



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 (January 2019)

CONTRACT NO: HK/2015/01

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

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

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JANUARY 2019 -

CLIENTS:

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CERTIFIED BY:

Raymond Dai
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DATE:

11 February 2019

Ref.: AACWBIECEM00_0_11046L.19

11 February 2019

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

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Mr. Ng,

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

**Monthly Environmental Monitoring and Audit Report (January 2019)
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 January 2019 received by e-mail on 4 February 2019 for our review and comment.

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

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

Yours sincerely,



David Yeung
Independent Environmental Checker

| | | | |
|------|-------|--------------------------------------|-------------------|
| c.c. | CEDD | Attn: Mr. Henry Tsang | by fax: 2301 1277 |
| | Lam | Attn: Mr. Raymond Dai | by fax: 2882 3331 |
| | AECOM | Attn: Mr. Francis Leong/ Stephen Lai | by fax: 2691 2649 |

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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – [January 2019](#) specific for Environmental Permit no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2015/01 – Wan Chai Development Phase II and Central Wanchai Bypass – Sampling, Field Measurement and Testing Works (Stage 3). This report presents the environmental monitoring findings and information recorded during the period of [27th December 2018 to 26th January 2019](#). 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:
Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West
- [Drainage](#)
 - [Roadworks](#)

Noise Monitoring

- iii. Noise monitoring was conducted at M1a – Harbour Road Sports Centre.
- iv. 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.
- v. 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 on 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:

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

- 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 December 2018 to 26th January 2019**. The cut-off date of reporting is the 26th of each reporting month.

1.2 Structure of the Report

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



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

2 PROJECT BACKGROUND

2.1 Background

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

2.2 Scope of the Project and Site Description

2.2.1. The design and construction of Wan Chai Development Phase II and Central Wanchai Bypass involves the construction and operation of primary and district distributor roads that is shown at [Figure 2.1](#).

2.2.2. The key purpose of the study area encompasses the Wan Chai harbourfront area. The area starts at the boundary of Central Reclamation Phase III (CRIII) at the west and connects to the existing Hung Hing Road at the east. The scope of the project includes:

- A dual 2-lane primary distributor road, Road P2, approximately 0.6km in length; and
- Other new primary and district distributor roads connecting to the slip roads of the Central-Wan Chai Bypass with a total length of approximately 0.7km.

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

Table 2.1 Schedule 2 Designated Project under this Project

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

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**:

Table 2.2 Contact Details of Key Personnel

| 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 Joint Venture | Contractor under Contract no. HK/2012/08 | Project Director | C. N. LAI | 9106 5806 | 2877 1522 |
| | | Site Agent | Mr. George Cheung | 9268 1918 | |
| | | Environmental Officer | Mr. James Ma | 9130 9549 | |
| | | Environmental Supervisor | Mr. Y.L. Ho | 9856 5669 | |
| Ramboll Hong Kong Limited | Independent Environmental Checker (IEC) | Independent Environmental Checker (IEC) | Mr. David Yeung | 3465 2888 | 3465 2899 |
| Lam Geotechnics Limited | Environmental Team (ET) | Environmental Team Leader (ETL) | Mr. Raymond Dai | 2882 3939 | 2882 3331 |



2.3.3 In this reporting month, the principal work activities of the contract is included as follows:

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

- Drainage
- Roadworks

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

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

- 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 environmental protection 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 | Expired |
| | GW-RS1247-18 | 31 Dec 2018 | 13 Jan 2019 to 12 Jul 2019 | Valid |
| | GW-RS0913-18 | 4 Oct 2018 | 5 Oct 2018 to 4 Apr 2019 | Valid |

Table 3.3 Summary of submission status under FEP-01/376/2009 Condition

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

- 3.1.3. Implementation status of the recommended mitigation measures during this reporting month is presented in [Appendix 3.1](#).

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**. [Appendix 4.1](#) shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Noise Monitoring Station

| 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 (L_{eq}). L_{eq} (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq} (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as 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 TM 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 4.1](#). [Appendix 4.1](#) 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 [Appendix 5.2](#).

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 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

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

6 COMPLIANCE AUDIT

6.0.1. The Event Action Plan for construction noise and air quality are presented in [Appendix 6.1](#).

6.1 Noise Monitoring

6.1.1 [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 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, seawall coping and junction modification were performed in January 2019 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 trimming seabed profile at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building ABWF works and junction modification at Central; road works, drainage improvement work, utility diversion works and landscape works at Victoria Park; bridge noise enclosure installation works, road works, drainage works, soft landscape works and ventilation building ABWF work at North Point area in the reporting period. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link 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 2, 8, 15 and 22 January 2019 in this reporting period. The results of inspection and outcome are summarized in **Table 8.1**.

Table 8.1 Summary of Environmental Inspections for Contract no. HK/2012/08

| Item | Date | Observations | Action taken by Contractor | Outcome |
|----------|-----------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------|
| 190102_1 | 2-Jan-19 | Silt / sand deposit around site exit shall clean regularly (Expo Drive) | The sand was cleaned. | Completion as observed on 8 January 2019 |
| 190115_1 | 15-Jan-19 | Adequate facilities should be provided for shoe washing to avoid mud being generated out of site area. | Shoe washing facility was installed at site exit | Completion as observed on 22 January 2019 |

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

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

Table 9.1 Cumulative Statistics on Complaints

| Reporting Period | No. of Complaints |
|-------------------------------------------------------|-------------------|
| Commencement works (May 2015) to last reporting month | 0 |
| January 2019 | 0 |
| Total | 0 |

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10 CONCLUSION

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

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

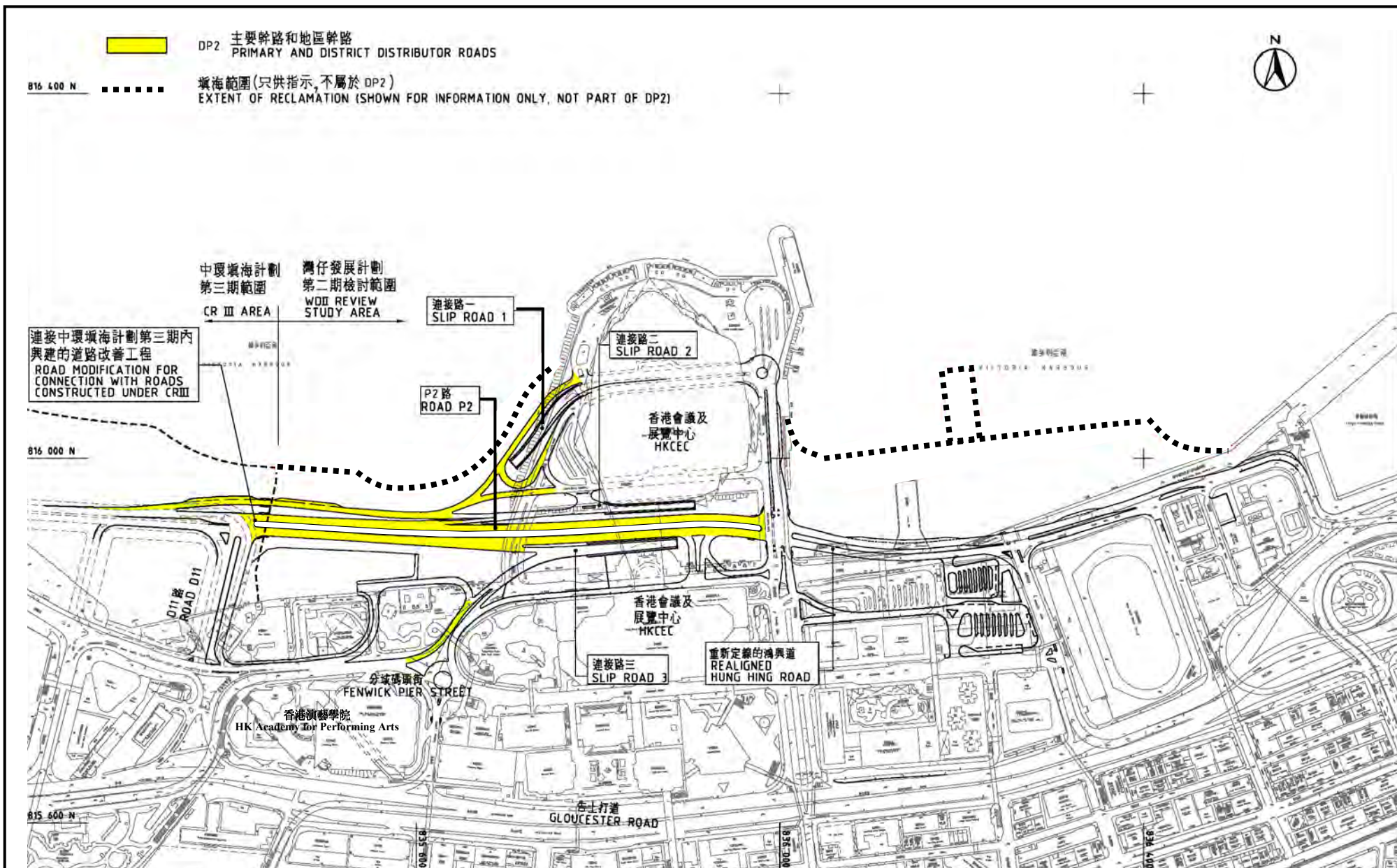
Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month

| Contract No. | Key Construction Works | Recommended Mitigation Measures |
|--------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HK/2012/08 | <ul style="list-style-type: none"> • Drainage • Roadworks | <ul style="list-style-type: none"> • 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 |



Figure 2.1

Project Layout



Project Title : Road P2 and other roads which are classified as primary/district distributor roads (referred to as "DP2" in the WDII&CWB EIA Report)

