

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 (August 2018)

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

- AUGUST 2018 -

CLIENTS:

Civil Engineering and Development Department

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CERTIFIED BY:

Raymond Dai Environmental Team Leader

DATE:

12 September 2018



Ref.: AACWBIECEM00_0_10702L.18

12 September 2018

By Post and Fax (2691 2649)

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

Attention: Mr. Conrad Ng

Dear Mr. Ng,

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

Monthly Environmental Monitoring and Audit Report (August 2018) for EP-376/2009, FEP-01/376/2009 and FEP-02/376/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for August 2018 received by email on 12 September 2018 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,

David Yeung Independent Environmental Checker

C.C.	CEDD	Attn: Mr. L K Tsang	by fax: 2577 5040
	Lam	Attn: Mr. Raymond Dai	by fax: 2882 3331
	AECOM	Attn: Mr. Francis Leong/ Stephen Lai	by fax: 2691 2649

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Lam Geotechnics Limited

EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report August 2018 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 July 2018 to 26th August 2018. The cut-off date of reporting is at 26th of each reporting month.
- ii. 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>
 - Drainage
 - Roadworks

Noise Monitoring

- iii. Noise monitoring was conducted at M1a 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.
- vi. No action or limit level exceedance was recorded in this reporting month.

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 Contractor HK/2012/08 Site Office.
- viii. No action or limit level exceedance was recorded in this reporting month.

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>

- Drainage
- Roadworks



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-458/2008).

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 July 2018 to 26th August 2018. 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.

ltem	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-Leader 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*:

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Chief Resident Engineer	Ms. Gloria Tang	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3922 3388	3912 3010
China State- Build King under Cont	under Contract	Project Director	C. N. LAI	9106 5806	2877 1522
Joint Venture	nt 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

Table 2.2 Contact Details of Key Personnel



- 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>
 - Drainage
 - Roadworks
- 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>

- Drainage
- Roadworks



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	Valid
Construction Noise Permit	GW-RS0602-18	10 Jul 2018	13 Jul 2018 to 12 Jan 2019	Valid
	GW-RS0243-18	27 Mar 2018	5 Apr 2018 to 4 Oct 2018	Valid



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. 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.
- 4.2.11. Current calibration certificates of equipment are presented in Appendix 4.2.



5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of 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*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contract is:
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West.
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

5.1.1 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 No action or limit level exceedance was recorded in this reporting month.
- 5.1.3 The noise monitoring results measured in this reporting period are reviewed and summarized. Details of the noise monitoring results and graphical presentation can be referred to <u>Appendix</u> <u>5.2.</u>



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 No action or limit level exceedance was recorded at CMA5b Pedestrian Plaza and CMA6a WDII PRE Site Office in this reporting month.
- 5.2.3 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.



5.3 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
1 40/0 0.0	

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 <u>Appendix 6.1</u>.

6.1 Noise Monitoring

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

6.2 Air Quality Monitoring

6.2.1 No action or limit level exceedance was recorded at CMA5b – Pedestrian Plaza and CMA6a – WDII PRE Site Office in this reporting month.

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

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

6.4 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.



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 include roadworks, drainage and seawall coping were performed in August 2018 reporting period. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were road and drains construction and removal of temporary reclamation at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building construction junction modification at Central; reinstatement works along Causeway Bay Typhoon Shelter, road works and landscape works at Victoria Park; bridge construction, approach ramp construction, landscape deck construction, drainage construction and ventilation building construction at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North and North Point area.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the water, air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



8 ENVIRONMENTAL SITE AUDIT

8.0.1. Four site inspections for Contract no. HK/2012/08 were carried out on 31 July, 7, 14 and 21 August 2018 in this reporting period. The results of inspection and outcome are summarized in *Table 8.1.*

ltem	Date	Observations Action taken by Contractor		Outcome	
180731_01 31-Jul-18		Contractor shall enhance the mitigation measure including covering the exposed surface and clean the mud sitting along the seawall and ensure there is no gap between the seawall bricks. (Seawall along P2 road)	Exposed surface was covered by tarpaulin and the mud sitting along the seawall was cleaned, no surface runoff was observed.	Completion as observed on 7 August 2018	
180731_02	31-Jul-18	Chemical containers should be properly handled and disposal. (Zone C)	Chemical containers were removed	Completion as observed on 7 August 2018	
180807_01	7-Aug-18	Sufficient dust mitigation shall be provided to dusty surface to avoid dust emission. (Zone C)	Water spraying has implemented.	Completion as observed on 14 August 2018	
180807_02	7-Aug-18	Contractor shall provide cleaning to the site access. (A2 road)	The site access was cleaned properly.	Completion as observed on 28 August 2018	



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 <u>Appendix 9.1</u>
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Reporting Period	No. of Complaints
Commencement works (May 2015) to last reporting month	0
August 2018	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



Lam Geotechnics Limited

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>.

