**CONTRACT NO: HY/2019/18** 

# WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 4)

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

#### **MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

- DECEMBER 2019 -

**CLIENTS:** 

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Raymond Dai

**Environmental Team Leader** 

DATE:

January 2020



Ref.: AACWBIECEM00\_0\_11918L.20

9 January 2020

By Post and Fax (2691 2649)

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

Attention: Mr. Conrad Ng

Dear Mr. Ng,

Re: Wan Chai Development Phase II - Central-Wan Chai Bypass

<u>Monthly Environmental Monitoring and Audit Report (December 2019)</u>

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 December 2019 received by e-mail on 9 January 2020 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. Jimmy Ling by fax: 2301 1277

AECOM Attn: Ms. Gloria Tang by fax: 2587 1877
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#### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report December 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. HY/2019/18 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 4). This report presents the environmental monitoring findings and information recorded during the period of 27th November 2019 to 26th December 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
  - Landscaping

#### Noise Monitoring

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

#### Air Quality Monitoring

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

#### Complaints, Notifications of Summons and Successful Prosecutions

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

#### Site Inspections and Audit

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

#### Future Key Issues

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

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

Landscaping

#### 1 INTRODUCTION

#### 1.1 Scope of the Report

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

This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-376/2009 and Further Environmental Permits no. FEP-01/376/2009 and FEP-02/376/2009, during the period of 27<sup>th</sup> November 2019 to 26<sup>th</sup> December 2019. The cut-off date of reporting is the 26<sup>th</sup> 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. <u>Figure 2.1</u> 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 | Schedule 2, Part I, A.1 |  |
|      | primary/district distributor roads              |                         |  |

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



#### 2.3 Project Organization and Contact Personnel

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

Table 2.2 Contact Details of Key Personnel

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

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

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

Landscaping

#### 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/<br>Expiry Date  | Status  |
|--|-------------------|-------------|-------------------------------|---------|
| Further Environmental Permit                   | FEP-01/376/2009   | 31 Mar 2015 | N/A                           | Valid   |
| Turtier Environmental Fermit                   | 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<br>Waste Producer   | 5213-134-C3790-01 | 30 Jun 2016 | N/A                           | Valid   |
| Billing Account under Waste Disposal Ordinance | 7016883           | 18 Feb 2013 | N/A                           | Valid   |
| Water Discharge Licence                        | WT00018470-2014   | 6 Mar 2014  | 31 Mar 2019                   | Expired |
| Construction Noise Permit                      | GW-RS0775-19      | 27 Aug 2019 | 29 Aug 2019 to<br>25 Feb 2020 | Valid   |
| Construction (voise Fermit                     | GW-RS0632-19      | 11 Jul 2019 | 13 Jul 2019 to<br>12 Jan 2020 | Valid   |



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

| EP Condition   | Submission                     | Date of Submission   |
|----------------|--------------------------------|--|
| Condition 2.9  | Noise Management Plan (Rev. 2) | Generally in order<br>as commented by<br>EPD on 27 Oct<br>2015 |
| Condition 2.10 | Landscape Plan (Rev. 0)        | Generally in order<br>as commented by<br>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 (Leq). Leq (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
  - One set of measurements between 0700 and 1900 hours on normal weekdays.

#### **MONITORING EQUIPMENT**

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

#### 4.2 Air Quality Monitoring

#### AIR QUALITY MONITORING STATIONS

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

#### 5 MONITORING RESULTS

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

#### 5.1 Noise Monitoring Results

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

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

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

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

#### 5.2 Air Quality Monitoring Results

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

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

| Station | Description          |
|---------|----------------------|
| CMA5b   | Pedestrian Plaza     |
| CMA6a   | WDII PRE Site Office |

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



#### 5.3 Waste Monitoring Results

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

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

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



# 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

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

#### 6.2 Air Quality Monitoring

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

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

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

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

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



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

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



#### 8 ENVIRONMENTAL SITE AUDIT

8.0.1. Four site inspections for Contract no. HK/2012/08 were carried out on 3, 10, 17 and 24 December 2019 in this reporting period. No observation was found in the reporting period.

Mitigation measures implemented to prevent muddy discharge and surface runoff

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

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

#### 9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No environmental complaint was received in the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in <a href="#">Appendix 9.1</a>
- 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                 |
| December 2019   | 0                 |
| Total   | 0                 |

Table 9.2 Cumulative Statistics on Successful Prosecutions

| Environmental<br>Parameters | Cumulative No.<br>Brought Forward | No. of Successful Prosecutions this month (Offence Date) | Cumulative No.<br>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*.

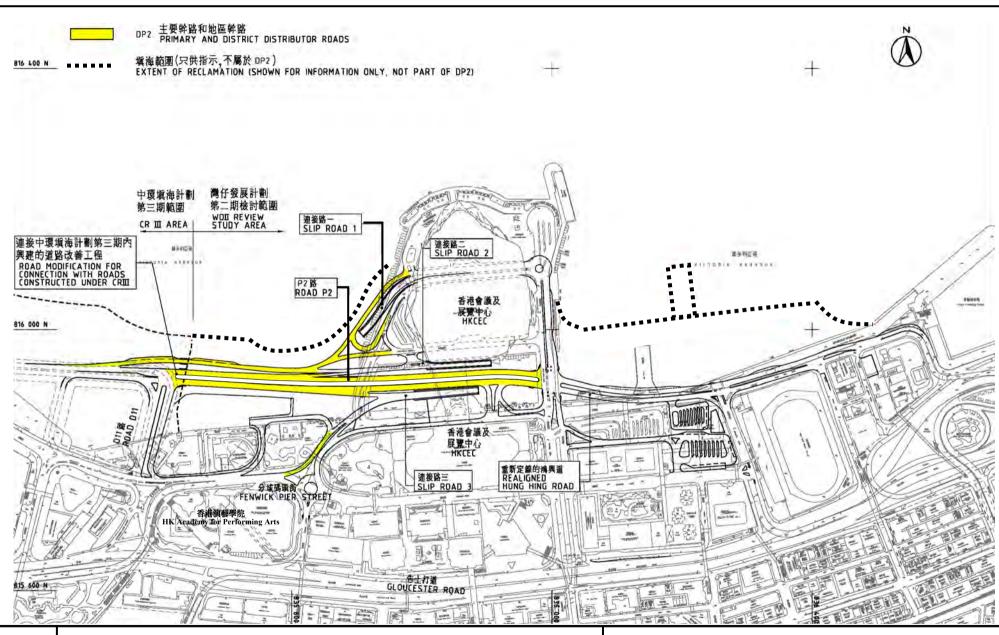
Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month

| Contract<br>No. | Key Construction Works | Recommended Mitigation Measures |
|-----------------|------------------------|---------------------------------|
| HK/2012/08      | • Landscaping          | • Nil                           |