工程項目名稱: P2路及其他分類為主要幹路或地區幹路的道路(WDII&CWB 環評報告內稱 "DP2")

Environmental Permit No.: EP-376/2009

環境許可證編號 : EP-376/2009

Figure 1: Location of the Project

圖 1: 工程項目位置圖

(This figure was prepared based on Figure 1.2b of the WDII&CWB EIA report (Register No.: AEIAR-125/2008))
(本圖是根據 WDII&CWB 環評報告 (登記冊編號 AEIAR-125/2008) 圖 1.2b 編制)



Figure 2.2

Project Organization Chart

Project Organization Chart

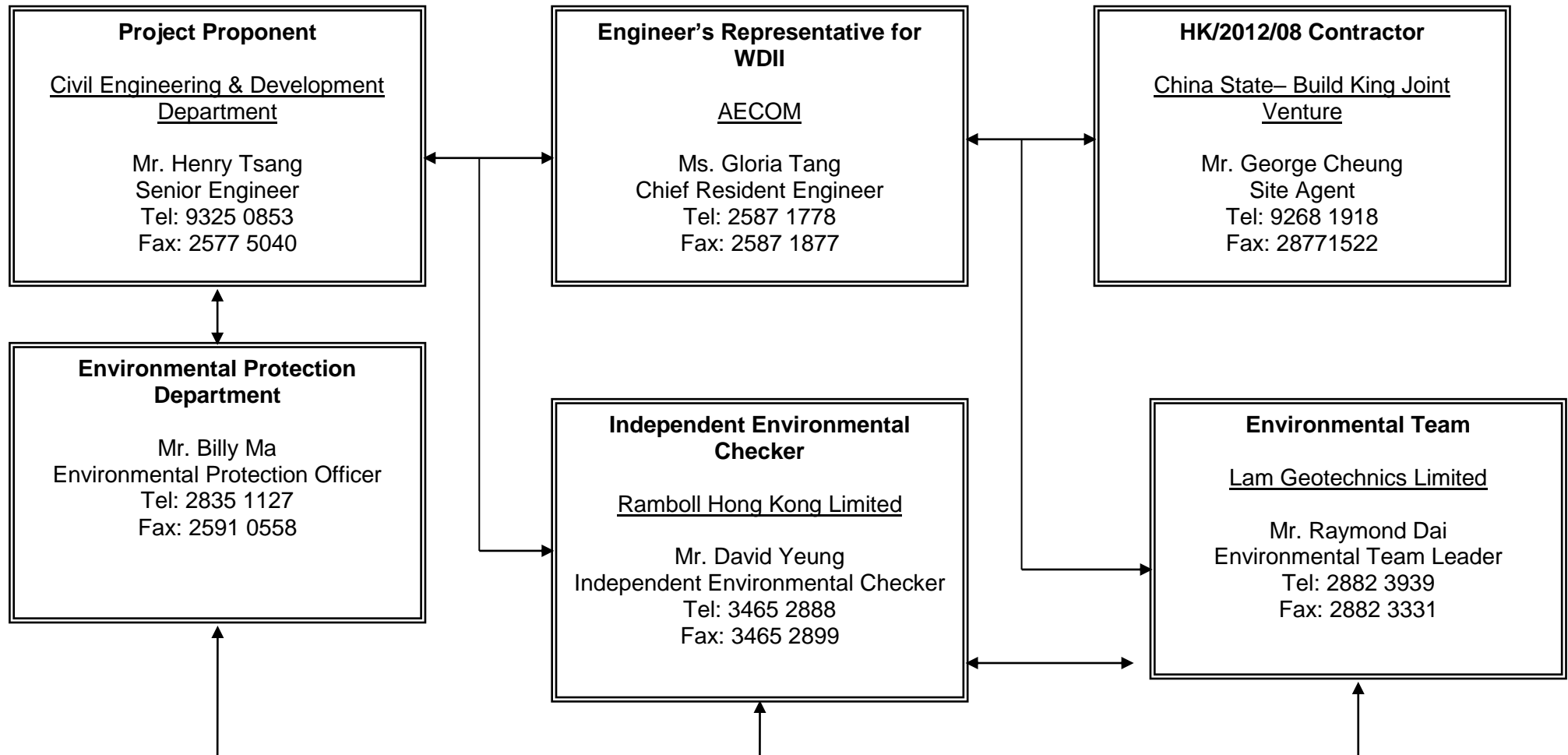


Figure 2.2



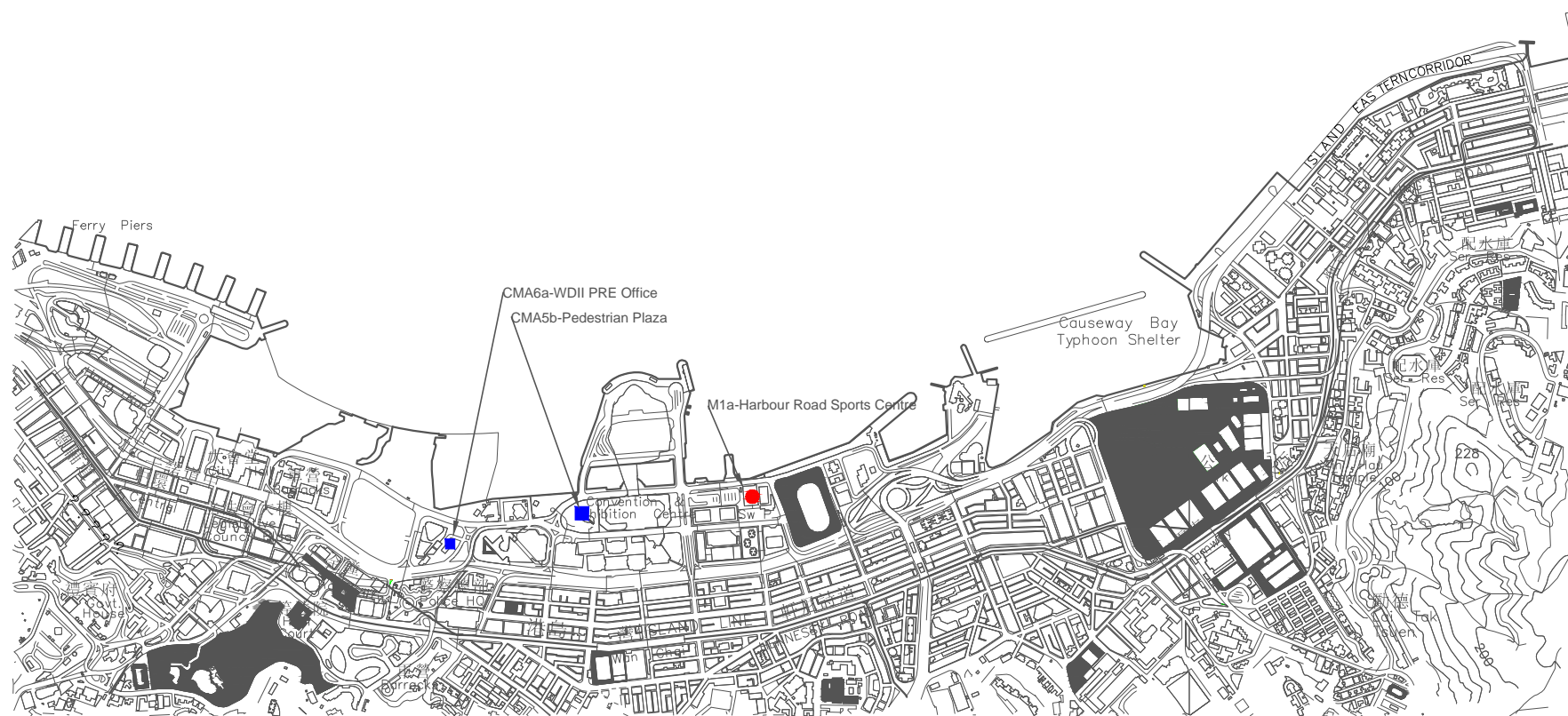
Figure 4.1

Locations of Monitoring Stations

Legend

● Noise Monitoring Station

■ Air Monitoring Station



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 Agent | Implementation stage | | | | Relevant Legislation and Guidelines |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|----------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| Construction Phase | | | | | | | | |
| For the Whole Project | | | | | | | | |
| S3.6.5 | Four times a day watering of the work site with active operations. | Work site / during construction | Contractor | | √ | | | EIAO-TM |
| S3.8.1 | Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. ▪ 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 | | √ | | | |

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

Table A13.2 Implementation Schedule for Noise Control

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation stage | | | | Relevant Legislation and Guidelines |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|----------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| Construction Phase | | | | | | | | |
| For the Whole Project | | | | | | | | |
| S4.9.4 | Good Site Practice: <ul style="list-style-type: none">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 construction activities. | Work site / during construction | Contractor | | √ | | | EIAO-TM, NCO |
| For DP2 – 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: <ul style="list-style-type: none">Temporary road diversionResurfacingAt-grade roadwork | Work site / during construction | Contractor | | √ | | | 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 Agent | Implementation stage | | | | Relevant Legislation and Guidelines |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|----------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| Construction Phase | | | | | | | | |
| For the Whole Project | | | | | | | | |
| S5.8 | <p><i>Construction Runoff and Drainage</i></p> <ul style="list-style-type: none">▪ 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 pre-formed 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 the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain; 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) |

| | | | | | | | | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|--|---|--|--|--------------------------------|
| | <p>installed in order to minimise the sediment loading of the effluent prior to discharge;</p> <ul style="list-style-type: none"> ▪ All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. ▪ The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer required. ▪ All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. ▪ Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase. | | | | | | | |
| S5.8 | <p><i>Sewage from Construction Work Force</i></p> <p>Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.</p> | Work site / during construction | Contractor | | √ | | | ProPECC PN 1/94; WPCO (TM-DSS) |

| | | | | | | | | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|---|---|--|--|------|
| S5.8 | <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 | | √ | | | WPCO |
| S5.8 | <i>Storm Water Discharges</i> 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 | √ | √ | | | WPCO |

