

Lam Geotechnics Limited

Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 3) Monthly EM&A Report (November 2019)

CONTRACT NO: HK/2015/01

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

ENVIRONMENTAL PERMIT NO. EP-376/2009, FURTHER ENVIRONMENTAL PERMITS NO. FEP-01/376/2009 AND FEP-02/376/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- NOVEMBER 2019 -

CLIENTS:

Department

Civil Engineering and Development

PREPARED BY:

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CERTIFIED BY:

gi

Raymond Dai Environmental Team Leader

DATE:

December 2019



Ref.: AACWBIECEM00_0_11849L.19

10 December 2019

By Post and Fax (2691 2649)

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

Attention: Mr. Conrad Ng

Dear Mr. Ng,

Re: Wan Chai Development Phase II - Central-Wan Chai Bypass <u>Monthly Environmental Monitoring and Audit Report (November 2019)</u> <u>for EP-376/2009, FEP-01/376/2009 and FEP-02/376/2009</u>

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for November 2019 received by e-mail on 9 December 2019 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permit.

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

Yours sincerely,

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David Yeung Independent Environmental Checker

c.c.

CEDD	Attn: Mr. Jimmy Ling	by fax: 2301 1277
AECOM	Attn: Ms. Gloria Tang	by fax: 2587 1877
AECOM	Attn: Mr. Francis Leong/ Stephen Lai	by fax: 2691 2649
Lam	Attn: Mr. Raymond Dai	by fax: 2882 3331

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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report November 2019 specific for Environmental Permit no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of 27th October 2019 to 26th November 2019. The cut-off date of reporting is at 26th of each reporting month.
- In the reporting month, the principal work activities of the contract are included as follows:
 <u>Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>
 - Nil

Noise Monitoring

- iii. Noise monitoring was conducted at M1a Footbridge for Ex-Harbour Road Sports Centre.
- With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Road Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge for Harbour Road Sports for noise monitoring.
- With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse noise impact would be contributed by the tree planting works, the respective noise monitoring at noise monitoring station M1a Footbridge at EX-Wanchai Harbour Road Sports Centre was temporary suspended from 27 March 2019 onwards.

Air Quality Monitoring

- vii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted on every six days basis at CMA5b Pedestrian Plaza and CMA6a WDII PRE Site Office.
- viii. With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse air quality impact would be contributed by the tree planting works, the respective air quality monitoring at monitoring stations CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office, were temporary suspended from 27 March 2019 onwards.



Complaints, Notifications of Summons and Successful Prosecutions

ix. No environmental complaint was received in this reporting month.

Site Inspections and Audit

x. The Environmental Team (ET) conducted weekly site inspection for Contract no. HK/2012/08 in this reporting period. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

xi. In the coming reporting month, the principal work activities of the contract is anticipated as follows:

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

• Nil



1 INTRODUCTION

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed take up the role as the Environmental Team (ET) under Environmental Permit no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development Phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008).

This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009, during the period of 27th October 2019 to 26th November 2019. The cut-off date of reporting is the 26th of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 *Cumulative Construction Impact due to the Concurrent Projects* summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.



- **Section 8** *Environmental Site Audit* summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



2 PROJECT BACKGROUND

2.1 Background

2.1.1 Wan Chai Development phase II and Central-Wan Chai Bypass (hereafter called "the Project") are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) has been approved on 11 December 2008.

2.2 Scope of the Project and Site Description

- 2.2.1. The design and construction of Wan Chai Development Phase II and Central Wanchai Bypass involves the construction and operation of primary and district distributor roads that is shown at *Figure 2.1.*
- 2.2.2. The key purpose of the study area encompasses the Wan Chai harbourfront area. The area starts at the boundary of Central Reclamation Phase III (CRIII) at the west and connects to the existing Hung Hing Road at the east. The scope of the project includes:
 - A dual 2-lane primary distributor road, Road P2, approximately 0.6km in length; and
 - Other new primary and district distributor roads connecting to the slip roads of the Central-Wan Chai Bypass with a total length of approximately 0.7km.
- 2.2.3. The project also contains various Schedule 2 DP that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the DP under this Project. *Figure 2.1* shows the locations of these Schedule 2 DP.

Item	Designated Project	EIAO Reference
DP2	Road P2 and other roads which are classified as	Schedule 2, Part I, A.1
	primary/district distributor roads	

 Table 2.1
 Schedule 2 Designated Project under this Project

2.2.4. The designated project work II (DP2) was awarded to China State – Build King Joint Venture HK/2012/08 (Contract Title: Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai West) as part of the Project works by the Civil Engineering and Development Department (CEDD). The construction work under Contract no. HK/2012/08 was commenced on 13 May 2015.



2.3 Project Organization and Contact Personnel

- 2.3.1 Civil Engineering and Development Department and Highway Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.3.2 The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2.* Key personnel and contact particulars are summarized in *Table 2.2*:

TADIE 2.2	Contact Details	s of Key Personin	er
		1	

Table 2.2 Contract Dataile of Kay Baraannal

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Chief Resident Engineer	Ms. Gloria Tang	2587 1778	2587 1877
China State- Build King	Contractor under Contract	Project Director	C. N. LAI	9106 5806	2877 1522
Joint Venture	Joint Venture no. HK/2012/08	Site Agent	Mr. George Cheung	9268 1918	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y.L. Ho	9856 5669	
Ramboll Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

- 2.3.3 In this reporting month, the principal work activities of the contract is included as follows: <u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>
 - Nil
- 2.3.4 In coming reporting month, the principal work activities of the contract is anticipated as follows:

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

• Nil



3 STATUS OF REGULATORY COMPLIANCE

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmentalprotection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-376/2009	13 Nov 2009	Valid
Further Environmental Permit	FEP-01/376/2009	31 Mar 2015	Valid
Further Environmental Permit	FEP-02/376/2009	1 Aug 2016	Valid

3.1.2. The current status on licences and/or permits on environmental protection pertinent for contract no. HK/2012/08 under FEP-02/376/2009 showed in *Table 3.2.* and *Table 3.3*

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no.HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-01/376/2009	31 Mar 2015	N/A	Valid
	FEP-02/376/2009	1 Aug 2016	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	30 Jun 2016	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	N/A	Valid
Water Discharge Licence	WT00018470-2014	6 Mar 2014	31 Mar 2019	Expired
Construction Noise Permit	GW-RS0775-19	27 Aug 2019	29 Aug 2019 to 25 Feb 2020	Valid
	GW-RS0632-19	11 Jul 2019	13 Jul 2019 to 12 Jan 2020	Valid

Table 3.3 Summary of submission status under FEP-02/376/2009 Condition



EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 27 Oct 2015
Condition 2.10	Landscape Plan (Rev. 0)	Generally in order as commented by EPD on 5 Aug 2015

3.1.3. Implementation status of the recommended mitigation measures during this reporting month is presented in <u>*Appendix 3.1.*</u>



4 MONITORING REQUIREMENTS

4.1 Noise Monitoring

NOISE MONITORING STATION

4.1.1. The noise monitoring station for the Project is listed and shown in *Table 4.1* and *Figure 4.1*. <u>Appendix 4.1</u> shows the established Action/Limit Levels for the monitoring works.

Table 4.1	Noise	Monitoring	Station
1 4010 411	110100	monitoring	otation

District	Station	Description
Wan Chai	M1a	Footbridge for Ex-Harbour Road Sports Centre

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.

MONITORING EQUIPMENT

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



4.2 Air Quality Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air quality monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure*

<u>4.1.</u> <u>Appendix 4.1</u> shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Air Quality Monitoring Stations

Station ID	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

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

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m³ per minute adjustable flow range;
 - Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - Capable of providing a minimum exposed area of 406 cm2;
 - Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - Equipped with a shelter to protect the filter and sampler;
 - Incorporated with an electronic mass flow rate controller or other equivalent devices;
 - Equipped with a flow recorder for continuous monitoring;



- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.



