 40% of baseline)]	

For North Lantau Social Cluster, action level will be trigger if either NEL or NWL fall below the criteria; limit level will be triggered if both NEL and NWL fall below the criteria.

Table 5.2(b) Derived Value of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

	North Lantau Social Cluster	
	NEL	NWL
Action Level	(STG < 4.2) & (ANI < 15.5)	(STG < 6.9) & (ANI < 31.3)
Limit Level	[(STG < 2.4) & (ANI < 8.9)] AND [(STG < 3.9) & (ANI < 17.9)]	

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Report No.: 0165/15/ED/0798

5.2.4 If exceedance(s) at these transects is/are recorded by the ET of the Contract or referred by the other ET under the HZMB project to the Contract, the ET of the Contract will carry out an investigation and findings will be reported in the monthly EM&A Report.

5.3 Monitoring Result

5.3.1 The dolphin survey results for all transects are reported in the monthly EM&A Reports prepared by Contract No. HY/2010/02.

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6. DISPOSAL OF MARINE SEDIMENT EXTRACTED FROM BORED PILING WORKS

6.1 Background

6.1.1 After the acceptance of the review of the approved Sediment Quality Report (SQR) for this Project under EPD letter dated 19 August 2015, an approval to dispose the marine sediment extracted from bored piling for this Project was then approved under memo from Secretary, Marine Fill Committee of CEDD dated 20 August 2015 for the disposal of marine sediment extracted from bored piling works. The disposal site allocated to this Project is the Mud Pit CMP Vd of the Confined Marine Sediment Disposal Facility to the East of Sha Chau (ESC) during this reporting period.

6.1.2 No extracted marine sediment was treated using cement solidification/stabilisation (Cement S/S) techniques under Contract No. HY/2013/03 during this reporting period. The marine sediment extracted from this Contract was disposed to the MFC allocated disposal sites directly without treatment during this reporting period. As a practical means, the disposal operation is managed by one contractor who is also responsible for applying dumping permit and its subsequent extension applications from EPD. Contract No. HY/2013/03 has been assigned to coordinate and arrange for disposal of extracted marine sediment from all three Contracts (Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04).

6.2 Dumping Arrangements

6.2.1 The barge for disposal of marine sediment was morn at the temporary loading and unloading at the east shore of the HKBCF Island, which has been being used by reclamation contractor (Contract No. HY/2010/02) for reclamation activities. In terms of safety consideration and to avoid mixing of sediment between contracts, each dumping date was allocated to one Contract. The quantity of marine sediment disposed on each date was from one Contract.

6.2.2 During dumping, Contractor of Contract No. HY/2013/03 is responsible for transporting the marine sediment from the site area of Contract No. HY/2013/03 to the barge. The estimated quantity of marine sediment in each truck is confirmed by Resident Site Staff of Contract Nos. HY/2013/02, HY/2013/03 and HY/2013/04. The trip tickets for transportation and disposal of marine sediment are collected and checked. Contract No. HY/2013/03 as the dumping permit holder is responsible for reporting to EPD the quantity disposed of as the condition stipulated in the dumping permit. The disposal site allocated to this Project is the Mud Pit CMP Vd of the Confined Marine Sediment Disposal Facility to the East of Sha Chau (ESC) during this reporting period.

6.3 Quantity Disposed

6.3.1 Marine sediment extracted from bored piling from this Contract was disposed to allocated dumping site in May 2017. The summary of marine sediment disposed up to end May 2017 is shown in the following table:

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Table 6.1 Summary of Marine Sediment Disposed to Dumping Site

Month/Year	Quantity disposed (in '000m ³)			
	HY/2013/02	HY/2013/03	HY/2013/04	Total
Jan 2016	1.272	1.950	0.800	4.022
Feb 2016	2.816	2.328	0.704	5.848
Mar 2016	0.600	2.464	3.942	7.006
Apr 2016	5.128	5.602	5.028	15.758
May 2016	0.000	0.000	0.000	0.000
Jun 2016	1.200	4.584	1.578	7.362
Sub-Total	11.016	16.928	12.052	39.996
Jul 2016	0.728	10.728	3.690	15.146
Aug 2016	1.784	1.544	4.428	7.756
Sep 2016	2.328	6.816	3.888	13.032
Oct 2016	1.096	2.376	5.286	8.758
Nov 2016	0.000	0.000	0.000	0.000
Dec 2016	1.568	4.960	2.538	9.066
Cat L in Dec 2016	0.000	2.792	3.570	6.362
Sub-Total	18.520	46.144	35.452	100.116
Jan 2017	0.000	0.656	6.552	7.208
Feb 2017	0.088	0.264	1.380	1.732
Mar 2017	0.000	0.000	0.000	0.000
Apr 2017	0.624	1.288	0.000	1.912
May 2017	0.000	1.440	0.000	1.440
Total	19,232	49,792	43,384	112,408

Note: All sediments are in Type II disposal method except Cat L (in Type I)

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7. ENVIRONMENTAL SITE INSPECTION AND AUDIT

7.1 Site Inspection

- 7.1.1 Site audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- 7.1.2 The joint site audits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) were conducted on 5, 11, 18 and 26 May 2017 by the representatives of Engineer, Contractor, ET and IEC (IEC for 26 May 2017).
- 7.1.3 Particular observations during the site inspection and corrective actions undertaken by the Contractor are described below:

For Contract No. HY/2013/03

28 April 2017

1. The Contractor was reminded to remove stagnant water accumulated at drip trays at CUE works area. Subsequently, stagnant water at drip trays was removed. The observation was closed on 05 May 2017.
2. The Contractor was reminded to improve housekeeping at Bridge A7. The Contractor was reminded to improve housekeeping at Bridge A7. Subsequently, housekeeping was improved. The observation was closed on 05 May 2017.

05 May 2017

1. The Contractor was reminded to provide drip trays for chemical containers at Building 037. Subsequently, drip trays were provided. The observation was closed on 11 May 2017.
2. The Contractor was reminded to remove general waste accumulated at Building 037. Subsequently, general waste was removed. The observation was closed on 11 May 2017.

11 May 2017

1. The Contractor was reminded to increase watering for dust suppression on site. Subsequently, watering was increased for dust suppression. The observation was closed on 18 May 2017.
2. The Contractor was reminded to remove stagnant water accumulated at Building 040. Subsequently, stagnant water was removed. The observation was closed on 18 May 2017.

18 May 2017

1. The Contractor was reminded to remove stagnant water accumulated at Building 041. Subsequently, stagnant water was removed. The observation was closed on 26 May 2017.
2. The Contractor was reminded to remove general waste accumulated at A9 Bridge. Subsequently, general waste was removed. The observation was closed on 26 May 2017.

26 May 2017

1. The Contractor was reminded to remove general and construction waste accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.
2. The Contractor was reminded to remove stagnant water accumulated on site. Follow-up actions for outstanding observation will be checked in the upcoming site inspections and reported in the coming reporting period.

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For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

05 May 2017

1. Nil findings.

11 May 2017

1. Nil findings.

18 May 2017

1. Nil findings.

26 May 2017

1. Nil findings.

7.2 Advice on the Solid and Liquid Waste Management Status

- 7.2.1 The Contractor of Contract No. HY/2013/03 registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 7.2.2 The monthly summary of waste flow table for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) are detailed in **Appendix E**.
- 7.2.3 Contract No. HY/2013/03 has been assigned to arrange for delivery of surplus filling materials from Contract No. HY/2013/03 to Tuen Mun - Chek Lap Kok Link (TM-CLKL) project of HZMB by marine access. The estimated quantity of surplus filling materials is confirmed by Resident Site Staff of Contract No. HY/2013/03. The summary of surplus filling materials delivered to TM-CLKL project up to the end of May 2017 is shown in **Table 7.1**.

Table 7.1 Summary of Surplus Filling Materials Delivered to TM-CLKL Project

Month/Year	Quantity disposed (in '000m ³)	
	HY/2013/03	Total
May 2017	12.637	12.637
Total	12.637	12.637

Note:

The disposal quantity of surplus filling materials provided by Resident Site Staff is in tonnes (for Contract No. HY/2013/03: 29,065 tonnes). In order to convert the disposal quantity from tonnes to m³, a conversion factor is used and shown as follows:

Volume (in m³) = Mass (in tonnes) / 2.3 (in tonnes/ m³)

Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

- 7.2.4 1.440 (in'000m³) of excavated marine sediment (from Contract No. HY/2013/03), 12.682 (in'000m³) of Inert C & D Wastes and 1.321 (in'000m³) of Non-inert C & D Wastes were generated (from Contract No. HY/2013/03) in this reporting period. 12.637(in'000m³) of Inert C & D Wastes were reused in other projects and 0.045(in'000m³) of Inert C & D Wastes was disposed as public fill. No Inert C & D Wastes and 0.020 (in tonnes) of Non-inert C & D Wastes were generated (from Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) in this reporting period. 0.020 (in tonnes) metals were generated and recycled (from Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) in this reporting period.
- 7.2.5 The excavated marine mud from the land-based works was disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee. The Contractor of

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Report No.: 0165/15/ED/0798

Contract No. HY/2013/03 shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.

7.2.6 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

7.2.7 Contractor of Contract No. HY/2013/03's site arrangement for disposal of bentonite slurry to Tseung Kwan O Area 137 Fill Bank was checked by ET and formal consent has been obtained from Tseung Kwan O Area 137 Fill Bank for receiving used bentonite slurry generated from Contract No. HY/2013/03.

7.3 Environmental Licenses and Permits

7.3.1 The valid environmental licenses and permits for Contract No. HY/2013/03 (includes Contract No. HY/2013/06 within Contract No. HY/2013/03 works area) during the reporting period are summarized in **Appendix F**. The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations (For Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation).

7.4 Implementation Status of Environmental Mitigation Measures

7.4.1 In response to the site audit findings, the Contractor carried out corrective actions.

7.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in **Appendix G**. All necessary mitigation measures at this stage of works were implemented properly.

7.4.3 Implementation status of Regular Marine Travel Route Plan (RMTRP) was checked by ET. Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly. The marine traffic records and geographical plots of all the vessels tracks to demonstrate the conformance of the vessel to the proposed route in May 2017 would be provided to ER, ETL, IEC/ENPO for checking within the month of June 2017.

7.4.4 With respect to condition 3.26A of EP-353/2009/K approved by EPD on 11 April 2016, the numbers and operating periods of floating grout production facilities and floating concrete batching plants on-site to review on the compliance to this EP condition were checked. Under Contract No. HY/2013/03, no floating concrete batching plant was operated on-site during the reporting period.

7.4.5 As silt curtain was installed on 11 May 2017, Dolphin Watching Plan (DWP) should be implemented. Implementation status of DWP was checked by ET. Before the installation of silt curtain, ET conducted visual inspection of the presence of dolphins in the surrounding water. Besides, dolphin watching training was provided to the representatives of the Contractor during April 2017. The records of dolphin watching training, regular inspection of the silt curtains and visual inspection of waters surrounded by the silt curtain in May 2017 would be provided to ER, ETL, IEC/ENPO for checking within the month of June 2017.

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7.5 Summary of Exceedance of the Environmental Quality Performance Limit

- 7.5.1 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 7.5.2 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 7.5.3 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 7.5.4 There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 4.1** by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 7.5.5 Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.

7.6 Summary of Complaints, Notification of Summons and Successful Prosecution

- 7.6.1 There was one complaint received in relation to the environmental impact during the reporting period. The summary of environmental complaints is presented in **Table 7.1**. The details of cumulative statistics of Environmental Complaints are provided in **Appendix H**.

Table 7.1 Summary of Environmental Complaints for the Reporting Month

Log No.	Environmental Complaint Ref. No.	Date of Complaint Receipt	Description
008	ENPO-C0119	31 May 2017	Air pollution

The complaint (ENPO-C0119) was received by EPD from a member of the public on 31 May 2017 and was referred by EPD to the ENPO. Then the ENPO forwarded the complaint by email to the ET (Materialab Consultants Ltd.) of the Contract No. HY/2013/03 on 01 June 2017.

Details of Complaint

The complaint was forwarded from IEC on 01 June 2017, with the following information provided by EPD:

The complainant complained that as there was no watering for dust suppression on the road next to Building 044 and 045 on the artificial island of HZMB, a lot of dust was raised when vehicles passed by causing serious nuisance.

Investigation of Complaint

The complaint was still under investigation. Details will be reported in the coming reporting period.

- 7.6.2 There was no notification for summons or prosecutions received in relation to the environmental impact during this reporting period.
- 7.6.3 Statistics on environmental complaints, notifications of summons and successful prosecutions are provided in **Appendix H**.

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Report No.: 0165/15/ED/0798

8. FUTURE KEY ISSUES

8.1 Construction Programme for the Coming Months

8.1.1 As informed by the Contractor, the following are the major construction activities anticipated in June 2017:

For Contract No. HY/2013/03

1. Building at Portion A1, B, G, N, J, STP & Pumping Stations;
2. Piling at Box Culvert B & Sign Gantry;
3. CUE Construction at Portion B, C & J;
4. Drainage & Sewerage Work, Water Main & Cable Duct at Portion B, H1, H2, J, P, G & A1;
5. Radiation Screen Wall at Portion B, E P, N,M,C;
6. Sign Gantry Footing at Portion B;
7. Sewerage Pumping Station, High Mast Lighting Foundation & Box Culvert C at Portion G;
8. Bridge Works at A1 to A9;
9. Site Foundation Works at Portion K;
10. Cover Walkway at Portion H1 & H2;
11. Box Culvert B at Portion N; Shuttle kiosk & Subway at Portion E;
12. Marine sediment excavation activities from the land-based works and corresponding disposal at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee;
13. Deployment, maintenance and inspection of silt curtain; and
14. Construction of water outfall of box culvert.

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

1. Conduits and display panel installation at Building 037 and CUE works area.

8.2 Environmental Site Inspection Schedule for the Coming Month

8.2.1 The tentative schedule for weekly site inspections for June 2017 is provided in **Appendix I**.

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9. CONCLUSIONS

- 9.1 Commencement of Contract No. HY/2013/03 took place on 10 April 2015. The commencement date for construction works and the EM&A programme of Contract No. HY/2013/03 commenced on 29 August 2015 (commencement of Contract No. HY/2013/06 took place on 14 August 2015. The commencement date for construction works and the EM&A programme of Contract No. HY/2013/06 commenced on 13 September 2016 within Contract No. HY/2013/03 works area).
- 9.2 Summary of Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level at AMS6 shall be referred to the monthly EM&A report prepared by Contract No. HY/2011/03.
- 9.3 There was no Action and Limit Level exceedance of 1-hr TSP level and 24-hr TSP level recorded at station AMS7 by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 9.4 There was no Action and Limit Level exceedance for noise recorded at station NMS2 and station NMS3B by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 9.5 There was no Action and Limit Level exceedance for water quality recorded at the monitoring stations shown at **Table 4.1** by the Environmental Team of Contract No. HY/2010/02 during the reporting period.
- 9.6 Ecological monitoring results at all transects are reported in the EM&A report prepared by Contract No. HY/2010/02.
- 9.7 Environmental site inspections were carried out on 5, 11, 18, and 26 May 2017. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site inspections.
- 9.8 There was one complaint received in relation to air pollution. The complaint was still under investigation. Details will be reported in the coming reporting period.
- 9.9 There were no notifications of summons or prosecutions received during the reporting period.

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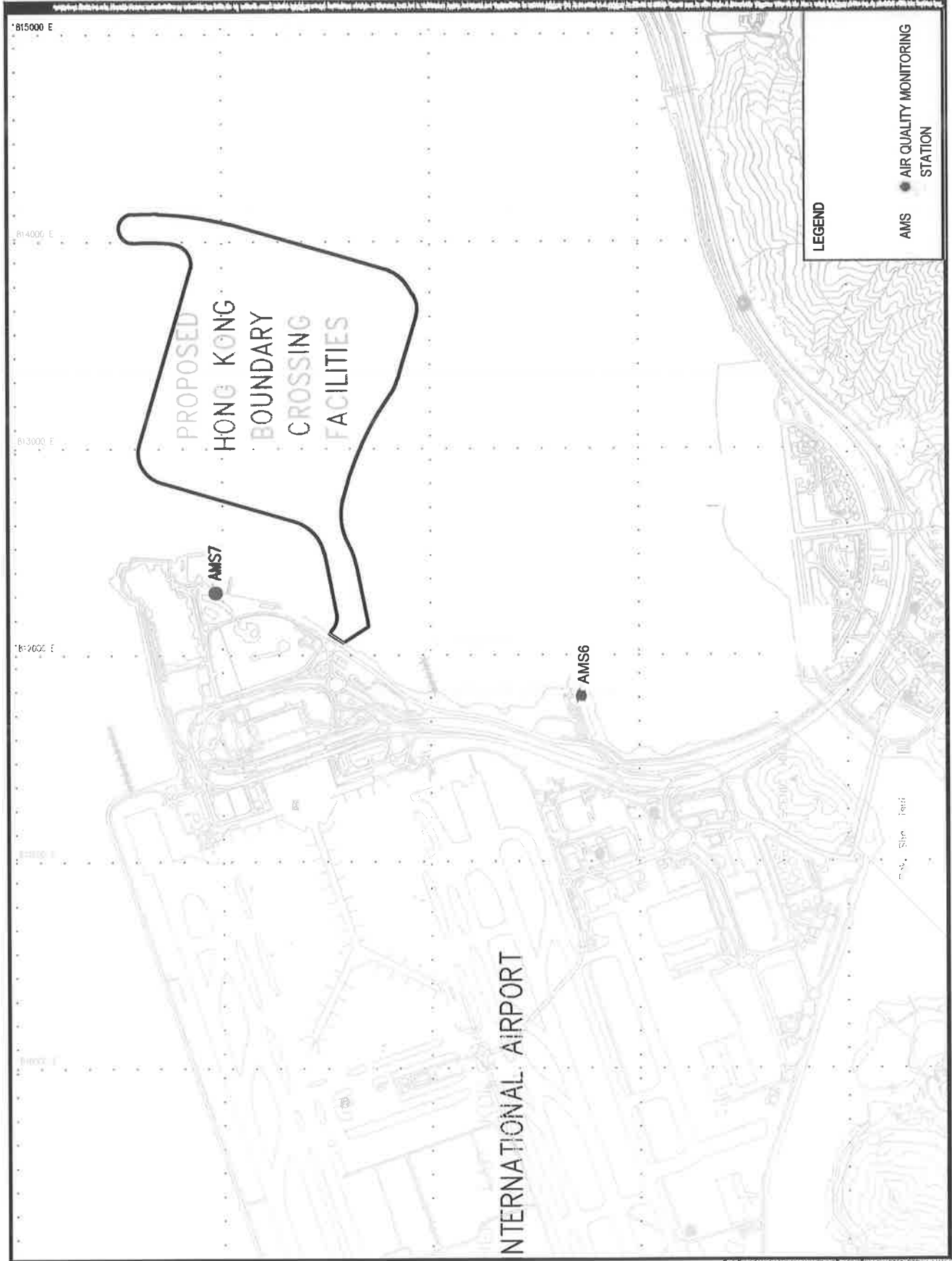
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Figure 1

Air Quality Monitoring Stations



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Figure 2

Noise Monitoring Stations

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Figure 3

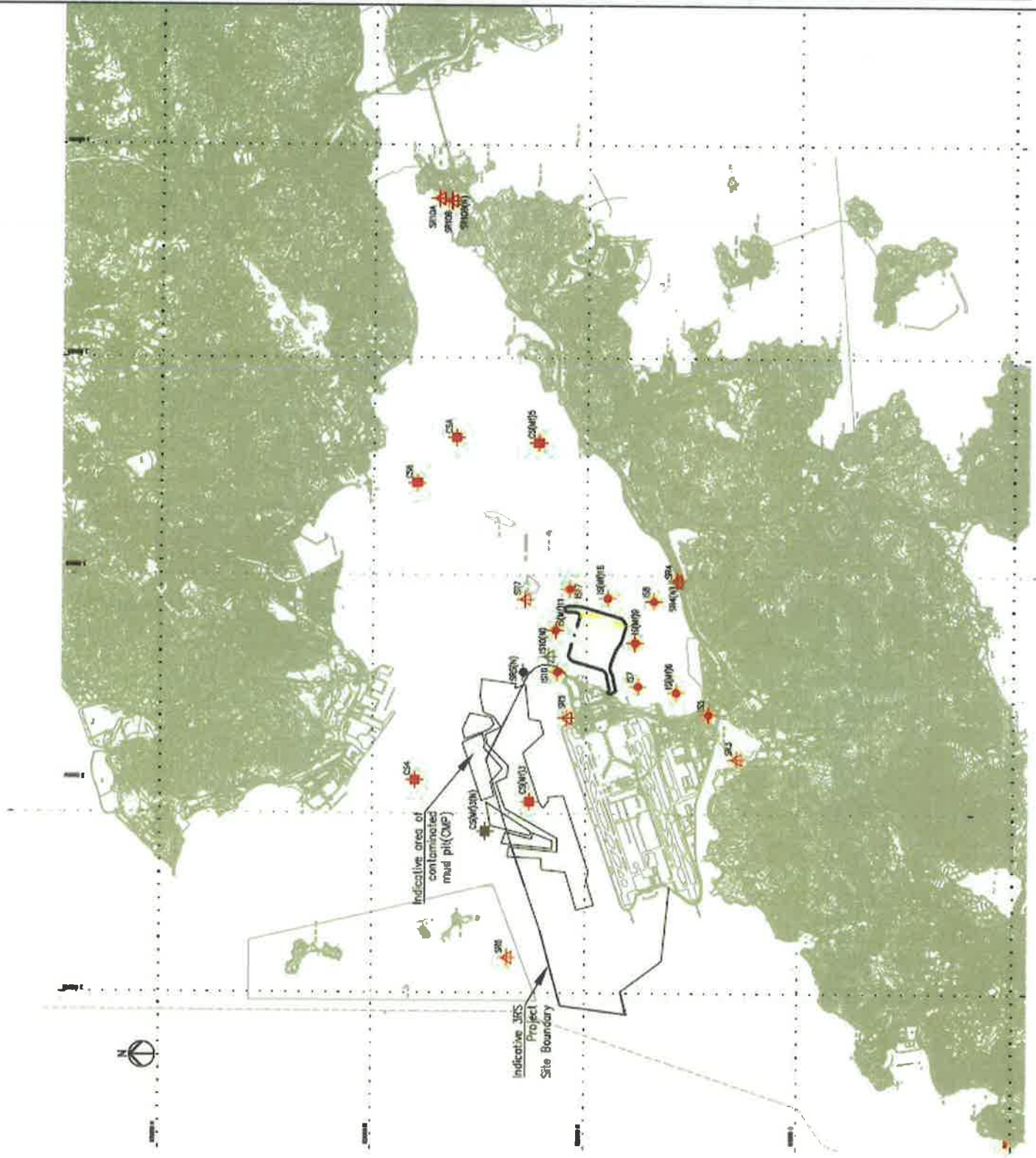
Water Quality Monitoring Stations

LEGEND

-  IMPACT STATIONS
-  CONTROL / FAR FIELD STATIONS
-  SENSITIVE RECEIVER STATIONS
-  IMPACT STATIONS (RELOCATED)
-  SENSITIVE RECEIVER STATIONS (RELOCATED)
-  CONTROL / FAR FIELD STATIONS (RELOCATED)