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2012/08	DrainageRoadworks	 Dust control during dust generating works; Implementation of proper noise pollution control; and
		Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system

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



Figure 2.1

Project Layout

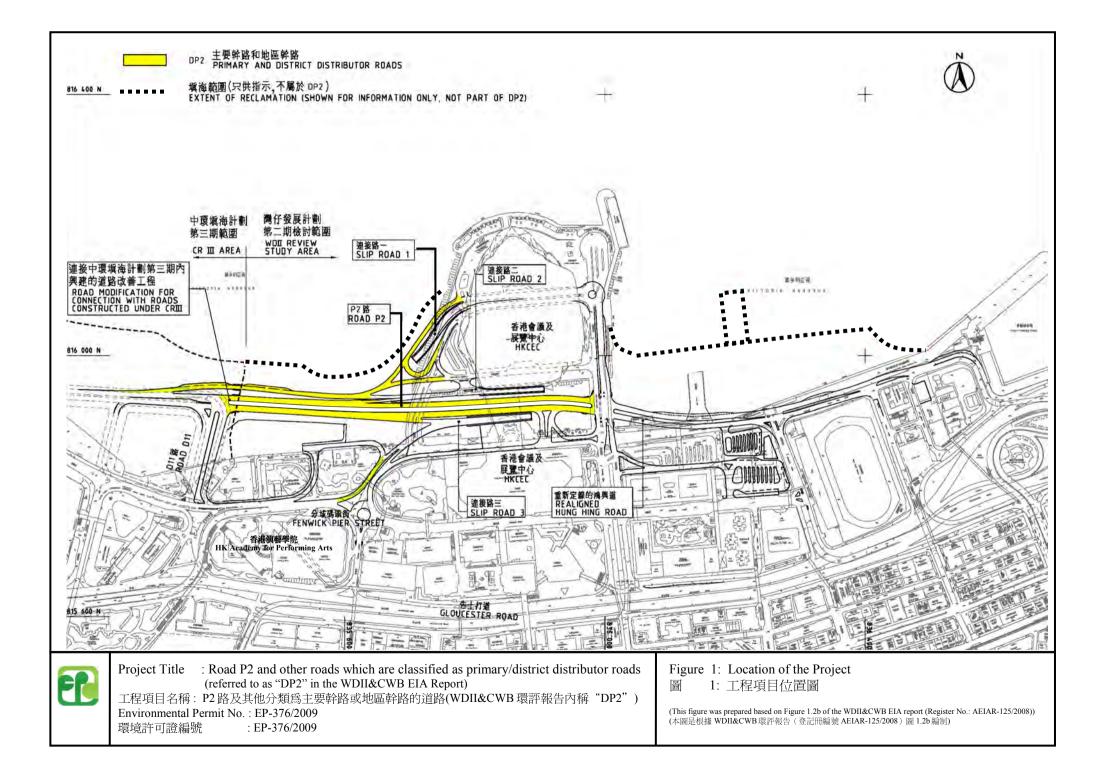




Figure 2.2

Project Organization Chart



Project Organization Chart

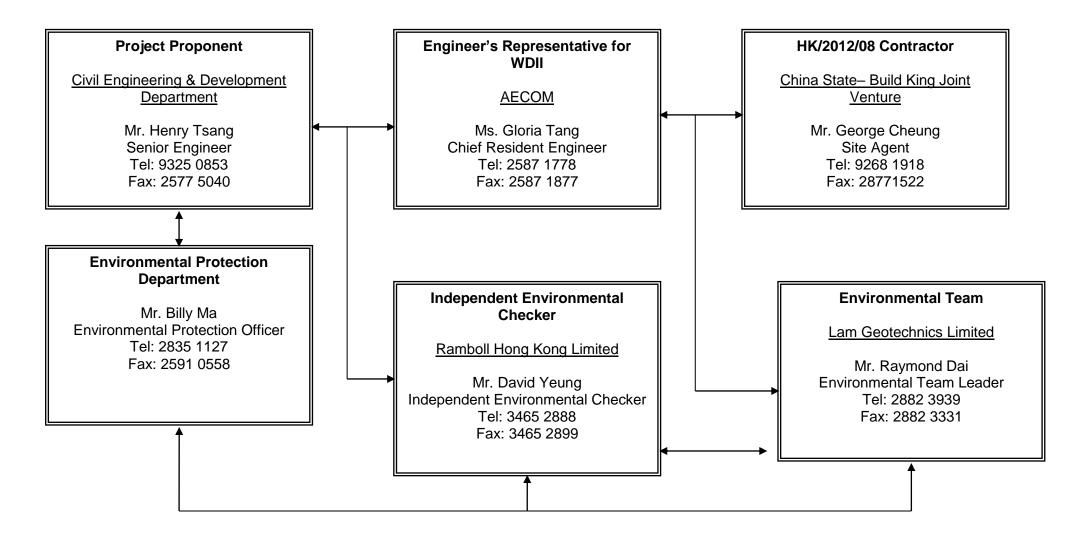
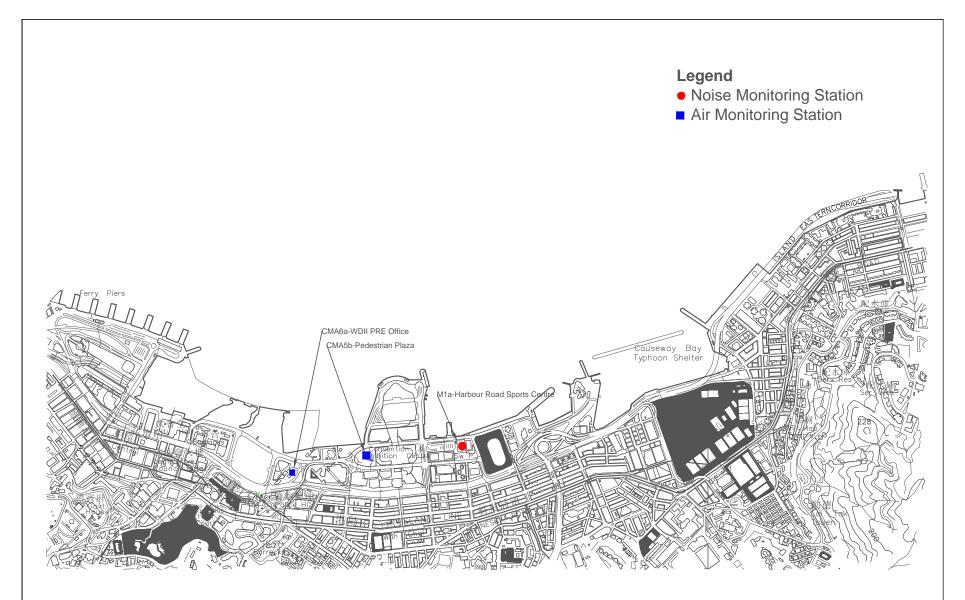