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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 路及其他分類爲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

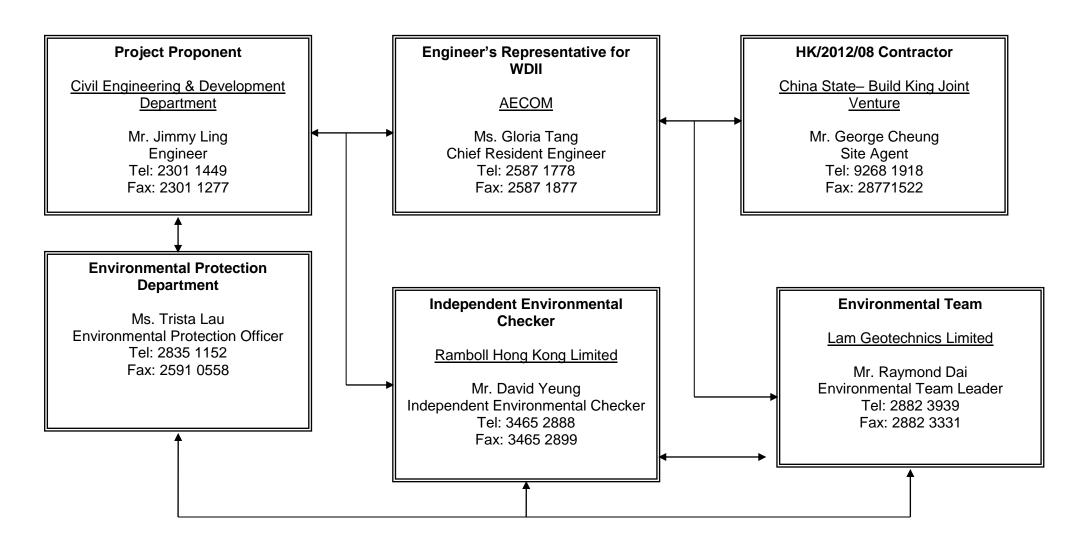
圖 1: 工程項目位置圖

(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 4.1

Locations of Monitoring Stations

# Legend Noise Monitoring Station ■ Air Monitoring Station CMA6a-WDII PRE Office CMA5b-Pedestrian Plaza Causeway Bay Typhoon Shelter M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre 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     | <b>Environmental Protection Measures /</b>   | Location / Timing               | Implementation<br>Agent | Impl | ement    | ation | stage | Relevant Legislation |
|-------------|--|---------------------------------|-------------------------|------|----------|-------|-------|----------------------|
|             | Mitigation Measures  |                                 |                         | Des  | C        | О     | Dec   | and Guidelines       |
| Constructio | n Phase  |                                 |                         |      |          |       |       |                      |
| For the Who | ole Project  |                                 |                         |      |          |       |       |                      |
| S3.6.5      | Four times a day watering of the work site with active operations.   | Work site / during construction | Contractor              |      | 1        |       |       | 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              |      | <b>V</b> |       |       |                      |

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

**Table A13.2 Implementation Schedule for Noise Control** 

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

<sup>•</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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

| EIA Ref          | <b>Environmental Protection Measures /</b>  | Location / Timing               | Implementation<br>Agent | Implementation stage |   |   |     | Relevant Legislation              |
|------------------|---|---------------------------------|-------------------------|----------------------|---|---|-----|-----------------------------------|
|                  | Mitigation Measures   |                                 |                         | Des                  | C | 0 | Dec | and Guidelines                    |
| Construction     | n Phase   |                                 | 1                       |                      |   | I |     |                                   |
| For the Who      | le Project  |                                 |                         |                      |   |   |     |                                   |
| For the Who S5.8 | Construction Runoff and Drainage  use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow;  Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;  a sediment tank constructed from preformed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal;  Oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent 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 | Work site / during construction | Contractor              |                      |   |   |     | ProPECC PN 1/94;<br>WPCO (TM-DSS) |

|      | installed in order to minimise the sediment loading of the effluent prior to discharge;  All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms.  The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer required.  All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity.  Minimum distances of 100 m shall be maintained between the storm water discharges |                                 |            |          |                                   |
|------|--|---------------------------------|------------|----------|-----------------------------------|
| S5.8 | and the existing or planned WSD flushing water intakes during construction phase.  Sewage from Construction Work Force 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.   | Work site / during construction | Contractor | <b>N</b> | ProPECC PN 1/94;<br>WPCO (TM-DSS) |

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| S5.8 | Floating Debris and Refuse                      | Work site and        | Contractor |      |  | WPCO |
|------|---|----------------------|------------|------|--|------|
|      | Collection and removal of floating refuse shall | adjacent water /     |            |      |  |      |
|      | be performed at regular intervals on a daily    | During the           |            |      |  |      |
|      | basis. The contractor shall be responsible for  | construction period. |            |      |  |      |
|      | keeping the water within the site boundary and  |                      |            |      |  |      |
|      | the neighbouring water free from rubbish.       |                      |            |      |  |      |
| S5.8 | Storm Water Discharges                          | Work site and        | Contractor | <br> |  | WPCO |
|      | Minimum distances of 100 m shall be             | adjacent water       |            |      |  |      |
|      | maintained between the existing or planned      | / During the design  |            |      |  |      |
|      | stormwater discharges and the existing or       | and construction     |            |      |  |      |
|      | planned WSD flushing water intakes.             | period.              |            |      |  |      |

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

**Table A13.4 Implementation Schedule for Waste Management** 

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

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|         | <ul> <li>recyclable portions such as metals.</li> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> <li>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.</li> <li>Any unused chemicals or those with remaining functional capacity shall be recycled.</li> <li>Use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&amp;D material.</li> <li>Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> <li>Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul> |  |            |          |   |  |
|---------|--|--|------------|----------|---|--|
| S6.7.10 | General Refuse 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.  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   | Work site / During<br>the<br>construction period | Contractor | <b>V</b> | Public Health and<br>Municipal Services<br>Ordinance (Cap. 13 |  |

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| S6.7.11              | Chemical Wastes 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.  | Work site / During<br>the<br>construction period | Contractor  | V        | Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes |
|----------------------|---|--|---|----------|--|
| S6.7.12 –<br>S6.7.13 | Construction and Demolition Material 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. | Work site / During<br>the<br>construction period | Contractor and<br>Independent<br>Environmental<br>Checker | <b>V</b> | DEVB TCW<br>No.6/2010;<br>ETWB TCW No.<br>33/2002;<br>ETWB TCW No.<br>19/2005  |
|                      | 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.  |  |   |          |  |
| S6.7.14              | Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated  | Work site / During<br>the<br>construction period | Contractor  | V        | ProPECC PN 1/94  |

EP-376/2009 EM&A Manual in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.