SETTING OUT SCHEDULE

MONITORING STATIONS	CO-ORDINATES	
	EASTING	NORTHING
IS3	011379	017908
IS101/6	027106	017673
IS7	022204	016777
IS9	016026	016412
IS100/9	013273	016020
IS65/4	012200	020475
IS100/11	013062	020716
IS100/16	014328	016497
IS17	014639	020320
IS3	016025	016400
IS4/4	014705	017629
IS100/1	012002	020001
IS6	006037	020005
IS7	014303	021431
IS100/4	025791	020405
IS100/10	022003	022007
IS100/10(1)	020004	022335
IS100/5	017900	017629
CS1	010005	020004
CS9	017020	033002
CSA	010003	020004
IS10	012377	020070
IS5	011400	020405
CS100/3	020000	021117



Indicative area of contaminated mud pit (CUP)

Indicative JRS Project Site Boundary

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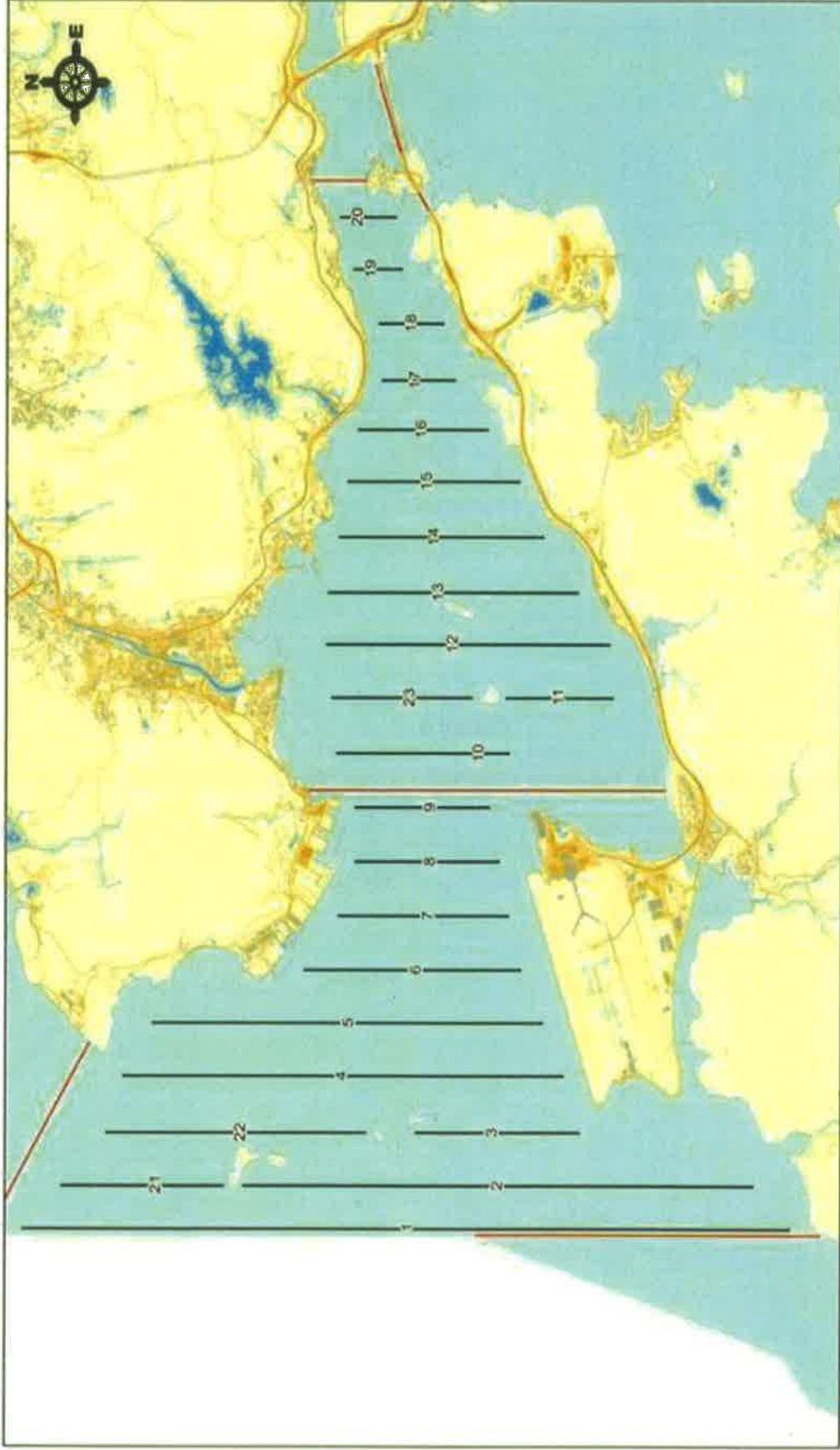
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Figure 4

Original Ecological Monitoring Transect Line and Layout Map before the Changes of EM&A Programme



Remarks:

*Transect 10 is now 3.6km in length due to the HKBCF construction site.

^Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015. The total transect length for both NEL and NWL combined is 108km.

Dolphin Monitoring Transect Line and Layout Map

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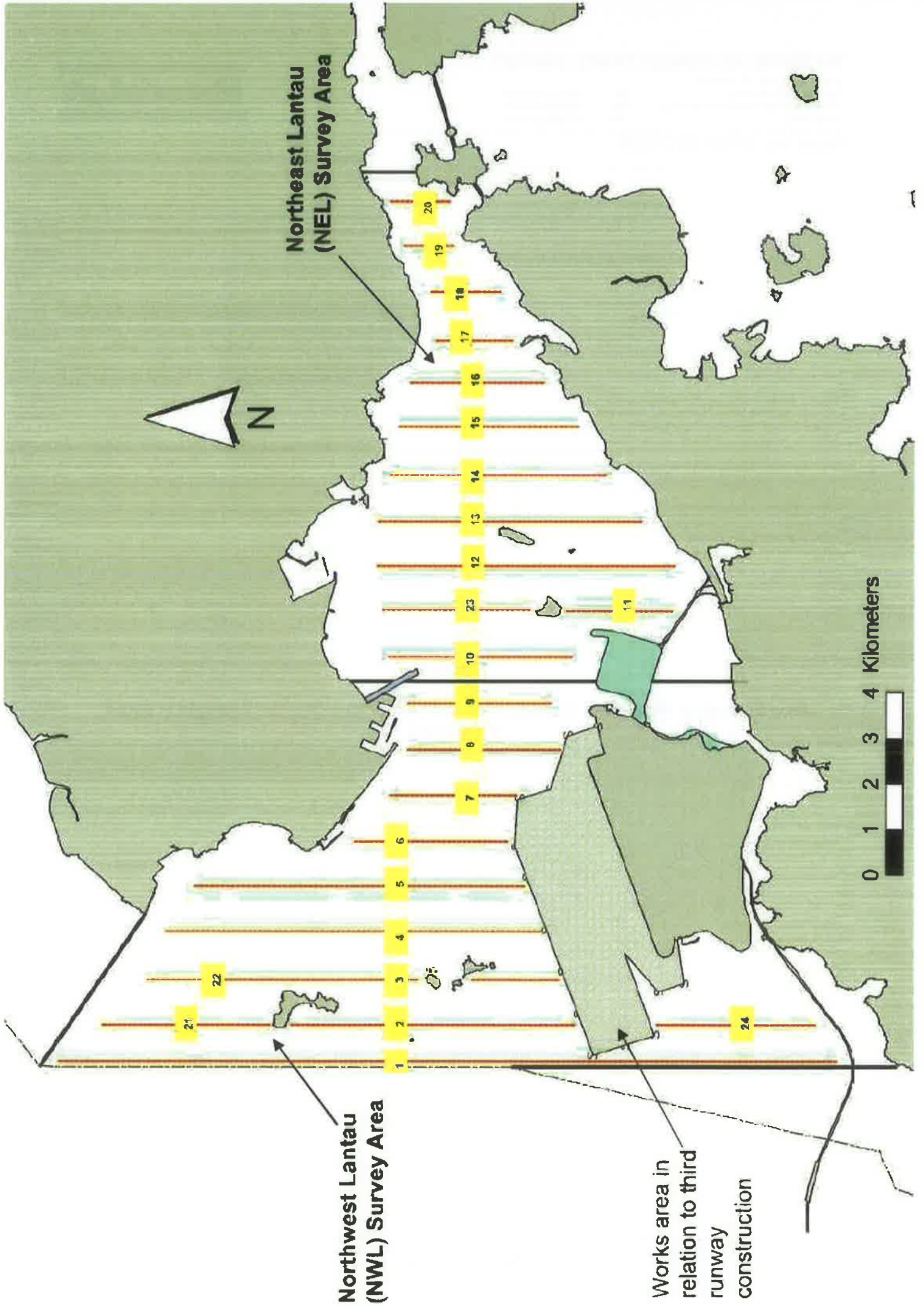
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Figure 5

New Ecological Monitoring Transect Line and Layout Map after the Changes of EM&A Programme



Northeast Lantau (NEL) Survey Area

Northwest Lantau (NWL) Survey Area

Works area in relation to third runway construction

0 1 2 3 4 Kilometers



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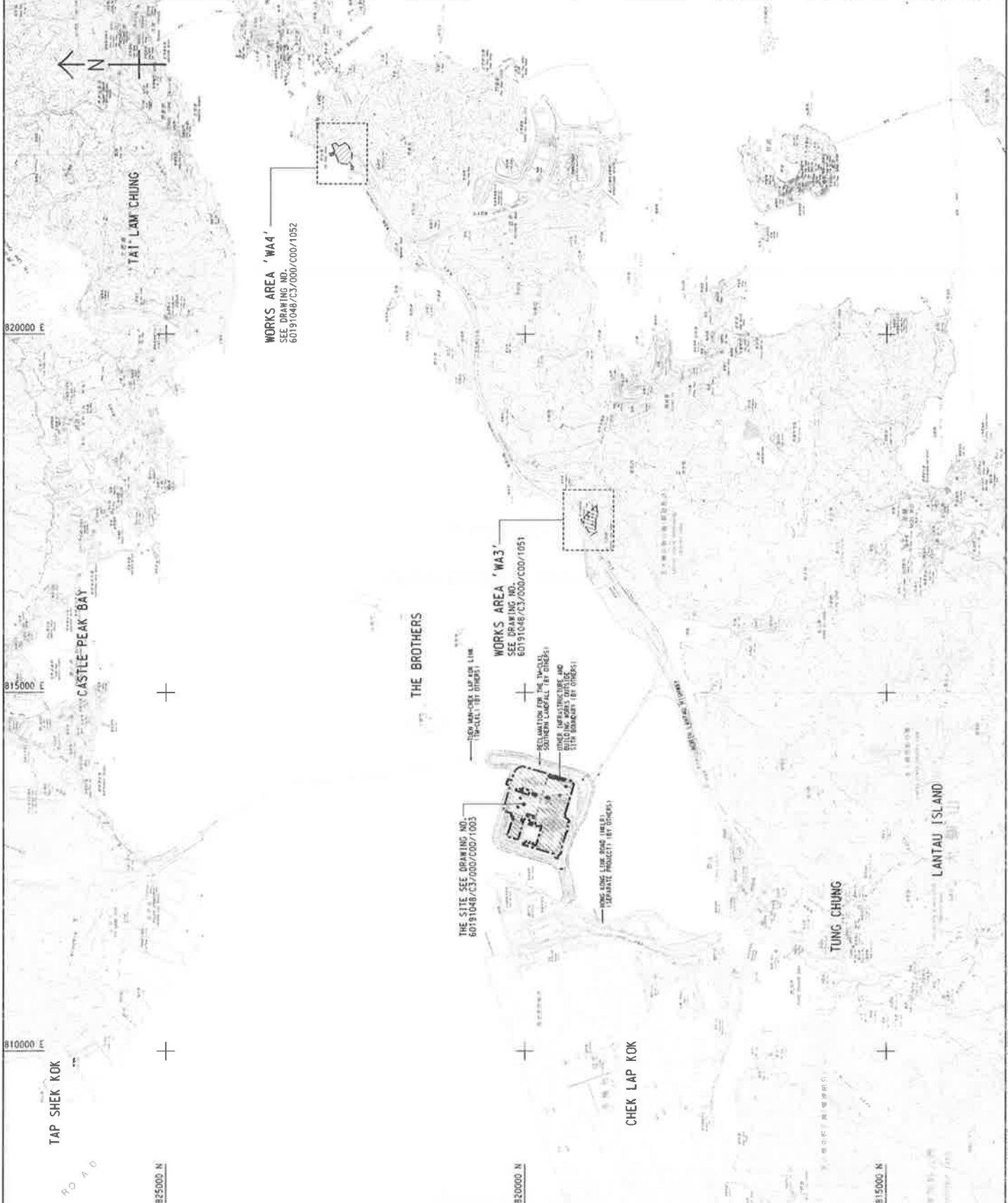
Appendix A

Location of Works Areas

NOTES:

1. COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1987). DIMENSIONS ARE IN MILLIMETERS AND CHINA USE ARE IN METRES UNLESS OTHERWISE SHOWN.
2. DIMENSIONS ARE IN MILLIMETERS AND CHINA USE ARE IN METRES UNLESS OTHERWISE SHOWN.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60191048/C3/000/C00/1051 TO 1053.

LEGEND:



PROJECT NO.	60191048
DATE	2013/03
SCALE	1:25000
PROJECT NAME	HONG KONG LIKING ROAD PROJECT
CLIENT	TRANSPORT AND INFRASTRUCTURE DEPARTMENT
DESIGNER	AECOM
CLIENT ADDRESS	HONG KONG BOUNDARY CROSSING FACILITIES VEHICLE CLEARANCE PLAZAS AND FACILITY BUILDINGS AND FACILITIES

SITE LOCATION PLAN

AECOM + **Aedas**

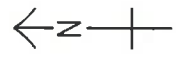
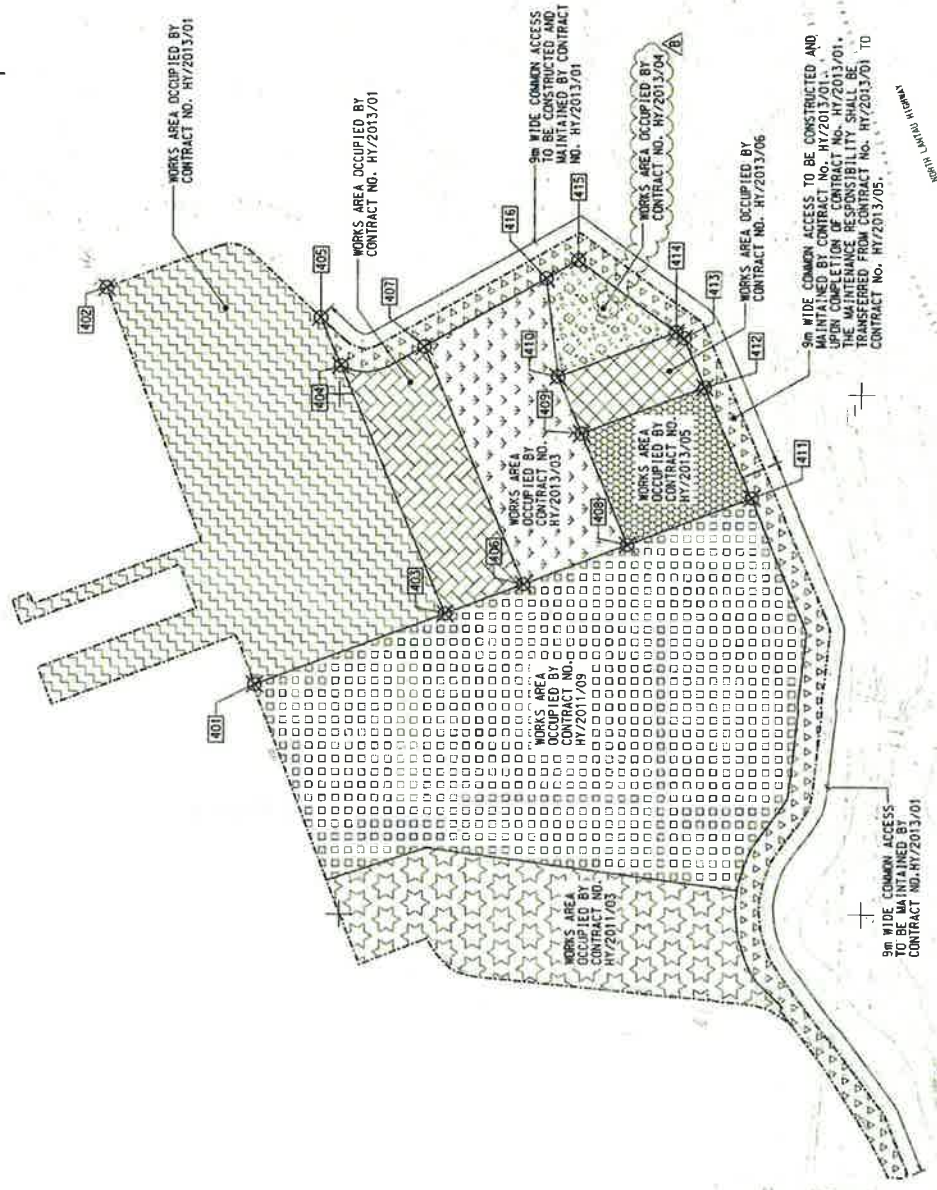
Rogers Shik Harbour + Partners
BUNO HAPFOLD ATKINS ADI

PROJECT NO. 60191048/C3/000/C00/1000
DATE 2013/03
SCALE 1:25000

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SETTING OUT POINT		
POINT	EASTING	NORTHING
401	822465.151	822632.315
402	822640.933	822689.415
403	822715.606	822555.848
404	822610.360	822539.642
405	822683.428	822607.355
406	822526.384	822529.813
407	822118.248	822587.350
408	822584.393	822481.581
409	822506.866	822507.428
410	822560.218	822516.261
411	822560.218	822441.956
412	822602.948	822469.013
413	822621.914	822467.959
414	822628.130	822470.398
415	822651.125	822508.855
416	822644.758	822521.192

822600 E
822400 E



WORKS AREA WA4

KAP SHUI MUN
TSO WAN

SUNNY BAY

LOCATION PLAN
SCALE 1:1,25000

- NOTES:**
- COORDINATES ARE RELATED TO HONG KONG METRIC GRID (1980).
 - DIMENSIONS ARE IN MILLIMETER AND CHAINAGE ARE IN METRES UNLESS OTHERWISE SHOWN.
- LEGEND:**
- WORKS AREA BOUNDARY
- PORTION 4.1
 - PORTION 4.2
 - PORTION 4.3
 - PORTION 4.4
 - PORTION 4.5
 - PORTION 4.6
 - PORTION 4.7
 - PORTION 4.8
 - PORTION 4.9

CONTROLLED DOCUMENT

FOR CONSTRUCTION

C	WORKING DRAWING	2013/01	10/11/13
B	TRIGGER APPROVAL NO. 2	2013/01	10/11/13
A	TRIGGER APPROVAL NO. 1	2013/01	10/11/13
-	TRIGGER DRAWING	2013/01	10/11/13
02			
01			

WORKS AREA WA4

AECOM
Rogers Slick Harbour + Partners
BURNS HOPKINS ARCHITECTS

Aedas

PROJECT NO. 60191048/C3/000/C00/1052C

DATE: 10/11/13
SCALE: 1:1,000

WORKING DRAWING

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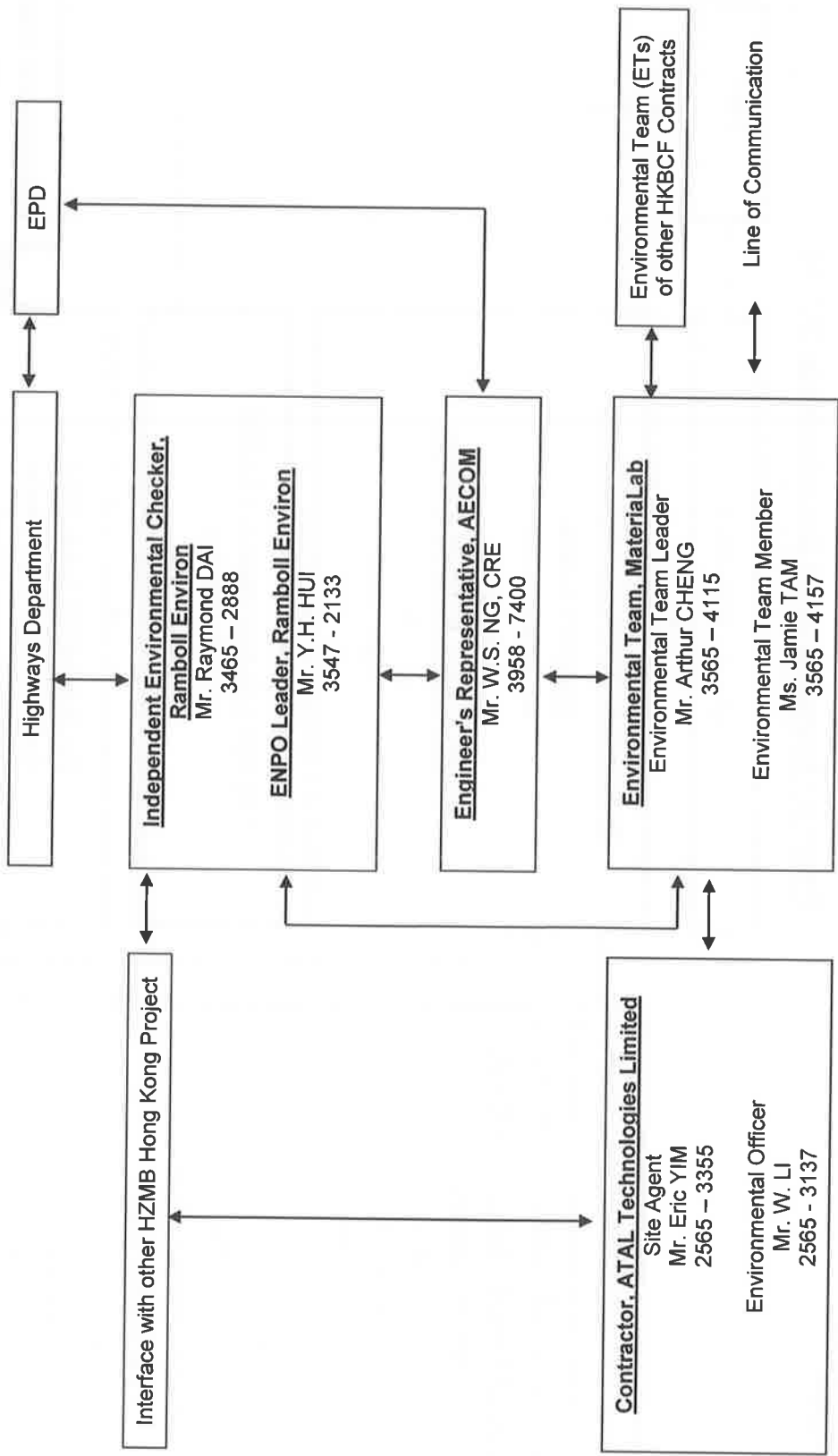
Report No.: 0165/15/ED/0798