5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of the designated project managed under the contract with FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*.
- 5.0.2. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

5.1.1 The proposed division of noise monitoring station is summarized in *Table 5.1* below.

Table 5.1 Noise Monitoring Station for Contract no. HK/2012/08

Location ID	District	Description
M1a	Wan Chai	Footbridge for Ex-Harbour Road Sports Centre

5.1.2 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse noise impact would be contributed by the tree planting works, the respective noise monitoring at noise monitoring station M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre was temporary suspended from 27 March 2019 onwards.

5.2 Air Quality Monitoring Results

5.2.1 The proposed division of air quality monitoring stations are summarized in *Table 5.2* below.

 Table 5.2
 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

5.2.2 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse air quality impact would be contributed by the tree planting works, the respective air quality monitoring at air quality monitoring stations CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office were temporary suspended from 27 March 2019 onwards



5.3 Waste Monitoring Results

5.3.1 No Inert and non-inert C&D wastes disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.3*.

Table 5.3	Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m3	NIL	NIL	NIL
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	NIL	NIL	NIL
Non-inert C&D materials recycled, m3	NIL	NIL	NIL
Chemical waste disposed, kg	NIL	NIL	NIL



6 COMPLIANCE AUDIT

6.0.1. The Event Action Plan for construction noise and air quality are presented in Appendix 6.1.

6.1 Noise Monitoring

6.1.1 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse noise impact would be contributed by the tree planting works, the respective noise monitoring at noise monitoring station M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre was temporary suspended from 27 March 2019 onwards.

6.2 Air Quality Monitoring

6.2.1 With respect to WDII RSS confirmed that the remaining works under HK/2012/08 would be tree planting works at EP-376/2009 area only, considered that no adverse air quality impact would likely be contributed by the tree planting works, the respective air quality monitoring at air quality monitoring stations CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office were temporary suspended from 27 March 2019 onwards.

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

6.3.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

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

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



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7 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. According to the Condition 3.4 of the EP-376/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting month.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, no works was conducted in November 2019 reporting period. In view of the above, the cumulative construction impact due to the Central Reclamation Phase III (CRIII) was not anticipated.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were road and drains construction and trimming work at WCR1 and WCR3 at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building ABWF works at Central; seabed reinstatement at Causeway Bay; road works, drainage improvement work, utility diversion works and landscape works at Victoria Park; bridge noise enclosure installation works, road works, drainage works, soft landscape works and ventilation building ABWF work at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link at Seatern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.
- 7.0.5. As relevant site mitigation measures for air quality and construction noise were implemented, no significant air quality impact and noise impact from construction activities was concluded in the reporting period. Besides, no finding in related to air quality and noise impact was recorded during the weekly site inspection of EP-376 area in the reporting period. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central- WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



8 ENVIRONMENTAL SITE AUDIT

8.0.1. Five site inspections for Contract no. HK/2012/08 were carried out on 29 October, 5, 12, 19 and 26 November 2019 in this reporting period. No observation was found in the reporting period.

Mitigation measures implemented to prevent muddy discharge and surface runoff

8.0.2. With a view to ensure the adequacy and effectiveness of measures to prevent the discharge of muddy water, including surface run-off, from construction works, the following mitigation measures were implemented by Contractor(s) in the reporting period:

Contract No.	o. Mitigation Measures implemented						
HK/2012/08	• The remaining works associated with HK/2012/08 at EP-376 area would be landscape works only, the water quality impact in related to muddy water discharge and surface runoff was not anticipated.						



9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No environmental complaint was received in the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Table 9.1	Cumulative Statistics on Complaints
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Reporting Period	No. of Complaints
Commencement works (May 2015) to last reporting month	0
November 2019	0
Total	0

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



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10 CONCLUSION

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*. The construction programmes of individual contracts are provided in <u>Appendix 10.1</u>.