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

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Table A13.7 Implementation Schedule for Landscape and Visual

| EIA Ref      | Environmental Protection Measures /  | <b>Location / Timing</b>                 | Implementation | Imp       | lemen     | tation | stage | Relevant Legislation |
|--------------|--|--|----------------|-----------|-----------|--------|-------|----------------------|
|              | Mitigation Measures  |  | Agent          | Des       | C         | О      | Dec   | and Guidelines       |
| Construction | n Phase  | l  | <u>l</u>       | 1         |           |        |       | <u> </u>             |
| For the Who  | le Project   |  |                |           |           |        |       |                      |
| Table 10.5   | CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical. | Work site / During<br>Construction Phase | Contractor     | V         | 1         |        |       | EIAO TM              |
| Table 10.5   | CM2 Existing trees to be retained on site shall be carefully protected during construction.  | Work site / During<br>Construction Phase | Contractor     | V         | V         |        |       | EIAO TM              |
| Table 10.5   | CM3 Trees unavoidably affected by the works shall be transplanted where practical.   | Work site / During<br>Construction Phase | Contractor     | 1         | <b>√</b>  |        |       | EIAO TM              |
| Table 10.5   | CM4 Compensatory tree planting shall be provided to compensate for felled trees.   | Work site / During<br>Construction Phase | Contractor     | 1         | √         |        |       | EIAO TM              |
| Table 10.5   | CM5 Control of night-time lighting.  | Work site / During<br>Construction Phase | Contractor     |           | √         |        |       | EIAO TM              |
| Table 10.5   | CM6 Erection of decorative screen hoarding compatible with the surrounding setting.  | Work site / During<br>Construction Phase | Contractor     |           | 1         |        |       | EIAO TM              |
| For DP2 - V  | VDII Major Roads (Road P2)   |  |                |           |           |        |       |                      |
| Table 10.5   | CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical. | Work site / During<br>Construction Phase | Contractor     | $\sqrt{}$ | 1         |        |       | EIAO TM              |
| Table 10.5   | CM2 Existing trees to be retained on site shall be carefully protected during construction.  | Work site / During<br>Construction Phase | Contractor     | V         | V         |        |       | EIAO TM              |
| Table 10.5   | CM3 Trees unavoidably affected by the works shall be transplanted where practical.   | Work site / During<br>Construction Phase | Contractor     | 1         | <b>√</b>  |        |       | EIAO TM              |
| Table 10.5   | CM4 Compensatory tree planting shall be provided to compensate for felled trees.   | Work site / During<br>Construction Phase | Contractor     | 1         | <b>√</b>  |        |       | EIAO TM              |
| Table 10.5   | CM5 Control of night-time lighting.  | Work site / During<br>Construction Phase | Contractor     |           | <b>√</b>  |        |       | EIAO TM              |
| Table 10.5   | CM6 Erection of decorative screen hoarding compatible with the surrounding setting.  | Work site / During<br>Construction Phase | Contractor     |           | $\sqrt{}$ |        |       | EIAO TM              |

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

<sup>•</sup> 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 inµg/m3 |             | 24-hour TSP Level inµg/m3 |             |
|-------------------------------|--------------------------|-------------|---------------------------|-------------|
|                               | Action Level             | Limit Level | Action Level              | Limit Level |
| CMA5b<br>Pedestrian Plaza     | 339.7                    | 500         | 209.9                     | 260         |
| CMA6a<br>WDII PRE Site Office | 333.0                    | 500         | 207.1                     | 260         |

### Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

## Contract No. HY/2019/18 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 4) Environmental Monitoring Schedule December 2019

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

# Contract No. HY/2019/18 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 4) Tentative Environmental Monitoring Schedule January 2020

| Sunday | Monday | Tuesday                            | Wednesday                          | Thursday | Friday  | Saturday |
|--------|--------|------------------------------------|------------------------------------|----------|---------|----------|
| 29-Dec | 30-Dec | 31-Dec                             | 01-Jan                             | 02-Jan   | 03-Jan  | 04-Jan   |
|        |        | Weekly Environmental Site<br>Audit |                                    |          |         |          |
| 05-Jan | 06-Jan | 07-Jan                             | 08-Jan                             | 09-Jan   | 10-Jan  | 11-Jan   |
| o-van  | oo dan | Weekly Environmental Site<br>Audit | G-Jail                             | US-Vali  | i Odali | 11341    |
| 12-Jan | 13-Jan | 14-Jan                             | 15-Jan                             | 16-Jan   | 17-Jan  | 18-Jan   |
|        |        | Weekly Environmental Site<br>Audit |                                    |          |         |          |
| 19-Jan | 20-Jan | 21-Jan                             | 22-Jan                             | 23-Jan   | 24-Jan  | 25-Jan   |
|        |        | Weekly Environmental Site<br>Audit |                                    |          |         |          |
| 26-Jan | 27-Jan | 28-Jan                             | 29-Jan                             | 30-Jan   | 31-Jan  | 01-Feb   |
|        |        |                                    | Weekly Environmental Site<br>Audit |          |         |          |

## Appendix 6.1

**Event Action Plans** 

#### **Event/Action Plan for Construction Noise**

| EVENT                       |  | A   | CTION  |  |
|-----------------------------|--|---|--|--|
|                             | ET   | IEC   | ER   | CONTRACTOR   |
| Action Level being exceeded | <ol> <li>Notify ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol> | 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.  (The above actions should be taken within 2 working days after the exceedance is identified) | <ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol> | Submit noise mitigation proposals to IEC and ER;     Implement noise mitigation proposals.  (The above actions should be taken within 2 working days after the exceedance is identified) |