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

Table A13.4 Implementation Schedule for Waste Management

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation stage | | | | Relevant Legislation and Guidelines |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------|----------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| Construction Phase | | | | | | | | |
| For the Whole Project | | | | | | | | |
| S6.7.7 | <i>Good Site Practices</i> Recommendations for good site practices during the construction activities include: <ul style="list-style-type: none">▪ 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 | <i>Waste Reduction Measures</i> Recommendations to achieve waste reduction include: <ul style="list-style-type: none">• Sort C&D waste from demolition of the existing waterfront structures to recover | Work site / During planning and design stage, and construction stage | Contractor | √ | √ | | | |

| | | | | | | | | |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------|--|---|--|--|-----------------------------------------------------------|
| | <p>recyclable portions such as metals.</p> <ul style="list-style-type: none"> • 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 | <p><i>General Refuse</i></p> <p>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.</p> <p>A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.</p> | Work site / During the construction period | Contractor | | √ | | | Public Health and Municipal Services Ordinance (Cap. 132) |

| | | | | | | | | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------|--|---|--|--|----------------------------------------------------------------------------------------------------------------------------------|
| S6.7.11 | <p><i>Chemical Wastes</i></p> <p>After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</p> | Work site / During the construction period | Contractor | | √ | | | Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes |
| S6.7.12 – S6.7.13 | <p><i>Construction and Demolition Material</i></p> <p>C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.</p> <p>In order to monitor the disposal of public fill and C&D waste at public fill reception facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.</p> | Work site / During the construction period | Contractor and Independent Environmental Checker | | √ | | | DEVB TCW No.6/2010; ETWB TCW No. 33/2002; ETWB TCW No. 19/2005 |
| S6.7.14 | <p><i>Bentonite Slurry</i></p> <p>The disposal of residual used bentonite slurry shall follow the good practice guidelines stated</p> | Work site / During the construction period | Contractor | | √ | | | ProPECC PN 1/94 |

| | | | | | | | | |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| | <p>in ProPECC PN 1/94 “Construction Site Drainage” and listed as follows:</p> <ul style="list-style-type: none"> ▪ 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. | | | | | | | |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|

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

Table A13.7 Implementation Schedule for Landscape and Visual

| EIA Ref | Environmental Protection Measures / Mitigation Measures | Location / Timing | Implementation Agent | Implementation stage | | | | Relevant Legislation and Guidelines |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|----------------------|---|---|-----|-------------------------------------|
| | | | | Des | C | O | Dec | |
| Construction Phase | | | | | | | | |
| For the Whole 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 | √ | √ | | | EIAO TM |
| Table 10.5 | CM2 Existing trees to be retained on site shall be carefully protected during construction. | Work site / During Construction Phase | Contractor | √ | √ | | | EIAO TM |
| Table 10.5 | CM3 Trees unavoidably affected by the works shall be transplanted where practical. | Work site / During Construction Phase | Contractor | √ | √ | | | EIAO TM |
| Table 10.5 | CM4 Compensatory tree planting shall be provided to compensate for felled trees. | Work site / During Construction Phase | Contractor | √ | √ | | | EIAO TM |
| Table 10.5 | CM5 Control of night-time lighting. | Work site / During Construction Phase | Contractor | | √ | | | EIAO TM |
| Table 10.5 | CM6 Erection of decorative screen hoarding compatible with the surrounding setting. | Work site / During Construction Phase | Contractor | | √ | | | EIAO TM |
| For DP2 – WDII 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 | √ | √ | | | EIAO TM |
| Table 10.5 | CM2 Existing trees to be retained on site shall be carefully protected during construction. | Work site / During Construction Phase | Contractor | √ | √ | | | EIAO TM |
| Table 10.5 | CM3 Trees unavoidably affected by the works shall be transplanted where practical. | Work site / During Construction Phase | Contractor | √ | √ | | | EIAO TM |
| Table 10.5 | CM4 Compensatory tree planting shall be provided to compensate for felled trees. | Work site / During Construction Phase | Contractor | √ | √ | | | EIAO TM |
| Table 10.5 | CM5 Control of night-time lighting. | Work site / During Construction Phase | Contractor | | √ | | | EIAO TM |
| Table 10.5 | CM6 Erection of decorative screen hoarding compatible with the surrounding setting. | Work site / During Construction Phase | Contractor | | √ | | | EIAO TM |

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

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



Appendix 4.1

Action and Limit Level

**Action and Limit Level*****Action and Limit Level for Noise Monitoring***

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

*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 Level in $\mu\text{g}/\text{m}^3$ | | 24-hour TSP Level in $\mu\text{g}/\text{m}^3$ | |
|--------------------------------------|----------------------------------------------------------------|-------------|-----------------------------------------------------------------|-------------|
| | Action Level | Limit Level | Action Level | Limit Level |
| 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



Certificate of Calibration

Calibration Certification Information

Cal. Date: January 24, 2018 Rootsmeter S/N: 438320 Ta: 293 °K
Operator: Jim Tisch Pa: 756.9 mm Hg
Calibration Model #: TE-5025A Calibrator S/N: 3166

| Run | Vol. Init (m3) | Vol. Final (m3) | ΔVol. (m3) | ΔTime (min) | ΔP (mm Hg) | ΔH (in H2O) |
|-----|-------------------|--------------------|---------------|----------------|---------------|----------------|
| 1 | 1 | 2 | 1 | 1.4430 | 3.2 | 2.00 |
| 2 | 3 | 4 | 1 | 1.0270 | 6.4 | 4.00 |
| 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 |

Data Tabulation

| Vstd (m3) | Qstd (x-axis) | $\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis) | Va | Qa (x-axis) | $\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis) |
|--------------|------------------|---------------------------------------------------------------------------------------------|-----------|----------------|------------------------------------------------------------|
| 1.0087 | 0.6990 | 1.4233 | 0.9958 | 0.6901 | 0.8799 |
| 1.0044 | 0.9780 | 2.0129 | 0.9915 | 0.9655 | 1.2443 |
| 1.0024 | 1.0872 | 2.2505 | 0.9896 | 1.0733 | 1.3912 |
| 1.0013 | 1.1404 | 2.3603 | 0.9885 | 1.1259 | 1.4591 |
| 0.9961 | 1.3701 | 2.8467 | 0.9834 | 1.3526 | 1.7598 |
| QSTD | m= | 2.12231 | QA | m= | 1.32895 |
| | b= | -0.06016 | | b= | -0.03719 |
| | r= | 0.99999 | | r= | 0.99999 |

Calculations

| | | | |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------|
| Vstd= | $\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$ | Va= | $\Delta Vol((Pa-\Delta P)/Pa)$ |
| Qstd= | Vstd/ΔTime | Qa= | Va/ΔTime |
| For subsequent flow rate calculations: | | | |
| Qstd= | $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$ | Qa= | $1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$ |

Standard Conditions

| | |
|------------|---------------------------------------|
| Tstd: | 298.15 °K |
| Pstd: | 760 mm Hg |
| Key | |
| ΔH: | calibrator manometer reading (in H2O) |
| ΔP: | rootsmeter manometer reading (mm Hg) |
| Ta: | actual absolute temperature (°K) |
| Pa: | actual barometric pressure (mm Hg) |
| b: | intercept |
| m: | slope |

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA5b **Calibration Date** : 19-Dec-18
Equipment no. : HVS010 **Calibration Due Date** : 18-Feb-19

CALIBRATION OF CONTINUOUS FLOW RECORDER

| Ambient Condition | | | |
|-----------------------------|-----|--------|--------------------------|
| Temperature, T _a | 293 | Kelvin | Pressure, P _a |
| | | | 1020 mmHg |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|--------------------------------------------------------------------------------------------|---------|---------------------------|----------|
| Equipment No. | Ori3166 | Slope, m _c | 2.12231 | Intercept, b _c | -0.06016 |
| Last Calibration Date | 24-Jan-18 | $\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$ | | | |
| Next Calibration Date | 24-Jan-19 | | | | |

| Calibration of TSP | | | | | | |
|--------------------|---------------------|--------|------------|-----------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------|
| Calibration Point | Manometer Reading | | | Q _{std} (m ³ / min.) X-axis | Continuous Flow Recorder, W (CFM) | IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ Y-axis |
| | H (inches of water) | | | | | |
| | (up) | (down) | difference | | | |
| 1 | 1.5 | 1.5 | 3.0 | 0.8541 | 25 | 25.2956 |
| 2 | 2.8 | 2.8 | 5.6 | 1.1566 | 34 | 34.4020 |
| 3 | 3.6 | 3.6 | 7.2 | 1.3076 | 38 | 38.4493 |
| 4 | 4.8 | 4.8 | 9.6 | 1.5055 | 46 | 46.5439 |
| 5 | 6.0 | 6.0 | 12.0 | 1.6799 | 54 | 54.6385 |

By Linear Regression of Y on X

Slope, m = 35.1088 Intercept, b = -5.8015
 Correlation Coefficient* = 0.9935
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry Lau **Checked by** : Chan Ka Chun
Date : 19-Dec-18 **Date** : 19-Dec-18



Lam Environmental Services Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA6a **Calibration Date** : 19-Dec-18
Equipment no. : HVS013 **Calibration Due Date** : 18-Feb-19