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2012/08	• Nil	• Nil



Figure 2.1

Project Layout

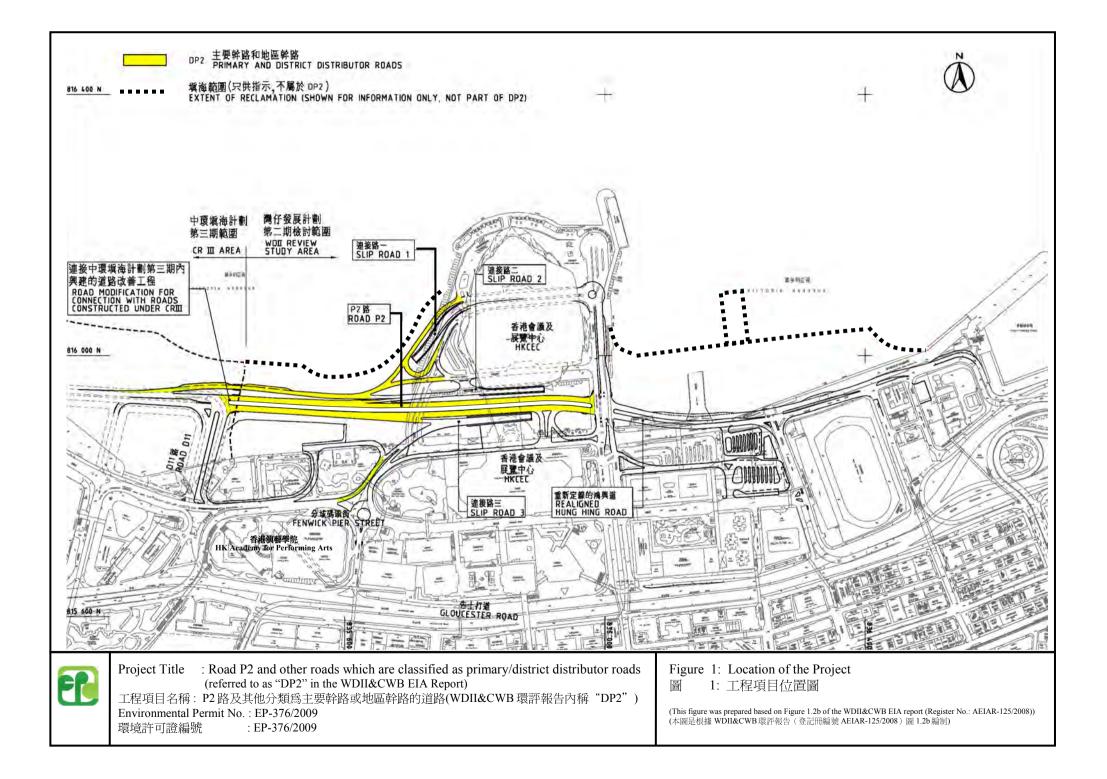




Figure 2.2

Project Organization Chart



Project Organization Chart

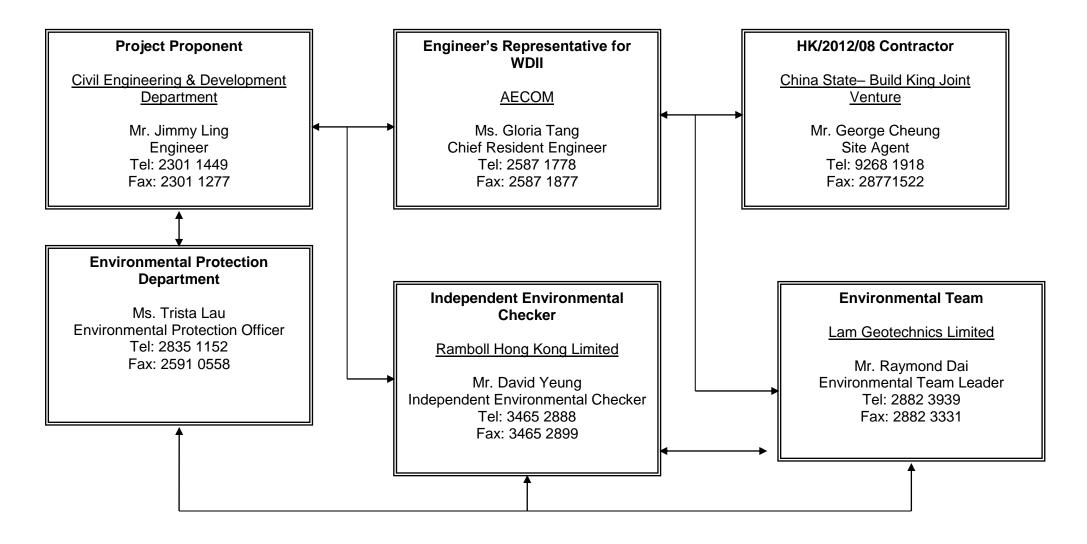
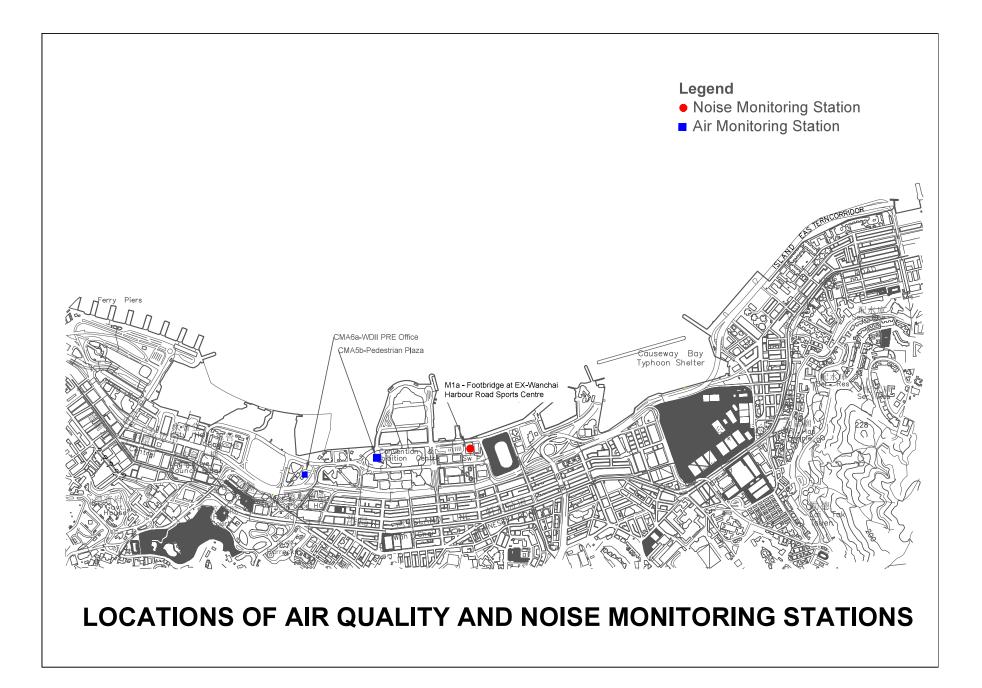




Figure 4.1

Locations of Monitoring Stations





Appendix 3.1

Environmental Mitigation Implementation Schedule

Appendix A

 Table A13.1 Implementation Schedule for Air Quality Control

Table A13.2 Implementation Schedule for Noise Control

 Table A13.3 Implementation Schedule for Water Quality Control

 Table A13.4 Implementation Schedule for Waste Management

 Table A13.7 Implementation Schedule for Landscape and Visual

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

Table A13.1 Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Impl	ement	tation	stage	Relevant Legislation and Guidelines
				Des	С	0	Dec	
Construction	n Phase							
For the Who	le Project							
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		\checkmark			EIAO-TM
S3.8.1	 Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		V			

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation					Relevant Legislation
		_	Agent	Des	C	0	Dec	and Guidelines
Constructio								
For the Wh	ole Project							
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite 	Work site / during construction	Contractor					EIAO-TM, NCO
For DP2 –	construction activities. WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Temporary road diversion Resurfacing	Work site / during construction	Contractor		V			EIAO-TM, NCO

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures /	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation
	Mitigation Measures			Des	С	0	Dec	and Guidelines
Constructio	n Phase				I			
For the Who	ole Project							
S5.8	 Construction Runoff and Drainage use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94; a sediment tank constructed from preformed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; Oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent flushing during periods of heavy rain; precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events; On-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be 	Work site / during construction	Contractor					ProPECC PN 1/94; WPCO (TM-DSS)

			1	1	1 1	
	installed in order to minimise the sediment loading of the effluent prior to discharge;					
	• All temporary and permanent drainage pipes and culverts provided to facilitate runoff					
	discharge shall be adequately designed for the					
	controlled release of storm flows. All sediment					
	control measures shall be regularly inspected and					
	maintained to ensure proper and efficient operation at all times and particularly following					
	rain storms.					
	 The temporarily diverted drainage shall 					
	be reinstated to its original condition when the					
	construction work is finished or the temporary					
	diversion is no longer required.					
	• All fuel tanks and store areas shall be					
	provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the					
	storage capacity.					
	 Minimum distances of 100 m shall be 					
	maintained between the storm water discharges					
	and the existing or planned WSD flushing water					
95.0	intakes during construction phase.	XX7 1 1 / 1 1				
S5.8	Sewage from Construction Work Force Construction work force sewage discharges on	Work site / during construction	Contractor	\checkmark		ProPECC PN 1/94; WPCO (TM-DSS)
	site shall be connected to the existing trunk	construction				wrco (IM-DSS)
	sewer or sewage treatment facilities. The					
	construction sewage shall be handled by portable					
	chemical toilets prior to the commission of the					
	on-site sewer system. Appropriate numbers of					
	portable toilets shall be provided by a licensed					
	contractor to serve the large number of construction workers over the construction site.					
	The Contractor shall also be responsible for					
	waste disposal and maintenance practices.					
1	-					

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\$5.8	<i>Floating Debris and Refuse</i> Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		V	WPCO
\$5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	\checkmark	V	WPCO

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation
				Des	С	0	Dec	and Guidelines
Constructio	on Phase				1			
For the Wh	ole Project							
S6.7.7	 Good Site Practices Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During planning and design stage, and construction stage	Contractor					
S.6.7.8	 Waste Reduction Measures Recommendations to achieve waste reduction include: Sort C&D waste from demolition of the existing waterfront structures to recover 	Work site / During planning and design stage, and construction stage	Contractor	\checkmark	V			

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	 recyclable portions such as metals. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force. Any unused chemicals or those with remaining functional capacity shall be recycled. Use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. Proper storage and site practices to minimise the potential for damage or contamination of construction materials. Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 				
S6.7.10	<i>General Refuse</i> General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material.	Work site / During the construction period	Contractor	V	Public Health and Municipal Services Ordinance (Cap. 132)
	A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.				