Appendix B

Project Organization for Environmental Works

Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area)
 Hong Kong-Zhuhai-Macao Bridge, Hong Kong Boundary Crossing Facilities – Automatic Vehicle Clearance Support System

Projects Organization for Environmental Works



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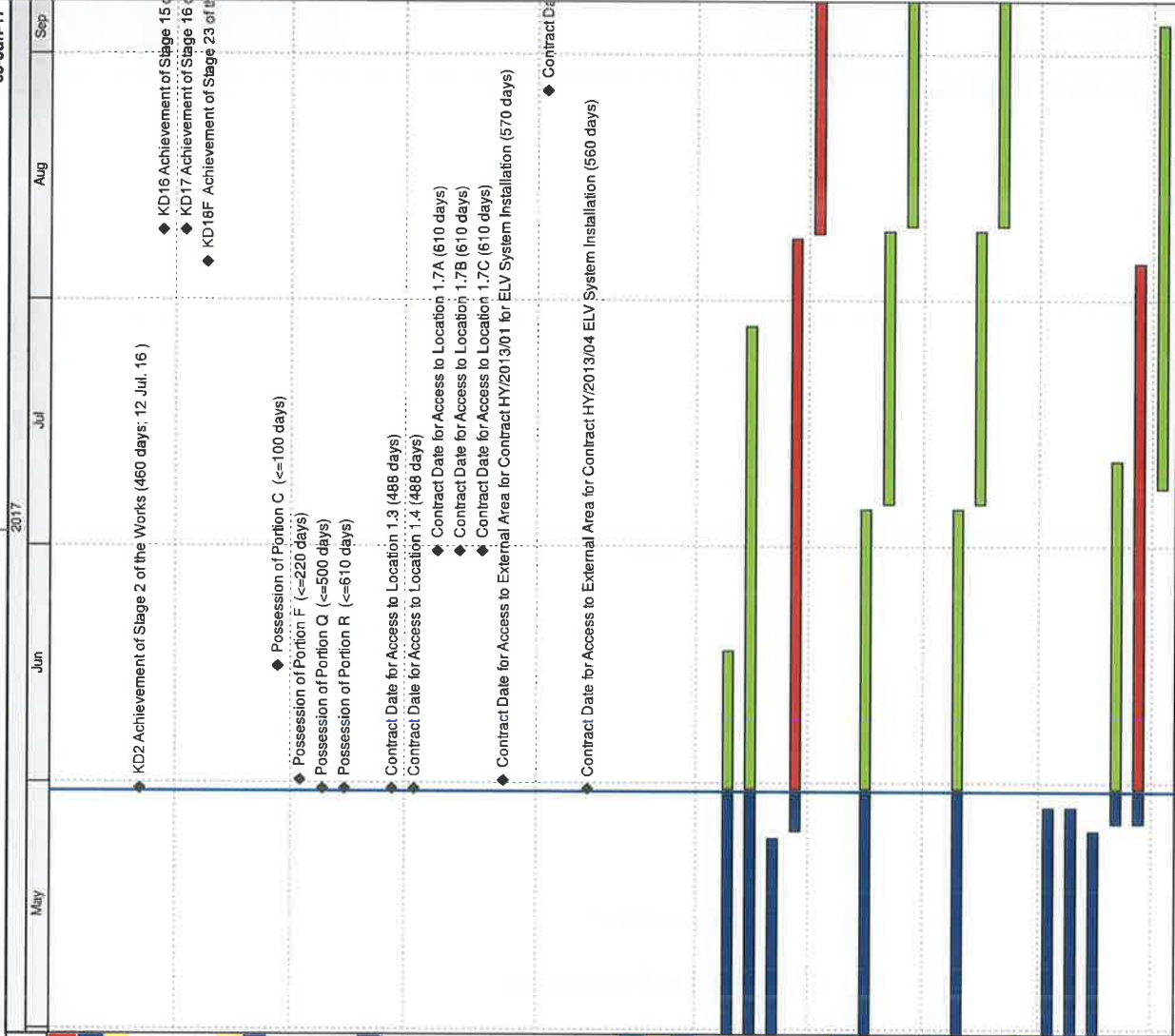
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Appendix C

Construction Programme

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



HKBCF - VCP & Ancillary Buildings and Facilities, DWP04 (+ DRMS 2), UD

CONTRACT DATES

Key Dates

- A1020 KD2 Achievement of Stage 2 of the Works (460 days; 12 Jul. 16)
- A1160 KD16 Achievement of Stage 15 of the Works (548 days; 08 Oct. 16)
- A1170 KD17 Achievement of Stage 16 of the Works (548 days; 08 Oct. 16)
- A1180F KD18F Achievement of Stage 23 of the Works (730 days; 08 Apr. 17)

Site Access & Possession

Possession of Portion of Site

- A0040 Possession of Portion C (<=100 days)
- A0070 Possession of Portion F (<=220 days)
- A0170 Possession of Portion Q (<=500 days)
- A0180 Possession of Portion R (<=610 days)

Access to Locations of the Site

- A0230 Contract Date for Access to Location 1.3 (488 days)
- A0240 Contract Date for Access to Location 1.4 (488 days)
- A0280 Contract Date for Access to Location 1.7A (610 days)
- A0290 Contract Date for Access to Location 1.7B (610 days)
- A0300 Contract Date for Access to Location 1.7C (610 days)
- A0330 Contract Date for Access to External Area for Contract HY/2013/01 for ELV System Installation (570 days)

- A0340 Contract Date for Access to External Area for Contract HY/2013/02 for ELV System Installation (560 days)
- A0350 Contract Date for Access to External Area for Contract HY/2013/04 ELV System Installation (560 days)

PORTION A1

Portion A1 Structures

Bridge A9

Structure Deck

- SA9420 Deck on P904, P903 + Stressing
- SA9440 Deck on P903 & P902 + Stressing
- SA9450 Falsework for Deck P902 - A901
- SA9460 Deck on P902 & A901 + Stressing
- SA9470 Parapet (38 pour) & E&M Works

Retaining Wall W8-1

- SW8120 Backfilling W8-1
- SW8130 Parapet W8-1 (16 pour) & E&M Works
- SW8140 RW8-1 Drainage system & Cable Laying

Retaining Wall W9-1

- SW9120 Backfilling W9-1
- SW9130 Parapet W9-1 (16 pour) & E&M Works
- SW9140 Drainage System & Cable Laying

047 - Fresh Water Pumping Station, Portion A1 & A2

- A04740 Water Tank Construction
- A04750 Pump House Construction
- A04752 Water-tightness Test for Water Tank
- A04760 Parapet Wall at Roof Slab
- A04770 BS installation + E&M (Degree 2)
- A04780 BS installation + E&M (Degree 3)

Actual Work	Remaining Work	Critical	Milestone
Blue bar	Green bar	Red bar	Diamond

THREE MONTH ROLLING PROGRAMME			
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES			
Date	Revision	Checked	Approved
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	ZJ
30-Apr-17	3MRP updated as of 30-Apr. 2017	ZJ	ZJ
31-May-17	3MRP updated as of 31 May 2017	ZJ	ZJ

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
A04790	T&C for BS & Pumps					
Test & Commission						
B04730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
049 - Sewage Treatment Plant, Portion A1 & A2						
B04990	Constructing Wall Stem for Equalization Tanks					
C04910	Water-tightness Test for Equalization Tanks					
D04985	Energisation by CLP					
D04990	Other Ground Slab Construction					
E04910	Other Superstructure Construction					
E04940	BS + E&M Installation (KD9) (Degree 2)					
T&C and Statutory Inspection						
F04910	Essential T&C (FSI)					
F04920	Non-Essential T&C (Non-FSI)					
F04950	Submission & Issue of WW046 IV, V (Inside Services & FS)					
F04960	WSD Inspection					
G04910	Discharge Licence Application					
Portion A1 Buildings						
012 - DOH Disinfection Area and Store Room 1, at Portion A1						
A01250	Finishing					
A01270	BS + E&M for Office Accommodation (Stage 9) (Degree 3)					
A01280	Other BS + E&M Installation					
A01285	DG Application					
Test & Commission						
C01210	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
C01220	Submission & Issue of WW046 IV, V (Inside Services & FS)					
C01230	WSD Inspection					
C01240	FSD Inspection					
C01250	OP Application & TPIDC Inspection					
C01260	OP Issue					
036 - Weigh Station						
A03680	BS + E&M for Office Accommodation (Stage 9)					
A03690	Other BS + E&M Installation					
B03610	T&C for BS & Pumps					
Test & Commission						
B03630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B03640	Form 314 & 501 submission					
B03650	WSD Inspection					
B03660	FSD Inspection					
B03670	BEEQ Stage II & Assessor Certification Submission					
B03680	OP Application & TPIDC Inspection					
B03690	OP Issue					
037 CA&E Lower Cum Inbound Cargo Examination Building (Portion A1 & B)						
A03742C	Mock-up Sample for Mesh Screen Wall (SS41) & Balustrade					
A03758	Paint Finish					
A03770	BS + E&M for AVCS Cabling (KD18B)					
A03785	BS for Office Accommodation (KD10)					
A03790	Other BS + E&M Installation					
Test & Commission						
B03710	T&C for BS & Pumps					
B03730	Submission & Issue of WW046 IV, V (Inside Services & FS)					

Date	Revision	Checked	Approved
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
31-May-17	3MRP updated as of 31 May 2017	ZJ	

THREE MONTH ROLLING PROGRAMME
 VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
B03740	Form LE5 Submission to EMSD						
B03750	Form 314 & 501 submission						
B03760	Lift Inspection by EMSD						
B03770	WSD Inspection						
B03780	FSD Inspection						
B03790	Beam Plus Monthly Submission & Issue						
C03710	BEE0 Stage II & Assessor Certification Submission						
C03720	OP Application & TPIDC Inspection						
041 Fire Station Cum Ambulance Depot							
A04133	Wall Plastering/Wall Tiling						
A04134	Floor Screeding/Tiling/Myl Tiles						
A04137	False Ceiling Installation						
A04140	BS for Office Accommodation (Stage 6), Degree 2						
A04150	BS + E&M for Office Accommodation (Stage 9), Degree 3						
A04160	Other BS + E&M Installation						
A04170	External Finishing						
A04180	C/S Plastering/Tiling						
A04190	Cater Equipment Installation						
Fuel Filling Station incl. BS & E/M							
B04100	All Works for Fuel Filling Station						
Test & Commission							
B04110	T&C for BS & Pumps						
B04120	Submission & Issue of WW046 I, II, III (Inside services & FS)						
B04130	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B04140	Form 314 & 501 submission						
B04150	Form LE5 Submission to EMSD						
B04160	DG application						
B04170	WSD Inspection						
B04180	FSD Inspection						
C04130	Beam Plus Monthly Submission & Issue						
C04140	BEE0 Stage II & Assessor Certification Submission						
042 Drill Tower							
A04260	Finishing						
A04280	BS + E&M for Office Accommodation (Stage 9)						
A04290	Other BS + E&M Installation						
Test & Commission							
B04210	BEE0 Stage II & Assessor Certification Submission						
B04220	T&C for BS Pumps						
B04230	WSD Inspection						
B04240	FSD Inspection						
B04250	OP Application & TPIDC Inspection						
043 DOH Office + Store Room							
A04370	Cladding & Curtain Wall Installation (incl. steel & metal works)						
A04390	BS + E&M for Office Accommodation (Stage 9)						
B04310	Other BS + E&M Installation						
B04330	Stainless Steel Mesh Installation						
B04340	Metal Windows/Louvers/Doors/Railing etc. installation						
B04360	Wall Plastering/Tiling						
B04370	Floor Screeding/Tiling						
B04380	False Ceiling Installation & Painting						

Date	Revision	Checked	Approved
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
31-May-17	3MRP updated as of 31 May 2017	ZJ	

**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

█	Actual Work
█	Remaining Work
█	Critical
◆	Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
B04390	Carpentry (Wooden Doors/Partition/Lockers/Etc.)						
C04310	C/S Wall Plastering						
C04320	Paint Finishing to Walls						
Test & Commission							
C04330	T&C for BS & Pumps						
C04340	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C04350	Submission & Issue of WW046 IV, V (Inside Services & FS)						
C04360	Form 2 Submission						
C04370	Form 314 & 501 submission						
C04380	DG application						
D04310	WSD Inspection						
D04320	FSD Inspection						
D04330	Lift Inspection by EM/SD						
D04350	BEE0 Stage II & Assessor Certification Submission						
052 - Transformers (Zone 4)							
A05235	Energisation by CLP						
Fuel Filling Station incl. BS & E/M							
A05290	All Works for Fuel Filling Station						
T&C and Statutory Inspection							
B05210	T&C for BS & Pumps						
B05220	DG application						
B05230	DG Inspection						
B05270	Non-Essential T&C (Non-FSI)						
B05280	OP Application & TP/DC Inspection						
Completion of Fire Services Installation and Equipment (FCD)							
C05210	Approved Building Plans						
105 IMM/D Guard Booth, Portion A1 (Mock Up)							
B10510	Excavation + Blinding						
B10520	Substructure (Raft Foundation)						
B10530	On Grade Ground Slab						
B10540	Finishing						
B10550	BS for Office Accommodations (KD9)						
B10560	BS + E&M for Office Accommodation (KD10)						
B10570	Other BS + E & M Installation						
C10540	T&C for BS & Pumps						
Facade Envelop Structure Installation							
B10590	Fabrication of F/G System						
C10510	Casted-in Items Installation						
C10520	Steel Frame Installation						
C10530	Envelop Cladding and Roofing Panel Installation						
210 - Immd GV Secondary Examination Bays Inbound							
ER5830	Construction of the Area and Access to the Interface Contractor						
External Works for Portion A1							
Drainage Works							
ED5590	Drainage Works (774m & 35MHs), Stage 2						
ED5600	Sewerage (300m & 9MHs), Stage 2						
ED5610	Drainage Works (773m & 34MHs), Stage 3						
ED5620	Sewerage (269m & 7MHs), Stage 3						
Waterpipe Laying							
EW5010	Fresh Water Main Laying (1660 m)						

Legend

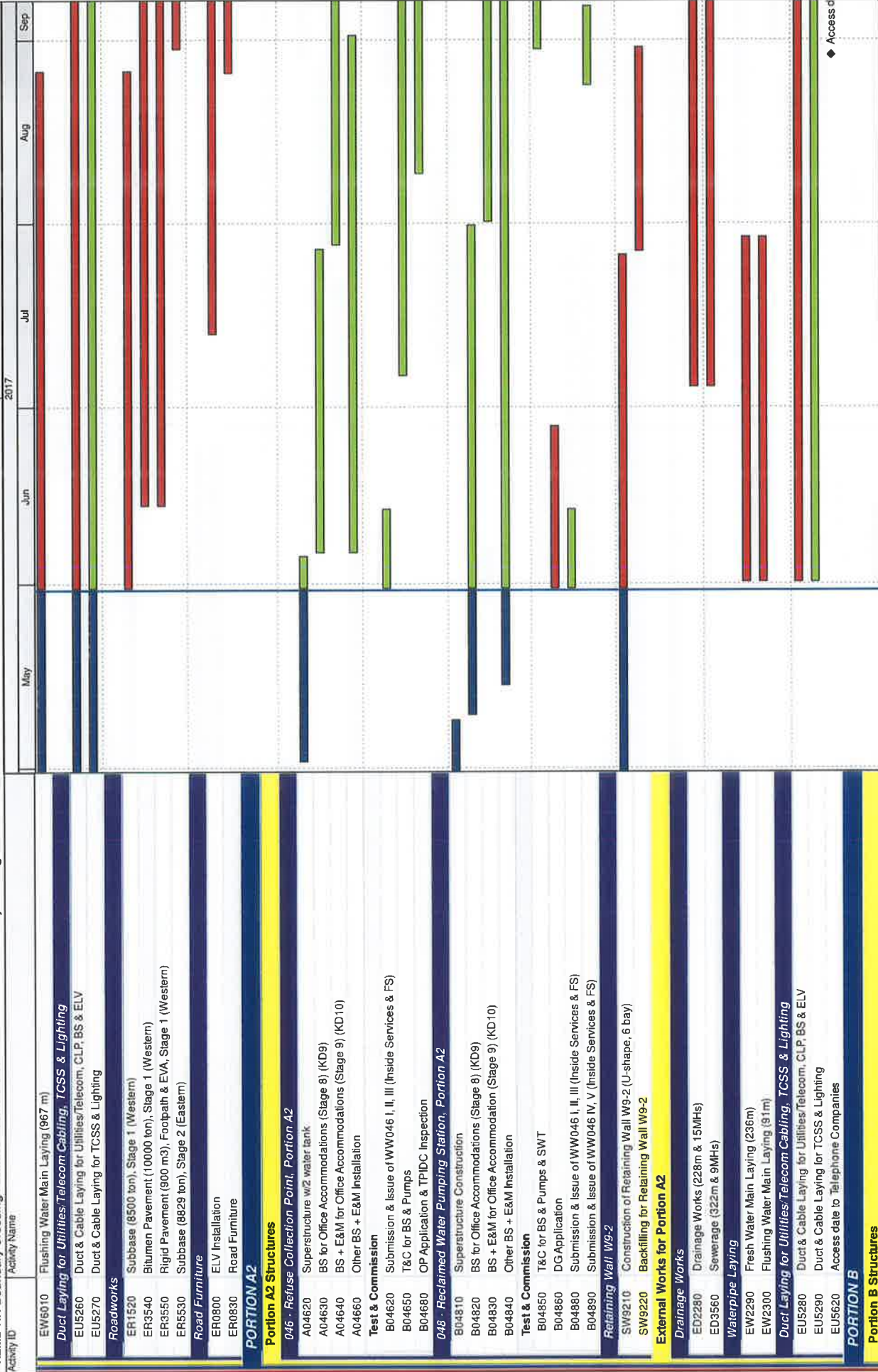
- █ Actual Work
- █ Remaining Work
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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
 Page 4 of 23

Date	Revision	Checked	Approved
31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17



THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Page 5 of 23

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█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
Retaining Wall W7-2						
S70890	Retaining Wall W7-2 Backfilling					
S70910	C3-S6 Slope works					
S70970	Retaining Wall W7-2 Parapet (2 pour) & E&M Works					
S70980	Retaining Wall W7-2 Drainage System & Cable Laying					
Retaining Wall W6-1						
S62060	Retaining Wall W6-1 Backfilling					
S62070	Retaining Wall W6-1 Parapet (8 pour) & E&M Works					
S62080	Retaining Wall W6-1 Drainage System & Cable Laying					
S62210	Retaining Wall W6-1 Bituminous Paving (347 ton) (KD25)					
Bay 25 - 29 of CUE/Staff Subway						
C02960	Internal Finishes & Cable Containment					
C02970	BS + E&M Installation for AVCSS					
Portion B Buildings						
027.028 Inbound Kiosks & 029 Outbound Kiosks						
A02720	Superstructure					
A02730	Construction of Subway Entrance					
A02740	Construction of Subway Toilets					
A02750	Finishing					
A02760	BS for Office Accommodation					
A02780	BS + E&M for AVCSS Works (KD18A)					
A02790	BS + E&M for AVCSS Cabling (KD18B)					
B02720	Other BS + E&M Installation					
Test & Commission						
B02810	T&C for BS & Pumps					
B02830	Submission & Issue of WW046 IV, V (Inside Services & FS)					
027.028 Inbound Kiosks & 029 Outbound Kiosks, Section IX, Subject to Exclusion						
B02750	Superstructure					
B02760	BS + E&M for AVCSS Works (KD18C)					
B02770	BS + E&M for AVCSS Works (KD18D)					
B02780	BS + E&M for allowing users to move in furniture (KD18E)					
Test & Commission						
D02730	Submission & Issue of WW046 IV, V (Inside Services & FS)					
026 Inbound IMMD and DOH Secondary Screening Building						
A02640	Finishing					
A02670	BS for Office Accommodation (Stage 8)					
A02680	BS + E&M for Office Accommodation (Stage 9)					
A02690	Other BS + E&M Installation					
Test & Commission						
B02630	Submission & Issue of WW046 IV, V (Inside Services & FS)					
B02650	TC for BS & Pumps					
054 Inbound Fixed X-ray Building						
A05460	Finishing					
A05467	Energisation by CLP					
A05480	BS + E&M for Office Accommodation (Stage 9)					
A05490	Other BS + E&M Installation					
Fuel Filling Station incl. BS & E/M						
B05490	All Works for Fuel Filling Station					
T&C and Statutory Inspection for Zone 4a						
B05400	BEO Stage II & Assessor Certification Submission					

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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
 Page 6 of 23

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

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
B05420	T&C for BS & Pumps						
B05460	DG Inspection						
Completion of Fire Services Installation and Equipment (FCD)							
F05450	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)						
Waterworks Ordinance (WSD)							
G05410	Approval Letter and approved Drawings						
G05430	Submission of WW046 - Part IV (Inside Services)						
038 AFCD Office							
A03850	Finishing + Curtain Wall Installation						
A03870	BS for Office Accommodation (Stage 8)						
A03880	BS + E&M for Office Accommodation (Stage 9)						
A03890	Other BS + E&M Installation						
Test & Commission							
B03810	T&C for BS & Pumps						
B03830	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B03880	Form 314 & 501 submission						
C03820	Form 2 Submission						
C03830	Lift Inspection by EMSD						
C03850	FSD Inspection						
C03860	BEE0 Stage II & Assessor Certification Submission						
039 Police Main Building							
A03940	Finishing + Curtain Wall Installation						
A03950	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)						
A03960	BS + E&M for Office Accommodation (Stage 9)						
Fuel Filling Station incl. BS & E/M							
B03910	All Works for Fuel Filling Station						
Test & Commission							
B03920	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
B03930	Submission & Issue of WW046 IV, V (Inside Services & FS)						
B03940	BEE0 Stage II & Assessor Certification Submission						
B03950	Beam Plus Monthly Submission & Issue						
C03920	DG Inspection						
C03950	Form 2 Submission						
C03970	T&C for BS & Pumps						
040 Incident Control Tower							
A04050	Finishing (KD9)						
A04060	BS for Office Accommodation (Stage 8), & for TCSS works (KD14)						
A04070	BS + E&M for Office Accommodation (Stage 9)						
Facade Cladding System							
B04040	Steel Frame Installation						
B04050	Cladding Panel Installation						
Glass Wall							
C04020	Fabrication of Glass Wall						
C04040	Steel Frame Installation						
Test & Commission							
D04010	Form 314 & 501 submission						
D04030	T&C for BS & Pumps						
D04040	Form 2 Submission						
D04050	Lift Inspection by EMSD						
102 HKPF UVSS Monitor Room							

