# AECOM

# **Environmental Protection Department**

Contract No. HY/2012/06

# Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Monthly EM&A Report For February 2016

[3/2016]

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Version:

Rev. 0

Date: 15 March 2016

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> 15 March 2016 By Fax (2805 5028) & Hand

Attn: Mr. James Penny

Dear Sir,

Environmental Monitoring and Audit (EM&A) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

Stage 2 (between Tai Hang to Wo Hop Shek Interchange)

Environmental Permit No. EP-324/2008/D

Condition 3.3 – Submission of Monthly EM&A Report –February 2016 for the portion of Stage 2 works under Contract No. HY/2012/06

We refer to the revised Monthly EM&A Report – February 2016 received on 14 March 2016 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – February 2016 (Rev. 0) for the portion of works under Stage 2 of the captioned Project which is managed under Contract No. HY/2012/06.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Steven Tang Independent Environmental Checker

c.c. HyD – Mr. Chung Lok Chin (Fax: 2714 5198) AECOM – Mr. Y W Fung (Fax: 2891 0305)

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# EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B and EP-324/2008/C on 31 January 2012, 17 March 2014 and 27 March 2015 respectively. The current valid VEP was applied on 19 August 2015 and the VEP (EP-324/2008/D) was subsequently granted on 27 August 2015.

The construction works for this Project are delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" and the entrusted portion to CEDD under Contract No. CV/2012/09 "Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3". This report focuses on Contract No. HY2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project only.

Pursuant to the EP (EP-324/2008/D) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 and 29 February 2016. As informed by the Contractor, construction activities in the reporting period were:

- Site clearance
- Ground investigation
- Piling works
- Pipe laying
- Retaining wall construction
- Noise Barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House Construction
- Foot Bridge demolition
- Bridge construction

# **Reporting Change**

There was no reporting change required in the reporting period.

# Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

#### **Breaches of Action and Limit Levels for Noise**

No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.

#### Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons and successful prosecution was received in the reporting period.

#### Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

# 1 INTRODUCTION

# 1.1 Background

- 1.1.1. Tolo Highway and Fanling Highway are the expressways in the North East New Territories (NENT) connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 9, which links Hong Kong Island to the boundary at Shenzhen. At present, this section of Route 9 is a dual 3-lane carriageway. However, at several major interchanges along this section of Route 9, the highway is a dual-2 lane carriageway only. Severe congestion is a frequent occurrence during the peak periods, particularly in the Kowloon-bound direction.
- 1.1.2. The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.
- 1.1.3. The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued a Variation of Environmental Permit (EP-324/2008/A) (VEP) on 31 January 2012 and the VEP (EP-324/2008/B) was granted on 17 March 2014. The current valid VEP was applied on 9 March 2015 and the VEP (EP-324/2008/C) was subsequently granted on 27 March 2015.
- 1.1.4. The scope of the Project comprises mainly:-
  - (i) Widening of a 5.7 km section of Tolo Highway and 3.0 km section of Fanling Highway between Island House Interchange and Wo Hop Shek Interchange from the existing dual 3-lane to dual 4-lane, including construction of new vehicular bridges;
  - Widening of interchange sections at Island House Interchange, Tai Po North Interchange, and Lam Kam Road Interchange from dual 2-lane to dual 3-lane, except Sha Tin bound carriageway at Tai Po North Interchange, which is widened from 3-lane to 4-lane, including realignment of various slip roads;
  - (iii) Modification and reconstruction of highways, vehicular bridges, underpasses and footbridges.
- 1.1.5. The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" and the entrusted portion to CEDD under Contract No. CV/2012/09 "Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works Contract 3". This report focuses on Contract No. HY2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project only.
- 1.1.6. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) are appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Tolo project under Agreement No. CE 58/2000 Supplementary Agreement No. 3 (SA3) (i.e. the Engineer for the Contract).
- 1.1.7. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of the Contract.
- 1.1.8. AECOM Asia Co. Ltd. was commissioned by China State Construction Engineering (Hong Kong) Limited as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Contract and Mott MacDonald Hong Kong Ltd. acts as the Independent Environmental Checker (IEC) for the Contract.
- 1.1.9. The construction phase of the Contract under the EP commenced on 21 November 2013.
- 1.1.10. According to the updated EM&A Manual of Stage 2 of the Project, there is a need of an EM&A programme including air quality and noise monitoring. The EM&A programme for Stage 2 of the Project commenced on 21 November 2013.