CALIBRATION OF CONTINUOUS FLOW RECORDER

| Ambient Condition | | | |
|-----------------------------|-----|--------|--------------------------|
| Temperature, T _a | 293 | Kelvin | Pressure, P _a |
| | | | 1020 mmHg |

| Orifice Transfer Standard Information | | | | | |
|---------------------------------------|-----------|--------------------------------------------------------------------------------------------|---------|---------------------------|----------|
| Equipment No. | Ori3166 | Slope, m _c | 2.12231 | Intercept, b _c | -0.06016 |
| Last Calibration Date | 24-Jan-18 | $\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$ | | | |
| Next Calibration Date | 24-Jan-19 | | | | |

| Calibration of TSP | | | | | | |
|--------------------|---------------------|--------|------------|---------------------------------------------|--------------------------------------|----------------------------------------------------|
| Calibration Point | Manometer Reading | | | Q _{std} (m ³ / min.) | Continuous Flow Recorder, W (CFM) | IC $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ |
| | H (inches of water) | | | | | |
| | (up) | (down) | difference | X-axis | | Y-axis |
| 1 | 1.4 | 1.4 | 2.8 | 0.8261 | 28 | 28.3311 |
| 2 | 2.3 | 2.3 | 4.6 | 1.0509 | 33 | 33.3902 |
| 3 | 3.7 | 3.7 | 7.4 | 1.3253 | 41 | 41.4848 |
| 4 | 4.8 | 4.8 | 9.6 | 1.5055 | 46 | 46.5439 |
| 5 | 6.0 | 6.0 | 12.0 | 1.6799 | 54 | 54.6385 |

By Linear Regression of Y on X

Slope, m = 30.1687 Intercept, b = 2.3363
 Correlation Coefficient* = 0.9927
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Henry Lau **Checked by** : Chan Ka Chun
Date : 19-Dec-18 **Date** : 19-Dec-18



CERTIFICATE OF CALIBRATION

Certificate No.: 18CA0322 01 Page 1 of 2

Item tested

| | | |
|-----------------------|----------------------------|------------|
| Description: | Sound Level Meter (Type 1) | Microphone |
| Manufacturer: | Larson Davis | PCB |
| Type/Model No.: | LxT1 | 377B02 |
| Serial/Equipment No.: | 0003737 | 171529 |
| Adaptors used: | - | - |

Item submitted by

Customer Name: Lam Geotechnics Ltd.
Address of Customer: -
Request No.: -
Date of receipt: 22-Mar-2018

Date of test: 28-Mar-2018

Reference equipment used in the calibration

| Description: | Model: | Serial No. | Expiry Date: | Traceable to: |
|---------------------------------|----------|------------|--------------|---------------|
| Multi function sound calibrator | B&K 4226 | 2288444 | 08-Sep-2018 | CIGISMEC |
| Signal generator | DS 360 | 61227 | 01-Apr-2018 | CEPREI |

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 50 ± 10 %
Air pressure: 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 $\pm 20\%$.
- 3, 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 responsiveness 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:


Feng Jun Qi

Date: 06-Apr-2018

Company Chop:



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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 18CA0322 01 Page 2 of 2

1, Electrical Tests

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

| Test: | Subtest: | Status: | Expanded Uncertainty (dB) | Coverage Factor |
|-------------------------|--------------------------------------------------|---------|---------------------------|-----------------|
| Self-generated noise | A | Pass | 0.3 | 2.1 |
| | C | Pass | 0.8 | |
| | Lin | Pass | 1.6 | |
| Linearity range for Leq | At reference range, Step 5 dB at 4 kHz | Pass | 0.3 | 2.2 |
| | Reference SPL on all other ranges | Pass | 0.3 | |
| | 2 dB below upper limit of each range | Pass | 0.3 | |
| | 2 dB above lower limit of each range | Pass | 0.3 | |
| | At reference range, Step 5 dB at 4 kHz | Pass | 0.3 | |
| Linearity range for SPL | A | Pass | 0.3 | |
| | C | 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 Uncertainty (dB) | Coverage Factor |
|-------------------|------------------------|--------|---------------------------|-----------------|
| Acoustic response | Weighting A at 125 Hz | Pass | 0.3 | |
| | Weighting A at 8000 Hz | Pass | 0.5 | |

3, Response to associated sound calibrator

N/A

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

- End -

Calibrated by:

Fung Chi Yip
28-Mar-2018

Checked by:

Lam Tze Wai
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.

Calibration Certificate

Certificate Number 2018010851

Customer:

LAM Environmental Services Ltd
11/F Centre Point
181-185 Gloucester Road
Wanchai, Hong Kong

Model Number CAL200
Serial Number 13098
Test Results Pass
Initial Condition Inoperable
Description Larson Davis CAL200 Acoustic Calibrator

Procedure Number D0001.8386
Technician Scott Montgomery
Calibration Date 29 Oct 2018
Calibration Due
Temperature 23 °C ± 0.3 °C
Humidity 34 %RH ± 3 %RH
Static Pressure 101.2 kPa ± 1 kPa

Evaluation Method The data is acquired by the insert voltage calibration method using the reference microphone's open circuit sensitivity. Data reported in dB re 20 µPa.

Compliance Standards Compliant to Manufacturer Specifications per D0001.8190 and the following standards:
IEC 60942:2017 ANSI S1.40-2006

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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| Standards Used | | | |
|--------------------------------------------|------------|------------|--------------|
| Description | Cal Date | Cal Due | Cal Standard |
| Agilent 34401A DMM | 09/06/2018 | 09/06/2019 | 001021 |
| Larson Davis Model 2900 Real Time Analyzer | 04/10/2018 | 04/10/2019 | 001051 |
| Microphone Calibration System | 03/07/2018 | 03/07/2019 | 005446 |
| 1/2" Preamplifier | 09/20/2018 | 09/20/2019 | 006506 |
| Larson Davis 1/2" Preamplifier 7-pin LEMO | 08/07/2018 | 08/07/2019 | 006507 |
| 1/2 inch Microphone - RI - 200V | 05/10/2018 | 05/10/2019 | 006510 |
| Pressure Transducer | 07/18/2018 | 07/18/2019 | 007368 |

Larson Davis, a division of PCB Piezotronics, Inc
1681 West 820 North
Provo, UT 84601, United States
716-684-0001



LARSON DAVIS
A PCB PIEZOTRONICS DIV.



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

Environmental Monitoring Schedule
January 2019

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|-------------------------------------------|--------|-------------------------------------------|------------------------|-------------------------------------------|-------------------------------|-----------------------|
| | | | | 27-Dec 24hr TSP Noise (daytime) | 28-Dec 1hr TSP | 29-Dec |
| 30-Dec | 31-Dec | 01-Jan | 02-Jan 24hr TSP | 03-Jan 1hr TSP | 04-Jan Noise (daytime) | 05-Jan |
| 06-Jan | 07-Jan | 08-Jan 24hr TSP Noise (daytime) | 09-Jan 1hr TSP | 10-Jan | 11-Jan | 12-Jan |
| 13-Jan 24hr TSP Noise (daytime) | 14-Jan | 15-Jan 1hr TSP | 16-Jan | 17-Jan | 18-Jan 24hr TSP | 19-Jan 1hr TSP |
| 20-Jan | 21-Jan | 22-Jan | 23-Jan 24hr TSP | 24-Jan 1hr TSP | 25-Jan Noise (daytime) | 26-Jan |

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

Tentative Environmental Monitoring Schedule
February 2019

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|-----------------------------|-----------------------------|-----------|----------|----------------------------|----------|
| 27-Jan | 28-Jan | 29-Jan | 30-Jan | 31-Jan | 01-Feb | 02-Feb |
| | 24hr TSP Noise (daytime) | 1hr TSP Noise (daytime) | | | 24hr TSP | 1hr TSP |
| 03-Feb | 04-Feb | 05-Feb | 06-Feb | 07-Feb | 08-Feb | 09-Feb |
| | 24hr TSP Noise (daytime) | | | | 1hr TSP Noise (daytime) | |
| 10-Feb | 11-Feb | 12-Feb | 13-Feb | 14-Feb | 15-Feb | 16-Feb |
| | Noise (daytime) | Noise (daytime) | 24hr TSP | 1hr TSP | | |
| 17-Feb | 18-Feb | 19-Feb | 20-Feb | 21-Feb | 22-Feb | 23-Feb |
| | Noise (daytime) | 24hr TSP Noise (daytime) | 1hr TSP | | | |
| 24-Feb | 25-Feb | 26-Feb | 27-Feb | 28-Feb | | |
| | 24hr TSP Noise (daytime) | 1hr TSP Noise (daytime) | | | | |



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result for EP-376/2009

Day Time (0700 - 1900hrs on normal weekdays)