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



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

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

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

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



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

#### **Event and Action Plan for Odour Patrol**

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

Appendix 9.1

Complaint Log

### **Environmental Complaints Log**

| Complaint<br>Log No. | Date of Complaint | Received From and Received By | Location of Complainant | Nature of Complaint | Outcome | Status |
|----------------------|-------------------|-------------------------------|-------------------------|---------------------|---------|--------|
| -                    | -                 | -                             |                         |                     | 1       |        |

## Appendix 10.1

Construction Programme of Individual Contracts

|                       | 14.88.9  | CEDD Contract No. HK/2012/08  Wan Chai Development Phase II  Central - Wan Chai Bypass at Wan Chai West |              |                          |                        |               |      |                |                |             |                |              | Page : 1 / 7 |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
|-----------------------|--|---|--------------|--------------------------|------------------------|---------------|------|----------------|----------------|-------------|----------------|--------------|--------------|-----|-----|-----|-----|-----|---------------|-----|---------------|------|-------------|-----|--------|-----|-------|
| tivity ID             | Activity Name  | Remaining Dur   | Early Start  | Early Finish             | Activity %<br>Complete | Jan           | Feb  | Mar            | Apr            | May         | Jun 2          | Jul          | Aug          | Sep | Oct | Nov | Dec | Jan | Feb           | Mar | Apr           | May  | 2019<br>Jun | Jul | Aug    | Sep | Oct / |
|                       | Revised Works Programme Rev.12.0(DD 20 No  | ovember 20  | 017)         |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               | ,    | Jun         | our | Aug    | Зер | Oct P |
|                       | nd Milestone Dates<br>Vorks Completion (Included Not Granted EOT Enti                              |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10840               | Completion of Section IIIA   | trement of 1  | ne Contracto |                          | 004                    |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10860               | Complection of Section IV  | 0   |              | 08-Sep-18*               | 0%                     |               |      |                |                |             |                |              |              | •   |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10880               | Completion of Section V  | 0   |              | 30-Aug-18*<br>26-Sep-18* | 0%                     |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD11010               | Completion of Section VII  | 0   |              |                          | 0%                     |               |      |                |                |             |                |              |              | _   |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD11020               | Completion of Section VIII   | 0   |              | 14-Sep-18*<br>21-Sep-18* | 0%                     |               |      |                |                |             |                |              |              | •   |     |     |     |     |               |     |               |      |             | •   |        |     |       |
| KD11040               | Completion of Section IX   | 0   |              | 21-Sep-19*               | 0%                     |               |      |                |                |             |                |              |              | •   |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD11060               | Completion of Section X  | 0   |              | 21-Sep-19*               | 0%                     |               |      |                |                |             |                |              |              | _   |     |     |     |     |               |     |               |      |             |     |        | •   |       |
|                       | tions of Works Completion  |   |              | 21 Sep 10                | 0 76                   |               |      |                | ļ              |             |                |              |              | · · |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10080               | Planned Section IIIA Completion - Road A2,A4, A5   | 0   |              | 08-Sep-18                | 0%                     |               |      |                |                |             |                |              |              | _   |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10100               | Planned Section IV Completion - Slip Road 3  | 0   |              | 30-Aug-18                | 0%                     |               |      |                |                |             |                |              |              | Ť   |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10140               | Planned Section V Completion - Remaining At-Grade Road   | 0   |              | 26-Sep-18                | 0%                     |               |      |                |                |             |                |              |              | _   |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10280               | Planned Section VII Completion - Remainder Works   | 0   |              | 14-Sep-18                | 0%                     |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10300               | Planned Section VIII Completion - Landscape Softwork   | 0   |              | 21-Sep-18                | 0%                     |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10320               | Planned Section IX Completion - Establishment Works  | 0   |              | 21-Sep-19                | 0%                     |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| KD10340               | Planned Section X Completion - Tree Protection &<br>Preservation                                   | 0   |              | 21-Sep-18                | 0%                     |               |      |                |                |             |                |              |              | •   |     |     |     |     |               |     |               |      |             |     |        | •   |       |
| Dredging and          | d Reclamation  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| Marine Work           | Construction   |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| Zone CRIII            |  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| Seawall Cons          | truction - Zone CRIII  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
|                       | eawall- 2nd Stage  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| Seawalf 2 &           |  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| MAR21371              | Zone CRIII - seawall 2 & 12 - Backfilling remaining portion (type A, geotextile and filter)        | 0   | 19-Jan-18 A  | 27-Jan-18 A              | 100%                   |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| Zone D                |  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
|                       | truction - Zone D  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| Seawall 10 &          |  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| MAR20630              | Zone D - Seawall 10 & 11: Install remaining seawall block  | 14  | 20-Feb-18*   | 05-Mar-18                | 0%                     |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| MAR20650              | Zone D - Seawall 10 & 11: Backfill Type A  | 7   | 06-Mar-18    | 12-Mar-18                | 0%                     |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| MAR20670              | Zone D - Seawall 10 & 11: Lay geotextile and filter  | 7   | 13-Mar-18    | 19-Mar-18                | 0%                     |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
|                       | ction Completion   |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| Construction          | Road A2, A4 & A5   |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
|                       |  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| NOGUWOFK &            | Utilities - Section 1 (L1806 - L1801)  |   |              |                          |                        |               |      |                |                |             |                |              |              |     |     |     |     |     |               |     |               |      |             |     |        |     |       |
| ata Date:<br>0-Feb-18 | Current Milestone  Actual Work  Critical Remaining Work  Remaining Work  Remaining Level of Effort |   |              |                          | Up<br>(Ref             | dated<br>to R | d Wo | orks I<br>2 as | Progr<br>of 20 | amm<br>Febr | ne Re<br>urary | v.12<br>2018 | 3)           |     |     |     |     |     | Dat<br>20-Feb |     | Revision<br>2 | Chec | cked        |     | Approv | ed  |       |