S6.7.11	Chemical Wastes	Work site / During	Contractor		Waste Disposal
,01,111	After use, chemical wastes (for example,	the	Conductor	•	(Chemical Waste)
	cleaning fluids, solvents, lubrication oil and fuel)	construction period			(General) Regulation
	shall be handled according to the Code of	1			Code of Practice on
	Practice on the Packaging, Labelling and Storage				the Packaging,
	of Chemical Wastes. Spent chemicals shall be				Labelling and Storage
	collected by a licensed collector for disposal at				of Chemical Wastes
	the CWTF or other licensed facility in				
	accordance with the Waste Disposal (Chemical				
	Waste) (General) Regulation.				
56.7.12 -	Construction and Demolition Material	Work site / During	Contractor and	\checkmark	DEVB TCW
56.7.13	C&D material shall be sorted on-site into inert	the	Independent		No.6/2010;
	C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall	construction period	Environmental Checker		ETWB TCW No.
	be broken down to 250 mm in size for reuse as		Cnecker		33/2002; ETWB TCW No.
	public fill in the WDII reclamation. C&D waste,				19/2005
	such as wood, glass, plastic, steel and other				19/2005
	metals shall be reused or recycled and, as a last				
	resort, disposed of to landfill. A suitable area				
	shall be designated to facilitate the sorting				
	process and a temporary stockpiling area will be				
	required for the separated materials.				
	In order to monitor the disposal of public fill and				
	C&D waste at public fill reception facilities and				
	landfills, respectively, and to control fly tipping,				
	a trip-ticket system shall be included as one of				
	the contractual requirements and implemented				
	by the Environmental Team undertaking the				
	environmental monitoring and audit work.				
	An Independent Environment Checker shall be				
6.7.14	responsible for auditing the results of the system. Bentonite Slurry	Work site / During	Contractor	√	ProPECC PN 1/94
0.7.14	The disposal of residual used bentonite slurry	the	Contractor	N	FIORECC FIN 1/94
	shall follow the good practice guidelines stated	construction period			
	shan tonow the good practice guidennes stated	construction period		I I	

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	1		 	
in ProPECC PN 1/94 "Construction Site				
Drainage" and listed as follows:				
 If the disposal of a certain residual 				
quantity cannot be avoided, the used slurry may				
be disposed of at the marine spoil grounds				
subject to obtaining a marine dumping licence				
from EPD on a case-by-case basis.				
 If the used bentonite slurry is intended 				
to be disposed of through the public drainage				
system, it shall be treated to the respective				
effluent standards applicable to foul sewers,				
storm drains or the receiving waters as set out in				
the Technical Memorandum of Standards for				
Effluents Discharged into Drainage and				
Sewerage Systems, Inland and Coastal Waters.				
 If the used bentonite slurry is intended 				
to be disposed to public fill reception facilities, it				
· · ·				
will be mixed with dry soil on site before				
disposal.	<u> </u>			

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

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Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures /	Location / Timing	Implementation	Impl	emen	tation	stage	Relevant Legislation
	Mitigation Measures		Agent	Des	С	0	Dec	and Guidelines
Construction	n Phase		I					
For the Who	le Project							
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	\checkmark	\checkmark			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	\checkmark	V			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	\checkmark				EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
For DP2 – W	VDII Major Roads (Road P2)							
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	\checkmark			EIAO TM
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	\checkmark	\checkmark			EIAO TM
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	\checkmark	\checkmark			EIAO TM
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	\checkmark	\checkmark			EIAO TM
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM

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				1		
Operation P	hase					
For DP2 – W	DII Major Roads (Road P2)					
Table 10.6,	OM1 Aesthetic design of buildings and road-	Work site / During	CEDD/HyD	\checkmark	\checkmark	ETWB TCW 2/2004
Figure	related structures,	Design Stage and				
10.5.1-	including viaducts, vent buildings, subways,	Operation Phases				
10.5.5	footbridges					
	and noise barriers and enclosure.					
Table 10.6,	OM3 Buffer Tree and Shrub Planting to screen	Work site / During	CEDD/HyD	\checkmark	\checkmark	ETWB TCW 2/2004
Figure	proposed roads	Design Stage and				
10.5.1-	and associated structures.	Operation Phases				
10.5.5						
Table 10.6,	OM5 Aesthetic streetscape design.	Work site / During	CEDD/HyD	\checkmark	\checkmark	ETWB TCW 2/2004
Figure		Design Stage and				
10.5.1-		Operation Phases				
10.5.5						
Table 10.6,	OM6 Aesthetic design of roadside amenity areas	Work site / During	CEDD/HyD	\checkmark	\checkmark	ETWB TCW 2/2004
Figure		Design Stage and				
10.5.1-		Operation Phases				
10.5.5						

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



Appendix 4.1

Action and Limit Level



Lam Geotechnics Limited

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 - 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *The Limit level shall be 70 dB(A) and 65 dB(A) for educational institute during normal teaching periods and school examination periods, respectively.

Action and Limit Level for Air Monitoring

Monitoring Locations	1-hour TSP Le	vel inµg/m3	24-hour TSP Level inµg/m3		
	Action Level Limit Level		Action Level	Limit Level	
CMA5b Pedestrian Plaza	339.7	500	209.9	260	
CMA6a WDII PRE Site Office	333.0	500	207.1	260	



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3) Environmental Monitoring Schedule November 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	01-Nov	02-Nov
		Weekly Environmental Site				
		Audit				
03-Nov	04-Nov	05-Nov	06-Nov	07-Nov	08-Nov	09-Nov
		Weekly Environmental Site Audit				
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
101101	11100	121100	13-1407	141100	131100	101107
		Weekly Environmental Site Audit				
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
		Weekly Environmental Site				
		Audit				
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
		Weekly Environmental Site Audit				
	<u> </u>					

Contract No. HK/2015/01 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3) Tentative Environmental Monitoring Schedule December 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec	07-Dec
		Weekly Environmental Site Audit				
08-Dec	09-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
		Weekly Environmental Site Audit				
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
		Weekly Environmental Site Audit				
22-Dec	23-Dec	24-Dec Weekly Environmental Site Audit	25-Dec	26-Dec	27-Dec	28-Dec
29-Dec	30-Dec	31-Dec Weekly Environmental Site Audit				



Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION						
	ET	IEC	ER	CONTRACTOR			
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified) 			



EVENT	ACTION									
	ET	IEC	ER	CONTRACTOR						
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 						



Event / Action Plan for Construction Air Quality

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



Event and Action Plan for Marine Water Quality

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



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



Event and Action Plan for Odour Patrol

Event		ACTION
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD
Action Level		
Exceedance of Action Level	 Identify source/reason of exceedance; Repeat odour patrol to confirm finding. 	 Carry out investigation to identify the source/reason of exceedance; Rectify any unacceptable practice Implement more mitigation measures if necessary; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	 Identify source / reason of exceedance; Repeat odour patrol to confirm findings; Increase odour patrol frequency; If exceedance stops, cease additional odour patrol. 	 Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions properly implemented; If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.



Appendix 6.2

Summary for Notification of Exceedance

am							Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage3)
Lam Geot	echnics Limit	ed					Summary for Notification of Exceedance
Ref no.	Date	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action

Contract No. HK/2015/01



Appendix 9.1

Complaint Log



Environmental Complaints Log

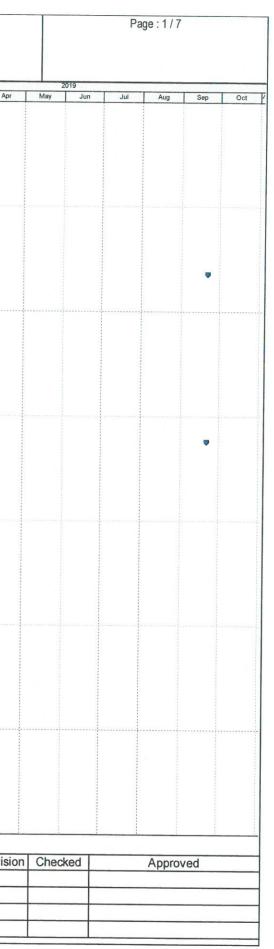
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status