Figure 4.1

Locations of Monitoring Stations



LOCATIONS OF AIR QUALITY AND NOISE 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			ement	tation	stage	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
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 / Mitigation Measures	Location / Timing Implementation			emen	tation	stage	Relevant Legislation
			Agent	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 material discharges 					
	maintained between the storm water discharges and the existing or planned WSD flushing water					
	intakes during construction phase.					
S5.8	Sewage from Construction Work Force	Work site / during	Contractor	\checkmark		ProPECC PN 1/94;
	Construction work force sewage discharges on	construction				WPCO (TM-DSS)
	site shall be connected to the existing trunk sewer or sewage treatment facilities. The					
	construction sewage shall be handled by portable					
	chemical toilets prior to the commission of the					
	on-site sewer system. Appropriate numbers of					
	portable toilets shall be provided by a licensed contractor to serve the large number of					
	construction workers over the construction site.					
	The Contractor shall also be responsible for					
	waste disposal and maintenance practices.					

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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 /	Location / Timing	Implementation Agent	Implementation stage				Relevant Legislation
	Mitigation Measures	0		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	V	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	\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 L	evel inµg/m3
	Action Level Limit Level A		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 4.2

Copies of Calibration Certificates

15	60	21-			6		D	ALIBRATION
_					2		Janua	ary 24, 201
nvir	onm	ent	al	-				
•	Ce	rtifa	cate of		Cal	ibri	ntion	
			Calibration (Certificatio	n Informat	ion		
Cal. Date:	January 24	2018	Rootsr	neter S/N:	438320	Tav	293	°K
Operator:	Jim Tisch	V1251			450520			1.2.92
		10.20 II 40.30 M				Pa:	756.9	mm Hg
Calibration	Model #:	TE-5025A	Calib	rator S/N:	3166			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	40		1
	Run	(m3)	(m3)			ΔP	ΔH ('- 1120)	
	1	1	(113)	(m3) 1	(min) 1.4430	(mm Hg)	(in H2O)	-
	2	3	4	1	1.0270	3.2	2.00	-
	3	5	6	1	0.9220	7.9	5.00	· · ·
	4	7	8	1	0.8780	8.7	5.50	
	5	9	10	1	0.7270	12.6	8.00	
						12.0	0.00]
			D	ata Tabulat	ion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆н(та/Ра)	
	(m3)	(x-axis)	(y-axi	s)	Va	(x-axis)	(y-axis)	
	1.0087	0.6990	1.423	3	0.9958	0.6901	0.8799	
	1.0044	0.9780	2.012		0.9915	0.9655	1.2443	
	1.0024	1.0872	2.250		0.9896	1.0733	1.3912	
	1.0013	1.1404	2.360		0.9885	1.1259	1.4591	-
	0.9961	1.3701	2.846		0.9834	1.3526	1.7598	
	OCTO		2.122			m=	1.32895	
	QSTD	b=	-0.060		QA [b=	-0.03719	
		r=	0.9999	99		r=	0.99999	
				Calculation	s			1
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔF	P)/Pa)	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subseque	ent flow rat	e calculation	IS:		
	Qstd=	1/m ((\\ \[\L_H (-	Pa (Tstd) Pstd (Ta))-b)	Qa=	1/m ((√∆H	(Ta/Pa))-b)	
	Standard	Conditions						La la constante de la constante
Tstd:	298.15			Г		RECAL	IBRATION	
Pstd:		nm Hg		H				
		ey					nual recalibratio	
		er reading (in					egulations Part 5	
ΔP: rootsme	ter manome	ter reading (mm Hg)				Reference Meth	
	Southe temp	erature ("K)			Dotorminati	on of Surn	ended Particulate	Adattar in
Ta: actual ab Pa: actual ba			49)				re, 9.2.17, page 3	Contraction of the second s