Date	Revision	Checked	Approved
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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- Actual Work
- Remaining Work
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- ◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
A10230	Finishing (False Ceiling) (KD9)						
A10240	BS for Office Accommodation (Stage 8)						
A10260	BS + E&M for Office Accommodation (Stage 9)						
A10270	Other BS + E&M Installation						
C10210	WVO 46 Part I, II, III Submission (inside Service + FS)						
	Metal Canopy and Roof Installation						
B10230	Steel Frame Installation						
B10240	Glass panel, metal cladding panel installation						
	103 Police Inspection Post						
A10350	Finishing (False Ceiling) (KD9)						
A10360	BS for Office Accommodation (Stage 8)						
A10370	BS + E&M for Office Accommodation (Stage 9)						
A10380	Other BS + E&M Installation						
C10310	T&C for BS & Pumps						
C10320	WVO 46 Part I, II, III Submission (inside Service + FS)						
C10330	WVO 46 Part IV, V Submission (inside Service + FS)						
C10340	WSD inspection						
	HPL Composite Panel Cladding System						
B10320	Fabrication of HPL Cladding						
B10330	Casied-in Items Installation						
B10340	Steel Frame Installation						
B10350	HPL Cladding Panel Installation						
	057 Transformers (Zone 2)						
A05740	Finishing						
A05755	Energisation by CLP						
A05770	BS + E&M for Office Accommodation (Stage 9)						
A05780	Other BS + E&M Installation						
	Fuel Filling Station incl. BS & E/M						
A05790	All Works for Fuel Filling Station						
	T&C and Statutory Inspection for Zone 2a & 2b						
C05700	T&C for BS & Pumps						
F05700	Essential T&C (FSI)						
F05710	Non-Essential T&C (Non-FSI)						
F05720	OP Application & TPIDC Inspection						
	Completion of Fire Services Installation and Equipment (FCD)						
F05740	Provision of Approved Building Plans by the Engineer						
F05750	Application for FSI Inspection (FSI/501) c/w FSI Plan (FSI/314)						
F05760	Provision of Direct Link for Fire Alarm System by Chubb						
F05770	FSI Inspection (2 Trials)						
	DG License & EPD Generator Approval						
G05710	Approval Letter and approved Drawings						
G05720	DG License Application						
	107 - C&ED Mobile X-ray Operation Office (Cargo), Portion B						
C10740	Finishing						
C10750	BS for Office Accommodation (Stage 8)						
C10760	BS + E&M for Office Accommodation (Stage 9)						
C10770	Other BS + E&M Installation						
C10780	T&C for BS & Pumps						
C10790	TPIDC Inspection						
	113 - Field Kiosk for Access Control, Portion B						

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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

■ Actual Work
■ Remaining Work
■ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
B11330	Superstructure (Roof Beams & Slabs)						
B11340	Finishing						
B11350	BS for Office Accommodation (Stage 8)						
B11360	BS + E&M for Office Accommodation (Stage 9)						
B11370	Other BS + E&M Installation						
B11380	T&C for BS & Pumps						
B11390	TPIDC Inspection						
ER5850	201 - Inbound Cargo Mobile X-ray Operation Area						
ER5850	Construction of the Area and Access to the Interface Contractor						
ER5860	205 - Inbound Private Car Mobile X-ray Operation Area						
ER5860	Construction of the Area and Access to the Interface Contractor						
External Works for Portion B							
Works in Location 1.7A							
BB1480	ELV Works & T&C in Location 1.7A						
Works in Location 1.7B							
BB1490	ELV Works & T&C in Location 1.7B						
Drainage Works							
ED5690	Drainage Works (1130m & 60MHs), Stage 4 (N/E)						
ED5700	Severage (300m & 82MHs), Stage 4 (N/E)						
Waterpipe Laying							
EW6100	Fresh Water Main Laying (1000m), Stage 3						
EW6110	Flushing Water Main Laying (931m), Stage 3						
EW6190	Chilled Water Pipe Laying in Portion B (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5300	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5310	Duct & Cable Laying for TCSS & Lighting						
EU5550	ELV Installation						
EU5630	Access date to Telephone Companies						
Roadworks							
ER1640	Subbase (21000 ton), Stage 1						
ER3590	Bitumen Pavement (30000 ton), Stage 1						
ER3600	Rigid Pavement (1188 m3), Footpath & EVA, Stage 1						
ER5590	Subbase (22152 ton), Stage 2						
ER5600	Bitumen Pavement (31126 ton), Stage 2						
ER5610	Rigid Pavement (1188 m3), Footpath & EVA, Stage 2						
Road Furniture							
ER1620	Road Furniture						
Sign Gantry ADS 306A & ADS 306B							
ES5240	Fabrication & Delivery of Sign Gantries to Site						
PORTION C							
Portion C Buildings							
010 - Inbound Coach Kiosk & Staff Subway Entrance (Subway Deleted)							
A01020	Base Slab & Kiosk superstructure						
A01030	BS + E&M for AVCSS works (KD18A)						
009 - Staff Subway Entrance (Bay 0 - 3) & Shuttle Bus Kiosks							
B00920	Kiosk superstructure						
B00930	BS + E&M for AVCSS works (KD18A)						
B00940	BS + E&M for AVCSS Cabling (KD18B)						
B00970	BS + E&M for Office Accommodation (Stage 9) (KD10)						

◆ Access date to Telephone Companies

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Remaining Work	31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	ZJ
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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
C00920 T&C for BS & Pumps						
B01210	Excavation & Blinding					
B01220	Raft Foundation					
B01230	Superstructure					
B01240	Finishing					
B01270	BS for Office Accommodation (KD 9)					
B01290	Other BS + E&M Installation					
Test & Commission						
E01210	Submission of WWO46 - Part I, II, III (Inside Services + FS)					
E01260	TPIDC Inspection					
104 - DOH Secondary Screening Station, at Portion C						
A10420	Excavation & Blinding					
A10430	Substructure					
A10435	Finishing					
A10440	BS for Office Accommodation (Stage 8)					
B10410	Other BS + E&M Installation					
Facade Cladding System						
A10465	Fabrication of F/C System					
A10470	Casted-in Items Installation					
A10480	Steel Frame Installation					
108 C&ED Mobile X-ray Machine Operation Office, Portion C						
A10805	Excavation & Blinding					
A10810	Raft Foundation					
A10840	Superstructure (Roof Beams & Slabs)					
A10850	Finishing					
A10860	BS for Office Accommodation (Stage 8)					
A10890	Other BS + E&M Installation					
F10830	T&C for BS & Pumps					
HPL Composite Panel Cladding System						
A10815	Fabrication of HPL Cladding					
A10820	Casted-in Items Installation					
A10830	Steel Frame Installation					
110 IMMD Guard Booth (Type 2) East						
A11020	Excavation & Blinding					
A11030	RC structure					
A11080	Finishing					
A11090	BS for Office Accommodation (Stage 8)					
B11010	BS + E&M for Office Accommodation (Stage 9)					
B11020	Other BS + E&M Installation					
B11030	T&C for BS & Pumps					
B11050	TPIDC Inspection					
Facade Envelop Structure Installation						
A11045	Fabrication of F/C System					
A11050	Casted-in Items Installation					
A11060	Steel Frame Installation					
110 IMMD Guard Booth (Type 2) West						
C11010	Excavation & Blinding					
C11020	Substructure					
C11030	Finishing					

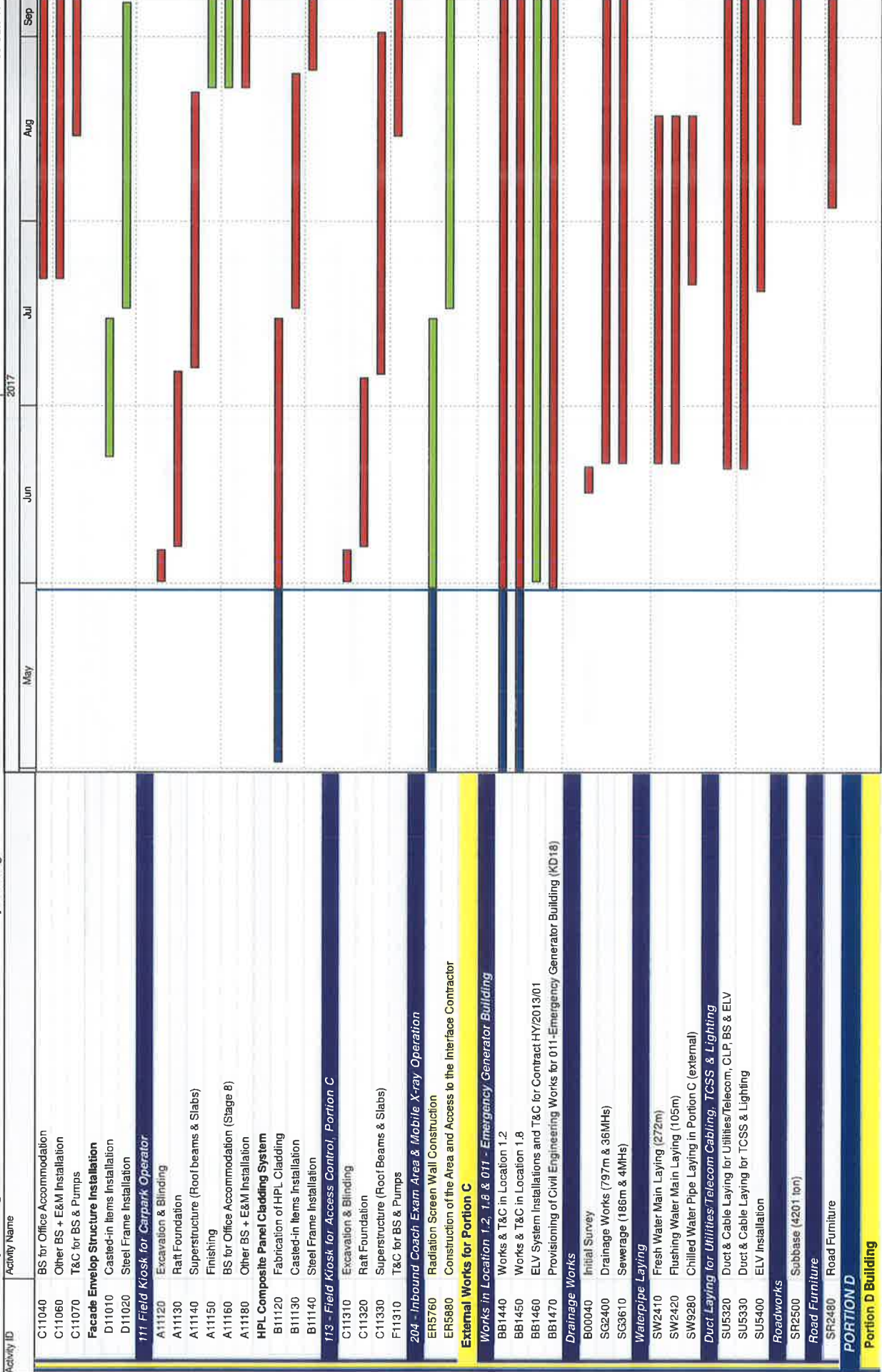
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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17



THREE MONTH ROLLING PROGRAMME		VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
114 - Field Kiosk for Access Control, Portion D							
C11360	Raft Foundation						
C11370	Superstructure (Roof Beams & Slabs)						
C11380	Finishing						
D11340	BS for Office Accommodation (Stage 8)						
D11350	BS + E&M for Office Accommodation (Stage 9)						
D11360	Other BS + E&M Installation						
F11350	T&C for BS & Pumps						
External Works for Portion D							
Drainage Works							
SG3640	Drainage Works (861m & 14MHs)						
SG3760	Sewerage (121m & 6MHs)						
Waterpipe Laying							
SW3650	Fresh Water Main Laying (108m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
B11480	ELV System Installation for Contract HY2013/02						
SU5350	Duct & Cable Laying for TCSS & Lighting						
SU5640	Access date to Telephone Companies						
Roadworks							
SR3740	Subbase (261 ton)						
SR3770	Bitumen Pavement (619 ton)						
PORTION E							
005 - Shuttle Bus Kiosk & Staff Subway Entrance, at Portion E & M							
A00630	Constructing wall stem + top slab of Subway						
A00640	Backfilling & Surcharge						
A00650	Constructing Ground Slab						
A00660	Constructing Kiosk (4 Nr.)						
A00670	Constructing Subway Entrance						
External Works for Portion E							
Drainage Works							
SG3780	Drainage Works (99m & 5MHs)						
SG3900	Sewerage (38m & 1 MH)						
Waterpipe Laying							
SW3790	Fresh Water Main Laying (45m)						
SW3800	Flushing Water Main Laying (25m)						
Roadworks							
SR3880	Subbase (1659 ton)						
SR3910	Bitumen Pavement (2105 ton)						
SR3920	Rigid Pavement (180 m3)						
PORTION F							
External Works for Portion F							
Drainage Works							
B00070	Initial Survey						
SG3930	Drainage Works (122m & 9MHs)						
SG4050	Sewerage (70m & 3MHs)						
Waterpipe Laying							
SW3940	Fresh Water Main Laying (205m)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
SU5380	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						

THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

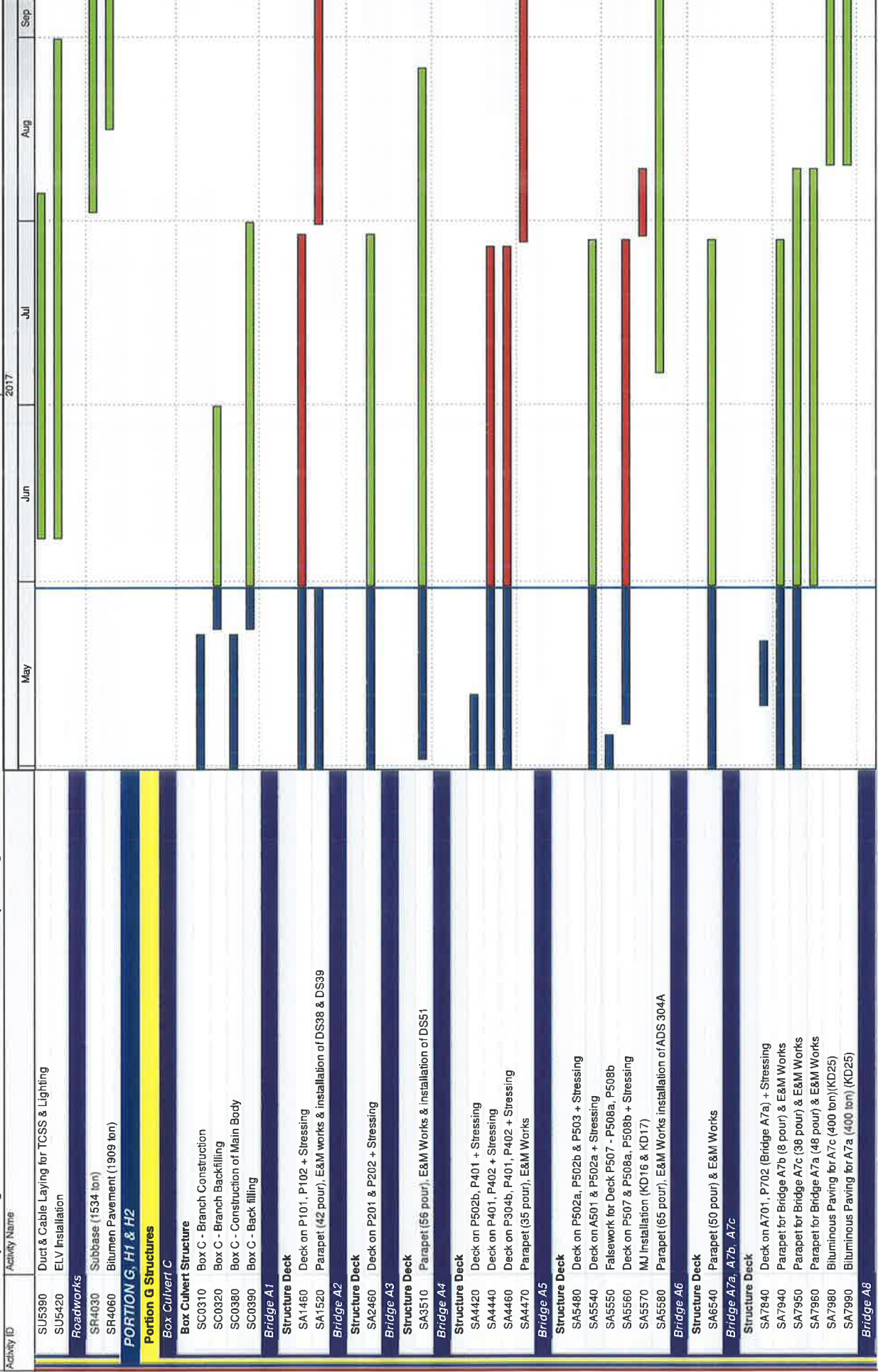
Page 12 of 23

Date	Revision	Checked	Approved
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17



THREE MONTH ROLLING PROGRAMME		VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES	
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Page 13 of 23

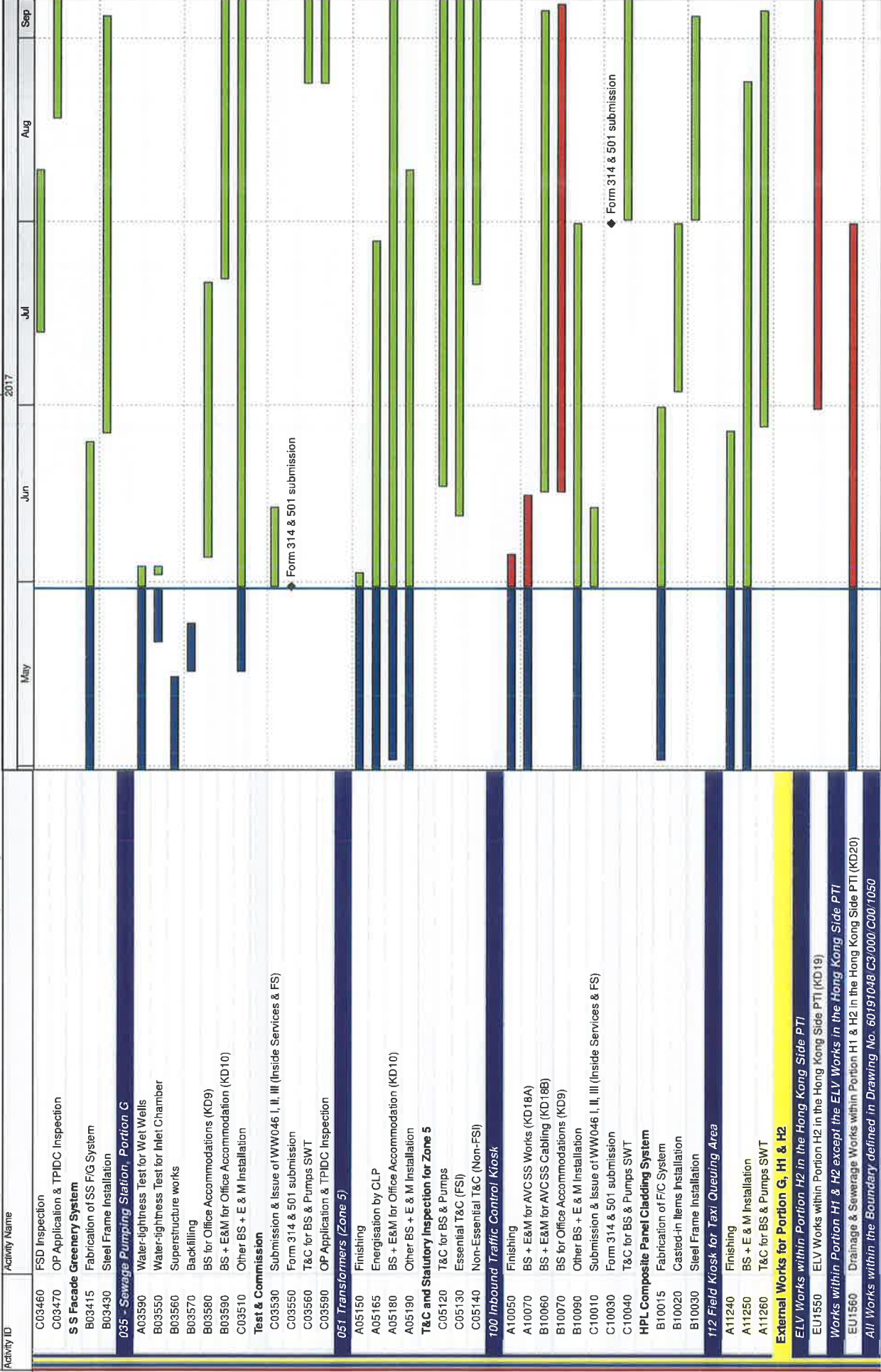
HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
Structure Deck							
SAB470	Parapet (26 Pour) & E&M works						
Retaining Walls W1-1, W3-1, W5-1 & W7-1							
Retaining Wall W1-1							
SW1110	Construction of Retaining Wall W1-1 (L-shape, 4 bays)						
SW1120	Retaining Wall W1 -1 Backfilling						
SW1122	Slope C3-S3 Construction						
Retaining Wall W3-1							
SW3150	Construction of Retaining Wall W3-1 (U-shape, 4 bays)						
SW3160	Backfilling W3-1						
SW3165	Slope C3-S4 Construction						
Retaining Wall W5-1							
SW5010	Construction of Retaining Wall W5-1 (L-shape, 5 bays)						
Retaining Wall W7-1							
SW7110	Construction of Retaining Wall W7-1 (U-shape, 4 bays)						
Portion G Buildings							
002 - C&ED Observation Guard Booth No. 1, Portion H1							
C00220	Excavation + Blinding						
C00230	Raft Foundation						
C00240	Superstructure						
002 - C&ED Observation Guard Booth No. 2, Portion H1							
E00210	Excavation + Blinding						
E00220	Raft Foundation						
E00230	Superstructure						
003 Inbound Private Car Exam Building							
A03330	Finishing						
A03360	External Works						
A03370	BS for Office Accommodation (Stage 8)						
A03380	BS + E&M for Office Accommodation (Stage 9)						
A03390	Other BS + E&M Installation						
C03310	Submission & Issue of WW046 I, II, III (Inside Services & FS)						
C03330	BEEC Stage II & Assessor Certification Submission						
C03360	T&C for BS & Pumps						
C03390	OP Application & TPIDC Inspection						
Glass Canopy Installation							
B03305	Fabrication of Glass Canopy						
B03360	Steel Frame Installation						
B03370	Glass Panel Installation						
Aluminium Metal Canopy							
B03330	Steel Frame Installation						
B03340	Aluminium Cladding Installation						
004 Satellite RCP South							
A03450	Finishing						
A03470	BS + E&M for Office Accommodation (Stage 9)						
A03480	Other BS + E&M Installation						
Test & Commission							
C03420	Submission & Issue of WW046 IV, V (Inside Services & FS)						
C03430	Form 314 & 501 submission						
C03440	T&C for BS & Pumps						
C03450	WSD Inspection						