Appendix 10.1

Construction Programme of Individual Contracts

						C		Chai	Develo	o. HK/20 oment P ass at W	hase II		st				
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan Feb Mar	Apr May	2 Jun	Jul	Aug Sep	Oct	Nov	Dec	Jan	Feb	Mar	
	Revised Works Programme Rev.12.0(DD 20	November 20	017)											Jan	reo	Midi	-
	nd Milestone Dates																
A Charles and a second s	Works Completion (Included Not Granted EOT En	ititlement of 1	he Contracto	r)									-				
KD10840	Completion of Section IIIA	0		08-Sep-18*	0%					•							
KD10860	Complection of Section IV	0		30-Aug-18*	0%					•							
KD10880	Completion of Section V	0		26-Sep-18*	0%						•						
KD11010	Completion of Section VII	0		14-Sep-18*	0%												
KD11020	Completion of Section VIII	0		21-Sep-18*	0%												
KD11040	Completion of Section IX	0		21-Sep-19*	0%												
KD11060	Completion of Section X	0		21-Sep-18*	0%												
Planned Sec	tions of Works Completion																
KD10080	Planned Section IIIA Completion - Road A2,A4, A5	0		08-Sep-18	0%												
KD10100	Planned Section IV Completion - Slip Road 3	0		30-Aug-18	0%												
KD10140	Planned Section V Completion - Remaining At-Grade Road	0		26-Sep-18	0%						•						
KD10280	Planned Section VII Completion - Remainder Works	0		14-Sep-18	0%											-	
KD10300	Planned Section VIII Completion - Landscape Softwork	0		21-Sep-18	0%					•							
KD10320	Planned Section IX Completion - Establishment Works	0		21-Sep-19	0%												
KD10340	Planned Section X Completion - Tree Protection &	0		21-Sep-18	0%												
Dredging an	Preservation d Reclamation																
Marine Worl	Construction				Signal and												
Zone CRIII			CENSELSTAR.	REPRESE													
Seawall Con	struction - Zone CRIII																
Zone CRIII S	eawall- 2nd Stage																
Seawall 2 &	12				STATES												
MAR21371	Zone CRIII - seawall 2 & 12 - Backfilling remaining portion	0	19-Jan-18 A	27-Jan-18 A	100%												
Zone D	(type A, geotextile and filter)	-															
Seawall Con	struction - Zone D																
Seawall 10 8	11																
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	14	20-Feb-18*	05-Mar-18	0%												
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	7	06-Mar-18	12-Mar-18	0%												
MAR20670	Zone D - Seawall 10 & 11: Lay geotextile and filter	7	13-Mar-18	19-Mar-18	0%												
	ection Completion	AND	10 10 10	19 1101 10	070	_											
Construction																	
	- Road A2, A4 & A5																
	Utilities - Section 1 (L1806 - L1801)																
Data Date:	Current Milestone Actual Work														Date		Revis
20-Feb-18	Critical Remaining Work					ated Works Pr								20	0-Feb-1	18 12	<u> </u>
	Remaining Work				(Ref	o Rev.12 as of	f 20 Feb	urary	2018)								
	Remaining Level of Effort																



								Ce		n Cha	ontrac ai Deve Chai By	lopme	nt Pha	ase II	Wes	t							Ра	ge:2/7		
ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	Mar A	Apr May	Jun	2018	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	2019 Jun	Jul	Aug	Sep	Oct
SIIIA10279c	Sec III A - section 1 carriageway - sewerage pipe from M/H 8C to F8B (night time): construct sewerage pipe	0	02-Jan-18 A	03-Feb-18 A	100%												oun	100	mui		iviay	Juli	Jui	Aug	Seb	000
SIIIA10293	Sec III A - section 1 carriageway - sewerage pipe from M/H	6	05-Feb-18 A	26-Feb-18	0%			•																		
SIIIA10294	F8B - F8A (night time) Sec III A - section 1 carriageway - sewerage pipe from M/H	8	17-Jan-18 A	28-Feb-18	27.27%	-	-																			
SIIIA10295	F8A - F8 Sec III A - carriageway - works prrior TTA stage 5:	7	18-Jan-18 A	27-Feb-18	0%																					
SIIIA10298	excavation and duct laying of TCSS and public lighting Sec III A - section 1 carriageway - works prrior TTA stage	5	28-Feb-18	05-Mar-18	0%																					
	5: road kerb																									
SIIIA10301	Sec III A - section 1 carriageway - works prrior TTA stage 5: road formation	2	06-Mar-18	07-Mar-18	0%																					
SIIIA10302	Sec III A - section 1 carriageway - works prrior TTA stage 5: laying asphalt	5	08-Mar-18	13-Mar-18	0%			•																		
SIIIA10303	Sec III A - section 1 carriageway - works prrior TTA stage 5: road marking & preparation works	3	14-Mar-18	16-Mar-18	0%																					
SIIIA10310	Sec III A - section 1 carriageway - TTA stage 5: Implementation of TTA Stage 5	1	17-Mar-18	17-Mar-18	0%			- I	-																	
SIIIA10310a	Sec III A - section 1 carriageway - TTA stage 5: remaining	12	19-Mar-18	04-Apr-18	0%				-																	
SIIIA10310b	sewerage pipe for M/H F8A - M/H F8 Sec III A - section 1 carriageway - TTA stage 5: remaining	18	06-Apr-18	26-Apr-18	0%																					
SIIIA10310c	sewerage pipe for M/H F8A - M/H F8B Sec III A - section 1 carriageway - TTA stage 5: SR1	5	19-Mar-18	23-Mar-18	0%																					
	at-grade road- remove sheetpile at U-trough west								_																	
	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -remove temp. road access bay 5 of SR1	21	24-Mar-18	21-Apr-18	0%																					
SIIIA10310e	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -construct upstand wall above Dwall	25	23-Apr-18	23-May-18	0%																					
SIIIA10310f	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - roadside barrier	14	24-May-18	08-Jun-18	0%																					
SIIIA10310g	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road - road formation	7	09-Jun-18	16-Jun-18	0%																					
SIIIA10310h	Sec III A - section 1 carriageway - TTA stage 5: SR1	14	19-Jun-18	05-Jul-18	0%																					
SIIIA10312	at-grade road - laying asphalt with transition slab Sec III A - roadwork and utilities section 1 carriageway -	15	19-Mar-18	09-Apr-18	0%																					
SIIIA10312a	Drainage works (L2202 - L2201) Sec III A - roadwork and utilities section 1 carriageway -	15	10-Apr-18	26-Apr-18	0%															2 2 2 2						
SIIIA10312b	Drainage works (L1805 - L1801) Sec III A - roadwork and utilities section 1 carriageway -	12	27-Apr-18	11-May-18	0%																					
SIIIA10313	Drainage works (L1805-1807) Sec III A - roadwork and utilities section 1 carriageway -	14	07-May-18	23-May-18	0%																					
	gully pipe (L1807 - L1801)																									
SIIIA10320	Sec III A - roadwork and utilities section 1 carriageway - fresh watermain	7	24-May-18	31-May-18	0%																					
SIIIA10340	Sec III A - roadwork and utilities section 1 carriageway - utilities: HEC (80m) along carriageway	14	01-Jun-18	16-Jun-18	0%																					
SIIIA10360	Sec III A - roadwork and utilities section 1 carriageway - road kerb & formation	14	19-Jun-18	05-Jul-18	0%																					
SIIIA10400	Sec III A - roadwork and utilities section 1 carriageway - black top	7	06-Jul-18	13-Jul-18	0%																					
SIIIA10420	Sec III A - Implementation of TTA Stage 7P (Closure of	1	14-Jul-18	14-Jul-18	0%						1															
SIIIA10440	U-turn at Expo Drive) Sec III A - roadwork and utilities section 1 carriageway :	10	16-Jul-18	26-Jul-18	0%						_															
SIIIA10460	breaking existing asphalt Sec III A - roadwork and utilities section 1 carriageway: road	14	27-Jul-18	11-Aug-18	0%																					
SIIIA10480	kerb and formation Sec III A - roadwork and utilities section 1 carriageway :	10	13-Aug-18	23-Aug-18	0%																					
SIIIA10500	black top												_													
	Sec III A - roadwork and utilities section 1 carriageway : roadmarking and road furniture	14	24-Aug-18	08-Sep-18	0%																					
Roadwork &	Utilities - Section 2 (L1810 - L1807)																									
SIIIA12590	Sec III A - roadwork and utilities section 2 carriageway - black top	0	20-Jan-18 A	27-Jan-18 A	100%																					
Roadwork &	Utilities - Section 3 (L1808 - L1102)																									
SIIIA12770	Sec III A - roadwork and utilities section 3 carriageway -	0	20-Jan-18 A	07-Feb-18 A	100%																					
SIIIA12790	utilities: HEC ducting (60m) & crossroad duct (PCCW & HGC) Sec III A - roadwork and utilities section 3 carriageway -	17	08-Feb-18 A	10-Mar-18	0%																					
SIIIA12810	road kerb & formation Sec III A - roadwork and utilities section 3 carriageway -	7	12-Mar-18	19-Mar-18	0%																					
	black top Utilities - Section 6 (L1102 - L1411)																									
SIIIA13399		0	12 100 10 4	26 br 10 4	10004																					
	Sec III A - roadwork and utilities section 6 carriageway - gully pipe (L1101 -L1102)	0	12-Jan-18 A	26-Jan-18 A	100%																					
SIIIA13444	Sec III A - roadwork and utilities section 6 carriageway - watermain (road crossing)	0	27-Jan-18 A	03-Feb-18 A	100%																					
SIIIA13445	Sec III A - roadwork and utilities section 6 carriageway - utilities: crossed duct(HEC, HGC, PCCW)	13	05-Feb-18 A	06-Mar-18	0%			-																		