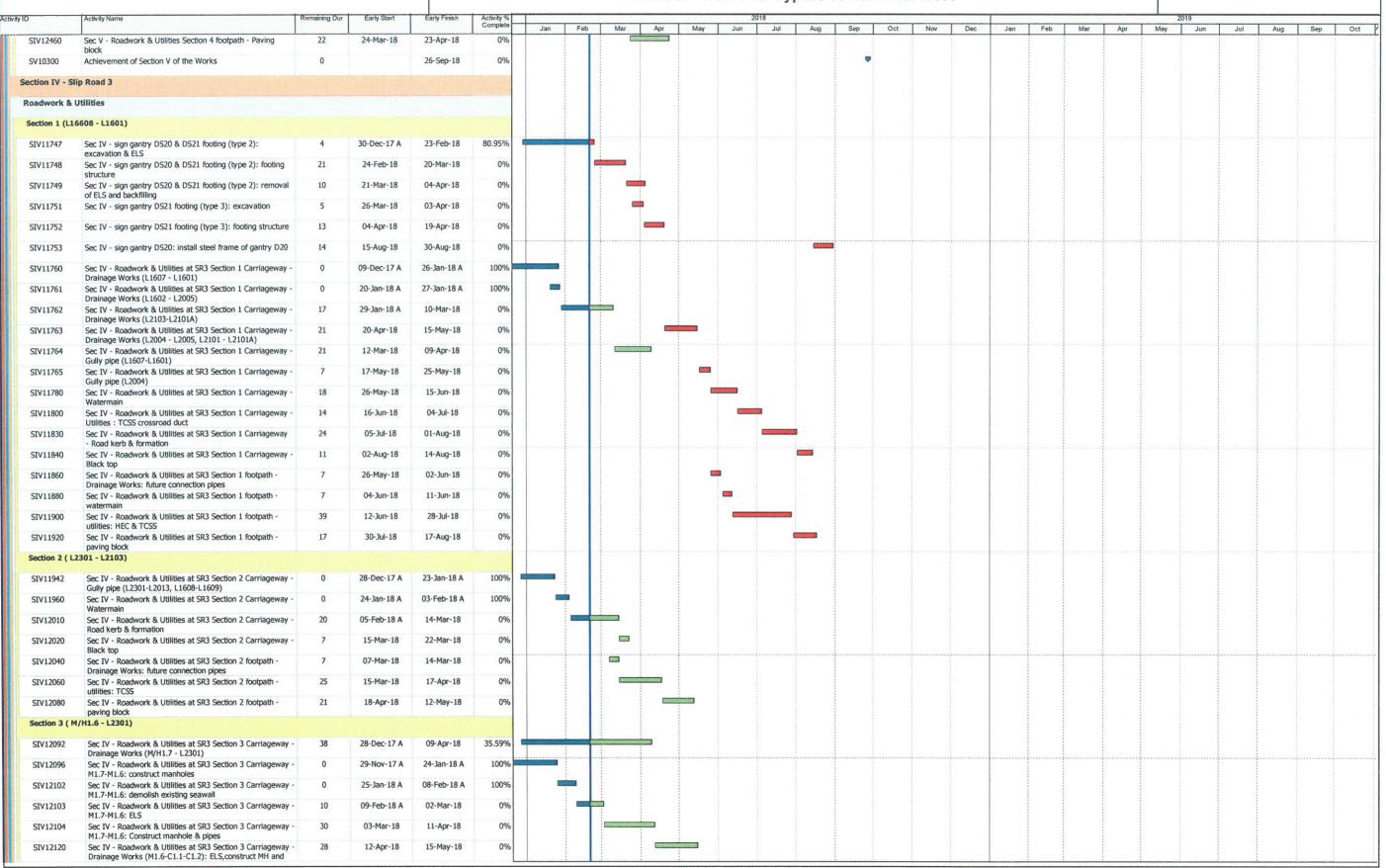
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| vity ID                                 | Activity Name  | Remaining Dur | Early Start | Early Finish | Activity %    |     |     |     |     |     |     | 2018 | 100000   |     |     |     |     |     |     |     |     |     | 2019 | 6 1 2 1 1 |             |     |   |
|---|--|---------------|-------------|--------------|---------------|-----|-----|-----|-----|-----|-----|------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|-------------|-----|---|
| SIIIA10279c                             | Sec III A - section 1 carriageway - sewerage pipe from M/H   | 0             | 02-Jan-18 A | 03-Feb-18 A  | Complete 100% | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug      | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun  | Jul       | Aug         | Sep |   |
| SIIIA10279C                             | 8C to F8B (night time): construct sewerage pipe Sec III A - section 1 carriageway - sewerage pipe Sec III A - section 1 carriageway - sewerage pipe from M/H | 6             | 05-Feb-18 A | 26-Feb-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
|   | F8B - F8A (night time)   | 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%        | 1   |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10295                              | Sec III A - carriageway - works prrior TTA stage 5:<br>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 prrior TTA stage 5: road kerb  | 5             | 28-Feb-18   | 05-Mar-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10301                              | Sec III A - section 1 carriageway - works prrior TTA stage 5: road formation   | 2             | 06-Mar-18   | 07-Mar-18    | 0%            |     |     | 1   |     | -   |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10302                              | Sec III A - section 1 carriageway - works prrior TTA stage   | 5             | 08-Mar-18   | 13-Mar-18    | 0%            |     |     | •   |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10303                              | 5: laying asphalt<br>Sec III A - section 1 carriageway - works prrior TTA stage  | 3             | 14-Mar-18   | 16-Mar-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10310                              | 5: road marking & preparation works Sec III A - section 1 carriageway - TTA stage 5:   | 1             | 17-Mar-18   | 17-Mar-18    | 0%            |     |     | 1   |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10310a                             | Implementation of TTA Stage 5 Sec III A - section 1 carriageway - TTA stage 5: remaining   | 12            | 19-Mar-18   | 04-Apr-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10310b                             | sewerage pipe for M/H F8A - M/H F8<br>Sec III A - section 1 carriageway - TTA stage 5: remaining   | 18            | 06-Apr-18   | 26-Apr-18    | 0%            |     |     |     |     |     |     |      |          | ·   |     |     |     |     |     |     | ļ   |     |      | ļ         |             |     |   |
| SIIIA10310c                             | sewerage pipe for M/H F8A - M/H F8B<br>Sec III A - section 1 carriageway - TTA stage 5: SR1  | 5             | 19-Mar-18   | 23-Mar-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10310d                             | at-grade road- remove sheetpile at U-trough west   | 21            | 24-Mar-18   | 21-Apr-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           | ;<br>;<br>; |     |   |
|   | at-grade road -remove temp. road access bay 5 of SR1   |               |             |              |               |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10310e                             | 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<br>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 -<br>Drainage works (L2202 - L2201)   | 15            | 19-Mar-18   | 09-Apr-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10312a                             | Sec III A - roadwork and utilities section 1 carriageway -<br>Drainage works (L1805 - L1801)   | 15            | 10-Apr-18   | 26-Apr-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10312b                             | Sec III A - roadwork and utilities section 1 carriageway -<br>Drainage works (L1805-1807)  | 12            | 27-Apr-18   | 11-May-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10313                              | Sec III A - roadwork and utilities section 1 carriageway -<br>gully pipe (L1807 - L1801)   | 14            | 07-May-18   | 23-May-18    | 0%            |     |     |     |     |     |     |      |          |     | †   |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10320                              | Sec III A - roadwork and utilities section 1 carriageway -   | 7             | 24-May-18   | 31-May-18    | 0%            |     |     |     |     | -   | •   |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10340                              | fresh watermain Sec III A - roadwork and utilities section 1 carriageway -   | 14            | 01-Jun-18   | 16-Jun-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10360                              | utilities: HEC (80m) along carriageway  Sec III A - roadwork and utilities section 1 carriageway -   | 14            | 19-Jun-18   | 05-Jul-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10400                              | road kerb & formation  Sec III A - roadwork and utilities section 1 carriageway -  | 7             | 06-Jul-18   | 13-Jul-18    | 0%            |     |     |     |     |     |     | _    |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10420                              | black top<br>Sec III A - Implementation of TTA Stage 7P (Closure of  | 1             | 14-Jul-18   | 14-Jul-18    | 0%            |     |     |     |     |     |     | 1    |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10440                              | U-turn at Expo Drive)  Sec III A - roadwork and utilities section 1 carriageway :  | 10            | 16-Jul-18   | 26-Jul-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA10460                              | breaking existing asphalt  Sec III A - roadwork and utilities section 1 carriageway: road  |               |             |              |               |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| 0.0000000000000000000000000000000000000 | 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 -   | 7             | 12-Mar-18   | 19-Mar-18    | 0%            |     |     |     |     |     |     |      | <u> </u> |     |     |     |     |     |     |     |     |     |      |           |             |     | - |
| Roadwork &                              | black top Utilities - Section 6 (L1102 - L1411)  |               |             |              |               |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA13399                              | Sec III A - roadwork and utilities section 6 carriageway -   | 0             | 12-Jan-18 A | 26-Jan-18 A  | 100%          |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA13444                              | gully pipe (L1101 -L1102)  Sec III A - roadwork and utilities section 6 carriageway -  | 0             | 27-Jan-18 A | 03-Feb-18 A  | 100%          |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SIIIA13445                              | watermain (road crossing)  Sec III A - roadwork and utilities section 6 carriageway -  | 13            |             | 06-Mar-18    | 0%            |     |     |     |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |
| SILIAL SH45                             | utilities: crossed duct(HEC , HGC, PCCW)   | 15            | 05-Feb-18 A | 00-Mat-18    | 0%            |     |     | Ī   |     |     |     |      |          |     |     |     |     |     |     |     |     |     |      |           |             |     |   |