THREE MONTH ROLLING PROGRAMME		Date	Revision	Checked	Approved
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES		31-Mar-17	3MRP updated as of 31 Mar. 2017	ZJ	
Page 14 of 23		30-Apr-17	3MRP updated as of 30 Apr. 2017	ZJ	
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17



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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
BEU1570	Drainage & Sewerage Works (incl. CLP) within the Boundary defined in Drawing No. 60191048/C3/000/1050					
BEU1580	Roadworks within the Boundary defined in Drawing No. 60191048/C3/000/1050, excluding Portion H1 & H2 & Bridges (KD24)					
Drainage Works						
ED4070	Drainage Works (6954m & 393MHs)					
ED4190	Sewerage (437m & 12MHs)					
Waterpipe Laying						
EW4080	Fresh Water Main Laying (1689m)					
EW4090	Flushing Water Main Laying (411m)					
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting						
EU5410	Duct & Cable Laying for TCSS & Lighting					
EU5560	ELV Installation					
Roadworks						
ER4170	Subbase (17045 ton)					
ER4200	Bitumen Pavement (24549 ton)					
ER4210	Rigid Pavement (514 m3), Footpath & EVA					
Road Furniture						
ER4150	Road Furniture					
Sign Gantry DS40, DS41 & DS75						
ES0180	Fabrication & Delivery of Sign Gantries to Site					
ES0190	Erection of Sign Gantry					
Canopy and Covered Walkway						
CC1320	Footing					
CC1330	Steel Frame Installation					
PORTION J						
Portion J Structure						
Bay 30 - 41 of CUE Staff Subway (Portion J)						
B03260	Internal Finishes & Cable Containment (KD2)					
B03270	BS + E&M Installation for AVCSS (Stage 2) (KD2)					
030 Outbound Private Car & GV Kiosks						
A03020	Pre-fabrication for the Steel Kiosks					
A03030	Superstructure (Incl. Entrance & Toilet)					
A03050	Finishing					
A03060	BS + E&M for AVCSS Works (KD18B)					
A03070	BS for Office Accommodations (KD9)					
A03090	Other BS + E & M Installation					
030 Outbound Kiosks, Section IX, Subject to Excision						
C03020	Pre-fabrication for the Steel Kiosks					
C03030	Superstructure					
C03040	BS + E&M for AVCSS Works (KD18C) & Finishing					
Portion J Buildings						
024 Outbound Private Car Exam Building						
A02440	BS for Office Accommodations (KD18F)					
A02450	BS + E&M for Office Accommodation (KD18G)					
A02460	Other BS + E & M Installation (KD31)					
Test & Commission						
D02410	Submission & Issue of WW046 I, II, III (Inside Services & FS)					
D02460	T&C for BS & Pumps					

Actual Work	Remaining Work	Critical	Milestone
Actual Work	Remaining Work	Critical	Milestone

**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

2017

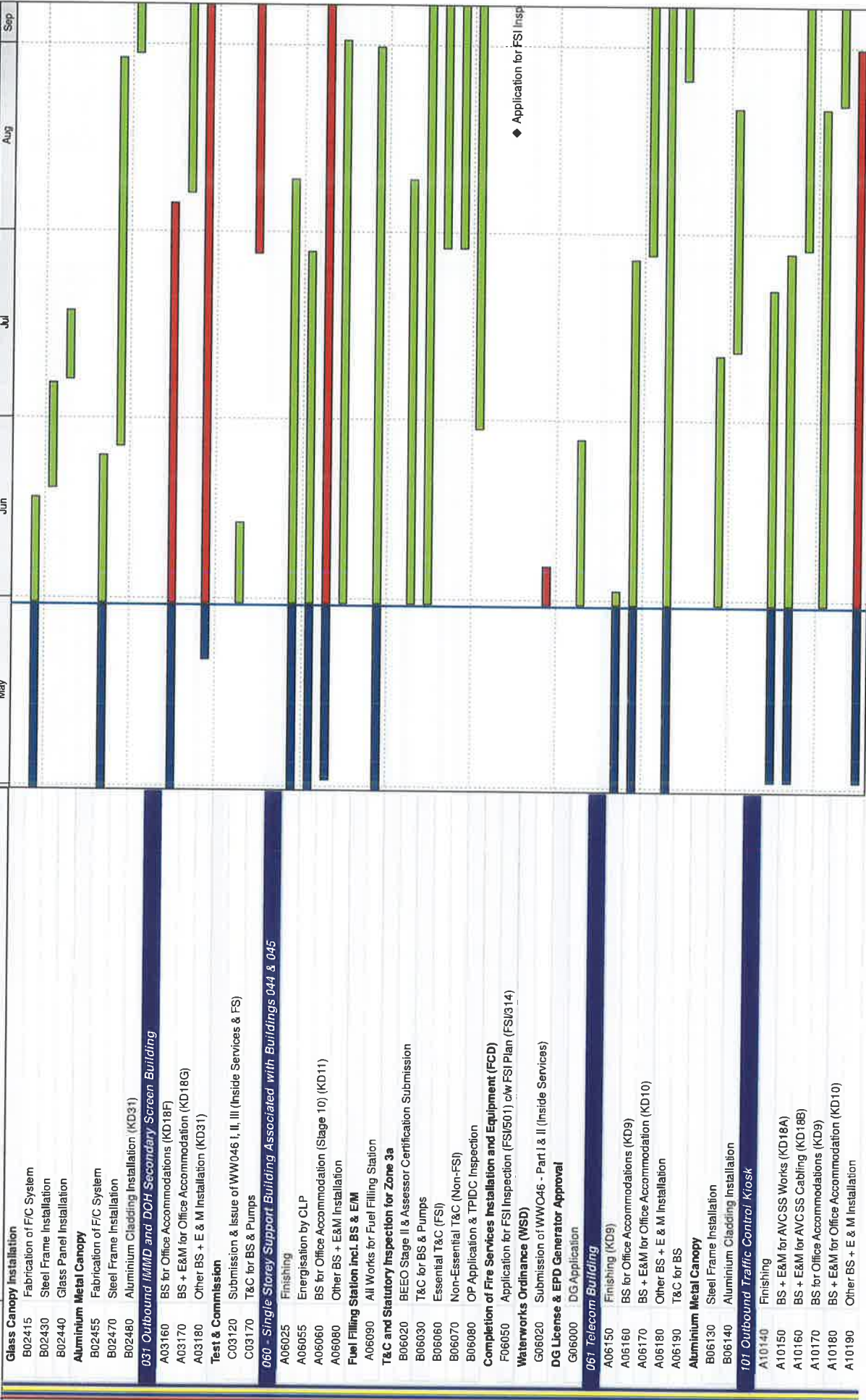
May

Jun

Jul

Aug

Sep



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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- Actual Work
- Remaining Work
- Critical
- ◆ Milestone

◆ Application for FSI Insp

Activity ID	Activity Name	2017					05-Jun-17
		May	Jun	Jul	Aug	Sep	
C10110	Submission of WWO46 - Part I & II (Inside Services)						
C10120	Submission of WWO46 - Part IV (Inside Services)						
HPL Composite Panel Cladding System							
B10120	Fabrication of HPL Cladding						
B10140	Steel Frame Installation						
206 - Outbound Private Car Mobile X-ray Operation Area							
ER5780	Radiation Screen Wall Construction						
ER5800	Construction of the Area and Access to the Interface Contractor						
External Works for Portion J							
Works in Location 1.7B							
EU1500	ELV Works & T&C in Location 1.7B						
Works in Location 1.7C							
EU1530	ELV Works & T&C in Location 1.7C						
Drainage Works							
ED4220	Drainage Works (1700m & 86MHs), Stage 1						
ED4340	Sewerage (425m & 11MHs), Stage 1						
ED5710	Drainage Works (1697m & 85MHs), Stage 2						
ED5720	Sewerage (425m & 12MHs), Stage 2						
Waterpipe Laying							
EW4230	Fresh Water Main Laying (1541m)						
EW4240	Flushing Water Main Laying (862m)						
SW9290	Chilled Water Pipe Laying in Portion J (external)						
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting							
EU5420	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5430	Duct & Cable Laying for TCSS & Lighting						
EU5570	ELV Installation						
Roadworks							
ER4320	Subbase (15400 ton), Stage 1 (Northern)						
ER4350	Bitumen Pavement (20000 ton), Stage 1 (Northern)						
ER4360	Rigid Pavement (173 m3), Footpath & EVA, Stage 1 (Northern)						
ER5680	Subbase (15409 ton), Stage 2 (Southern)						
Road Furniture							
ER4300	Road Furniture (KD25)						
Sign Gantry DS104							
ESS130	Testing for P-bored Piles						
ESS150	Fabrication & Delivery of Sign Gantries to Site						
ESS160	Erection of Sign Gantry						
PORTION K, L, M, S & T							
Portion K Building							
002 - C&ED Observation Guard Booth No. 1, Portion K							
A00210	Excavation + Blinding						
A00220	Raft Foundation						
A00230	Superstructure						
A00240	Finishing						
A00250	BS for Office Accommodations (Degree of Completion 2)						
A00270	Other BS + E & M Installation						
002 - C&ED Observation Guard Booth No. 2, Portion K							
B00210	Excavation + Blinding						
B00220	Raft Foundation						

Actual Work	Remaining Work	Critical	Milestone

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THREE MONTH ROLLING PROGRAMME

VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES

Page 18 of 23

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
B00230	Superstructure						
B00240	Finishing						
B00250	BS for Office Accommodations (Degree of Completion 2)						
B00270	Other BS + E & M Installation						
Portion M Buildings							
108 - C&ED Mobile X-ray Operation Office, Portion M							
B10800	Excavation + Blinding						
B10810	Substructure (raft Foundation)						
B10840	Superstructure (Roof beams & Slabs)						
B10850	Finishing						
B10860	BS for Office Accommodations (KD9)						
B10880	Other BS + E & M Installation						
HPL Composite Panel Cladding System							
C10820	Fabrication of HPL Cladding						
C10830	Casted-in Items Installation						
C10840	Steel Frame Installation						
104 DOH Screening Station, at Portion M							
C10430	Structure (Raft Foundation)						
C10440	Finishing						
C10450	BS for Office Accommodations (KD9)						
C10460	BS + E&M for Office Accommodation (KD10)						
C10470	Other BS + E & M Installation						
Facade Envelop Structure Installation							
D10455	Fabrication of FC System						
D10460	Casted-in Items Installation						
D10470	Steel Frame Installation						
203 - Outbound Coach/Shuttle Bus Exam Area & Mobile X-ray Operation Area							
ER5770	Radiation Screen Wall Construction						
ER5870	Construction of the Area and Access to the Interface Contractor						
External Works							
Additional Works (Filling & RE Slope), SAR							
ED3230	C1 Contractor to Completed cooling mains at east Portion (Stage 2)						
ED3232	C2 provide access to north slope at Portion K						
ED3233	Temp. access at north slope						
ED3234	Removal of temp. access at east slope						
ED3310	C1 Contractor to Complete Handover the South Portion						
ED3320	Fill Platform from +1.5PD to near PCB (South)						
ED3330	Add surcharge to Platform at +14.5mPD near PCB (South)						
ED3332	Consolidation of fill at the Platform (South East)						
ED3334	Remove surcharge at the Platform (South East)						
ED3336	Construct Rock Fill Slope near PCB (South East)						
ED3338	Consolidation of fill at the Platform (South West)						
ED3410	C2 Contractor to complete abutment at the North (2 nos.)						
ED3420	Fill Slope around C2 abutments						
Construction of Slopes							
ED3520	Construct RE slope (West)						
ED3550	Construction of fill slope (North)						
Drainage Works							
ED4370	Drainage Works (2129m & 102MHs)						
Waterpipe Laying							

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**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

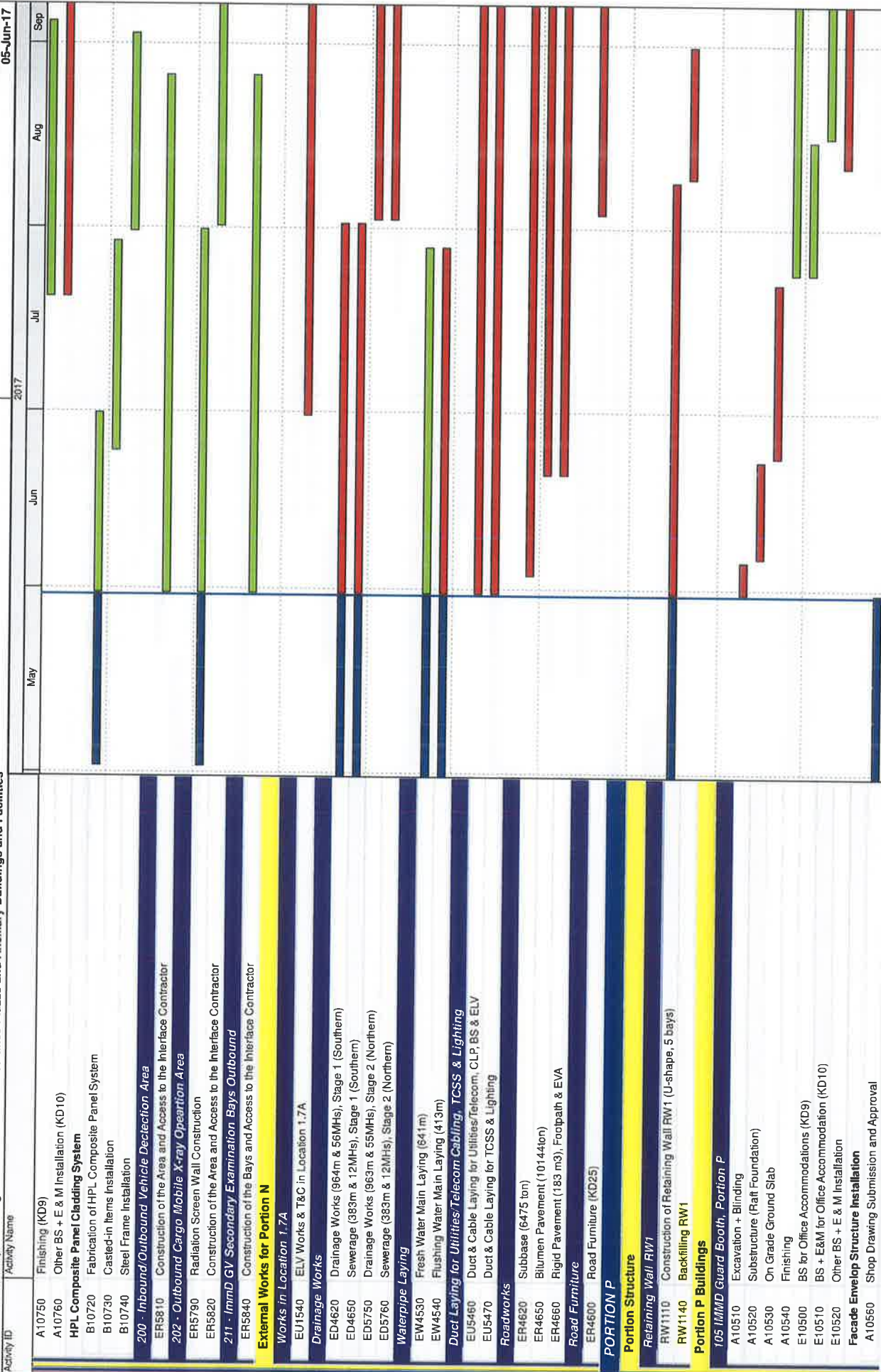
HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities		2017				05-Jun-17
Activity ID	Activity Name	May	Jun	Jul	Aug	Sep
EW4380	Fresh Water Main Laying (1216m)					
EU5440	Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
EU5450	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV					
EU5450	Duct & Cable Laying for TCSS & Lighting					
Roadworks						
ER5710	Subbase (9225 ton)					
ER5720	Bitumen Pavement (9102 ton)					
ER5730	Rigid Pavement (1525 m3) & Footpath					
Canopy and Covered Walkway						
CC1400	Shop drawing, Approved & Fabrication					
CC1410	Forming					
CC1420	Steel Frame Installation					
Road Furniture						
ER4450	Road Furniture (KD25)					
PORTION N						
Box Culvert B						
Bored Pile						
SB0590	Box B - Foundation: Revised as pre-bored H-Piles					
Box Culvert Structure						
SB0710	Box B - Construction (Stage 1)					
SB0720	Box B - Construction (Stage 2)					
SB0722	Box B - Temporary Works for Construction of Outfall Structure					
SB0730	Box B - Outfall Structure					
SB0750	Box B - Backfilling					
Portion N Buildings						
104 DOH Screening Station, at Portion N						
C10410	Structure (Rat Foundation)					
C10420	Finishing					
E10410	BS for Office Accommodations (KD9)					
E10430	Other BS + E + M Installation					
Facade Envelop Structure Installation						
D10415	Fabrication of F/C System					
D10420	Casted-in Items Installation					
D10430	Steel Frame Installation					
106 C&ED Deletion Area Guard Booth						
A10600	Excavation + Blinding					
A10610	Structure (Rat Foundation)					
A10640	Finishing					
E10640	BS for Office Accommodations (KD9)					
E10660	Other BS + E + M Installation					
Facade Envelop Structure Installation						
B10615	Fabrication of F/C System					
B10620	Casted-in Items Installation					
B10630	Steel Frame Installation					
107 C&ED Mobile X-ray Operation Office, Portion N						
A10700	Excavation + Blinding					
A10710	Substructure (Rat Foundation)					
A10740	Superstructure					

THREE MONTH ROLLING PROGRAMME
 VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
 Page 20 of 23

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Contract No.: HY2013/03

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities



Activity ID	Activity Name	2017	2018	2019	2020	2021	2022	2023
A10750	Finishing (KD9)							
A10760	Other BS + E & M Installation (KD10)							
B10720	Fabrication of HPL Composite Panel System							
B10730	Casted-in Items Installation							
B10740	Steel Frame Installation							
200	Inbound/Outbound Vehicle Detection Area							
ER5810	Construction of the Area and Access to the Interface Contractor							
ER5790	Radiation Screen Wall Construction							
ER5820	Construction of the Area and Access to the Interface Contractor							
211	ImmD GV Secondary Examination Bays Outbound							
ER5840	Construction of the Bays and Access to the Interface Contractor							
External Works for Portion N								
Works in Location 1.7A								
EU1540	ELV Works & T&C in Location 1.7A							
Drainage Works								
ED4620	Drainage Works (964m & 56MHs), Stage 1 (Southern)							
ED4650	Sewerage (383m & 12MHs), Stage 1 (Southern)							
ED5750	Drainage Works (963m & 55MHs), Stage 2 (Northern)							
ED5760	Sewerage (383m & 12MHs), Stage 2 (Northern)							
Waterpipe Laying								
EW4530	Fresh Water Main Laying (641m)							
EW4540	Flushing Water Main Laying (413m)							
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting								
EU5460	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV							
EU5470	Duct & Cable Laying for TCSS & Lighting							
Roadworks								
ER4620	Subbase (6475 ton)							
ER4650	Bitumen Pavement (10144ton)							
ER4660	Rigid Pavement (183 m3), Footpath & EVA							
Road Furniture								
ER4600	Road Furniture (KD25)							
Portion P								
Portion Structure								
Retaining Wall RW1								
RW1110	Construction of Retaining Wall RW1 (U-shape, 5 bays)							
RW1140	Backfilling RW1							
Portion P Buildings								
105 ImmD Guard Booth, Portion P								
A10510	Excavation + Blinding							
A10520	Substructure (Raft Foundation)							
A10530	On Grade Ground Slab							
A10540	Finishing							
E10500	BS for Office Accommodations (KD9)							
E10510	BS + E&M for Office Accommodation (KD10)							
E10520	Other BS + E & M Installation							
Facade Envelop Structure Installation								
A10560	Shop Drawing Submission and Approval							

**THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES**

- Actual Work
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HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

Activity ID	Activity Name	2017	May	Jun	Jul	Aug	Sep
A10570	Casted-in Items Installation						
A10580	Steel Frame Installation						
A10590	Envelop Cladding and Roofing Panel Installation						
External Works for Portion P							
<i>Drainage Works</i>							
ED4670	Drainage Works (2957m & 128MHs)						
ED4790	Sewerage (269m & 7MHs)						
<i>Waterpipe Laying</i>							
EW4680	Fresh Water Main Laying (1270m)						
EW4690	Flushing Water Main Laying (455m)						
<i>Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting</i>							
EU5480	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
EU5600	ELV Installation						
EU5640	Access date to Telephone Companies						
<i>Roadworks</i>							
ER4770	Subbase (16519 ton)						
ER4800	Bitumen Pavement (23958 ton)						
ER4810	Rigid Pavement (220 m3), Footpath & EVA						
<i>Road Furniture</i>							
ER4750	Road Furniture						
PORTION Q							
External Works for Portion Q							
<i>Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting</i>							
ED5570	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV						
ED5580	Duct & Cable Laying for TCSS & Lighting						
EU1490	ELV System Installation for Contract HY/2013/04						
<i>Roadworks</i>							
AS0170	Initial Survey						
AS1810	C3-S1 Slope Construction						
AS1820	C3-S2 Slope Construction						
ER4920	Subbase (104 ton)						
ER4950	Bitumen Pavement (215 ton)						
PORTION R							
Portion R Building							
<i>002 - C&ED Observation Guard Booth, Portion R</i>							
D00210	Excavation + Blinding						
D00220	Raft Foundation						
D00230	Superstructure						
D00240	Finishing						
D00250	BS for Office Accommodations (KD10)						
D00260	BS + E&M for Office Accommodation (KD10)						
D00270	Other BS + E & M Installation						
External Works for Portion R							
<i>Drainage Works</i>							
AS0180	Initial Survey						
ED4960	Drainage Works (1040m & 70MHs)						
ED5080	Sewerage (272m & 7MHs)						
<i>Waterpipe Laying</i>							
EW4970	Fresh Water Main Laying (614m)						