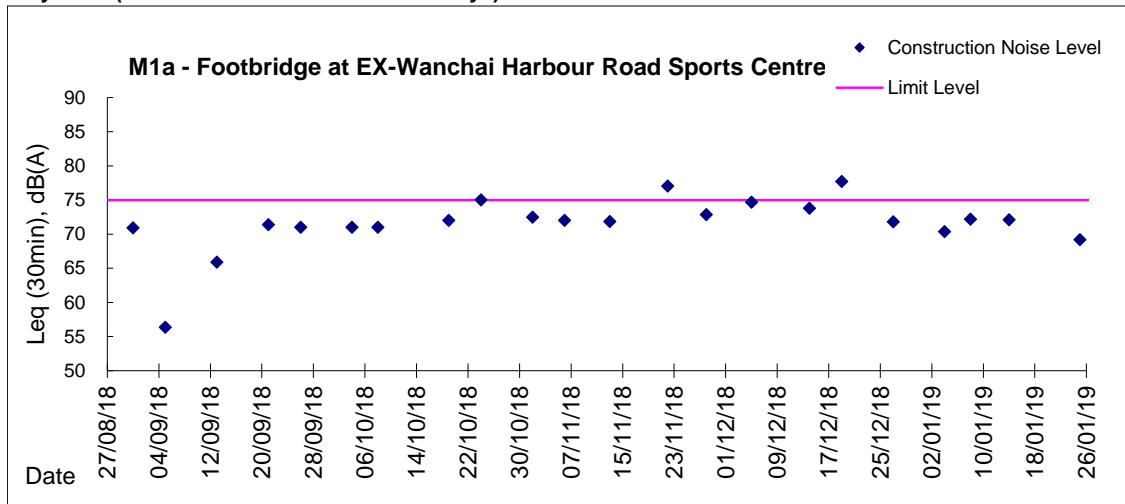
Location: M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre

| Date | Time | Weather | Measurement Noise Level | | | Baseline Level | Construction Noise Level | Limit Level |
|------------|-------|---------|-------------------------|------|------|----------------|--------------------------|-------------|
| | | | Leq | L10 | L90 | Leq | Leq | Leq |
| | | | Unit: dB(A), (30-min) | | | | | |
| 27/12/2018 | 16:55 | Cloudy | 71.8 | 73.7 | 69.4 | 73 | 72 | 75 |
| 04/01/2019 | 13:00 | Cloudy | 74.7 | 77.4 | 71.7 | 73 | 70 | 75 |
| 08/01/2019 | 16:45 | Cloudy | 72.2 | 74.5 | 68.3 | 73 | 72 | 75 |
| 14/01/2019 | 13:00 | Cloudy | 72.1 | 74.0 | 68.5 | 73 | 72 | 75 |
| 25/01/2019 | 13:55 | Fine | 74.3 | 77.0 | 73.0 | 73 | 69 | 75 |



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 monitoring for EP-376/2009

Action Level - 209.9 µg/m³

Limit Level - 260 µg/m³

| Date | Sampling Time | Weather Condition | Filter paper no. | Filter Weight, g | | Elapse Time, hr | | Sampling Time, hr | Flow Rate, m ³ /min | | | Total Volume, m ³ | TSP Level, µg/m ³ |
|-----------|---------------|-------------------|-------------------|------------------|--------|-----------------|----------|-------------------|--------------------------------|------------------------|---------|------------------------------|------------------------------|
| | | | | Initial | Final | Initial | Final | | Initial, Q _{si} | Final, Q _{sf} | Average | | |
| 27-Dec-18 | 08:00 | Cloudy | CMA5b_24hr 140124 | 2.6363 | 2.7417 | 11379.91 | 11403.91 | 24.00 | 1.24 | 1.25 | 1.24 | 1792 | 58.8 |
| 02-Jan-19 | 08:00 | Cloudy | CMA5b_24hr 140156 | 2.6446 | 2.7532 | 11406.91 | 11430.91 | 24.00 | 1.23 | 1.23 | 1.23 | 1767 | 61.5 |
| 08-Jan-19 | 08:00 | Fine | CMA5b_24hr 140163 | 2.6507 | 2.7864 | 11433.92 | 11457.92 | 24.00 | 1.22 | 1.22 | 1.22 | 1756 | 77.3 |
| 14-Jan-19 | 08:00 | Cloudy | CMA5b_24hr 140235 | 2.6765 | 2.8150 | 11460.92 | 11484.92 | 24.00 | 1.27 | 1.27 | 1.27 | 1833 | 75.6 |
| 18-Jan-19 | 08:00 | Fine | CMA5b_24hr 140235 | 2.6826 | 2.8523 | 11487.92 | 11511.92 | 24.00 | 1.31 | 1.33 | 1.32 | 1897 | 89.5 |
| 23-Jan-19 | 08:00 | Fine | CMA5b_24hr 140386 | 2.6604 | 2.8024 | 11514.92 | 11538.92 | 24.00 | 1.22 | 1.22 | 1.22 | 1760 | 80.7 |

Report on 1-hour TSP monitoring for EP-376/2009

Action Level - 339.7 µg/m³

Limit Level - 500 µg/m³

| Date | Sampling Time | Weather Condition | Filter paper no. | Filter Weight, g | | Elapse Time, hr | | Sampling Time, hr | Flow Rate, m ³ /min | | | Total Volume, m ³ | TSP Level, µg/m ³ |
|-----------|---------------|-------------------|--------------------|------------------|--------|-----------------|----------|-------------------|--------------------------------|------------------------|---------|------------------------------|------------------------------|
| | | | | Initial | Final | Initial | Final | | Initial, Q _{si} | Final, Q _{sf} | Average | | |
| 28-Dec-18 | 13:00 | Cloudy | CMA5b_1hr_1 140143 | 2.6612 | 2.6707 | 11403.91 | 11404.91 | 1.00 | 1.22 | 1.22 | 1.22 | 73 | 129.7 |
| 28-Dec-18 | 14:34 | Cloudy | CMA5b_1hr_2 140140 | 2.6459 | 2.6590 | 11404.91 | 11405.91 | 1.00 | 1.22 | 1.22 | 1.22 | 73 | 178.8 |
| 28-Dec-18 | 15:45 | Cloudy | CMA5b_1hr_3 140154 | 2.6635 | 2.6737 | 11405.91 | 11406.91 | 1.00 | 1.22 | 1.22 | 1.22 | 73 | 139.3 |
| 03-Jan-19 | 08:40 | Cloudy | CMA5b_1hr_1 140171 | 2.6551 | 2.6597 | 11430.92 | 11431.92 | 1.00 | 1.23 | 1.23 | 1.23 | 74 | 62.6 |
| 03-Jan-19 | 10:40 | Cloudy | CMA5b_1hr_2 206800 | 2.6914 | 2.6938 | 11431.92 | 11432.92 | 1.00 | 1.23 | 1.23 | 1.23 | 74 | 32.6 |
| 03-Jan-19 | 13:40 | Cloudy | CMA5b_1hr_3 206765 | 2.6920 | 2.6928 | 11432.92 | 11433.92 | 1.00 | 1.23 | 1.23 | 1.23 | 74 | 10.9 |
| 09-Jan-19 | 08:05 | Fine | CMA5b_1hr_1 140208 | 2.6609 | 2.6675 | 11457.92 | 11458.92 | 1.00 | 1.28 | 1.28 | 1.28 | 77 | 86.2 |
| 09-Jan-19 | 09:48 | Fine | CMA5b_1hr_2 140218 | 2.6588 | 2.6686 | 11458.92 | 11459.92 | 1.00 | 1.28 | 1.28 | 1.28 | 77 | 128.0 |
| 09-Jan-19 | 13:00 | Fine | CMA5b_1hr_3 140228 | 2.6729 | 2.6864 | 11459.92 | 11460.92 | 1.00 | 1.28 | 1.28 | 1.28 | 77 | 176.3 |
| 15-Jan-19 | 09:20 | Cloudy | CMA5b_1hr_1 140261 | 2.6860 | 2.6915 | 11484.92 | 11485.92 | 1.00 | 1.27 | 1.27 | 1.27 | 76 | 72.0 |
| 15-Jan-19 | 10:38 | Cloudy | CMA5b_1hr_2 140269 | 2.6828 | 2.6888 | 11485.92 | 11486.92 | 1.00 | 1.30 | 1.30 | 1.30 | 78 | 76.9 |
| 15-Jan-19 | 13:00 | Cloudy | CMA5b_1hr_3 140277 | 2.6638 | 2.6720 | 11486.92 | 11487.92 | 1.00 | 1.30 | 1.30 | 1.30 | 78 | 105.1 |
| 19-Jan-19 | 08:37 | Fine | CMA5b_1hr_1 140261 | 2.6632 | 2.6705 | 11511.92 | 11512.92 | 1.00 | 1.27 | 1.27 | 1.27 | 76 | 95.5 |
| 19-Jan-19 | 10:15 | Fine | CMA5b_1hr_2 140269 | 2.6627 | 2.6753 | 11512.92 | 11513.92 | 1.00 | 1.27 | 1.27 | 1.27 | 76 | 164.9 |
| 19-Jan-19 | 13:00 | Fine | CMA5b_1hr_3 140277 | 2.6530 | 2.6609 | 11513.92 | 11514.92 | 1.00 | 1.25 | 1.25 | 1.25 | 75 | 105.7 |
| 24-Jan-19 | 08:02 | Fine | CMA5b_1hr_1 140313 | 2.6541 | 2.6632 | 11538.92 | 11539.92 | 1.00 | 1.33 | 1.33 | 1.33 | 80 | 113.8 |
| 24-Jan-19 | 09:52 | Fine | CMA5b_1hr_2 140319 | 2.6538 | 2.6665 | 11539.92 | 11540.92 | 1.00 | 1.30 | 1.30 | 1.30 | 78 | 162.2 |
| 24-Jan-19 | 13:00 | Fine | CMA5b_1hr_3 140330 | 2.6561 | 2.6670 | 11540.92 | 11541.92 | 1.00 | 1.33 | 1.33 | 1.33 | 80 | 136.3 |