Tisch Environmental, Inc. 145 South Miami Avenue



Calibration Data for High Volume Sampler (TSP Sampler)

Location Equipment no. CMA5b HVS010

Calibration Date	:	27-Ju
Calibration Due Date	:	27-Au

ın-18 Jg-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C			
Temperature, T _a		302.	.2	Kelvin	Pressure, P _a		1010 mmHg
			Orifice	Transfer Star	ndard Information		
Equipment No.		Ori002		Slope, m _c	2.12231	Intercept, bc	-0.06016
Last Calibration Date		19-Jan-1	8		(HxP	a / 1013.3 x 298 /	(T _a) ^{1/2}
Next Calibration Date		19-Jan-1	9		=	$m_c \times Q_{std} + b_c$	
				Calibration	of TSP		
Calibration	Ma	nometer R	eading	Q	std	Continuous Flow	IC
Point	н	inches of	water)	(m ³ /	min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31
	(up)	(down)	(difference)	X-a	xis	(CFM)	Y-axis
1	1.5	1.5	3.0	0.8	375	28	27.7594
2	2.3	2.3	4.6	1.03	302	36	35.6907
3	3.5	3.5	7.0	1.20	543	43	42.6306
4	4.3	4.3	8.6	1.39	983	47	46.5962
5	5.5	5.5	11.0	1.57	777	52	51.5532
y Linear Regression of Y o	n X						
	Slope, m	=	31.7	389	Intercep	ot, b = 2.	0745
Correlation C	oefficient*	=	0.99	968			
Calibration	Accepted	=	Yes/	No**			

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

** Delete as appropriate.

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

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

Calibrated by Date

Natalie Lau 27-Jun-18

Checked by Date

Pauline Wong 27-Jun-18



Calibration Data for High Volume Sampler (TSP Sampler)

Location Equipment no. CMA6a HVS013

Calibration Date	:	27
Calibration Due Date	:	27

27-Jun-18 27-Aug-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C			A State of State of State		
Temperature, T _a		302.	2	Kelvin	Pressure, P _a		1	010 mmH	Чg
		San Bar	Orifice T	ransfer Star	ndard Informat	tion			-
Equipment No.		Ori002		Slope, m _c	2.12231		Intercept, bc	-0.06016	
Last Calibration Date		19-Jan-1	8	(H x P _a / 1013.3 x 298 / T _a) ^{1/2}					
Next Calibration Date		19-Jan-1	9		=	m _c ;	$x Q_{std} + b_c$		
				Calibration	n of TSP				
Calibration	Ma	nometer R	eading	Q	std	Contin	nuous Flow	IC	
Point	н	(inches of	water)	(m ³ /	min.)	Rec	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /3	35.31
	(up)	(down)	(difference)	X-a	ixis	((CFM)	Y-axis	
1	1.6	1.6	3.2	0.8	640		30	29.7423	
2	2.6	2.6	5.2	1.0	936		38	37.6735	
3	3.4	3.4	6.8	1.2	465		44	43.6220	
4	4.9	4.9	9.8	1.4	907		50	49.5704	
5	5.8	5.8	11.6	1.6	194		57	56.5103	
By Linear Regression of Y o	n X								
	Slope, m	=	34.0	385	Inter	cept, b =	0.4	4390	
Correlation C	oefficient*	=	0.99	52					
Calibration Accepted = Yes/No**									

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

:

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL551 to HVS013 with respect to the update in quality management system.

Calibrated by Date Natalie Lau 27-Jun-18 Checked by Date Pauline Wong 27-Jun-18



综合試驗 有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

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



CERTIFICATE OF CALIBRATION

Certificate No.:	18CA0322 01			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Meter (Larson Davis LxT1 0003737 -	Type 1)	, , ,	Microphone PCB 377B02 171529			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	Lam Geotechnics Lto - - 22-Mar-2018	d.					
Date of test:	28-Mar-2018						
Reference equipment	used in the calibra	tion					
Description: Multi function sound calibrator Signal generator	Model: B&K 4226 DS 360	Serial No. 2288444 61227		Expiry Date: 08-Sep-2018 01-Apr-2018		Traceabl CIGISMEC CEPREI	
Ambient conditions							
Temperature: Relative humidity:	21 ± 1 °C 50 ± 10 %						

ZI±IC
50 ± 10 %
1005 ± 5 hPa

Test specifications

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

Test results

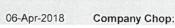
This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:







Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

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

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2

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA0322 01

Page 2 of

1, Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	С	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	N/A	N/A	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

2	Λ	- End -	J.	
Calibrated by:	1~1	Checked by:	1	
	Fung Chi Yip		Lam Tze Wai	
Date:	28-Mar-2018	Date:	06-Apr-2018	

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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

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E-mail: smec@cigismec.com Website: www.cigismec.com

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CERTIFICATE OF CALIBRATION

Certificate No.:	17CA1110 02	Page:	1	of	2
Item tested					
Description:	Acoustical Calibrator (Class 1)				
Manufacturer:	Rion Co., Ltd.				
Type/Model No	NC-73				
Serial/Equipment No.:	10707358				
Adaptors used:					
Item submitted by					
Curstomer:	Lam Geotechnics Ltd.				
Address of Customer:	-				
Request No.:	-				
Date of receipt:	10-Nov-2017				

Date of test:

.....

14-Nov-2017

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2239857	05-May-2018	
Measuring amplifier	B&K 2610	2346941		CEPREI
Signal generator	DS 360	61227	03-May-2018	CEPREI
Digital multi-meter	34401A		01-Apr-2018	CEPREI
Audio analyzer		US36087050	25-Apr-2018	CEPREI
	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B 1. and the lab calibration procedure SMTP004-CA-156.

The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique. 2.

The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference 3. pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jia Min/Feng Jun Qi

15-Nov-2017 Company Chop:



Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

@ Soils & Materials Engineering Co . Ltd

Approved Signatory:

Form No CARP156-1/Issue 1/Rev D/01/03/2007

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. HOKLAS 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No .:

17CA1110 02

Page: 2 of 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency Shown	Output Sound Pressure Level Setting	Measured Output Sound Pressure Level	Estimated Expanded Uncertainty
Hz	dB	dB	dB
1000	94.00	93.93	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.008 dB
Estimated expanded uncertainty	0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz	Actual Frequency = 991.5 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.3 %
Estimated expanded uncertainty	0.7 %

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

1/Rev C/01/05/2005

	7	- End -	$\Lambda \uparrow$
Calibrated by:	St.	Checked by:	1~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Date:	La Steng Jie 14-Nov-2017	Date:	Fung Chi Yip 15-Nov-2017

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

Co. Ltd.	Form No CARP156-2/Issue

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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)

August 2018

Environmental Monitoring Schedule

Sunday Monday Tuesday Wednesday Friday Saturday Thursday 27-Jul 28-Jul 24hr TSP 31-Jul 30-Jul 01-Aug 02-Aug 03-Aug 29-Ju 04-Aug 1hr TSP 24hr TSP 1hr TSP Noise (daytime) 07-Aug 09-Aug 05-Aug 06-Aug 08-Aug 10-Aug 11-Aug 24hr TSP 1hr TSP Noise (daytime) 12-Aug 13-Aug 14-Aug 15-Aug 16-Aug 17-Aug 18-Aug 24hr TSP 1hr TSP Noise (daytime) 20-Aug 24-Aug 19-Aug 21-Aug 22-Aug 23-Aug 25-Aug 24hr TSP 1hr TSP Noise (daytime)

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 September 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	01-Sep
	24hr TSP Noise (daytime)	1hr TSP Noise (daytime)				24hr TSP
02-Sep	03-Sep	04-Sep	05-Sep	06-Sep	07-Sep	08-Sep
	1hr TSP Noise (daytime)	Noise (daytime)			24hr TSP	1hr TSP
09-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
		Noise (daytime)		24hr TSP	1hr TSP	
16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep
		Noise (daytime)	24hr TSP	1hr TSP		
	24-Sep 24hr TSP Noise (daytime)	25-Sep	26-Sep 1hr TSP			



Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result for EP-376/2009

Day Time (0700 - 1900hrs on normal weekdays)

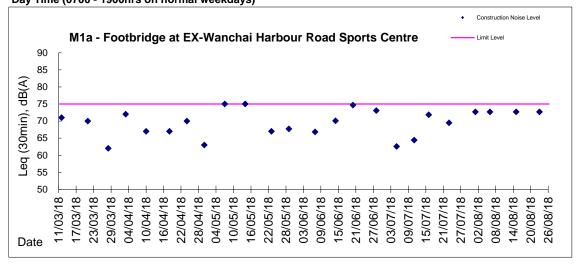
Location: M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dE	8(A), (30-min)	
01/08/2018	10:25	Cloudy	72.7	74.9	69.3	73	73	75
06/08/2018	14:43	Fine	67.7	69.8	65.1	73	68	75
15/08/2018	10:22	Cloudy	73.2	75.1	68.5	73	64	75
23/08/2018	11:25	Cloudy	72.3	74.9	66.4	73	72	75

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

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





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP mo	onitoring for EP-376/2009
Action Level -	209.9 µg/m3
Limit Level -	260 µg/m3