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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
 Page 22 of 23

█ Actual Work
█ Remaining Work
█ Critical
◆ Milestone

HZMB HK Boundary Crossing Facilities - Vehicle Clearance Plazas and Ancillary Buildings and Facilities

05-Jun-17

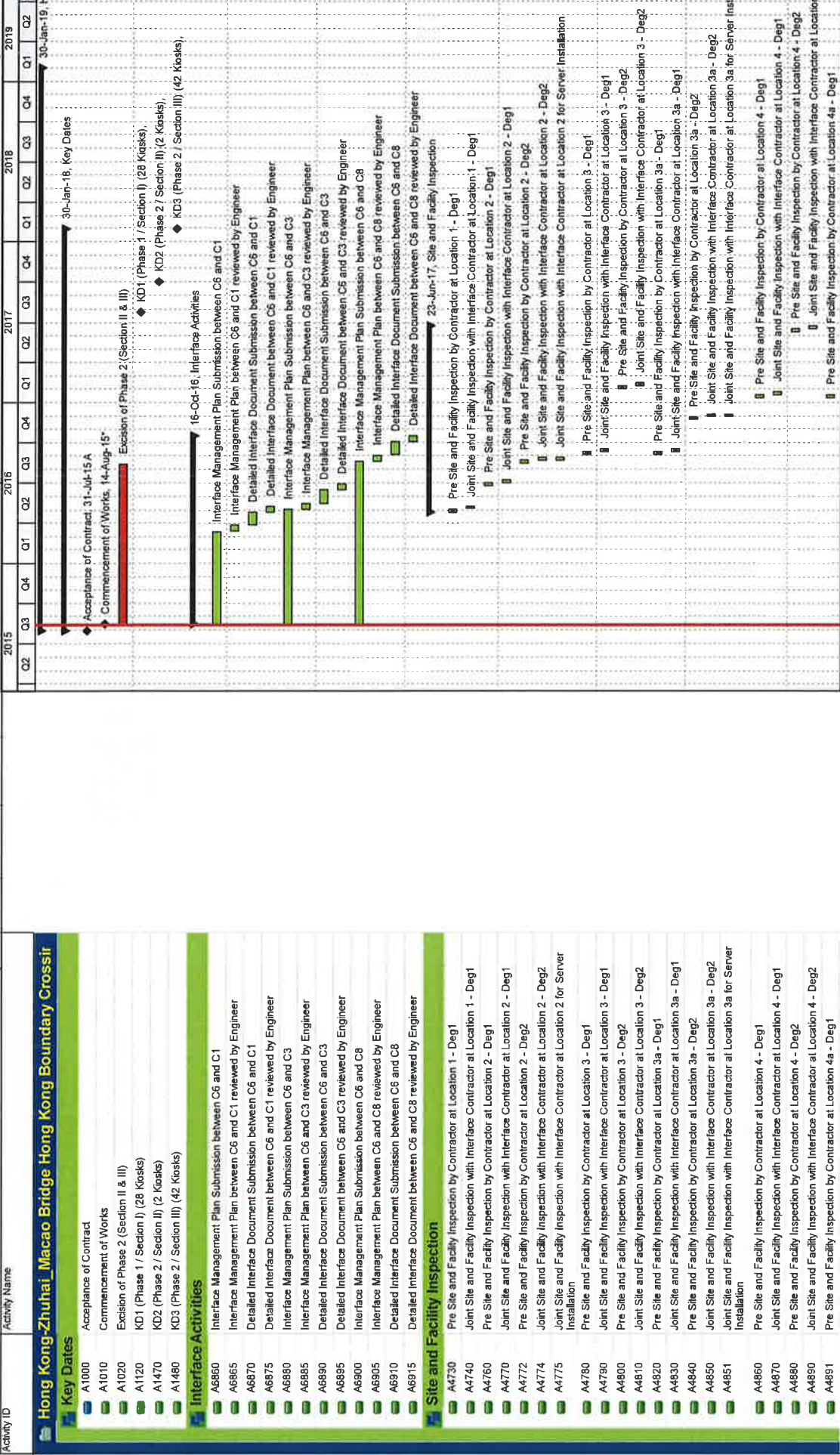
Activity ID	Activity Name	2017			
		May	Jun	Jul	Aug
EW4980	Flushing Water Main Laying (222m)				
Duct Laying for Utilities/Telecom Cabling, TCSS & Lighting					
EUS500	Duct & Cable Laying for Utilities/Telecom, CLP, BS & ELV				
EUS510	Duct & Cable Laying for TCSS & Lighting				
Roadworks					
ERS060	Subbase (1734 ton)				
Landscape Works					
A5170	Design and Procurement for Irrigation System				
A5190	All landscape Soft & Hard Works				



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THREE MONTH ROLLING PROGRAMME
VEHICLE CLEARANCE PLAZAS AND ANCILLARY BUILDINGS AND FACILITIES
 Page 23 of 23

- Actual Work
- Remaining Work
- Critical
- ◆ Milestone



Activity ID	Activity Name
Key Dates	
A1000	Acceptance of Contract
A1010	Commencement of Works
A1020	Excision of Phase 2 (Section II & III)
A1120	KD1 (Phase 1 / Section I) (28 Kiosks)
A1470	KD2 (Phase 2 / Section II) (2 Kiosks)
A1480	KD3 (Phase 2 / Section III) (42 Kiosks)
Interface Activities	
A6860	Interface Management Plan Submission between C6 and C1
A6865	Interface Management Plan between C6 and C1 reviewed by Engineer
A6870	Detailed Interface Document Submission between C6 and C1
A6875	Detailed Interface Document between C6 and C1 reviewed by Engineer
A6880	Interface Management Plan Submission between C6 and C3
A6885	Interface Management Plan between C6 and C3 reviewed by Engineer
A6890	Detailed Interface Document Submission between C6 and C3
A6895	Detailed Interface Document between C6 and C3 reviewed by Engineer
A6900	Interface Management Plan Submission between C6 and C8
A6905	Interface Management Plan between C6 and C8 reviewed by Engineer
A6910	Detailed Interface Document Submission between C6 and C8
A6915	Detailed Interface Document between C6 and C8 reviewed by Engineer
Site and Facility Inspection	
A4730	Pre Site and Facility Inspection by Contractor at Location 1 - Deg1
A4740	Joint Site and Facility Inspection with Interface Contractor at Location 1 - Deg1
A4760	Pre Site and Facility Inspection by Contractor at Location 2 - Deg1
A4770	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg1
A4772	Pre Site and Facility Inspection by Contractor at Location 2 - Deg2
A4774	Joint Site and Facility Inspection with Interface Contractor at Location 2 - Deg2
A4775	Joint Site and Facility Inspection with Interface Contractor at Location 2 for Server Installation
A4780	Pre Site and Facility Inspection by Contractor at Location 3 - Deg1
A4790	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg1
A4800	Pre Site and Facility Inspection by Contractor at Location 3 - Deg2
A4810	Joint Site and Facility Inspection with Interface Contractor at Location 3 - Deg2
A4820	Pre Site and Facility Inspection by Contractor at Location 3a - Deg1
A4830	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg1
A4840	Pre Site and Facility Inspection by Contractor at Location 3a - Deg2
A4850	Joint Site and Facility Inspection with Interface Contractor at Location 3a - Deg2
A4851	Joint Site and Facility Inspection with Interface Contractor at Location 3a for Server Installation
A4860	Pre Site and Facility Inspection by Contractor at Location 4 - Deg1
A4870	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg1
A4880	Pre Site and Facility Inspection by Contractor at Location 4 - Deg2
A4890	Joint Site and Facility Inspection with Interface Contractor at Location 4 - Deg2
A4891	Pre Site and Facility Inspection by Contractor at Location 4a - Deg1

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

Actual Level of Effort


Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Boundary Crossing
 Facilities - Automatic Vehicle
 Clearance Support System (AVCSS)

Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	IWC	LC

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4892	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg1																		
A4900	Pre Site and Facility Inspection by Contractor at Location 4a - Deg2																		
A4910	Joint Site and Facility Inspection with Interface Contractor at Location 4a - Deg2																		
A4920	Pre Site and Facility Inspection by Contractor at Location 5 - Deg1																		
A4930	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg1																		
A4940	Pre Site and Facility Inspection by Contractor at Location 5 - Deg2																		
A4950	Joint Site and Facility Inspection with Interface Contractor at Location 5 - Deg2																		
A4960	Pre Site and Facility Inspection by Contractor at Location 6 - Deg1																		
A4970	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg1																		
A4980	Pre Site and Facility Inspection by Contractor at Location 6 - Deg2																		
A4990	Joint Site and Facility Inspection with Interface Contractor at Location 6 - Deg2																		
A5000	Pre Site and Facility Inspection by Contractor at Location 7 - Deg1																		
A5010	Joint Site and Facility Inspection with Interface Contractor at Location 7 - Deg1																		
A5020	Pre Site and Facility Inspection by Contractor at Location 8 - Deg1																		
A5030	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg1																		
A5040	Pre Site and Facility Inspection by Contractor at Location 8 - Deg2																		
A5050	Joint Site and Facility Inspection with Interface Contractor at Location 8 - Deg2																		
A5060	Pre Site and Facility Inspection by Contractor at Location 9 - Deg1																		
A5070	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg1																		
A5080	Pre Site and Facility Inspection by Contractor at Location 9 - Deg2																		
A5090	Joint Site and Facility Inspection with Interface Contractor at Location 9 - Deg2																		
A5100	Pre Site and Facility Inspection by Contractor at Location 10 - Deg1																		
A5110	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg1																		
A5120	Pre Site and Facility Inspection by Contractor at Location 10 - Deg2																		
A5130	Joint Site and Facility Inspection with Interface Contractor at Location 10 - Deg2																		
A5140	Pre Site and Facility Inspection by Contractor at Location 11 - Deg1																		
A5150	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg1																		
A5160	Pre Site and Facility Inspection by Contractor at Location 11 - Deg2																		
A5170	Joint Site and Facility Inspection with Interface Contractor at Location 11 - Deg2																		
A5180	Pre Site and Facility Inspection by Contractor at Location 12 - Deg1																		
A5190	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg1																		
A5200	Pre Site and Facility Inspection by Contractor at Location 12 - Deg2																		
A5210	Joint Site and Facility Inspection with Interface Contractor at Location 12 - Deg2																		
A5220	Pre Site and Facility Inspection by Contractor at Location 13 - Deg1																		
A5230	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg1																		
A5240	Pre Site and Facility Inspection by Contractor at Location 13 - Deg2																		
A5250	Joint Site and Facility Inspection with Interface Contractor at Location 13 - Deg2																		
A5260	Pre Site and Facility Inspection by Contractor at Location 14 - Deg1																		
A5270	Joint Site and Facility Inspection with Interface Contractor at Location 14 - Deg1																		
A5300	Pre Site and Facility Inspection by Contractor at Location 15 - Deg1																		
A5310	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg1																		
A5320	Pre Site and Facility Inspection by Contractor at Location 15 - Deg2																		
A5330	Joint Site and Facility Inspection with Interface Contractor at Location 15 - Deg2																		
A5340	Pre Site and Facility Inspection by Contractor at Location 16 - Deg1																		
A5350	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg1																		

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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

Actual Level of Effort

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- summary

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A5360	Pre Site and Facility Inspection by Contractor at Location 16 - Deg2																		
A5370	Joint Site and Facility Inspection with Interface Contractor at Location 16 - Deg2																		
A5375	Pre Site and Facility Inspection by Contractor at Location 17 - Deg1																		
A5378	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg1																		
A5380	Pre Site and Facility Inspection by Contractor at Location 17 - Deg2																		
A5380	Joint Site and Facility Inspection with Interface Contractor at Location 17 - Deg2																		
A5395	Pre Site and Facility Inspection by Contractor at Location 18 - Deg1																		
A5396	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg1																		
A5400	Pre Site and Facility Inspection by Contractor at Location 18 - Deg2																		
A5410	Joint Site and Facility Inspection with Interface Contractor at Location 18 - Deg2																		
A5420	Pre Site and Facility Inspection by Contractor at Location 19 - Deg1																		
A5430	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg1																		
A5440	Pre Site and Facility Inspection by Contractor at Location 19 - Deg2																		
A5450	Joint Site and Facility Inspection with Interface Contractor at Location 19 - Deg2																		
A5470	Pre Site and Facility Inspection by Contractor at Inbound Vehicle Clearance Plaza																		
A5480	Joint Site and Facility Inspection with Interface Contractor at Inbound Vehicle Clearance Plaza																		
A5490	Pre Site and Facility Inspection by Contractor at Outbound Vehicle Clearance Plaza																		
A5500	Joint Site and Facility Inspection with Interface Contractor at Outbound Vehicle Clearance Plaza																		
Access Dates																			
A1070	Location 1(PCB 001) Basement)-Deg1 (270d)																		
A1081	Location 1(PCB 001) ELV Room (Grid Line E3))-Deg1 (270d)																		
A1090	Location 2(PCB 001) First Floor Main Server Room)-Deg1 (330d)																		
A1100	Location 2(PCB 001) First Floor Main Server Room)-Deg2 (380d)																		
A1101	Location 2(PCB 001) First Floor Main Server Room) - For Server Installation																		
A1102	Location 2(PCB 001) Ground Floor ELV Room (Grid Line E3)) - Deg1 (330d)																		
A1103	Location 2(PCB 001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg1 (330d)																		
A1104	Location 2(PCB 001) Ground Floor DOH Port Health Control Room (Grid Line BD5)) - Deg2 (380d)																		
A1110	Location 3(Inbd Cargo Exam Bldg (037) MDF Room)-Deg1 (400d)																		
A1112	Location 3(Inbd Cargo Exam Bldg (037) ELV Room)-Deg1 (400d)																		
A1114	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg1 (400d)																		
A1115	Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)-Deg2 (500d)																		
A1116	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg1 (400d)																		
A1117	Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,129,140,141)-Deg2 (500d)																		
A1130	Location 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg1 (-)																		
A1131	Location 3a(Inbd Cargo Exam Bldg ROCARS Room)-Deg2 (480d)																		
A1140	Location 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg1 (-)																		
A1141	Location 3a(Inbd Cargo Exam Bldg Main Server Room)-Deg2 (480d)																		
A1142	Location 3a(Inbd Cargo Exam Bldg Main Server Room) - For Server Installation																		
A1150	Location 4(Outbd Cargo Exam Bldg (023))-Deg1 (530d)																		
A1160	Location 4(Outbd Cargo Exam Bldg (023))-Deg2 (680d)																		
A1161	Location 4a(Outbd Cargo Exam Bldg (023))-Deg1 (-)																		



Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

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Actual Level of Effort

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- summary

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A1162	Location 4a(Outbd Cargo Exam Bldg (023))-Deg2 (630d)																		
A1170	Location 5(Common Utility Endcure & Staff Subway)-Deg1 (320d)																		
A1180	Location 5(Common Utility Endcure & Staff Subway)-Deg2 (-)																		
A1190	Location 6(Common Utility Endcure & Staff Subway)-Deg1 (400d)																		
A1200	Location 6(Common Utility Endcure & Staff Subway)-Deg2 (-)																		
A1210	Location 7(Common Utility Endcure & Staff Subway)-Deg1 (270d)																		
A1230	Location 8(Inbd Private Car Annex (025))-Deg1 (430d)																		
A1240	Location 8(Inbd Private Car Annex (025))-Deg2 (580d)																		
A1241	Location 8(Inbd Private Car Annex (025) Canopy)-Deg1 (430d)																		
A1242	Location 8(Inbd Private Car Annex (025) Canopy)-Deg2 (580d)																		
A1250	Location 9(Outbd Private Car Annex (032))-Deg1 (520d)																		
A1260	Location 9(Outbd Private Car Annex (032))-Deg2 (660d)																		
A1261	Location 9(Outbd Private Car Annex (032) Canopy)-Deg1 (520d)																		
A1262	Location 9(Outbd Private Car Annex (032) Canopy)-Deg2 (660d)																		
A1270	Location 10(Shuttle Bus Kiosks (006))-Deg1 (480d)																		
A1280	Location 10(Shuttle Bus Kiosks (006))-Deg2 (550d)																		
A1281	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg1 (480d)																		
A1282	Location 10(Shuttle Bus Kiosks (006) Canopy)-Deg2 (550d)																		
A1290	Location 11(Outbd Coach Kiosks (009))-Deg1 (400d)																		
A1300	Location 11(Outbd Coach Kiosks (009))-Deg2 (480d)																		
A1302	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg1 (400d)																		
A1303	Location 11(Outbd Coach Kiosks (009) Canopy)-Deg2 (480d)																		
A1304	Location 11(Inbd Coach Kiosks (010))-Deg2 (480d)																		
A1305	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg1 (400d)																		
A1306	Location 11(Inbd Coach Kiosks (010) Canopy)-Deg2 (480d)																		
A1310	Location 12(Inbd Private Car Kiosks(027))-Deg1 (400d)																		
A1311	Location 12(Inbd Private Car Kiosks(027))-Deg2 (480d)																		
A1312	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg1 (400d)																		
A1313	Location 12(Inbd Private Car Kiosks(027) Canopy)-Deg2 (480d)																		
A1314	Location 12(Inbd GV Kiosks (028))-Deg1 (400d)																		
A1315	Location 12(Inbd GV Kiosks (028))-Deg2 (480d)																		
A1316	Location 12(Inbd GV Kiosks (028) Canopy)-Deg1 (400d)																		
A1317	Location 12(Inbd GV Kiosks (028) Canopy)-Deg2 (480d)																		
A1318	Location 12(Outbd GV Kiosks (029))-Deg1 (400d)																		
A1319	Location 12(Outbd GV Kiosks (029))-Deg2 (480d)																		
A1320	Location 12(Outbd GV Kiosks (029) Canopy)-Deg1 (400d)																		
A1321	Location 12(Outbd GV Kiosks (029) Canopy)-Deg2 (480d)																		
A1330	Location 13(Outbd Private Car Kiosks (030))-Deg1 (480d)																		
A1340	Location 13(Outbd Private Car Kiosks (030))-Deg2 (550d)																		
A1341	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg1 (480d)																		
A1342	Location 13(Outbd Private Car Kiosks (030) Canopy)-Deg2 (550d)																		
A1350	Location 14(Future-Outbd/Private Car Kiosks)-Deg1 (610d)																		
A1370	Location 15(Inbd Traffic Control Kiosk (100))-Deg1 (400d)																		
A1380	Location 15(Inbd Traffic Control Kiosk (100))-Deg2 (480d)																		

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

Actual Level of Effort

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone summary

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A1390	Location 16(Outbd Traffic Control Kiosk (101))-Deg1 (400d)																		
A1400	Location 16(Outbd Traffic Control Kiosk (101))-Deg2 (480d)																		
A1410	Location 17(Inbd Private Car Exam Bldg(033))-Deg1 (-)																		
A1420	Location 17(Inbd Private Car Exam Bldg(033))-Deg2 (550d)																		
A1430	Location 18(Outbd Private Car Exam Bldg(024))-Deg1 (-)																		
A1440	Location 18(Outbd Private Car Exam Bldg(024))-Deg2 (670d)																		
A1450	Location 19(DOH Cargo Clearance Bldg(043))-Deg1 (-)																		
A1460	Location 19(DOH Cargo Clearance Bldg(043))-Deg2 (550d)																		
A1461	Underground Ducting between Inbd Cargo Exam Bldg (037) and DOH Cargo Clearance Bldg (043) and CUE																		
A1462	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clearance Plaza																		
A1463	Underground Ducting between CUE and Outbd Car Exam Bldg (023)																		
A1464	Underground Ducting between Outbd Cargo Exam Bldg (023) and Outbd Vehicle Clearance Plaza																		
A1465	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza																		
A1466	Underground Ducting between CUE and Inbd P. Car Annex (025) and Shuttle Bus Kiosks (005)																		
A1467	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)																		
A1468	Underground Ducting between CUE and Outbd PCA (032)																		
A1478	Inbound Vehicle Clearance Plaza (Assume same as Location 3)																		
A1488	Outbound Vehicle Clearance Plaza (Assume same as Location 4 degree 1 + 51 day)																		
Interfaces Provisions																			
A7000	Inbound VID foundation and mounting structure (assume same as Access date of Inbound Vehicle Clearance Plaza)																		
A7010	Inbound VTS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)																		
A7020	Inbound TLS foundation and mounting poles (assume same as Access date of Inbound Vehicle Clearance Plaza)																		
A7030	Outbound VID foundation and mounting structure (assume same as Access date of Outbound Vehicle Clearance Plaza)																		
A7040	Outbound VTS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)																		
A7050	Outbound TLS foundation and mounting poles (assume same as Access date of Outbound Vehicle Clearance Plaza)																		
WA4 Site Erection & Servicing																			
A1740	Possession of Site																		
A1750	Method Statement & Drawing																		
A1760	Place Order to prepare materials																		
A1770	Review, revise and approve method statement																		
A1780	Equipment mobilization and construction material delivered to the site																		
A1790	Set up the alignment and level of the u-channel																		
A1800	Trial pit excavation																		
A1801	Excavation for chain-link fence footing																		
A4540	Underground Utility detection																		
A4550	Delivery of asphalt and fencing materials																		
A4560	Trimming and leveling soil surface for paving asphalt material																		
A4570	Remove the vegetation and loose material on the soil surface by backhoe																		
A4580	Set out the alignment and level of the u-channel																		

Programme No.: HZMB-DWP
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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

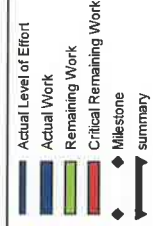
Legend:

- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical/Remaining Work
- Milestone
- summary