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| a. 10          | LActivity Name   | Domeining Dur | Early Chart |              | 1 1-5-2-0/             |  |
|----------------|--|---------------|-------------|--------------|------------------------|--|
| ity ID         | Activity Name  | Remaining Dur | Early Start | Early Finish | Activity %<br>Complete | 2018   |
| SIIIA13450     | Sec III A - roadwork and utilities section 6 carriageway - road kerb & formation   | 18            | 07-Mar-18   | 27-Mar-18    | 0%                     | The state of the s |
| SIIIA13470     | Sec III A - roadwork and utilities section 6 carriageway -<br>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 - Re | maining At-Grade Road & Road P2  |               |             |              |                        |  |
| Roadwork &     | Utilities  |               |             |              |                        |  |
| Section 1 (L1  | 504 - L1900)   |               |             |              |                        |  |
| SV12456        | Sec V-Roadwork & Utilities Section 1 - implementation of   | 0             | 20-Feb-18*  | 20-Feb-18    | 0%                     |  |
| SV12460        | TTA stage 5E (closure of slow lane at northbound of Expo<br>Sec V - Roadwork & Utilities Section 1 - drinage works               | 15            | 20-Feb-18   | 08-Mar-18    | 0%                     |  |
| SV12462        | (L1902 - L1900)<br>Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 -  | 6             | 09-Mar-18   | 15-Mar-18    | 0%                     |  |
| SV12464        | L1900)<br>Sec V - Roadwork & Utilities Section 1 - temp. reinstatement   | 14            | 16-Mar-18   | 04-Apr-18    | 0%                     |  |
| SV12466        | to match with existing Expo Drive Sec V - Section 1 - Modification to 2nd stage ITA (V.O. 50) :                                  | 1             | 14-Jul-18   | 14-Jul-18    | 0%                     |  |
| SV12468        | closure of northbound and maintain one lane at southbound<br>Sec V - Roadwork & Utilities Section 1 Carriageway -                | 7             | 16-Jul-18   | 23-Jul-18    | 0%                     |  |
| SV12490        | breaking existing asphalt  Sec V - Roadwork & Utilities Section 1 Carriageway - Road kerb & formation                            | 10            | 24-Jul-18   | 03-Aug-18    | 0%                     |  |
| SV12520        | Ker V - Roadwork & Utilities Section 1 Carriageway - Black<br>top  | 7             | 04-Aug-18   | 11-Aug-18    | 0%                     |  |
| SV12522        | Sec V - Section 1 - Implementation of TTA for road closure<br>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 :<br>breaking asphalt  | 14            | 16-Aug-18   | 31-Aug-18    | 0%                     |  |
| SV12526        | Sec V - Section 1 - Northbound & Southbound of Expo Drive :<br>road kerb & formation   | 14            | 01-Sep-18   | 17-Sep-18    | 0%                     |  |
| SV12528        | Sec V - Section 1 - Northbound & Southbound of Expo Drive :<br>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 ( L. | 510 - 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 ( C  | ulvert L - L1510)  |               |             |              |                        |  |
| SIV12860       | Sec V - Roadwork & Utilities Section 3 footpath - Utilities:<br>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 (K1  | 106 - Culvert L)   |               |             |              |                        |  |
| SIV12282       | Sec V - Roadwork & Utilities Section 4 Carriageway -   | 10            | 20-Feb-18   | 02-Mar-18    | 0%                     |  |
| SIV12300       | Drainage Works (L1311 - Culvert L, L1201 - Culvert L)  Sec V - Roadwork & Utilities Section 4 Carriageway - Gully                | 7             | 03-Mar-18   | 10-Mar-18    | 0%                     |  |
| SIV12302       | pipe (L1301 - Culvert L, L1201 - Culvert L) Sec V - Roadwork & Utilities Section 4 Carriageway -                                 | 6             | 12-Mar-18   | 17-Mar-18    | 0%                     |  |
| SIV12305       | watermain  Sec V - Roadwork & Utilities Section 4 Carriageway - utilities  | 7             | 19-Mar-18   | 26-Mar-18    | 0%                     |  |
| SIV12310       | : cross road duct  Sec V - Roadwork & Utilities Section 4 Carriageway - Road  kerh & formation : between culvert K and culvert I | 15            | 27-Mar-18   | 17-Apr-18    | 0%                     |  |
| SIV12320       | kerb & formation : between culvert K and culvert L  Sec V - Roadwork & Utilities Section 4 Carriageway - Black                   | 10            | 18-Apr-18   | 28-Apr-18    | 0%                     |  |
| SIV12340       | top: between culvert K and culvert L  Sec V - Roadwork & Utilities Section 4 Carriageway - Black top: at west of culvert K       | 7             | 20-Feb-18   | 27-Feb-18    | 0%                     |  |
| SIV12422       | Sec V - Roadwork & Utilities Section 4 footpath - Utilities :<br>TCSS  | 20            | 20-Feb-18   | 14-Mar-18    | 0%                     |  |
| SIV12440       | Sec V - Roadwork & Utilities Section 4 footpath - Utilities :  | 8             | 15-Mar-18   | 23-Mar-18    | 0%                     |  |