Date	Sampling	Weather	Filter paper	Filter Weigh	Filter Weight, g		Elapse Time, hr		Flow Rate, m ³ /min		min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Jul-18	08:00	Fine	26540	2.6619	2.7104	10606.44	10630.44	24.00	1.07	1.07	1.07	1544	31.4
03-Aug-18	08:00	Cloudy	26610	2.6689	2.7240	10633.44	10657.44	24.00	1.07	1.07	1.07	1542	35.7
09-Aug-18	08:00	Cloudy	26716	2.6861	2.7598	10660.44	10684.44	24.00	1.07	1.07	1.07	1544	47.7
15-Aug-18	08:00	Cloudy	26747	2.6836	2.7362	10687.44	10711.44	24.00	1.07	1.07	1.07	1543	34.1
21-Aug-18	08:00	Rainy	27071	2.6963	2.8003	10714.44	10738.44	24.00	1.07	1.07	1.07	1542	67.4

Report on 1-hour TSP monitoring for EP-376/2009 Action Level - 339.7 µg/m3 Limit Level - 500 µg/m3

Date	Sampling	Weather	Filter paper	lter paper Filter Weight, g		Elapse Time, hr Sampling			Flo	w Rate, m ³ /	Total	TSP Level,	
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
30-Jul-18	08:20	Fine	26694	2.6651	2.6676	10630.44	10631.44	1.00	1.07	1.07	1.07	64	38.9
30-Jul-18	09:30	Fine	26700	2.6784	2.6818	10631.44	10632.44	1.00	1.07	1.07	1.07	64	52.9
30-Jul-18	13:00	Fine	26620	2.6579	2.6635	10632.44	10633.44	1.00	1.07	1.07	1.07	64	87.1
04-Aug-18	08:04	Cloudy	26708	2.6726	2.6748	10657.44	10658.44	1.00	1.07	1.07	1.07	64	34.2
04-Aug-18	09:43	Cloudy	26834	2.6479	2.6504	10658.44	10659.44	1.00	1.07	1.07	1.07	64	38.9
04-Aug-18	13:00	Cloudy	26825	2.6626	2.6650	10659.44	10660.44	1.00	1.07	1.07	1.07	64	37.3
10-Aug-18	08:04	Rainy	26934	2.6619	2.6630	10684.44	10685.44	1.00	1.07	1.07	1.07	64	17.1
10-Aug-18	09:45	Rainy	26931	2.6666	2.6691	10685.44	10686.44	1.00	1.07	1.07	1.07	64	38.8
10-Aug-18	10:50	Rainy	26924	2.6785	2.6877	10686.44	10687.44	1.00	1.07	1.07	1.07	64	142.7
16-Aug-18	08:05	Cloudy	27076	2.6681	2.6888	10711.44	10712.44	1.00	1.07	1.07	1.07	64	321.9
16-Aug-18	09:10	Cloudy	26682	2.6668	2.6680	10712.44	10713.44	1.00	1.07	1.07	1.07	64	18.7
16-Aug-18	10:10	Cloudy	27074	2.6988	2.7010	10713.44	10714.44	1.00	1.07	1.07	1.07	64	34.2
22-Aug-18	08:30	Rainy	26859	2.6581	2.6636	10738.44	10739.44	1.00	1.07	1.07	1.07	64	85.7
22-Aug-18	09:33	Rainy	27016	2.6839	2.6880	10739.44	10740.44	1.00	1.07	1.07	1.07	64	63.9
22-Aug-18	10:35	Rainy	27019	2.6879	2.6933	10740.44	10741.44	1.00	1.07	1.07	1.07	64	84.1



Location: CMA6a - WDII PRE Office

Report on 24-hour TSP monitoring for EP-376/2009

Action Level -	207.1 µg/m3
Limit Level -	260 µg/m3

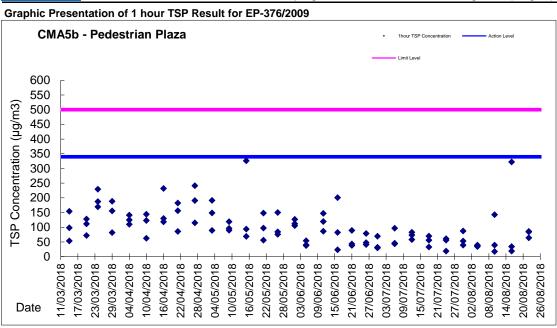
Date	Sampling	Weather	Filter paper	ilter paper Filter Weight, g			Elapse Time, hr Sampling		Flo	w Rate, m ³ /r	Total	TSP Level,	
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Jul-18	08:00	Fine	26636	2.6732	2.7023	4309.44	4333.44	24.00	1.10	1.10	1.10	1589	18.3
03-Aug-18	08:00	Cloudy	26612	2.6839	2.7363	4336.44	4360.44	24.00	1.10	1.10	1.10	1587	33.0
09-Aug-18	08:00	Cloudy	26718	2.6856	2.7157	4363.44	4387.44	24.00	1.05	1.05	1.05	1509	19.9
15-Aug-18	08:00	Cloudy	26898	2.6829	2.7208	4390.44	4414.44	24.00	1.16	1.16	1.16	1669	22.7
21-Aug-18	08:00	Rainy	26872	2.6861	2.7683	4417.44	4441.44	24.00	1.05	1.05	1.05	1507	54.5