14-Nov-16

Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A4590	Installation of fencing post along the site boundary															
A4600	Excavation for underground drainage pipe															
A4610	Evenly spread the asphalt scrap material by backhoe															
A4620	Cast concrete for the u-channel and underground drainage pipe															
A4630	Remove the u-channel framework															
A4640	Installation of chain-link fencing along the site boundary															
A4650	Installation of access doors															
A4660	Excavation for drainage ditch															
A4670	Cast concrete for the drainage ditch															
A4680	Compact the asphalt scrap material															
A4690	Land surveying															
A4700	Inspection of chain-link fencing and access doors															
A4710	Testing of drains															
A4720	Completion of the works															
Detailed Design Specification																
A1808	Preliminary System Proposal Submission															
A1809	Engineer's agreement with preliminary system proposal															
A1810	Draft Detailed Design Specification (DDS) Submission															
A1814	Draft Hardware Function Design Specification for Computer system and Network system (HFD)															
A1815	Draft Software Function Design Specification for Computer system and Network system (SFD)															
A1820	Engineer's Review and Approval for Draft Detailed Design Specification (DDS)															
A1823	Engineer's Review and Approval for Draft Hardware FDS for Computer system and Network system (HFD)															
A1824	Engineer's Review and Approval for Draft Software FDS for Computer system and Network system (SFD)															
A1829	Interface Requirements for CED (LBS, CED IT Server, Metro-Ethernet) and IMMD (AVCS)															
A1830	Final DDS Submission (AVCSS, VTS, VIDS)(Phase 1/Section I)															
A1831	Development of System Security Plan															
A1840	Engineer's Review and Approval for Final DDS Submission including System Security Plan (AVCSS)(Phase 1/Section I)															
A1850	Final DDS Submission (AVCSS)(Phase 2/Section II&III)															
A1860	Engineer's Review and Approval for DDS Submission (AVCSS)(Phase 2/Section II&III)															
Construction Design and Management																
A6920	Construction Health and Safety Plan Submission															
A6930	Construction Health and Safety Plan reviewed by Engineer															
Supply/Manufacture Mock-up items																
A4749	Preparation of Kiosk equipment Mock-up															
A4750	Installation of Kiosk equipment Mock-up															
Supply/Manufacture prototypes																
A2900	Manufacture LED Display Prototype (VID, ODB and XDB)															
A2910	Manufacture All-in-One Panel Prototype (AICP)															
Software Design, Coding and Testing																
22-May-17, Software Design, Coding and Testing																

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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)




Date	Revision	Checked	Approved
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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Coding																			
A5460	CCS, SURCON, SYSCON, CDBS Development Stage 1																		
A5500	VTS Development Stage 1																		
A5510	VIDS Development Stage 1																		
A5540	CCS, SURCON, SYSCON, CDBS Development Stage 2																		
A5580	VTS Development Stage 2																		
A5590	VIDS Development Stage 2																		
	Software System Integration																		
A5520	Test Plan Documentation Submission																		
A5530	Engineer's Review and Approval for Test Plan Documentation Submission																		
A5600	Software System Integration Test																		
A5630	CCS/SURCON/SURCON/CDBS/VTS/VIDS Software Enhancement																		
A5640	Software User Acceptance Test (UAT)																		
	Prototype & Software Simulation Tests																		
A1910	Prototype Test Document																		
A2130	Engineer's Approval for Testing Document																		
A2920	CCWS with CDBS, SURCON and SYSCON (Software Simulation/ Software Integration Test)																		
A2930	Vehicle Tracking System (VTS) (Software Simulation/ Software Integration Test)																		
A2950	LED Displays (VID, ODB and XDB)																		
A2960	All-In-One Panel (AIOP)																		
A3020	Prototype Testing Report Submission																		
A4350	Engineer's Approval for Prototype Testing Report																		
	Procurement - Phase 1 / Section I																		
A3070	Procurement of Equipment for Phase 1/Section I																		
A3080	Procurement of Cable and Accessories for Phase 1/Section I																		
A3980	Procurement of All Servers and Workstations																		
	Supply/Manufacture products for FAT																		
A2980	Supply/Manufacture LED Display (ODB, VID and XDB) for FAT																		
A2990	Supply/Manufacture All-In-One Panel (AIOP) for FAT																		
A3000	Supply/Manufacture off-the-shelf equipment for FAT																		
	Factory Acceptance Test (FAT)																		
A2120	FAT Procedure Document																		
A2121	Engineer's Approval for FAT Procedure Document																		
A3050	FAT for Licence Plate Recognition System (LPRS)																		
A3060	FAT for PA/Interroom																		
A3090	FAT for ODB																		
A3100	FAT for XDB																		
A3110	FAT for VID																		
A3120	FAT for Video Management System (VMS)																		
A3130	FAT for Vehicle Tracking System (VTS)																		
A3140	FAT for Communication Network (CMN)																		
A3150	FAT for All-In-One Panel (AIOP)																		
A3160	FAT for AVCSS System Test																		
A4360	FAT Report Submission																		

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

Actual Level of Effort
Actual Work
Remaining Work
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Milestone
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Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

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14-Nov-16

Revision
Rev: 0

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Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4370	Engineer's Approval for FAT Report Submission																		
Supply/Manufacture Equipment																			
A6830	Supply/Manufacture LED (ODB, VID and XDB) Display for installation																		
A6840	Supply/Manufacture AIOF for installation																		
Delivery and Bench Acceptance Test for Phase 1/Section 1																			
A6740	Material On-Site for Phase 1/Section 1																		
A6750	Material Bench Acceptance Test for Phase 1/Section 1																		
A6850	Cable On-Site for Phase 1/Section 1																		
A6960	AIOF On-Site for Phase 1/Section 1																		
A6970	AIOF Bench Acceptance Test for Phase 1/Section 1																		
A6980	LED (ODB, VID and XDB) On-Site for Phase 1/Section 1																		
A6990	LED (ODB, VID and XDB) Bench Acceptance Test for Phase 1/Section 1																		
Installation - Phase 1 / Section 1																			
Location 1(PCB (001) Basement)																			
A3081	Cable Laying and termination at Location 1 and Location 2																		
Location 1(PCB (001) ELV Room (Grid Line E3))																			
A3101	Cable Laying and termination at Location 1 and Location 2																		
Location 2(PCB (001) Ground Floor ELV Room (Grid Line E3))																			
A3121	Cable Laying and termination at Location 1 and Location 2																		
Location 2(PCB (001) Ground Floor DOH Port Health Control Room (Grid Line BD/))																			
A2041	Cable Laying and termination at Location 1 and Location 2																		
A2042	Cable Testing																		
A2043	Intercom and PA system Installation																		
A2044	Intercom and PA system tuning																		
Location 2(PCB (001) First Floor Main Server Room)																			
A2001	Cable Laying and termination at Location 1 and Location 2																		
A2002	Cable Testing																		
A2003	AVCSS Network and Server Installation																		
A2004	AVCSS Network and Server Tuning																		
Location 3(Inbd Cargo Exam Bldg (037) Inspector Offices 128,129,130,131,128,12)																			
A3241	Cable Laying and termination in Location 3 and Location 3a																		
A3242	AVCSS SURCON WS and 55" LCD Installation																		
A3243	VTS WS Installation																		
A3245	SURCON, WS Tuning																		
Location 3(Inbd Cargo Exam Bldg (037) ELV Room)																			
A3210	Cable Laying and termination between Location 3 and CUE																		
Location 3(Inbd Cargo Exam Bldg (037) Platform Control Room)																			
A2071	Cable Laying and termination in Location 3 and Location 3a																		
A2072	AVCSS SYSCON WS and 55" TV Wall Installation																		
A2074	AVCSS SYSCON WS Tuning																		
Location 3(Inbd Cargo Exam Bldg (037) MDF Room)																			
A3190	Cable Laying and termination between Location 3 and CUE																		
Location 3a(Inbd Cargo Exam Bldg (037) ROCARS Room)																			
A2091	Cable Laying and termination in Location 3 and Location 3a																		
A2092	AVCSS SYSCON, SURCON and Intercom Installation																		

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

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

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

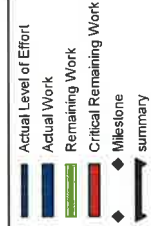


Date	Revision	Checked	Approved
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Detail Work Programme

Contract No.: HY/2013/06

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2093	VTS WS Installation																		
A2094	VID WS Installation																		
A2096	SURCON, SYSCON, WS Tuning																		
Location 3a (Inbd Cargo Exam Bldg Main Server Room)																			
A3330	Cable Laying and termination in Location 3 and Location 3a																		
A3340	AVCSS Server Installation																		
A3350	VTS Server Installation																		
A3360	Servers Tuning																		
Location 4 (Outbd Cargo Exam Bldg (023) MDF Room)																			
A3410	Cable Laying and termination between CUE and Location 4																		
Location 4 and 4a (Outbd Cargo Exam Bldg (023) ROCARS Room)																			
A3370	Cable Laying and termination in Location 4 and 4a																		
A3380	AVCSS SYSCON, SURCON and Intercom Installation																		
A3390	VTS WS Installation																		
A3400	SYSCON, SURCON, WS Tuning																		
Location 6 (Common Utility Enclosure & Staff Subway)																			
A3430	Cable Laying between Location 5 and Location 7																		
A3440	Cable Laying between Location 5 and Location 6																		
A3480	ODB Switch Installation at EL Room 2-7																		
Location 6 (Common Utility Enclosure & Staff Subway)																			
A3450	Cable Laying between Location 5 and Location 6																		
A3490	ODB Switch Installation at EL Room 8-9, 11-12																		
Location 7 (Common Utility Enclosure & Staff Subway)																			
A3470	Cable Laying between Location 5 and Location 7																		
Location 12 (Inbd Private Car Kiosks, GV Kiosks (027,028,029))																			
Inbd Private Car Kiosks(027) - 9 nos (Phase 1)																			
A2452	Cable Containment in Kiosks																		
A2453	Cable Laying and termination																		
A2454	Cable Splicing, Testing and Labeling																		
A2460	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)																		
A2470	ODB & XDB installation (9 nos)																		
A4380	Inbd Private Car Kiosk Installation Complete																		
Inbd Goods Vehicle Kiosk(028) - 5 nos (Phase 1)																			
A2532	Cable Containment in Kiosks																		
A2533	Cable Laying and termination																		
A2534	Cable Splicing, Testing and Labeling																		
A2540	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		
A2550	AOP Installation (5 nos)																		
A2560	ODB & XDB installation (5 nos)																		
A4390	Inbd Goods Vehicle Kiosks Installation Complete																		
Outbd Goods Vehicle Kiosks(029) - 5 nos (Phase 1)																			
A2572	Cable Containment in Kiosks																		
A2573	Cable Laying and termination																		
A2574	Cable Splicing, Testing and Labeling																		
A2580	AVCSS/DOH/MOM Kiosk Equipment Installation (5 nos)																		



Programme No.: HZMB-DWP
Data Date: 14-Aug-15

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	WC	LC

Activity ID	Activity Name	2015			2016			2017			2018			2019		
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
A2580	A1OP Installation (5 nos)															
A2600	ODB & XDB installation (5 nos)															
A4400	Outbd Goods Vehicle Kiosks Installation Complete															
Location 13(Outbd Private Car Kiosks (030)) - 9 nos (Phase 1)																
A3562	Cable Containment in Kiosks															
A3563	Cable Laying and termination															
A3584	Cable Splicing, Testing and Labeling															
A3590	AVCSS/DOH/MOM Kiosk Equipment Installation (9 nos)															
A3600	ODB & XDB installation (9 nos)															
A4410	Outbd Private Car Kiosks Installation Complete															
Location 14(Future-Outbd/Private Car Kiosks) - 6+6 nos																
A2441	Cable Laying and termination at ELV Room in CUE															
Location 15(Inbd Traffic Control Kiosk (100))																
A3651	Cable Laying and termination															
A3652	AVCSS SYSCON, SURCON Installation															
A3660	VTS WS and 55" LCD Installation															
A3670	SYSCON, SURCON, WS Tuning															
Location 16(Outbd Traffic Control Kiosk (101))																
A3701	Cable Laying and termination															
A3702	AVCSS SYSCON, SURCON Installation															
A3710	VTS WS and 55" LCD Installation															
Location 17(Inbd Private Car Exam Bldg(033) Operational Office)																
A3750	Cable Laying and termination															
A3760	AVCSS SURCON and 55" LCD Installation															
A3770	SURCON Tuning															
Location 18 (Outbd Private Car Exam Bldg(024) Operational Office)																
A3780	Cable Laying and termination															
A3790	AVCSS SURCON and 55" LCD Installation															
Location 19 (DOH Cargo Clearance Bldg(043))																
A2111	Cable Laying and termination between Location 19 and CUE															
A2112	Cable Laying in Location 19															
A2113	PA and Intercom Installation															
A2123	PA and Intercom Tuning															
Inbd Vehicle Clearance Plaza - 8 nos VID, 7 nos VTS, 4 nos TLS																
A4050	Inbound VID cabling from pillar box to VID field equipment															
A4052	Inbound VTS cabling from pillar box to VTS field equipment															
A4054	Inbound TLS cabling from pillar box to TLS field equipment															
A4060	Inbound VID field equipment installation (8 VID)															
A4062	Inbound VTS field equipment installation (4 RFID + 3 Cameras)															
A4064	Inbound TLS field equipment installation (4 TLS)															
A4066	Inbound VID, VTS and TLS field equipment tuning															
Outbd Vehicle Clearance Plaza - 8 nos VID, 6 nos VTS, 4 nos TLS																
A4110	Outbound VID cabling from pillar box to VID field equipment															
A4120	Outbound VTS cabling from pillar box to VTS field equipment															
A4130	Outbound TLS cabling from pillar box to TLS field equipment															

Programme No.: HZMB-DWP
Data Date: 14-Aug-15

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

Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)

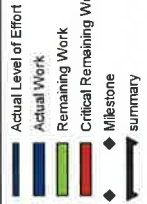


Date	Revision	Checked	Approved
14-Nov-16	Rev:0	W/C	LC

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4140	Outbound VID field equipment installation (8 VID)																		
A4150	Outbound VTS field equipment installation (3 RFID + 3 Cameras)																		
A4170	Outbound TLS field equipment installation (4 TLS)																		
A4180	Outbound VID, VTS and TLS field equipment tuning																		
A3810	Underground Ducting between Inbd Cargo Exam Bldg (037) and CUE																		
A3830	Underground Ducting between Inbd Cargo Exam Bldg (037) and Inbd Vehicle Clea																		
A3850	Underground Ducting between CUE and Outbd Car Exam Bldg (023)																		
A3870	Underground Ducting Between Outbd Cargo Exam Bldg (023) and Outbd Vehicle I																		
A3890	Underground Ducting between CUE and Outbd Vehicle Clearance Plaza																		
A2150	On-Site Test and Commissioning (Phase 1 / Section I)																		
A2151	Testing & Commissioning Documents Submission (6 weeks before Testings carried out)																		
A2152	Engineer Approval for T&C Document																		
A2153	Joint Site Inspection for Permanent Power/Tele-communication for Initial on-site testing																		
A6601	Initial on-site Testing & Commissioning																		
A6602	Site Acceptance Test (Phase 1 / Section I)																		
A6603	Interface Readiness CED(LBS, CED IT, Metro-Ethernet) and IMMD (AVS)																		
A6604	SAT for AVCSS																		
A6605	SAT for Location 18 (AVCSS SURCON and 55' LCD)																		
A6606	SAT Test Document Submission																		
A6607	Software Manual Documentations Submission																		
A6608	Security Risk Assessment and Audit																		
A6609	SRAA (Assessment)																		
A6610	Fix per SRAA Assessment																		
A6611	SRAA Audit																		
A5610	Operability Period Test (Phase 1 / Section I)																		
A5620	Joint Site Inspection for utilities, telecom connection and metro ethernet for OPT																		
A5630	Operability Period Test (OPT) Phase 1																		
A5640	Operability Period Test (OPT) Phase 2																		
A2230	Completion (Phase 1/Section I)																		
A2231	AVCSS - Certificate of Completion (Phase 1/Section I)																		
A2180	Training and Document (Phase 1 / Section I)																		
A2190	Certificate of Completion Approval by Engineer																		
A2240	Training Materials & Documentation Submission																		
A2241	Operation and Maintenance Training																		
A2242	Site Operation (Phase 1/Section I)																		
A2243	Engineering Support for Phase 1 / Section I																		

Programme No.: HZMB-DWP

Data Date: 14-Aug-15



Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)




Date	Revision	Checked	Approved
14-Nov-15	Rev: 0	WC	LC

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A4420	Engineering Support for Phase 1/Section I																		
A3980	Procurement - Phase 2 / Section II																		
A3980	Procurement of Lane Field Equipment for Phase 2/Section II																		
A6760	Delivery and Bench Acceptance Test for Phase 2/Section II																		
A6770	Material On-site for Phase 2/Section II																		
A6770	Bench Acceptance Test for Phase 2/Section II																		
A4090	Installation - Phase 2 / Section II																		
A4090	Installation (Inbd Private Car Annex (025)) (Phase 2)																		
A4090	Site Preparation																		
A4091	Cable Containment in Kiosks																		
A4093	Cable Laying and termination																		
A4094	Cable Splicing, Testing and Labeling																		
A4096	Mobilization of kiosk equipment																		
A4100	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)																		
A4430	Inbd Private Car Annex Installation Complete																		
A4151	Location 9 (Outbd Private Car Annex (032)) (Phase 2)																		
A4151	Site Preparation																		
A4152	Cable Containment in Kiosks																		
A4153	Cable Laying and termination																		
A4154	Cable Splicing, Testing and Labeling																		
A4156	Mobilization of kiosk equipment																		
A4160	AVCSS/DOH/MOM Kiosk Equipment Installation (1 no)																		
A4440	Outbd Private Car Annex Installation Complete																		
A2290	Test and Commissioning (Phase 2 / Section II)																		
A2290	Testing & Commissioning Documents Submission																		
A2291	Engineer Approval for T&C Document																		
A2292	Initial on-site Testing & Commissioning																		
A2300	Site Acceptance Tests (SAT)																		
A2310	Operability Period Test (OPT)																		
A2320	Completion (Phase 2 / Section II)																		
A2320	AVCSS - Certificate of Completion, (Phase 2/Section II)																		
A4320	Certificate of Completion Approval by Engineer																		
A4450	Engineering Support for Phase 2 / Section II																		
A4000	Engineering Support for Phase 2/Section III																		
A4000	Procurement of Lane Field Equipment for Phase 2/Section III																		
A6780	Delivery and Bench Acceptance Test for Phase 2 / Section III																		
A6780	Material On-site for Phase 2/Section III																		
A6790	Bench Acceptance Test for Phase 2/Section III																		
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A6790	Material On-site for Phase 2/Section III																		
A6790	Bench Acceptance Test for Phase 2/Section III																		

Activity ID	Activity Name	2015				2016				2017				2018				2019	
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
A2623	Cable Laying and termination																		
A2630	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																		
A4460	Shuttle Bus Kiosks Installation Complete																		
	Outbd Coach Kiosks (009) - 4 nos (Phase 2)																		
A2652	Cable Containment																		
A2663	Cable Laying and termination																		
A2670	AVCSS/DOH/MOM Kiosk Equipment Installation (4 nos)																		
A4470	Outbd Coach Kiosks Installation Complete																		
	Inbd Private Car Kiosks (027) - 12 nos (Phase 2)																		
A2742	Cable Containment																		
A2743	Cable Laying and termination																		
A2744	Cable Splicing, Testing and Labeling																		
A2750	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																		
A2760	Kiosk Equipment Configuration (12 nos)																		
A4480	Inbd Private Car Kiosks Installation Complete																		
	Outbd Private Car Kiosks (030) - 12 nos (Phase 2)																		
A2782	Cable Containment																		
A2783	Cable Laying and termination																		
A2784	Cable Splicing, Testing and Labeling																		
A2790	AVCSS/DOH/MOM Kiosk Equipment Installation (12 nos)																		
A4500	Outbd Private Car Kiosks Installation Complete																		
	Inbd Goods Vehicle Kiosks (028) - 3 nos (Phase 2)																		
A2822	Cable Containment																		
A2823	Cable Laying and termination																		
A2825	Kiosk Equipment Configuration (3 nos)																		
A2830	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																		
A4510	Inbd Goods Vehicle Kiosks Installation Complete																		
	Outbd Goods Vehicle Kiosks (029) - 3 nos (Phase 2)																		
A2862	Cable Containment																		
A2863	Cable Laying and termination																		
A2865	Cable Splicing, Testing and Labeling																		
A2870	AVCSS/DOH/MOM Kiosk Equipment Installation (3 nos)																		
A4520	Outbd Goods Vehicle Kiosks Installation Complete																		
	Inbd Coach Kiosks (010) - 4 nos (Phase 2)																		
A2702	Cable Containment																		
A2703	Cable Laying and termination																		
A2705	Kiosk Equipment Configuration (4 nos)																		
A2710	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																		
A2720	AVCSS/DOH/MOM Kiosk Equipment Installation (2 nos)																		
A4480	Inbd Coach Kiosks Installation Complete																		
	Underground Ducting between CUE and Shuttle Bus Kiosk (006)																		
A3970	Cable Laying and termination (note: Access Date by C03)																		
	Underground Ducting between PCB(001) and Inbd Coach Kiosks(010)																		
A3930	Cable Laying and termination (note: Access Date by C03)																		
	Test and Commissioning (Phase 2 / Section III)																		

Programme No. HZMB-DWP
Data Date: 14-Aug-15

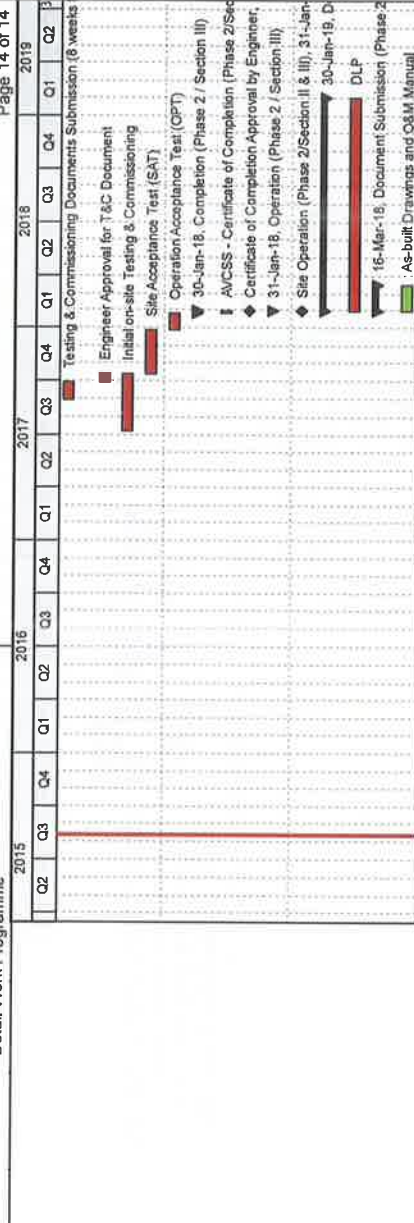
Actual Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 summary



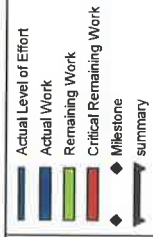
Hong Kong-Zhuhai-Macao Bridge
 Hong Kong Boundary Crossing
 Facilities - Automatic Vehicle
 Clearance Support System (AVCSS)

Date	14-Nov-16
Revision	Rev: 0
Checked	WC
Approved	LC

Activity ID	Activity Name
A2370	Testing & Commissioning Documents Submission (8 weeks before Testings carried out)
A2371	Engineer Approval for T&C Document
A2373	Initial on-site Testing & Commissioning
A2380	Site Acceptance Test (SAT)
A2390	Operation Acceptance Test (OPT)
Completion (Phase 2 / Section III)	
A2400	AVCSS - Certificate of Completion (Phase 2/Section III)
A4330	Certificate of Completion Approval by Engineer
Operation (Phase 2 / Section III)	
A2420	Site Operation (Phase 2/Section II & III)
Defect Liability Period (DLP)	
A2430	DLP
Document Submission (Phase 2 / Section III)	
A4340	As-built Drawings and O&M Manual



Programme No.: HZMB-DWP
Data Date: 14-Aug-15



Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing
Facilities - Automatic Vehicle
Clearance Support System (AVCSS)



Date	Revision	Checked	Approved
14-Nov-16	Rev: 0	WC	LC

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

Report No.: 0165/15/ED/0798

Appendix D

Event / Action Plan

Appendix D –

Event / Action Plan for Air Quality and Noise Monitoring and Water Quality Monitoring and Ecological Monitoring

Event / Action Plan for Air Quality

Event	Action			
	ET	IEC	ER	Contractor
Action Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.