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 Time | Weather Condition | Filter paper no. | Filter Weight, g | | Elapse Time, hr | | Sampling Time, hr | Flow Rate, m ³ /min | | | Total Volume, m ³ | TSP Level, µg/m ³ |
|-----------|---------------|-------------------|-------------------|------------------|--------|-----------------|---------|-------------------|--------------------------------|------------------------|---------|------------------------------|------------------------------|
| | | | | Initial | Final | Initial | Final | | Initial, Q _{si} | Final, Q _{sf} | Average | | |
| 27-Dec-18 | 08:00 | Cloudy | CMA6a_24hr_140120 | 2.6547 | 2.7480 | 5046.13 | 5070.13 | 24.00 | 1.14 | 1.15 | 1.15 | 1651 | 56.5 |
| 02-Jan-19 | 08:00 | Cloudy | CMA6a_24hr_140157 | 2.6492 | 2.7634 | 5073.13 | 5097.13 | 24.00 | 1.16 | 1.16 | 1.16 | 1668 | 68.5 |
| 08-Jan-19 | 08:00 | Fine | CMA6a_24hr_140188 | 2.6653 | 2.8472 | 5100.15 | 5124.15 | 24.00 | 1.15 | 1.15 | 1.15 | 1656 | 109.9 |
| 14-Jan-19 | 08:00 | Cloudy | CMA6a_24hr_140237 | 2.6633 | 2.7592 | 5127.16 | 5151.16 | 24.00 | 1.15 | 1.15 | 1.15 | 1656 | 57.9 |
| 18-Jan-19 | 08:00 | Fine | CMA6a_24hr_140237 | 2.6850 | 2.7753 | 5154.16 | 5178.16 | 24.00 | 1.28 | 1.15 | 1.22 | 1750 | 51.6 |
| 23-Jan-19 | 08:00 | Fine | CMA6a_24hr_140309 | 2.6807 | 2.8136 | 5181.17 | 5205.17 | 24.00 | 1.15 | 1.15 | 1.15 | 1660 | 80.0 |

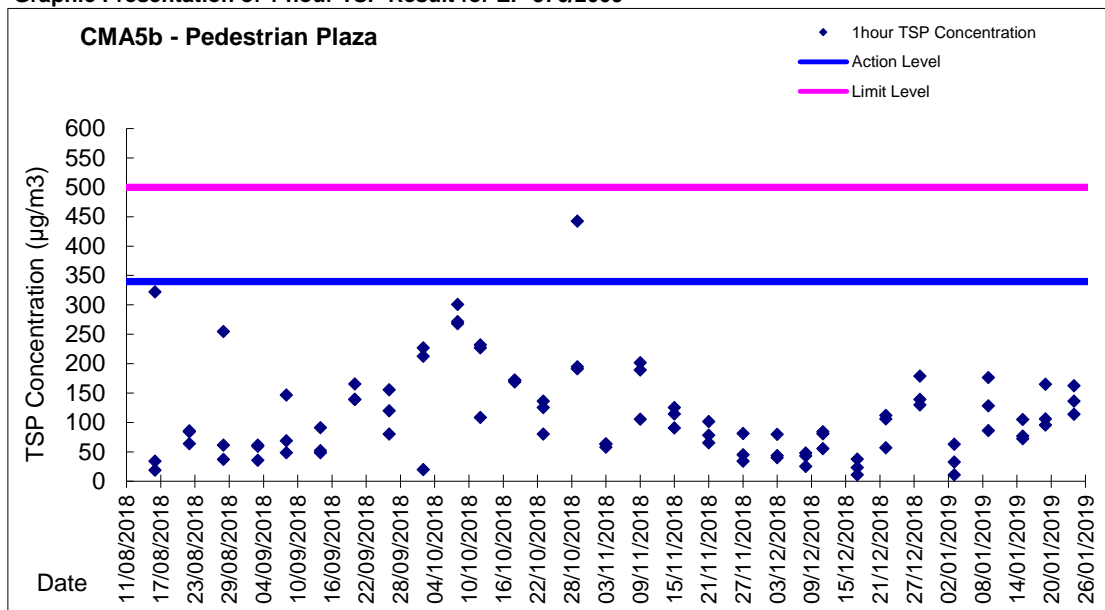
Report on 1-hour TSP monitoring for EP-376/2009

Action Level - 333 µg/m³

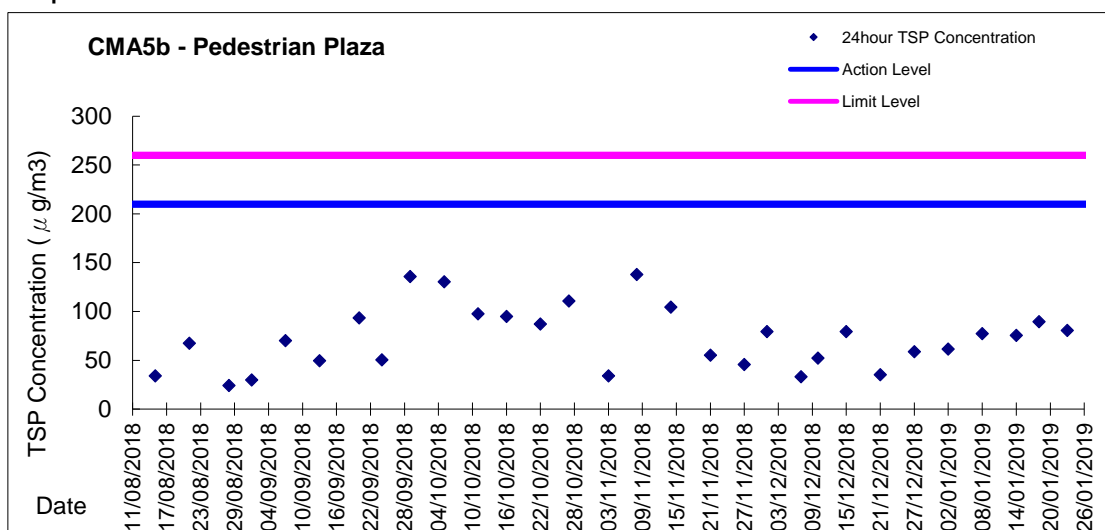
Limit Level - 500 µg/m³

| Date | Sampling Time | Weather Condition | Filter paper no. | Filter Weight, g | | Elapse Time, hr | | Sampling Time, hr | Flow Rate, m ³ /min | | | Total Volume, m ³ | TSP Level, µg/m ³ |
|-----------|---------------|-------------------|--------------------|------------------|--------|-----------------|---------|-------------------|--------------------------------|------------------------|---------|------------------------------|------------------------------|
| | | | | Initial | Final | Initial | Final | | Initial, Q _{si} | Final, Q _{sf} | Average | | |
| 28-Dec-18 | 13:08 | Cloudy | CMA6a_1hr_1_140142 | 2.6640 | 2.6683 | 5070.13 | 5071.13 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 62.3 |
| 28-Dec-18 | 14:16 | Cloudy | CMA6a_1hr_2_140141 | 2.6318 | 2.6386 | 5071.13 | 5072.13 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 98.5 |
| 28-Dec-18 | 15:30 | Cloudy | CMA6a_1hr_3_140152 | 2.6553 | 2.6607 | 5072.13 | 5073.13 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 78.2 |
| 03-Jan-19 | 09:00 | Cloudy | CMA6a_1hr_1_140172 | 2.6479 | 2.6507 | 5097.13 | 5098.13 | 1.00 | 1.16 | 1.16 | 1.16 | 69 | 40.4 |
| 03-Jan-19 | 10:50 | Cloudy | CMA6a_1hr_2_206802 | 2.7060 | 2.7070 | 5098.13 | 5099.13 | 1.00 | 1.16 | 1.16 | 1.16 | 69 | 14.4 |
| 03-Jan-19 | 13:00 | Cloudy | CMA6a_1hr_3_206767 | 2.6838 | 2.6838 | 5099.13 | 5100.13 | 1.00 | 1.16 | 1.16 | 1.16 | 69 | <0.1 |
| 09-Jan-19 | 08:10 | Fine | CMA6a_1hr_1_140210 | 2.6531 | 2.6576 | 5124.15 | 5125.15 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 65.2 |
| 09-Jan-19 | 10:00 | Fine | CMA6a_1hr_2_140220 | 2.6626 | 2.6697 | 5125.15 | 5126.15 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 102.8 |
| 09-Jan-19 | 13:00 | Fine | CMA6a_1hr_3_140230 | 2.6668 | 2.6742 | 5126.15 | 5127.15 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 107.2 |
| 15-Jan-19 | 09:30 | Cloudy | CMA6a_1hr_1_140263 | 2.6693 | 2.6724 | 5151.16 | 5152.16 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 45.0 |
| 15-Jan-19 | 10:50 | Cloudy | CMA6a_1hr_2_140271 | 2.6739 | 2.6773 | 5152.16 | 5153.16 | 1.00 | 1.21 | 1.21 | 1.21 | 73 | 46.8 |
| 15-Jan-19 | 13:00 | Cloudy | CMA6a_1hr_3_140279 | 2.6826 | 2.6853 | 5153.16 | 5154.16 | 1.00 | 1.18 | 1.18 | 1.18 | 71 | 38.2 |
| 19-Jan-19 | 08:50 | Fine | CMA6a_1hr_1_140263 | 2.6775 | 2.6831 | 5178.16 | 5179.16 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 81.3 |
| 19-Jan-19 | 10:35 | Fine | CMA6a_1hr_2_140271 | 2.6616 | 2.6643 | 5179.16 | 5180.16 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 39.2 |
| 19-Jan-19 | 13:00 | Fine | CMA6a_1hr_3_140279 | 2.6499 | 2.6527 | 5180.16 | 5181.16 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 40.7 |
| 24-Jan-19 | 08:05 | Fine | CMA6a_1hr_1_140314 | 2.6739 | 2.6822 | 5205.17 | 5206.17 | 1.00 | 1.22 | 1.22 | 1.22 | 73 | 113.7 |
| 24-Jan-19 | 09:45 | Fine | CMA6a_1hr_2_140322 | 2.6504 | 2.6559 | 5206.17 | 5207.17 | 1.00 | 1.15 | 1.15 | 1.15 | 69 | 79.6 |
| 24-Jan-19 | 13:00 | Fine | CMA6a_1hr_3_140332 | 2.6561 | 2.6618 | 5207.17 | 5208.17 | 1.00 | 1.28 | 1.28 | 1.28 | 77 | 74.2 |