Report on 1-hour TSP monitoring for EP-376/2009Action Level -333 µg/m3Limit Level -500 µg/m3

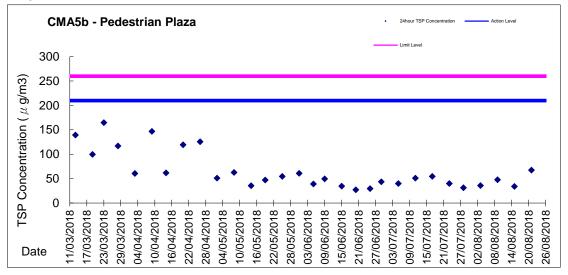
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
30-Jul-18	08:02	Fine	26695	2.6616	2.6641	4333.44	4334.44	1.00	1.10	1.10	1.10	66	37.8
30-Jul-18	09:10	Fine	26702	2.6775	2.6805	4334.44	4335.44	1.00	1.10	1.10	1.10	66	45.3
30-Jul-18	10:20	Fine	26618	2.6654	2.6700	4335.44	4336.44	1.00	1.10	1.10	1.10	66	69.5
04-Aug-18	08:05	Cloudy	26841	2.6544	2.6554	4360.44	4361.44	1.00	1.05	1.05	1.05	63	15.9
04-Aug-18	09:50	Cloudy	26710	2.6761	2.6796	4361.44	4362.44	1.00	1.05	1.05	1.05	63	55.7
04-Aug-18	13:00	Cloudy	26711	2.6782	2.6809	4362.44	4363.44	1.00	1.05	1.05	1.05	63	43.0
10-Aug-18	08:05	Rainy	26735	2.6626	2.6654	4387.44	4388.44	1.00	1.11	1.11	1.11	66	42.2
10-Aug-18	10:05	Rainy	26930	2.6820	2.6831	4388.44	4389.44	1.00	1.05	1.05	1.05	63	17.5
10-Aug-18	13:00	Rainy	26922	2.6757	2.6797	4389.44	4390.44	1.00	1.11	1.11	1.11	66	60.3
16-Aug-18	08:05	Cloudy	26887	2.6737	2.6748	4414.44	4415.44	1.00	1.10	1.10	1.10	66	16.6
16-Aug-18	09:30	Cloudy	26883	2.6663	2.6673	4415.44	4416.44	1.00	1.10	1.10	1.10	66	15.1
16-Aug-18	10:32	Cloudy	26876	2.6811	2.6836	4416.44	4417.44	1.00	1.10	1.10	1.10	66	37.8
22-Aug-18	08:40	Rainy	26914	2.6666	2.6723	4441.44	4442.44	1.00	1.05	1.05	1.05	63	90.8
22-Aug-18	09:43	Rainy	27018	2.6689	2.6726	4442.44	4443.44	1.00	1.10	1.10	1.10	66	56.0
22-Aug-18	10:46	Rainy	27021	2.6898	2.6970	4443.44	4444.44	1.00	1.05	1.05	1.05	63	114.7

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

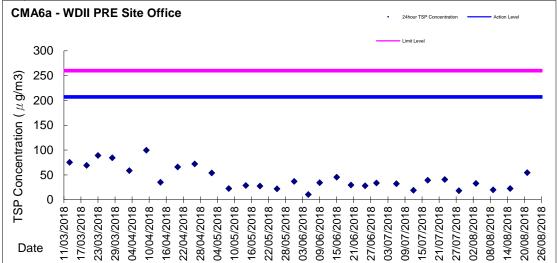


Graphic Presentation of 24 hour TSP Result for EP-376/2009



Contract No. HK/2015/01 am Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 3) Graphic Presentation of 1 hour TSP Result for EP-376/2009 CMA6a - WDII PRE Site Office 1hour TSP Co Limit Level 600 550 TSP Concentration (µg/m3) 500 450 400 350 300 250 200 150 100 \$ 50 0 20/08/2018 -26/08/2018 -04/05/2018 15/07/2018 11/03/2018 17/03/2018 23/03/2018 29/03/2018 04/04/2018 10/04/2018 16/04/2018 22/04/2018 28/04/2018 10/05/2018 16/05/2018 22/05/2018 28/05/2018 03/06/2018 09/06/2018 15/06/2018 21/06/2018 27/06/2018 03/07/2018 09/07/2018 21/07/2018 27/07/2018 02/08/2018 08/08/2018 14/08/2018 Date

Graphic Presentation of 24 hour TSP Result for EP-376/2009





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT		A	CTION	
	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		A	CTION	
	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