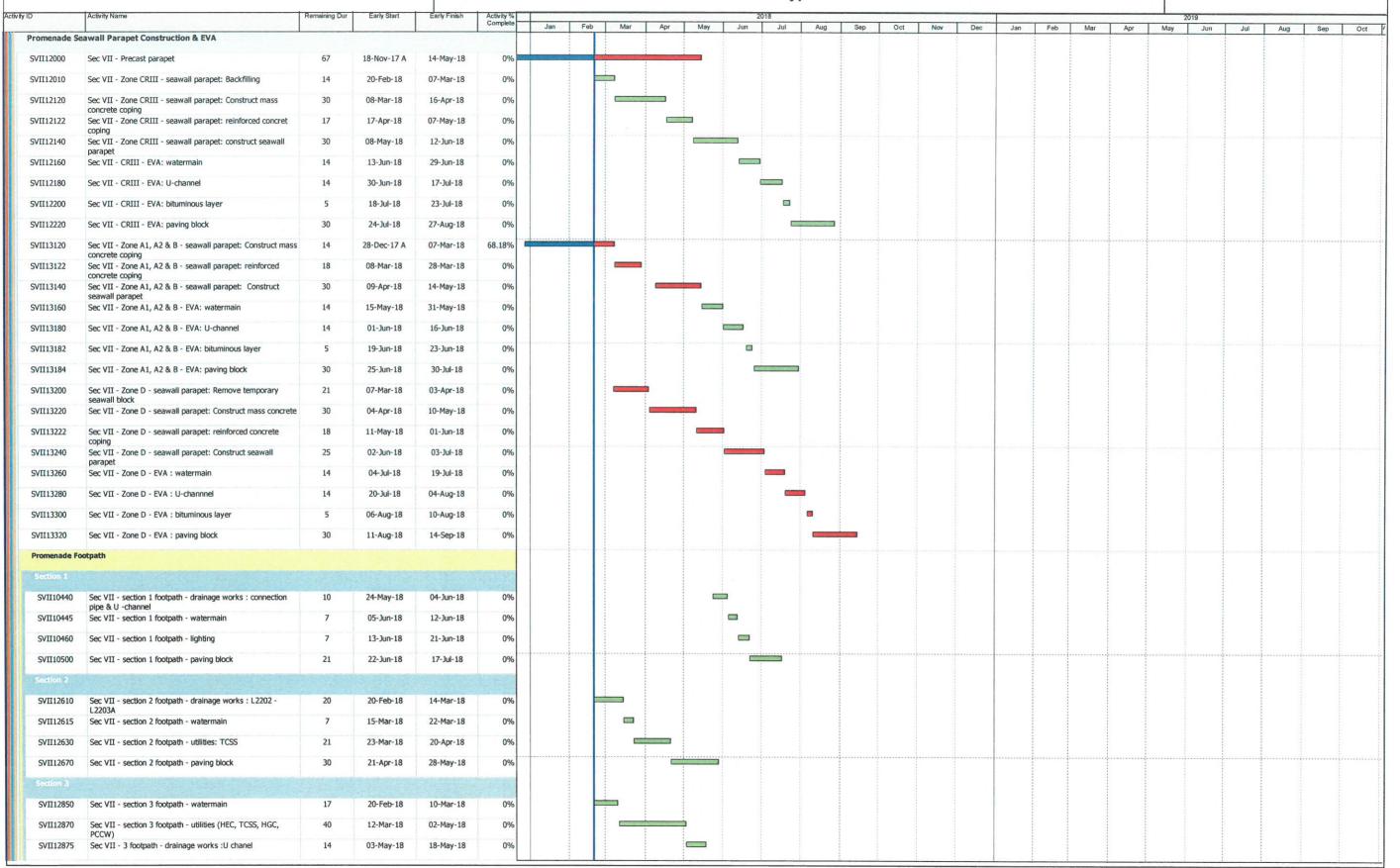
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| vity ID         | Activity Name   | Remaining Dur | Early Start | Early Finish | Activity %<br>Complete |     |     |     |     |     |     | 2018 |          | Source Co |     | 100000 |     |     |     | - 400                 |     |                       | 2019  |     |     |     |     |
|-----------------|---|---------------|-------------|--------------|------------------------|-----|-----|-----|-----|-----|-----|------|----------|-----------|-----|--------|-----|-----|-----|-----------------------|-----|-----------------------|-------|-----|-----|-----|-----|
| SIV12121        | Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -  | 6             | 16-May-18   | 23-May-18    | O%                     | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug      | Sep       | Oct | Nov    | Dec | Jan | Feb | Mar                   | Apr | May                   | Jun   | Jul | Aug | Sep | Oct |
| SIV12122        | Drainage Works (M1.6-C1.1-C1.2): Backfilling & shift lane<br>Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -         | 5             | 24-May-18   | 29-May-18    | 0%                     |     |     |     |     |     | 1   |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12140        | Drainage Works (M1.6-C1.1-C1.2): Construct MH C1.2<br>Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -                | 32            | 10-Apr-18   | 17-May-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12150        | Gully pipe (M/H 1.7 - L2301) Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -   | 14            | 18-May-18   | 04-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12155        | Road kerb<br>Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -   | 10            | 05-Jun-18   | 15-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12160        | formation Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -  | 7             | 16-Jun-18   | 25-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12170        | Black top Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -   | 21            |             |              |                        |     |     |     |     |     | 1   |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
|                 | Utilities: TCSS   | 21            | 10-May-18   | 04-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12180        | Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U channel   | 10            | 05-Jun-18   | 15-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12220        | Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -<br>Paving block   | 25            | 16-Jun-18   | 17-Jul-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SIV12222        | Achievement of Section IV of the Works  | 0             |             | 30-Aug-18    | 0%                     |     |     |     |     |     |     |      | •        |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| Section VII - R | emainder Works  |               |             |              |                        |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       | ÷   | ·   | ļ   |     |
| Road & Draina   | ge Works (Culvert L - M/H1.7, Adjacent to SR3)  |               |             |              |                        |     |     |     |     |     |     |      |          |           |     |        |     |     |     | :<br>:<br>:<br>:      |     |                       |       |     |     |     |     |
| SVII11600       | Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Drainage Works (Culvert L -MH1.7)                                    | 48            | 08-Jan-18 A | 20-Apr-18    | 18.64%                 |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11620       | Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway :  | 3             | 21-Apr-18   | 24-Apr-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     | 1<br>4<br>1<br>6<br>6 |     |                       |       |     |     |     |     |
| SVII11640       | traffic diversion at Lung King Street  Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Gully ping (Culturat L. MULT) | 27            | 25-Apr-18   | 28-May-18    | 0%                     |     |     |     | 0   |     |     |      |          |           |     |        |     |     |     |                       |     | 1<br>0<br>0<br>1<br>1 |       |     |     |     |     |
| SVII11650       | Gully pipe (Culvert L -MH1.7) Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -  | 7             | 29-May-18   | 05-Jun-18    | 0%                     | -   |     |     |     | 1   |     |      |          |           |     |        |     |     |     |                       | ļ   |                       |       |     |     |     |     |