Event	Action			
	ET	IEC	ER	Contractor
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedances abated.

Event / Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Event	Action			
	ET	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. 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. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Water Quality

Event	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in situ measurement on next day of exceedance to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Notify Contractor 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor and ER 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Action level 8. Repeat measurement on next day of exceedance to confirm findings 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of noncompliance in writing 2. Discuss with IEC on the proposed mitigation measures 3. Make agreement on mitigation measures to be implemented 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the Engineer and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate

Event	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, Contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly 4. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Ensure mitigation measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Rectify unacceptable practice 3. Check all plant and equipment and consider changes of working methods 4. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 5. Implement the agreed mitigation measures 6. Amend working methods if appropriate
Limit level being exceeded by two or more consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings 2. Identify source(s) of impact 3. Inform IEC, contractor, ER and EPD 4. Check monitoring data, all plant, equipment and Contractor's working methods 5. Discuss mitigation measures with IEC, ER and Contractor 6. Ensure mitigation measures are implemented 7. Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor's working method 2. Discuss with ET and Contractor on possible remedial actions 3. Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures 3. Request Contractor to critically review the working methods 4. Make agreement on the mitigation measures to be implemented 5. Ensure mitigation measures are properly implemented 6. Assess the effectiveness of the implemented mitigation measures 7. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level 	<ol style="list-style-type: none"> 1. Inform the ER and confirm notification of the noncompliance in writing 2. Take immediate action to avoid further exceedance 3. Rectify unacceptable practice 4. Check all plant and equipment and consider changes of working methods 5. Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER 6. Implement the agreed mitigation measures 7. Resubmit proposals of mitigation measures if problem still not under control 8. As directed by the engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level

Event / Action Plan for Ecological Monitoring

Event	ET Leader	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor; 5. Check monitoring data. 6. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and finding with the ET and the Contractor. 	<ol style="list-style-type: none"> 1. Discuss monitoring with the IEC and any other measures proposed by the ET; 2. If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; 3. Implement the agreed measures.

Event	ET Leader	IEC	ER	Contractor
Limit Level	<ol style="list-style-type: none"> 1. Repeat statistical data analysis to confirm findings; 2. Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; 3. Identify source(s) of impact; 4. Inform the IEC, ER/SOR and Contractor of findings; 5. Check monitoring data; 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET and Contractor; 2. Discuss monitoring results and findings with the ET and the Contractor; 3. Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 4. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. 	<ol style="list-style-type: none"> 1. Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. 2. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. 3. Supervise the implementation of additional monitoring and/or any other mitigation measures. 	<ol style="list-style-type: none"> 1. Inform the ER/SOR and confirm notification of the non-compliance in writing; 2. Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. 3. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. 4. Implement the agreed additional dolphin monitoring and/or any other mitigation measures.

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Report No.: 0165/15/ED/0798

Appendix E

Waste Flow Table



Monthly Summary of Waste Flow Table for 2017 (year)

Name of Person completing the Record: Marko Chan

Month	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of Non-inert C&D Wastes Generated Monthly					
	Total Quantity Generated (in '000m ³)	Broken Concrete (see Note 1) (in '000m ³)	Reused in the Contract (in '000m ³)	Reused in other Projects (in '000m ³)	Disposed as Public Fill (in '000m ³)	Metals (in '000 Kg)	Paper/ cardboard packaging (in '000 Kg)	Plastics (see Note 2) (in '000 Kg)	Chemical Waste (in '000 Kg)	Others, e.g. general refuse (in '000m ³)
Jan	0.000	0	0	0	0.000	0	0	0	0	0.580
Feb	0.000	0	0	0	0.000	0	0	0	0	0.585
Mar	0.000	0	0	0	0.000	0	0	0	0	0.999
Apr	0.043	0	0	0	0.043	0	0	0	0	1.073
May	12.682	0	0	12.637	0.045	0	0	0	0	1.321
Jun										
Jul										
Aug										
Sept										
Oct										
Nov										
Dec										
Total	12.725	0.000	0.000	12.637	0.088	0.000	0.000	0.000	0.000	4.558

Notes:

- (1) Broken concrete for recycling into aggregates.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) In order to convert the quantities of inert C&D materials reused in other projects (29,065 tonnes) from tonnes to m³, a conversion factor is used and shown as follows:
 $\text{Volume (in m}^3\text{)} = \text{Mass (in tonnes)} / 2.3 \text{ (in tonnes/ m}^3\text{)}$
 Where 2.3 (in tonnes/ m³) is the density of surplus filling materials provided by the Contractor

Monthly Summary of Excavated Marine Sediment for 2017 (year)

Month	Total Quantity of Excavated Marine Sediment Generated in '000m ³	Reused in this contract in '000m ³	Reused in other Projects in '000m ³	Disposed of at CMP in '000m ³
Jan	0.656	0.000	0.000	0.656
Feb	0.264	0.000	0.000	0.264
Mar	0.000	0.000	0.000	0.000
Apr	1.288	0.000	0.000	1.288
May	1.440	0.000	0.000	1.440
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				
Total	3.648	0.000	0.000	3.648



ATAL Technologies Ltd.
Contract No. HY/2013/06 HKBCF Automatic Vehicle Clearance Support System
Location: Artificial Island of HKIAP (C3 Area)

Monthly Summary Waste Flow Table for 2017

Month	Inert C&D Waste disposal / 廢性廢物 (in tonnes) (see Note 1)						Non-inert C&D Waste disposal / 非廢性廢物 (in tonnes)						Waste to be recycled and returned / 可再循環利用或回收的廢物						Total Quantity Generated / 總生產量	
	Reused in the Work Package (e.g. backfilling) 再用於工程 (如回填)		Reused in other Projects 再用於其他工程		Inert Waste (e.g. soil, broken concrete, rubble, fill material etc.) 廢性廢物 (如泥, 石, 磚, 料等)		Others (e.g. general refuse, broken formwork etc) 其他 (如垃圾, 廢板枋等)		Metals 金屬		Plastic 塑膠		Paper/cardboard packaging 廢紙/包裝紙類		Chemical Waste 化學廢物		Est. Qty. 估計數量	Act. Qty. 實際數量		
	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	Est. Qty. 估計數量	Act. Qty. 實際數量	(a) = (b+c+d+e)	(a) = (b+c+d+e)		
January	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000		
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000		
March	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002		
April	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.005		
May	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.020	0.020		
June																				
July																				
August																				
September																				
October																				
November																				
December																				
Total	0.000	0.000	0.000	0.000	0.000	0.027	0.027	0.030	0.030	0.000	0.000	0.004	0.004	0.000	0.000	0.027	0.027	0.027		

Notes: (1) The quantiles of C&D Materials, in tonne, was calculated by multiply the estimated volume, in m³, with the density of the soil, which is 1.5 gcm⁻³.

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is white and is set against a black rectangular background that has a thin white border.

Report No.: 0165/15/ED/0798

Appendix F

Environmental Licenses and Permits

Appendix F - Environmental Permit / Licences Summary for Contract No. HY/2013/03

(update: 06/06/2017)

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	RefNo. 387703	Main Site Area	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
3	Notification Pursuant to Section 3(1) of The Air Pollution Control (Construction Dust) Regulation	RefNo. 387735	Works Area WA3	15-Apr-15	15-Apr-15	15-Apr-15	Nil	Valid	
4	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7022228	Main Site Area, WA3 & 4	15-Apr-15	06-May-15	06-May-15	Nil	Valid	
5	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-951-C1186-28	Main Site Area	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
6	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	5213-974-C3597-03	Works Area WA4	28-Apr-15	01-Jun-15	01-Jun-15	Nil	Valid	
7	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00022180-2015	Works Area WA3	29-Apr-15	04-Aug-15	03-Aug-15	31-Aug-20	Valid	
8	Water Discharge License Pursuant to Water Pollution Control Ordinance (Cap 358)	WT00025384-2016	Main Site Area	09-Mar-16	10-Nov-16	10-Nov-16	30-Sep-20	Valid	
9	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0205-17	Main Site Area	01-Mar-17	15-Mar-17	19-Mar-17	18-Jun-17	Valid	
10	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	PP-RS0008-17	Box Culvert B	06-Apr-17	20-Apr-17	21-Apr-17	19-Jul-17	Valid	
11	Construction Noise Permit Pursuant to Section 8(6) of the Noise Control Ordinance	GW-RS0382-17	Main Site Area	10-Apr-17	25-Apr-17	27-Apr-17	24-Jul-17	Valid	
12	Permit issued Under the Dumping at Sea Ordinance	EP/MD/18-005	East of Sha Chau (CMP Vd)	10-Apr-17	24-Apr-17	25-Apr-17	24-May-17	Valid Until 24-May-17	
13	Specified Process License for Tar and Bitumen Works Pursuant to Section 14 of the Air Pollution Control Ordinance	L-15-039(1)	Temporary Asphalt Mixing Facility	05-Dec-16	16-Mar-17	16-Mar-17	15-Mar-19	Valid	

Environmental Permit / Licences Summary for Contract No. HY/2013/06 within the HY/2013/03 site works area

(update: 06/06/2017)

Item	Permit/Licence Registration	Permit No.	Work Area	Application Date	Issue Date	Valid Date		Status	Remark
						From	To		
1	Environmental Permit Pursuant to Environmental Impact Assessment Ordinance	EP-353/2009/K	HKBCF	24-Mar-16	11-Apr-16	11-Apr-16	Nil	Valid	
2	Billing A/C for Construction Waste Disposal Pursuant to Section 6 & 9 of the Waste Disposal (Charges for Disposal of Construction waste) Regulation	A/C No. 7023015	Main Site Area	07-Aug-15	20-Aug-15	20-Aug-15	Nil	Valid	
3	Registration as Waste Producer Pursuant to Waste Disposal (Chemical Waste) (General) Regulation	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	#

The Contractor of Contract No. HY/2013/06 was advised to register as a chemical waste producer when chemical waste is expected to generate for the foreseeable future from the operations.

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Appendix G

Implementation Schedule for Environmental Mitigation Measures (EMIS)

Appendix G – Implementation Schedule of Environmental Mitigation Measures (EMIS)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
Air Quality				
S5.5.6.1	A1	1) The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	All construction sites	V
S5.5.6.2	A2	2) Proper watering of exposed spoil should be undertaken throughout the construction phase; <ul style="list-style-type: none"> • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones. • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials, • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top 	All construction sites	V
S5.5.6.2	A2	<ul style="list-style-type: none"> • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk 	All construction sites	N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and</p> <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies 		
S5.5.6.3	A3	3) The Contractor should undertake proper watering on all exposed spoil (with at least 8 times per day) throughout the construction phase.	All construction sites	V
S5.5.6.4	A4	4) Engineer to incorporate the controlled measures into the Particular Specification (PS) for the civil work. The PS should also draw the contractor's attention to the relevant latest Practice Notes issued by EPD.	All construction sites	V
S5.5.6.4	A5	5) Implement regular dust monitoring under EM&A programme during the construction stage.	Selected Representative dust monitoring station	V (Conducted by Contract No. HY/2010/02 and HY/2011/03)
S5.5.7.1	A6	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions for concrete batching plant;</p> <ul style="list-style-type: none"> Loading, unloading, handling, transfer or storage of any dusty materials should be carried out in totally enclosed system; All dust-laden air or waste gas generated by the process operations should be properly extracted and vented to fabric filtering system to meet the emission limits for TSP; Vents for all silos and cement/pulverised fuel ash (PFA) weighing scale should be fitted with fabric filtering system; The materials which may generate airborne dusty emissions should be wetted by water spray system; All receiving hoppers should be enclosed on three sides up to 3m above unloading point; All conveyor transfer points should be totally enclosed; All access and route roads within the premises should be paved and wetted; and Vehicle cleaning facilities should be provided and used by all concrete trucks before leaving the premises to wash off any dust on the wheels and/or body 	Selected Representative dust monitoring station	N/A
S5.5.2.7	A7	<p>The following mitigation measures should be adopted to prevent fugitive dust emissions at barging point:</p> <ul style="list-style-type: none"> All road surface within the barging facilities will be paved; Dust enclosures will be provided for the loading ramp; Vehicles will be required to pass through designated wheels wash facilities; and Continuous water spray at the loading points 	All construction sites	V
Construction Noise (Air borne)				
S6.4.10	N1	<p>1) Use of good site practices to limit noise emissions by considering the following:</p> <ul style="list-style-type: none"> only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
S6.4.11	N2	2) Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	All construction sites	V
S6.4.12	N3	3) Install movable noise barriers (typically density@14kg/m acoustic mat or full enclosure close to noisy plants including compressor, generators, saw.	For plant items listed in Appendix 6D of the EIA report at all construction sites	N/A
S6.4.13	N4	4) Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed in Appendix 6D of the EIA report at all construction site	V
S6.4.14	N5	5) Sequencing operation of construction plants where practicable	All construction sites where practicable	V
S5.1	N6	6) Implement a noise monitoring under EM&A programme.	Selected representative noise monitoring station	V (Conducted by Contract No. HY/2010/02)
Sediment				
S7.3	S1	1) The requirements as recommended in ETWB TC 34/2002 Management of Dredged/Excavated Sediment shall be included in the Particular Specification as appropriate.	All construction sites	V
Waste Management (Construction Waste)				
S8.3.8	WM1	<p>Construction and Demolition Material</p> <p>The following mitigation measures should be implemented in handling the waste:</p> <ul style="list-style-type: none"> Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to E7WBTC (Works) No. 19/2005 - "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation 	All construction sites	V
S8.3.9-	WM2	C&D Waste	All construction	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
S8.3.11		<ul style="list-style-type: none"> • Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	sites	
S8.2.12- S8.3.15	WM3	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD; and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation. • The storage area for chemical wastes should be clearly labeled and used solely for the storage of chemical waste; enclosed on at least 3 sides; have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20 % of the total volume of waste stored in that area, whichever is the greatest; have adequate ventilation; covered to prevent rainfall entering; and arranged so that incompatible materials are adequately separated. • Disposal of chemical waste should be via a licensed waste collector; be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers chemical waste collection service and can supply the necessary storage containers; or be to a reuser of the waste, under approval from the EPD. 	All construction sites	V
S8.3.16	WM4	<p><u>Sewage</u></p> <ul style="list-style-type: none"> • Adequate numbers of portable toilets should be provided for the workers. The portable toilets should be maintained in a state which will not deter the workers from utilizing these portable toilets. Night soil should be collected by licensed collectors regularly. 	All construction sites	V
S8.3.17	WM5	<p><u>General Refuse</u></p> <ul style="list-style-type: none"> • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. 	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> • Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor. • Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. 		
Water Quality (Construction Phase)				
S9.11.1.7	W2	<p>Land Works General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:</p> <ul style="list-style-type: none"> • wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; • sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; • storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; • silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; • temporary access roads should be surfaced with crushed stone or gravel; • rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; • measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; • open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms; • manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; • discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 	Land-based works area	V
S9.11.1.7	W2	<ul style="list-style-type: none"> • all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; • wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; • the section of construction road between the wheel washing bay and the public road should be surfaced 	Land-based works area	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<ul style="list-style-type: none"> with crushed stone or coarse gravel; • wastewater generated from concreting, plastering, Internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; • vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal; • the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately; • waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; • all fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank; and • surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. 		
S9.14	W3	Implement a water quality monitoring programme	Selected representative WQM stations	V (Conducted by Contract No. HY/2010/02)
Ecology (Construction Phase)				
S10.7	E4	<ul style="list-style-type: none"> • Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site runoff should be desilted, to reduce the potential for suspended sediments, organics and other contaminants to enter streams and standing freshwater 	Land-based works areas	V
S10.7	E5	<ul style="list-style-type: none"> • Good site practices, including strictly following the permitted works hours, using quieter machines where practicable, and avoiding excessive lightings during night time 	Land-based works areas	V
S10.7	E6	<ul style="list-style-type: none"> • Dolphin Exclusion Zone • Dolphin watching plan 	Marine works	V
S10.7	E7	<ul style="list-style-type: none"> • Decouple compressors and other equipment on working vessels • Proposal on design and implementation of acoustic decoupling measures applied during dredging and reclamation works • Avoidance of percussive piling 	Marine works	V
S10.7	E8	<ul style="list-style-type: none"> • Control vessel speed • Skipper training • Predefined and regular routes for working vessels; avoid Brother Islands. 	Marine Traffic	V
S10.10	E9	Vessel based dolphin monitoring	Northeast and Northwest Lantau	V (Conducted by Contract No. HY/2010/02)
Fisheries				
S11.7	F4	<ul style="list-style-type: none"> • Maritime Oil Spill Response Plan (MOSRP); • Contingency plan. 	HKBCF	V
Landscape & Visual (Detailed Design Phase)				
S14.3.3.1	LV1	<p>General design measures include:</p> <ul style="list-style-type: none"> • Roadside planting and planting along the edge of the HKBCF Island is proposed; • Transplanting of mature trees in good health and amenity value where appropriate and reinstatement of areas disturbed during construction by compensatory 	HKBCF	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		<p>hydro-seeding and planting;</p> <ul style="list-style-type: none"> • Protection measures for the trees to be retained during construction activities; • Optimizing the sizes and spacing of the bridge columns; • Fine-tuning the location of the bridge columns to avoid visually-sensitive locations; • Providing planting area around peripheral of HKBCF for tree planting screening effect; • Providing salt-tolerant native trees along the planter strip at affected seawall and newly reclaimed coastline; • For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF; and • Fine-tuning the sizes of the structural members to minimize the bulkiness of buildings and adjustment of building arrangement to minimise disturbance to surrounding vegetation in the HKBCF. 		
Landscape & Visual (Construction Phase)				
S14.3.3.3	LV2	<p>Mitigate both Landscape and Visual Impacts</p> <p>G1. Grass-hydroseed bare soil surface and stock pile areas.</p> <p>G2. Add planting strip and automatic irrigation system if appropriate at some portions of bridge footbridge to screen bridge and traffic.</p> <p>G3. Not applicable as this is for HKLR.</p> <p>G4. For HKBCF, providing aesthetic architectural design on the related buildings (e.g. similar materials for PCB building facade to Airport buildings, roof planting and subtle materials for other facilities buildings and so on), and the related infrastructure (e.g. parapet planting and transparent cover for elevated footbridges) to provide harmonious atmosphere of the HKBCF</p> <p>G5. Vegetation reinstatement and upgrading to disturbed areas</p> <p>G6. Maximizing new tree shrub and other vegetation planting to compensate tree felled and vegetation removed</p> <p>G7. Providing planting area around peripheral of HKBCF for tree planting screening effect;</p> <p>G8. Plant salt-tolerant native and shrubs etc along the planter strip at affected seawall.</p> <p>G9. Reserve of loose natural granite rocks for re-use, Provide new coastline to adopt "natural-look" by means of using armour rocks in the form of natural rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of the new coastline.</p>	HKBCF	N/A
S14.3.3.3	LV3	<p><u>Mitigate Visual Impacts</u></p> <p>V1. Minimize time for construction activities during construction period.</p> <p>V2. Provide screen hoarding at the portion of the project site / works areas / storage areas near VSRs who have close low-level views to the Project during HKBCF construction.</p>	HKBCF	N/A
EM&A				
S15.2.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	All construction sites	V
S15.5 – S15.6	EM2	<p>1) An Environmental Team needs to be employed as per the EM&A Manual.</p> <p>2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation</p>	All construction sites	V

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Location of the measures	Implementation Status
		measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.		

Legend: V = implemented; x = not implemented; N/A = not applicable

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The logo for MaterialLab, featuring the word "MaterialLab" in a bold, sans-serif font. The text is centered between two thick, horizontal black bars.

Report No.: 0165/15/ED/0798

Appendix H

Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

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Appendix H –

Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

For Contract No. HY/2013/03

Cumulative Statistics			
Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	1	0	0
From commencement date of construction to end of reporting month	8	0	0

For Contract No. HY/2013/06 within Contract No. HY/2013/03 works area

Cumulative Statistics			
Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period	0	0	0
From commencement date of construction to end of reporting month	0	0	0

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Appendix I

Environmental Site Inspection Schedule

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Report No.: 0165/15/ED/0798

Contract No. HY/2013/03
HZMB HKBCF – Vehicle Clearance Plazas and Ancillary Buildings and Facilities
Weekly Environmental Site Inspection Schedule

Environmental Site Inspection Schedule for May 2017

May-2017						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5 Environmental Site Inspection	6
7	8	9	10	11 Environmental Site Inspection	12	13
14	15	16	17	18 Environmental Site Inspection	19	20
21	22	23	24	25	26 Environmental Site Inspection	27
28	29	30	31			

Tentative Environmental Site Inspection Schedule for June 2017

June-2017						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Environmental Site Inspection	2	3
4	5	6	7	8 Environmental Site Inspection	9	10
11	12	13	14	15 Environmental Site Inspection	16	17
18	19	20	21	22	23 Environmental Site Inspection	24
25	26	27	28	29 Environmental Site Inspection	30	

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**Contract No. HY/2013/06 (within Contract No. HY/2013/03 works area)
 HZMB HKBCF – Automatic Vehicle Clearance Support System
 Weekly Environmental Site Inspection Schedule**

Environmental Site Inspection Schedule for May 2017

May-2017						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5 Environmental Site Inspection	6
7	8	9	10	11 Environmental Site Inspection	12	13
14	15	16	17	18 Environmental Site Inspection	19	20
21	22	23	24	25	26 Environmental Site Inspection	27
28	29	30	31			

Tentative Environmental Site Inspection Schedule for June 2017

June-2017						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Environmental Site Inspection	2	3
4	5	6	7	8 Environmental Site Inspection	9	10
11	12	13	14	15 Environmental Site Inspection	16	17
18	19	20	21	22	23 Environmental Site Inspection	24
25	26	27	28	29 Environmental Site Inspection	30	