							Centra	Wan	D Cont Chai D an Chai	evelo	opme	nt Ph	ase II	i Wes	t					
vity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan Fet			2018					1						2
SIIIA13450	Sec III A - roadwork and utilities section 6 carriageway -	18	07-Mar-18	27-Mar-18	0%	Jan Pel	Mar Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
SIIIA13470	road kerb & formation Sec III A - roadwork and utilities section 6 carriageway -	7	28-Mar-18	09-Apr-18	0%		-												1 1 1 1	
SIIIA13570	black top Achievement of Section IIIA of the Works	0		08-Sep-18	0%															
	emaining At-Grade Road & Road P2																			
																			_	
Roadwork &																				
Section 1 (L1	L504 - L1900)																			-
SV12456	Sec V-Roadwork & Utilities Section 1 - implementation of TTA stage 5E (closure of slow lane at northbound of Expo	0	20-Feb-18*	20-Feb-18	0%															
SV12460	Sec V - Roadwork & Utilities Section 1 - drinage works	15	20-Feb-18	08-Mar-18	0%															
SV12462	(L1902 - L1900) Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 -	6	09-Mar-18	15-Mar-18	0%															
SV12464	L1900) Sec V - Roadwork & Utilities Section 1 - temp. reinstatement	14	16-Mar-18	04-Apr-18	0%															
SV12466	to match with existing Expo Drive Sec V - Section 1 - Modification to 2nd stage ITA (V.O. 50) :	1	14-Jul-18	14-Jul-18	0%					_										
	closure of northbound and maintain one lane at southbound																			
SV12468	Sec V - Roadwork & Utilities Section 1 Carriageway - breaking existing asphalt	7	16-Jul-18	23-Jul-18	0%					•										
SV12490	Sec V - Roadwork & Utilities Section 1 Carriageway - Road kerb & formation	10	24-Jul-18	03-Aug-18	0%															
SV12520	Sec V - Roadwork & Utilities Section 1 Carriageway - Black top	7	04-Aug-18	11-Aug-18	0%					1	-									
SV12522	Sec V - Section 1 - Implementation of TTA for road closure	3	13-Aug-18	15-Aug-18	0%						٠									
SV12524	of northbound and southbound of Expo Drive Sec V - Section 1 - Northbound & Southbound of Expo Drive :	14	16-Aug-18	31-Aug-18	0%															
SV12526	breaking asphalt Sec V - Section 1 - Northbound & Southbound of Expo Drive :	14	01-Sep-18	17-Sep-18	0%															
SV12528	road kerb & formation Sec V - Section 1 - Northbound & Southbound of Expo Drive :	7	18-Sep-18	26-Sep-18	0%							_								
	black top											-								
SV12570	Sec V - Roadwork & Utilities Section 1 footpath - utilities:TCSS	12	29-Dec-17 A	05-Mar-18	60%															
SV12580	Sec V - Roadwork & Utilities Section 1 footpath - paving block	29	06-Mar-18	12-Apr-18	0%															
Section 2 (L	1510 - L1504)																			
SV12624	Sec V - Roadwork & Utilities Section 1 Carriageway - road kerb & formation	0	04-Jan-18 A	30-Jan-18 A	100%															
SV12626	Sec V - Roadwork & Utilities Section 1 Carriageway - black	13	31-Jan-18 A	06-Mar-18	0%															
SV12692	top Sec V - Roadwork & Utilities Section 2 footpath - U channel	11	17-Jan-18 A	03-Mar-18	21.43%	Entertaint														
SV12695	Sec V - Roadwork & Utilities Section 2 footpath - Watermain	13	05-Mar-18	19-Mar-18	0%															
SV12700	Sec V - Roadwork & Utilities Section 2 footpath - utilities: TCSS	16	20-Mar-18	11-Apr-18	0%															
SV12740	Sec V - Roadwork & Utilities Section 2 footpath - paving block	18	12-Apr-18	03-May-18	0%			•												
Section 3 (C	Culvert L - L1510)																			
SIV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCSS, HGC, PCCW)	30	16-Jan-18 A	26-Mar-18	11.76%															
SIV12880	Sec V - Roadwork & Utilities Section 3 footpath - Paving	21	27-Mar-18	24-Apr-18	0%															
Section 4 (K)	block 1106 - Culvert L)																			
SIV12282	Sec V - Roadwork & Utilities Section 4 Carriageway -	10	20-Feb-18	02-Mar-18	0%															
	Drainage Works (L1311 - Culvert L, L1201 - Culvert L)																			
SIV12300	Sec V - Roadwork & Utilities Section 4 Carriageway - Gully pipe (L1301 - Culvert L, L1201 - Culvert L)	7	03-Mar-18	10-Mar-18	0%															
SIV12302	Sec V - Roadwork & Utilities Section 4 Carriageway - watermain	6	12-Mar-18	17-Mar-18	0%															
SIV12305	Sec V - Roadwork & Utilities Section 4 Carriageway - utilities : cross road duct	7	19-Mar-18	26-Mar-18	0%															
SIV12310	Sec V - Roadwork & Utilities Section 4 Carriageway - Road	15	27-Mar-18	17-Apr-18	0%															
SIV12320	kerb & formation : between culvert K and culvert L Sec V - Roadwork & Utilities Section 4 Carriageway - Black	10	18-Apr-18	28-Apr-18	0%		_													
SIV12340	top : between culvert K and culvert L Sec V - Roadwork & Utilities Section 4 Carriageway - Black	7	20-Feb-18	27-Feb-18	0%															
	top : at west of culvert K Sec V - Roadwork & Utilities Section 4 footpath - Utilities :																			
SIV12422	TCSS	20	20-Feb-18	14-Mar-18	0%															
SIV12440	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : HGC & PCCW	8	15-Mar-18	23-Mar-18	0%															