| SVII11654       | TCSS duct<br>Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -   | 14            | 06-Jun-18   | 22-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11660       | road kerb & formation<br>Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -   | 6             | 23-Jun-18   | 29-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11680       | Black top<br>Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U  | 14            | 29-May-18   | 13-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11700       | channel Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -   | 14            | 14-Jun-18   | 30-Jun-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11720       | utilities: TCSS Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -   | 14            | 03-Jul-18   | 18-Jul-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
|                 | paving block RW5 Construction   |               |             | 10 30. 10    | 0.0                    |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10660       | Sec VII - Retaining Wall RW5 (bay 1) - construct base slab  | 22            | 20-Mar-18   | 10 4 10      | 000                    |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10680       | and wall Sec VII - Retaining wall RW5 (bay 2) - construct base slab   |               |             | 18-Apr-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10800       | and wall  | 22            | 19-Apr-18   | 15-May-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
|                 | Sec VII - Retaining wall RW5 (bay 3) - construct base slab<br>and wall  | 22            | 20-Mar-18   | 18-Apr-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10820       | Sec VII - Retaining wall RW5 (bay 4) - construct base slab and wall   | 22            | 19-Apr-18   | 15-May-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10860       | Sec VII - Retaining wall RW5 - curing, removal formwork   | 8             | 16-May-18   | 25-May-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| Landing Steps   | Construction  |               |             |              |                        |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| Landing Steps   | BSW13   |               |             |              |                        |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10900       | Sec VII - Landing steps (BSW13) - install vertical fender /<br>step fender  | 15            | 15-May-18   | 01-Jun-18    | 0%                     |     |     |     |     |     | 1   |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10920       | Sec VII - Landing steps (BSW13) - install s.s. handrail /<br>tactile / sign board / bollard                                       | 25            | 02-Jun-18   | 03-Jul-18    | 0%                     |     |     |     |     |     |     | i    |          |           |     |        |     |     |     |                       |     |                       | <br>! |     |     |     |     |
| Landing Steps   |   |               |             |              |                        |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII10980       | Sec VII - Landing steps (BSW4) - install vertical fender / step fender  | 15            | 20-Jun-18   | 07-Jul-18    | 0%                     |     |     |     |     |     |     | =    |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11000       | Sec VII - Landing steps (BSW4) - install s.s. handrail / tactile  | 25            | 09-Jul-18   | 06-Aug-18    | 0%                     |     |     |     |     |     |     |      | <b>-</b> |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| Landing Steps   | / sign board / bollard<br>BSW5  |               |             |              |                        |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11060       | Sec VII - Landing steps (BSW5) - install vertical fender / step   | 15            | 25-Jul-18   | 10-Aug-18    | 0%                     | ļ   |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     | ļ   |     |     |
| SVII11080       | fender<br>Sec VII - Landing steps (BSW5) - install s.s. handrail / tactile  | 25            | 11-Aug-18   | 08-Sep-18    | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| Landing Steps   | / sign board / bollard  |               |             | oop 10       | 0,70                   |     |     |     |     | 1   |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11140       | Sec VII - Landing steps (BSW9) - Install vertical fender / step   | 15            | 13-Jun-18   | 30-Jun-18    | 00/                    |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
|                 | fender  |               |             |              | 0%                     |     |     |     |     |     |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |
| SVII11160       | Sec VII - Landing steps (BSW9) - install s.s. handrail / tactile / sign board / bollard   | 25            | 03-Jul-18   | 31-Jul-18    | 0%                     |     |     |     |     | :   |     |      |          |           |     |        |     |     |     |                       |     |                       |       |     |     |     |     |

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