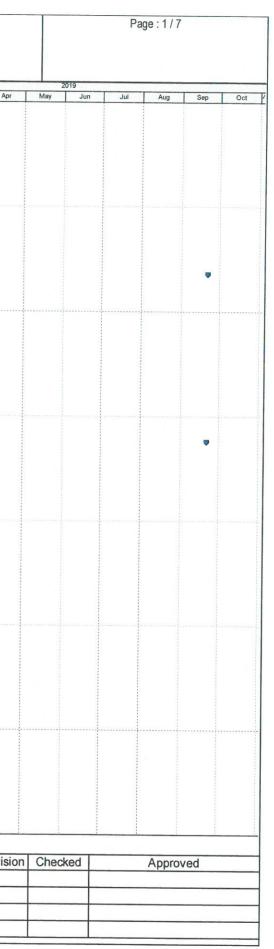
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status



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	Mdi	-
	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%			-																		

					CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West																	
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	b 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%		<u> </u>															
SIIIA13570	black top Achievement of Section IIIA of the Works	0		08-Sep-18	0%							•										
	emaining At-Grade Road & Road P2																					
																			- 1			
Roadwork &																						
Section 1 (L1	1504 - 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%		<u> </u>															
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%						-											
SV12522	Sec V - Section 1 - Implementation of TTA for road closure	3	13-Aug-18	15-Aug-18	0%						8											
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%																	
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:	16	20-Mar-18	11-Apr-18	0%																	
	TCSS																					
SV12740	Sec V - Roadwork & Utilities Section 2 footpath - paving block	18	12-Apr-18	03-May-18	0%																	
Section 3 (C	ulvert 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%																	
SIV12300	Drainage Works (L1311 - Culvert L, L1201 - Culvert L) Sec V - Roadwork & Utilities Section 4 Carriageway - Gully	7	03-Mar-18	10-Mar-18	0%																	
	pipe (L1301 - Culvert L, L1201 - Culvert L)																					
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 kerb & formation : between culvert K and culvert L	15	27-Mar-18	17-Apr-18	0%																	
SIV12320	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%																	
SIV12422	top : at west of culvert K Sec V - Roadwork & Utilities Section 4 footpath - Utilities :	20	20-Feb-18	14-Mar-18	0%																	
	TCSS																					
SIV12440	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : HGC & PCCW	8	15-Mar-18	23-Mar-18	0%																	

			Pa	age : 3 / 7		
		2019				
Apr	May	Jun	Jul	Aug	Sep	Oct /
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					CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West														Page : 4 / 7								
ity 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			ring	oop	001			our	100		, interest	indy	bui	Uui	nug	ocp	oci
SV10300	block Achievement of Section V of the Works	0		26-Sep-18	0%									9													
Section IV - S	ip Road 3																										
Roadwork &																											
	6608 - L1601)							_																			
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																	
SIV11753	Sec IV - sign gantry DS20: install steel frame of gantry D20	14	15-Aug-18	30-Aug-18	0%																						
SIV11750	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	0	09-Dec-17 A	26-Jan-18 A	100%					2 2 2 2 2																	
	Drainage Works (L1607 - L1601)	0																									
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%																						
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%		-							-													
	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 1 1 1 1 1 1													
	M1.7-M1.6: demolish existing seawall	- 10		02-Mar-18	0%																						
SIV12103	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: ELS		09-Feb-18 A																								
SIV12104	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: Construct manhole & pipes	. 30	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%	
VII13180	Sec VII - Zone A1, A2 & B - EVA: U-channel	14	01-Jun-18	16-Jun-18	0%	
VII13182	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%	
VII13200	Sec VII - Zone D - seawall parapet: Remove temporary	21	07-Mar-18	03-Apr-18	0%	
VII13220	seawall block Sec VII - Zone D - seawall parapet: Construct mass concrete	30	04-Apr-18	10-May-18	0%	
VII13222	Sec VII - Zone D - seawall parapet: reinforced concrete	18	11-May-18	01-Jun-18	0%	
VII13240	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%	
VII13320	Sec VII - Zone D - EVA : paving block	30	11-Aug-18	14-Sep-18	0%	
Promenade F	xotpath					
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		120 Marsh	BORGERS S		0.16.51	
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						
	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%	

				CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West																
ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan F	eb Mar	Apr	May	2 Jun	018 Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	A
SVII12890	Sec VII - section 3 footpath - paving block	30	19-May-18	25-Jun-18	0%			1.41		Jun	Jun	nug	Gep	000	1400	Dec	Jan	Feb	Wat	
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%			-												-
Section 5					120220															
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					10000															
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	20110/ 20	14-Sep-18	0%															
	Landscape Softworks	v		11 500 10	0.00															
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%								•							
	stablishment Works																			
Soft Landsca	ping Works												-							
SIX10020	Sec IX - Establishment Works	365	22-Sep-18	21-Sep-19	0%															
SIX10040	Achievement of Section IX of the Works	0		21-Sep-19	0%															
Section X - Pr	rotection & Preservation of Trees																			
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
SX10020	Sec X - Protection & Preservation of Trees	214	31-Jan-13 A	21-Sep-18	86.89%	Li	i	i	-		and the second	1	Constant of the							