			Pa	age : 3 / 7		
		2019	1		1	
Apr	May	Jun	Jul	Aug	Sep	Oct /
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									Centr	Wan	Chai	ntract Devel nai By	opme	nt Ph	ase II		st							Pa	ge:4/7		
rity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	Mar	Apr	May	Jun	2018 Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	2019 Jun	Jul	Aug	Sep	Oct
SIV12460	Sec V - Roadwork & Utilities Section 4 footpath - Paving	22	24-Mar-18	23-Apr-18	0%					incej			ribg	COP				oun	100		, interest	indy	bui	Uui	nug	ocp	
SV10300	block Achievement of Section V of the Works	0		26-Sep-18	0%																						
Section IV - S	lip Road 3																										
Roadwork &																											
								-						1 1 1 1													
	6608 - L1601)			1.4.4.4				_																			
SIV11747	Sec IV - sign gantry DS20 & DS21 footing (type 2): excavation & ELS	4	30-Dec-17 A	23-Feb-18	80.95%																						
SIV11748	Sec IV - sign gantry DS20 & DS21 footing (type 2): footing structure	21	24-Feb-18	20-Mar-18	0%			:																			
SIV11749	Sec IV - sign gantry DS20 & DS21 footing (type 2): removal of ELS and backfilling	10	21-Mar-18	04-Apr-18	0%			-																			
SIV11751	Sec IV - sign gantry DS21 footing (type 3): excavation	5	26-Mar-18	03-Apr-18	0%																						
SIV11752	Sec IV - sign gantry DS21 footing (type 3): footing structure	13	04-Apr-18	19-Apr-18	0%					2 2 2 2 2 2 2 3				4 4 4 4													
SIV11753	Sec IV - sign gantry DS20: install steel frame of gantry D20	14	15-Aug-18	30-Aug-18	0%																						
SIV11760	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	0	09-Dec-17 A	26-Jan-18 A	100%	Station and																					
	Drainage Works (L1607 - L1601)	•								8 8 8 8																	
SIV11761	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1602 - L2005)	0	20-Jan-18 A	27-Jan-18 A	100%																						
SIV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2103-L2101A)	17	29-Jan-18 A	10-Mar-18	0%																						
SIV11763	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L2004 - L2005, L2101 - L2101A)	21	20-Apr-18	15-May-18	0%																						
SIV11764	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Gully pipe (L1607-L1601)	21	12-Mar-18	09-Apr-18	0%																						
SIV11765	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	7	17-May-18	25-May-18	0%																						
SIV11780	Gully pipe (L2004) Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	18	26-May-18	15-Jun-18	0%						-			*													
SIV11800	Watermain Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	14	16-Jun-18	04-Jul-18	0%							-															
SIV11830	Utilities : TCSS crossroad duct Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway	24	05-Jul-18	01-Aug-18	0%																						
	- Road kerb & formation												_														
SIV11840	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Black top	11	02-Aug-18	14-Aug-18	0%																						
SIV11860	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - Drainage Works: future connection pipes	7	26-May-18	02-Jun-18	0%					-										-							
SIV11880	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - watermain	7	04-Jun-18	11-Jun-18	0%																						
SIV11900	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - utilities: HEC & TCSS	39	12-Jun-18	28-Jul-18	0%																						
SIV11920	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath -	17	30-Jul-18	17-Aug-18	0%							1		5 5 6 8 9													
Section 2 (L	paving block 2301 - L2103)						-																				
SIV11942	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	0	28-Dec-17 A	23-Jan-18 A	100%																						
SIV11960	Gully pipe (L2301-L2013, L1608-L1609) Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	0	24-Jan-18 A	03-Feb-18 A	100%																						
SIV12010	Watermain Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	20	05-Feb-18 A	14-Mar-18	0%									2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2													
	Road kerb & formation	7																									
SIV12020	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Black top	/	15-Mar-18	22-Mar-18	0%										ļ			ļ						ļ			
SIV12040	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath - Drainage Works: future connection pipes	7	07-Mar-18	14-Mar-18	0%																						
SIV12060	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath - utilities: TCSS	25	15-Mar-18	17-Apr-18	0%																						
SIV12080	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath - paving block	21	18-Apr-18	12-May-18	0%																						
Section 3 (N	//H1.6 - L2301)																										
SIV12092	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	38	28-Dec-17 A	09-Apr-18	35.59%		-		-																		
SIV12096	Drainage Works (M/H1.7 - L2301) Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	0	29-Nov-17 A	24-Jan-18 A	100%			•••							+						+						
SIV12102	M1.7-M1.6: construct manholes Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway	0	25-Jan-18 A	08-Feb-18 A	100%	1																					
	M1.7-M1.6: demolish existing seawall Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway	- 10	09-Feb-18 A	02-Mar-18	0%	1		100																			
SIV12103	M1.7-M1.6: ELS					1			-																		
SIV12104	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: Construct manhole & pipes		03-Mar-18	11-Apr-18	0%									-													
SIV12120	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway Drainage Works (M1.6-C1.1-C1.2): ELS,construct MH and	- 28	12-Apr-18	15-May-18	0%																						

CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West Activity ID ctivity Nan emaining Dur Early Start Early Finis Activity % Complete Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr SIV12121 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway 16-May-18 23-May-18 0% 6 Drainage Works (M1.6-C1.1-C1.2): Backfilling & shift lane STV12122 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway Drainage Works (M1.6-C1.1-C1.2): Construct MH C1.2 5 24-May-18 29-May-18 0% SIV12140 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -32 10-Apr-18 17-May-18 0% Gully pipe (M/H 1.7 - L2301) SIV12150 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -14 18-May-18 04-Jun-18 0% Road kerb Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -SIV12155 10 05-Jun-18 15-Jun-18 0% formation SIV12160 Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway 7 16-Jun-18 25-Jun-18 0% Black top SIV12170 Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -21 10-May-18 04-Jun-18 0% Utilities: TCSS SIV12180 Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U 10 05-Jun-18 15-Jun-18 0% channel SIV12220 Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -25 16-Jun-18 17-Jul-18 0% Paving block SIV12222 Achievement of Section IV of the Works 0 30-Aug-18 0% Section VII - Remainder Works Road & Drainage Works (Culvert L - M/H1.7, Adjacent to SR3) SVII11600 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -48 08-1an-18 A 20-Apr-18 18.64% Drainage Works (Culvert L -MH1.7) Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway : SVII11620 3 21-Apr-18 24-Apr-18 0% traffic diversion at Lung King Street SVII11640 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 27 25-Apr-18 28-May-18 0% -Gully pipe (Culvert L -MH1.7) SVII11650 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 29-May-18 05-Jun-18 0% TCSS duct SVII11654 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 14 06-Jun-18 22-Jun-18 0% road kerb & formation SVII11660 Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway 6 23-lun-18 29-Jun-18 0% Black top SVII11680 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U 14 29-May-18 13-Jun-18 0% channel SVII11700 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -14 14-Jun-18 30-Jun-18 0% utilities: TCSS SVII11720 Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -14 03-Jul-18 18-Jul-18 0% naving block **Retaining Wall RW5 Construction** SVII10660 Sec VII - Retaining Wall RW5 (bay 1) - construct base slab 22 20-Mar-18 18-Apr-18 0% Contraction of and wall SVII10680 Sec VII - Retaining wall RW5 (bay 2) - construct base slab 22 19-Apr-18 15-May-18 0% Concernant of and wall Sec VII - Retaining wall RW5 (bay 3) - construct base slab SVII10800 22 20-Mar-18 18-Apr-18 0% and wall SVII10820 Sec VII - Retaining wall RW5 (bay 4) - construct base slab 22 19-Apr-18 15-May-18 0% and wall SVII10860 Sec VII - Retaining wall RW5 - curing, removal formwork 8 16-May-18 25-May-18 0% Landing Steps Construction Landing Steps BSW13 SVII10900 Sec VII - Landing steps (BSW13) - install vertical fender / 15 15-May-18 01-Jun-18 0% step fender SVII10920 Sec VII - Landing steps (BSW13) - install s.s. handrail / 25 02-Jun-18 0% 03-Jul-18 tactile / sign board / bollard Landing Steps BSW4 SVII10980 Sec VII - Landing steps (BSW4) - install vertical fender / step 15 20-Jun-18 07-Jul-18 0% fender SVII11000 Sec VII - Landing steps (BSW4) - install s.s. handrail / tactile 25 09-Jul-18 06-Aug-18 0% / sign board / bollard Landing Steps BSW5 SVII11060 Sec VII - Landing steps (BSW5) - install vertical fender / step 15 25-Jul-18 10-Aug-18 0% fender SVII11080 Sec VII - Landing steps (BSW5) - install s.s. handrail / tactile 25 11-Aug-18 08-Sep-18 0% / sign board / bollard Landing Steps BSW9 SVII11140 Sec VII - Landing steps (BSW9) - Install vertical fender / step 15 13-Jun-18 30-Jun-18 0% fender SVII11160 Sec VII - Landing steps (BSW9) - install s.s. handrail / tactile 25 03-Jul-18 0% 31-Jul-18 / sign board / bollard