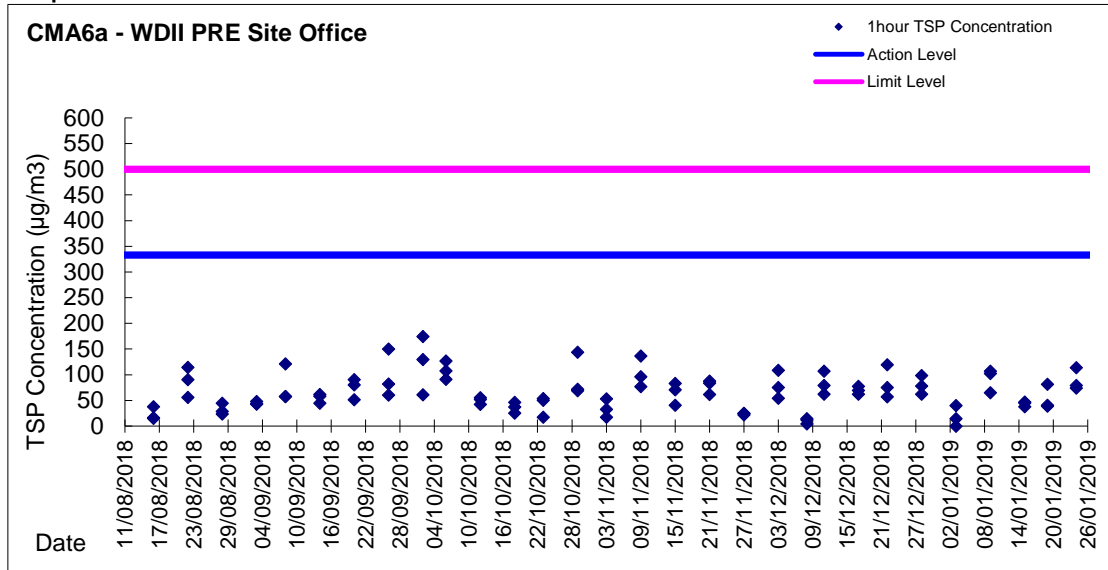
Graphic Presentation of 1 hour TSP Result for EP-376/2009



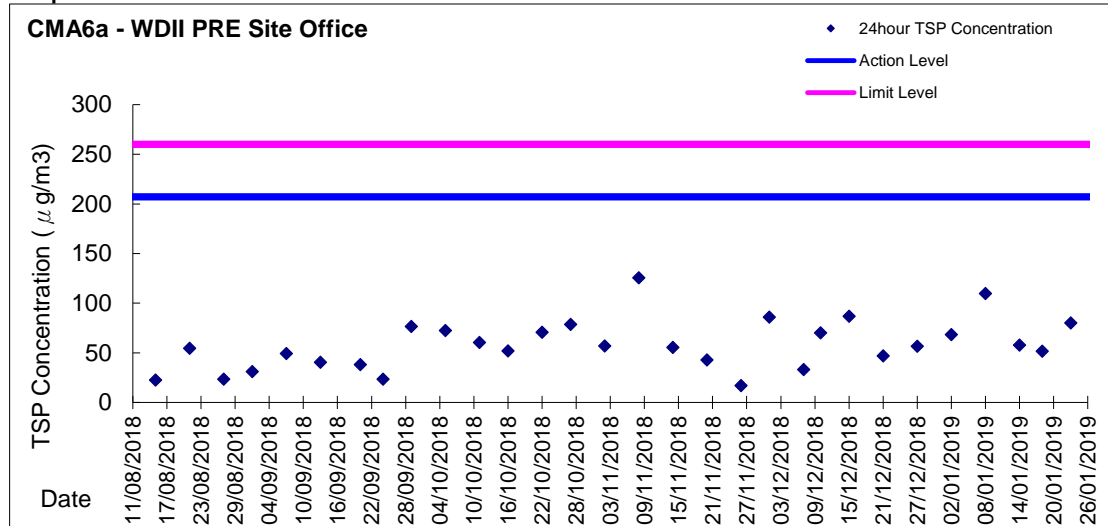
Graphic Presentation of 24 hour TSP Result for EP-376/2009



Graphic Presentation of 1 hour TSP Result for EP-376/2009



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





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

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



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

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

| EVENT | ACTION | | | |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ET | IEC | ER | CONTRACTOR |
| ACTION LEVEL | | | | |
| 1. Exceedance for one sample | 1. Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; 2. Repeat measurement to confirm finding; 3. Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Rectify any unacceptable practice; 2. 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 | 1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. 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 | 1. Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; 2. Repeat measurement to confirm finding; 3. Increase monitoring frequency to daily; 4. 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) | 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) |
| 2. Exceedance for two or more consecutive samples | 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) | 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. (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 3 working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified) |



Event and Action Plan for Odour Patrol

| Event | ACTION | |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Person-in-charge of Odour Monitoring | Implementation Agent Identified by CEDD |
| Action Level | | |
| Exceedance of Action Level | 1. Identify source/reason of exceedance; 2. Repeat odour patrol to confirm finding. | 1. Carry out investigation to identify the source/reason of exceedance; 2. Rectify any unacceptable practice 3. Implement more mitigation measures if necessary; 4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris. |
| Limit Level | | |
| Exceedance of Limit Level | 1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol. | 1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; 2. Rectify any unacceptable practice; 3. Formulate remedial actions; 4. Ensure remedial actions properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 6. 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



Lam Geotechnics Limited

Contract No. HK/2015/01
Wanchai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage3)
Summary for Notification of Exceedance

| Ref no. | Date | Location | Parameters (Unit) | Measured | Action Level | Limit Level | Follow-up action |
|---------|------|----------|-------------------|----------|--------------|-------------|------------------|
| - | - | - | - | - | - | - | - |



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

| Activity ID | Activity Name | Remaining Dur | Early Start | Early Finish | Activity % Complete | 2018 | | | | | | | | | | | | 2019 | | | | | | | | | |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------|-------------|--------------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | 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% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10293 | Sec III A - section 1 carriageway - sewerage pipe from M/H F8B - F8A (night time) | 6 | 05-Feb-18 A | 26-Feb-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10294 | Sec III A - section 1 carriageway - sewerage pipe from M/H F8A - F8 | 8 | 17-Jan-18 A | 28-Feb-18 | 27.27% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10295 | Sec III A - carriageway - works prior TTA stage 5: excavation and duct laying of TCSS and public lighting | 7 | 18-Jan-18 A | 27-Feb-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10298 | Sec III A - section 1 carriageway - works prior TTA stage 5: road kerb | 5 | 28-Feb-18 | 05-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10301 | Sec III A - section 1 carriageway - works prior TTA stage 5: road formation | 2 | 06-Mar-18 | 07-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10302 | Sec III A - section 1 carriageway - works prior TTA stage 5: laying asphalt | 5 | 08-Mar-18 | 13-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10303 | Sec III A - section 1 carriageway - works prior 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% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10310a | Sec III A - section 1 carriageway - TTA stage 5: remaining sewerage pipe for M/H F8A - M/H F8 | 12 | 19-Mar-18 | 04-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10310b | Sec III A - section 1 carriageway - TTA stage 5: remaining sewerage pipe for M/H F8A - M/H F8B | 18 | 06-Apr-18 | 26-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10310c | Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road- remove sheetpile at U-trough west | 5 | 19-Mar-18 | 23-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10310d | 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 at-grade road - laying asphalt with transition slab | 14 | 19-Jun-18 | 05-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10312 | Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L2202 - L2201) | 15 | 19-Mar-18 | 09-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10312a | Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L1805 - L1801) | 15 | 10-Apr-18 | 26-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10312b | Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L1805-1807) | 12 | 27-Apr-18 | 11-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10313 | Sec III A - roadwork and utilities section 1 carriageway - gully pipe (L1807 - L1801) | 14 | 07-May-18 | 23-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| 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 U-turn at Expo Drive) | 1 | 14-Jul-18 | 14-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10440 | Sec III A - roadwork and utilities section 1 carriageway : breaking existing asphalt | 10 | 16-Jul-18 | 26-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10460 | Sec III A - roadwork and utilities section 1 carriageway: road kerb and formation | 14 | 27-Jul-18 | 11-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10480 | Sec III A - roadwork and utilities section 1 carriageway : black top | 10 | 13-Aug-18 | 23-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA10500 | 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 - utilities: HEC ducting (60m) & crossroad duct (PCCW & HGC) | 0 | 20-Jan-18 A | 07-Feb-18 A | 100% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA12790 | Sec III A - roadwork and utilities section 3 carriageway - road kerb & formation | 17 | 08-Feb-18 A | 10-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA12810 | Sec III A - roadwork and utilities section 3 carriageway - black top | 7 | 12-Mar-18 | 19-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | |
| Roadwork & Utilities - Section 6 (L1102 - L1411) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA13399 | 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% | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Remaining Dur | Early Start | Early Finish | Activity % Complete | 2018 | | | | | | | | | | | | 2019 | | | | | | | | | | | | | | | |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------|-------------|--------------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| | | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | | | | | | |
| SIIIA13450 | Sec III A - roadwork and utilities section 6 carriageway - road kerb & formation | 18 | 07-Mar-18 | 27-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA13470 | Sec III A - roadwork and utilities section 6 carriageway - black top | 7 | 28-Mar-18 | 09-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIIIA13570 | Achievement of Section IIIA of the Works | 0 | | 08-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section V - Remaining At-Grade Road & Road P2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roadwork & Utilities | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 1 (L1504 - 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 - drainage works (L1902 - L1900) | 15 | 20-Feb-18 | 08-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12462 | Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 - L1900) | 6 | 09-Mar-18 | 15-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12464 | Sec V - Roadwork & Utilities Section 1 - temp. reinstatement to match with existing Expo Drive | 14 | 16-Mar-18 | 04-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12466 | Sec V - Section 1 - Modification to 2nd stage ITA (V.O. 50) : closure of northbound and maintain one lane at southbound | 1 | 14-Jul-18 | 14-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 of northbound and southbound of Expo Drive | 3 | 13-Aug-18 | 15-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12524 | Sec V - Section 1 - Northbound & Southbound of Expo Drive : breaking asphalt | 14 | 16-Aug-18 | 31-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12526 | Sec V - Section 1 - Northbound & Southbound of Expo Drive : road kerb & formation | 14 | 01-Sep-18 | 17-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12528 | Sec V - Section 1 - Northbound & Southbound of Expo Drive : black top | 7 | 18-Sep-18 | 26-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 (L1510 - 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 top | 13 | 31-Jan-18 A | 06-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12692 | 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: TCSS | 16 | 20-Mar-18 | 11-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV12740 | Sec V - Roadwork & Utilities Section 2 footpath - paving block | 18 | 12-Apr-18 | 03-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 3 (Culvert L - L1510) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12860 | Sec V - Roadwork & Utilities Section 3 footpath - Utilities: TCSS, HGC, PCCW) | 30 | 16-Jan-18 A | 26-Mar-18 | 11.76% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12880 | Sec V - Roadwork & Utilities Section 3 footpath - Paving block | 21 | 27-Mar-18 | 24-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 4 (K1106 - Culvert L) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12282 | Sec V - Roadwork & Utilities Section 4 Carriageway - Drainage Works (L1311 - Culvert L, L1201 - Culvert L) | 10 | 20-Feb-18 | 02-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12300 | Sec V - Roadwork & Utilities Section 4 Carriageway - Gully pipe (L1301 - Culvert L, L1201 - Culvert L) | 7 | 03-Mar-18 | 10-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12302 | Sec V - Roadwork & Utilities Section 4 Carriageway - watermain | 6 | 12-Mar-18 | 17-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12305 | Sec V - Roadwork & Utilities Section 4 Carriageway - utilities : cross road duct | 7 | 19-Mar-18 | 26-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12310 | Sec V - Roadwork & Utilities Section 4 Carriageway - Road 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 top : between culvert K and culvert L | 10 | 18-Apr-18 | 28-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12340 | Sec V - Roadwork & Utilities Section 4 Carriageway - Black top : at west of culvert K | 7 | 20-Feb-18 | 27-Feb-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12422 | Sec V - Roadwork & Utilities Section 4 footpath - Utilities : TCSS | 20 | 20-Feb-18 | 14-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12440 | Sec V - Roadwork & Utilities Section 4 footpath - Utilities : HGC & PCCW | 8 | 15-Mar-18 | 23-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Remaining Dur | Early Start | Early Finish | Activity % Complete | 2018 | | | | | | | | | | | | 2019 | | | | | | | | | | | | | | | |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|---------------|-------------|--------------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| | | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | | | | | | |
| SIV12460 | Sec V - Roadwork & Utilities Section 4 footpath - Paving block | 22 | 24-Mar-18 | 23-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SV10300 | Achievement of Section V of the Works | 0 | | 26-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section IV - Slip Road 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roadwork & Utilities | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 1 (L16608 - 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% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV11753 | Sec IV - sign gantry DS20: install steel frame of gantry D20 | 14 | 15-Aug-18 | 30-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV11760 | Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1607 - L1601) | 0 | 09-Dec-17 A | 26-Jan-18 A | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 - Gully pipe (L2004) | 7 | 17-May-18 | 25-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV11780 | Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Watermain | 18 | 26-May-18 | 15-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV11800 | Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Utilities : TCSS crossroad duct | 14 | 16-Jun-18 | 04-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV11830 | Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Road kerb & formation | 24 | 05-Jul-18 | 01-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 - paving block | 17 | 30-Jul-18 | 17-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 2 (L2301 - L2103) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV11942 | Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Gully pipe (L2301-L2013, L1608-L1609) | 0 | 28-Dec-17 A | 23-Jan-18 A | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV11960 | Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Watermain | 0 | 24-Jan-18 A | 03-Feb-18 A | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12010 | Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Road kerb & formation | 20 | 05-Feb-18 A | 14-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12020 | Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Black top | 7 | 15-Mar-18 | 22-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 (M/H1.6 - L2301) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12092 | Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Drainage Works (M/H1.7 - L2301) | 38 | 28-Dec-17 A | 09-Apr-18 | 35.59% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12096 | Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: construct manholes | 0 | 29-Nov-17 A | 24-Jan-18 A | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12102 | Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: demolish existing seawall | 0 | 25-Jan-18 A | 08-Feb-18 A | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIV12103 | Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: ELS | 10 | 09-Feb-18 A | 02-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[illegible]

| Activity ID | Activity Name | Remaining Dur | Early Start | Early Finish | Activity % Complete | 2018 | | | | | | | | | | | | 2019 | | | | | | | | | | | | | |
|----------------------------------------------|------------------------------------------------------------------------------|---------------|-------------|--------------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| | | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | | | | |
| Promenade Seawall Parapet Construction & EVA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12000 | Sec VII - Precast parapet | 67 | 18-Nov-17 A | 14-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12010 | Sec VII - Zone CRIII - seawall parapet: Backfilling | 14 | 20-Feb-18 | 07-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12120 | Sec VII - Zone CRIII - seawall parapet: Construct mass concrete coping | 30 | 08-Mar-18 | 16-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12122 | Sec VII - Zone CRIII - seawall parapet: reinforced concret coping | 17 | 17-Apr-18 | 07-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12140 | Sec VII - Zone CRIII - seawall parapet: construct seawall parapet | 30 | 08-May-18 | 12-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12160 | Sec VII - CRIII - EVA: watermain | 14 | 13-Jun-18 | 29-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12180 | Sec VII - CRIII - EVA: U-channel | 14 | 30-Jun-18 | 17-Jul-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% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13160 | Sec VII - Zone A1, A2 & B - EVA: watermain | 14 | 15-May-18 | 31-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13180 | Sec VII - Zone A1, A2 & B - EVA: U-channel | 14 | 01-Jun-18 | 16-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13182 | Sec VII - Zone A1, A2 & B - EVA: bituminous layer | 5 | 19-Jun-18 | 23-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13184 | Sec VII - Zone A1, A2 & B - EVA: paving block | 30 | 25-Jun-18 | 30-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13200 | Sec VII - Zone D - seawall parapet: Remove temporary seawall block | 21 | 07-Mar-18 | 03-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13220 | Sec VII - Zone D - seawall parapet: Construct mass concrete | 30 | 04-Apr-18 | 10-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13222 | Sec VII - Zone D - seawall parapet: reinforced concrete coping | 18 | 11-May-18 | 01-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13240 | Sec VII - Zone D - seawall parapet: Construct seawall parapet | 25 | 02-Jun-18 | 03-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13260 | Sec VII - Zone D - EVA : watermain | 14 | 04-Jul-18 | 19-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13280 | Sec VII - Zone D - EVA : U-channnel | 14 | 20-Jul-18 | 04-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13300 | Sec VII - Zone D - EVA : bituminous layer | 5 | 06-Aug-18 | 10-Aug-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13320 | Sec VII - Zone D - EVA : paving block | 30 | 11-Aug-18 | 14-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Promenade Footpath | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12610 | Sec VII - section 2 footpath - drainage works : L2202 - L2203A | 20 | 20-Feb-18 | 14-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12615 | 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% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12670 | Sec VII - section 2 footpath - paving block | 30 | 21-Apr-18 | 28-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12850 | Sec VII - section 3 footpath - watermain | 17 | 20-Feb-18 | 10-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12870 | Sec VII - section 3 footpath - utilities (HEC, TCSS, HGC, PCCW) | 40 | 12-Mar-18 | 02-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII12875 | Sec VII - 3 footpath - drainage works :U chanel | 14 | 03-May-18 | 18-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Activity ID | Activity Name | Remaining Dur | Early Start | Early Finish | Activity % Complete | 2018 | | | | | | | | | | | | 2019 | | | | | | | | | | | |
|-----------------------------------------------------------|------------------------------------------------------------------|---------------|-------------|--------------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | | |
| SVII12890 | Sec VII - section 3 footpath - paving block | 30 | 19-May-18 | 25-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 -L2203A) | 21 | 21-Feb-18 | 16-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13055 | Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC & PCCW | 49 | 17-Mar-18 | 18-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13110 | Sec VII - section 4 footpath - paving block | 25 | 19-May-18 | 19-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13270 | Sec VII - section 5 footpath - drainage works :L2203A -L2204 | 14 | 17-Mar-18 | 06-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13275 | Sec VII - section 5 footpath - watermain | 14 | 07-Apr-18 | 23-Apr-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13310 | Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC, PCCW | 42 | 24-Apr-18 | 13-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13330 | Sec VII - section 5 footpath - paving block | 22 | 14-Jun-18 | 11-Jul-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13490 | Sec VII - section 6 footpath - drainage works(Culvert L - L2204) | 14 | 20-Feb-18 | 07-Mar-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13510 | 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, PCCW | 49 | 23-Mar-18 | 25-May-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII13550 | Sec III A - section 6 footpath - paving block | 25 | 26-May-18 | 25-Jun-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVII19420 | Achievement of Section VII of the Works | 0 | | 14-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| Section VIII - Landscape Softworks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Soft Landscaping Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SVIII10040 | Sec VIII - Trees Planting | 141 | 04-May-18 | 21-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVIII10060 | Sec VIII - Shrubs Planting | 141 | 04-May-18 | 21-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| SVIII10080 | Achievement of Section VIII of the Works | 0 | | 21-Sep-18 | 0% | | | | | | | | | | | | | | | | | | | | | | | | |
| Section IX - Establishment Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Soft Landscaping 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 - Protection & 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 Landscaping Works | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX10020 | Sec X - Protection & Preservation of Trees | 214 | 31-Jan-13 A | 21-Sep-18 | 86.89% | | | | | | | | | | | | | | | | | | | | | | | | |