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						CEDD Contract No. HK/2012/08 Page:6/7 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West
	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	2018 2019 Jan Feb Mar Apr May Jun Jul Aug Sep Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Sep
romenade S	eawall Parapet Construction & EVA					
SVII12000	Sec VII - Precast parapet	67	18-Nov-17 A	14-May-18	0%	
VII12010	Sec VII - Zone CRIII - seawall parapet: Backfilling	14	20-Feb-18	07-Mar-18	0%	
SVII12120	Sec VII - Zone CRIII - seawall parapet: Construct mass	30	08-Mar-18	16-Apr-18	0%	
VII12122	concrete coping Sec VII - Zone CRIII - seawall parapet: reinforced concret	17	17-Apr-18	07-May-18	0%	
VII12140	coping Sec VII - Zone CRIII - seawall parapet: construct seawall	30	08-May-18	12-Jun-18	0%	
VII12160	parapet Sec VII - CRIII - EVA: watermain	14	13-Jun-18	29-Jun-18	0%	
		14		17-Jul-18		
WII12180	Sec VII - CRIII - EVA: U-channel		30-Jun-18		0%	
SVII12200	Sec VII - CRIII - EVA: bituminous layer	5	18-Jul-18	23-Jul-18	0%	
SVII12220	Sec VII - CRIII - EVA: paving block	30	24-Jul-18	27-Aug-18	0%	
SVII13120	Sec VII - Zone A1, A2 & B - seawall parapet: Construct mass concrete coping	14	28-Dec-17 A	07-Mar-18	68.18%	
SVII13122	Sec VII - Zone A1, A2 & B - seawall parapet: reinforced concrete coping	18	08-Mar-18	28-Mar-18	0%	
SVII13140	Sec VII - Zone A1, A2 & B - seawall parapet: Construct seawall parapet	30	09-Apr-18	14-May-18	0%	
VII13160	Sec VII - Zone A1, A2 & B - EVA: watermain	14	15-May-18	31-May-18	0%	
SVII13180	Sec VII - Zone A1, A2 & B - EVA: U-channel	14	01-Jun-18	16-Jun-18	0%	
SVII13182	Sec VII - Zone A1, A2 & B - EVA: bituminous layer	5	19-Jun-18	23-Jun-18	0%	
VII13184	Sec VII - Zone A1, A2 & B - EVA: paving block	30	25-Jun-18	30-Jul-18	0%	
SVII13200	Sec VII - Zone D - seawall parapet: Remove temporary	21	07-Mar-18	03-Apr-18	0%	
SVII13220	seawall block Sec VII - Zone D - seawall parapet: Construct mass concrete	30	04-Apr-18	10-May-18	0%	
SVII13222	Sec VII - Zone D - seawall parapet: reinforced concrete	18	11-May-18	01-Jun-18	0%	
SVII13240	coping Sec VII - Zone D - seawall parapet: Construct seawall	25	02-Jun-18	03-Jul-18	0%	
	parapet					
SVII13260	Sec VII - Zone D - EVA : watermain	14	04-Jul-18	19-Jul-18	0%	
SVII13280	Sec VII - Zone D - EVA : U-channnel	14	20-Jul-18	04-Aug-18	0%	
SVII13300	Sec VII - Zone D - EVA : bituminous layer	5	06-Aug-18	10-Aug-18	0%	
SVII13320	Sec VII - Zone D - EVA : paving block	30	11-Aug-18	14-Sep-18	0%	
Promenade F	potpath					
Section 1						
SVII10440	Sec VII - section 1 footpath - drainage works : connection pipe & U -channel	10	24-May-18	04-Jun-18	0%	
SVII10445	Sec VII - section 1 footpath - watermain	7	05-Jun-18	12-Jun-18	0%	
SVII10460	Sec VII - section 1 footpath - lighting	7	13-Jun-18	21-Jun-18	0%	
SVII10500	Sec VII - section 1 footpath - paving block	21	22-Jun-18	17-Jul-18	0%	
Section 2		Non-Stand	NONE NET		ALC: NO	
SVII12610	Sec VII - section 2 footpath - drainage works : L2202 -	20	20-Feb-18	14-Mar-18	0%	
	L2203A Sec VII - section 2 footpath - watermain	7	15-Mar-18	22-Mar-18	0%	
SVII12630	Sec VII - section 2 footpath - utilities: TCSS	21	23-Mar-18	20-Apr-18	0%	
		30			0%	
	Sec VII - section 2 footpath - paving block	UC	21-Apr-18	28-May-18	070	
Section 3						
SVII12850	Sec VII - section 3 footpath - watermain	17	20-Feb-18	10-Mar-18	0%	
SVII12870	Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, PCCW)	40	12-Mar-18	02-May-18	0%	
SVII12875	Sec VII - 3 footpath - drainage works :U chanel	14	03-May-18	18-May-18	0%	

		Remaining Dur			CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West															
ID	Activity Name		Early Start	Early Finish	Activity % Complete	2018														
SVII12890	Sec VII - section 3 footpath - paving block	30	19-May-18	25-Jun-18	0%	June 1		- Au				Aug	Sep	Oct	NOV	Dec	Jan	Feb	Mar	
Section 4																				
SVII13049	Sec VII - section 4 footpath - watermain	1	14-Nov-17 A	20-Feb-18	95.24%															
SVII13050	Sec VII - section 4 footpath - drainage works (L2203	21	21-Feb-18	16-Mar-18	0%								-							
SVII13055	-L2203A) Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC &	49	17-Mar-18	18-May-18	0%															
SVII13110	PCCW Sec VII - section 4 footpath - paving block	25	19-May-18	19-Jun-18	0%						1									
Section 5																				
SVII13270	Sec VII - section 5 footpath - drainage works :L2203A	14	17-Mar-18	06-Apr-18	0%															
SVII13275	-L2204 Sec VII - section 5 footpath - watermain	14	07-Apr-18	23-Apr-18	0%															
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC,	42	24-Apr-18	13-Jun-18	0%				-											
SVII13330	PCCW Sec VII - section 5 footpath - paving block	22	14-Jun-18	11-Jul-18	0%															
Section 6					10.000															
SVII13490	Sec VII - section 6 footpath - drainage works(Culvert L -	14	20-Feb-18	07-Mar-18	0%															
SVII13510	L2204) Sec VII - section 6 footpath - watermain	13	08-Mar-18	22-Mar-18	0%															
SVII13514	Sec VII - section 6 footpath - U channel	20	23-Mar-18	19-Apr-18	0%															
SVII13530	Sec VII - section 6 footpath - utilities: HEC, TCSS, HGC,	49	23-Mar-18	25-May-18	0%															
SVII13550	PCCW Sec III A - section 6 footpath - paving block	25	26-May-18	25-Jun-18	0%						-									
SVII19420	Achievement of Section VII of the Works	0		14-Sep-18	0%								•							
Section VIII -	Landscape Softworks																			-
Soft Landsca																				
				21.0.10																
SVIII10040	Sec VIII - Trees Planting	141	04-May-18	21-Sep-18	0%															
SVIII10060	Sec VIII - Shrubs Planting	141	04-May-18	21-Sep-18	0%															
SVIII10080	Achievement of Section VIII of the Works	0		21-Sep-18	0%								•							
Section IX - E	stablishment Works																			
Soft Landsca	ping Works																			
SIX10020	Sec IX - Establishment Works	365	22-Sep-18	21-Sep-19	0%									1	1	-				
SIX10040	Achievement of Section IX of the Works	0		21-Sep-19	0%															
Section X - Pr	rotection & Preservation of Trees			The sea																
Summary of	Section X - Protection & Preservation of Trees																			
SX10000	Achievement of Section X of the Works	0		21-Sep-18	0%															
Soft Landsca	ping Works																			
									:				1				1	8	4	