# 1.2 Scope of Report

1.2.1 This is the twenty-eighth monthly EM&A Report under the Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in February 2016.

# 1.3 **Project Organization**

1.3.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor (China State	Environmental	Michael Tsang	9277 4956	2672 2501
Construction Engineering (Hong Kong) Limited)	Officer	C C Chow	9679 6315	2672 2501
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

# 1.4 Summary of Construction Works

- 1.4.1 The construction phase for the Contract under the EP commenced on 21 November 2013.
- 1.4.2 Details of the construction works carried out by the Contractor in this reporting period are listed below:
  - Site clearance
  - Ground investigation
  - Piling works
  - Pipe laying
  - Retaining wall construction
  - Noise Barrier
  - Excavation
  - Backfilling
  - Drainage
  - Temporary bridge construction
  - House Construction

- Foot Bridge demolition
- Bridge construction
- 1.4.3 The Construction Programme is shown in Appendix B.
- 1.4.4 The general layout plan of the Project site showing the contract areas is shown in Figure 1.1.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C.

#### 1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise and environmental site inspections for air quality, water quality, noise, waste management, ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
  - All monitoring parameters;
  - Monitoring schedules for the reporting period and forthcoming months;
  - Action and Limit levels for all environmental parameters;
  - Event / Action Plan;
  - Environmental mitigation measures, as recommended in the Project EIA study final report; and
  - Environmental requirement in contract documents.

# 2 AIR QUALITY MONITORING

#### 2.1 Monitoring Requirements

2.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix D.

# 2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the updated EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

 Table 2.1
 Air Quality Monitoring Equipment

Equipment	Brand and Model	
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3)	
High Volume Sampler (24-hour TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170)	

#### 2.3 Monitoring Locations

2.3.1 The monitoring station was set up at the proposed location in accordance with updated EM&A Manual. Table 2.2 describes details of the monitoring station. The locations are shown in Figure 1.2a.

# Table 2.2 Locations of Impact Air Quality Monitoring Station

Location	Monitoring Station
AM2 (SR2)	Fanling Government Secondary School

# 2.4 Monitoring Parameters and Frequency

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

#### Table 2.3 Air Quality Monitoring Parameters and Frequency

Parameter	Frequency	
24-hour TSP	Once every 6 days	
1-hour TSP	3 times every 6 days while the highest dust impact was expected	

#### 2.5 Monitoring Methodology

- 2.5.1 24-hour TSP Monitoring
  - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
    - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
    - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
    - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
    - (iv) A minimum of 2 meters separation from any supporting structure, measured horizontally.
    - (v) No furnace or incinerator flues nearby.
    - (vi) Airflow around the sampler was unrestricted.
    - (vii) Permission was obtained to set up the samplers and access to the monitoring stations.
    - (viii) A secured supply of electricity was obtained to operate the samplers.
    - (ix) The sampler was located more than 20 meters from any dripline.
    - (x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
    - (xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
  - (b) Preparation of Filter Papers
    - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
    - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.
    - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
  - (c) Field Monitoring
    - (i) The power supply was checked to ensure the HVS works properly.
    - (ii) The filter holder and the area surrounding the filter were cleaned.
    - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
    - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
    - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
    - (vi) Then the shelter lid was closed and was secured with the aluminum strip.
    - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
    - (viii) A new flow rate record sheet was set into the flow recorder.
    - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m<sup>3</sup>/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m<sup>3</sup>/min).
    - (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
    - (xi) The initial elapsed time was recorded.
    - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
    - (xiii) The final elapsed time was recorded.

- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
  - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
  - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
  - (iii) Calibration certificate of the HVSs are provided in Appendix E.
- 2.5.2 1-hour TSP Monitoring
  - (a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.
- (b) Maintenance and Calibration
  - (i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
  - (ii) 1-hour validation checking of the TSP meter against HVS is carried out yearly at the air quality monitoring locations.

# 2.6 Monitoring Schedule for the Reporting period

2.6.1 The schedule for environmental monitoring in February 2016 is provided in Appendix F.

#### 2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

Table 2.4	Summary of 1-hour TSP Monitoring Results in the Reporting Period
	outliniary of renour for monitoring results in the reporting renou

Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	77.5	74.9 – 80.9	317.8	500

#### Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	54.0	26.8 - 93.8	200.7	260

- 2.7.2 The major dust source during the monitoring was mainly from nearby traffic emission.
- 2.7.3 All 1-hour and 24-hour TSP results were below the Action and Limit Level at all monitoring locations in the reporting period.
- 2.7.4 The event action plan is annexed in Appendix J.
- 2.7.5 Weather information including wind speed and wind direction is annexed in Appendix H. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.

# 3 NOISE MONITORING

# 3.1 Monitoring Requirements

3.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in Appendix D.

# 3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

Table 3.1	Noise Monitoring	Equipment
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Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	Rion NC-74

# 3.3 Monitoring Locations

3.3.1 Monitoring stations M2 and M3 were set up at the proposed locations in accordance with updated EM&A Manual. Figure 1.2a-b shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

# Table 3.2 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
M2	West Tai Wo	1.2m from the ground floor free-field of the Residential
M3	Fanling Government Secondary School	1m from the exterior of the roof top façade of the school

# 3.4 Monitoring Parameters and Frequency

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

# Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. $L_{eq}$ , $L_{10}$ and $L_{90}$ would be recorded.	At least once per week

# 3.5 Monitoring Methodology

- 3.5.1 Monitoring Procedure
  - (a) Façade measurement was made at monitoring station M3, while free-field measurement was made at monitoring station M2.
  - (b) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at monitoring station M2.
  - (c) The battery condition was checked to ensure the correct functioning of the meter.
  - (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
    - (i) frequency weighting: A
    - (ii) time weighting: Fast
    - (iii) time measurement: L<sub>eq(30-minutes)</sub> during non-restricted hours i.e. 07:00 1900 on normal weekdays; L<sub>eq(5-minutes)</sub> during restricted hours i.e. 19:00 – 23:00 and 23:00 – 07:00 of normal weekdays, whole day of Sundays and Public Holidays
  - (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - (f) During the monitoring period, the L<sub>eq</sub>, L<sub>10</sub> and L<sub>90</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
  - (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
  - (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.
- 3.5.2 Maintenance and Calibration
  - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
  - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
  - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

#### 3.6 Monitoring Schedule for the Reporting period

3.6.1 The schedule for environmental monitoring in February 2016 is provided in Appendix F.

#### 3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

#### Table 3.4 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>
M2*	69.4	69.2 – 69.6	75
M3#	65.5	64.1 – 67.5	65/70

\*+3dB(A) Façade correction included

# Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

- 3.7.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 3.7.3 Major noise sources during noise monitoring in the reporting period were mainly road traffic noise.
- 3.7.4 The event action plan is annexed in Appendix J.

# 4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

#### 4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting period, 4 site inspections were carried out respectively on 2, 12, 18 and 23 February 2016 for the Contract. While no specific observation was recorded, recommendations on remedial actions were given to the Contractor for precautionary purpose.
- 4.1.2 The environmental site inspections summaries are provided in Appendix K.
- 4.1.3 Particular observations during the site inspections are described below:

#### Air Quality

- 4.1.4 NRMM label was found missing on the excavator. The Contractor should provide and affix a valid NRMM label for the excavator properly.
- 4.1.5 The Contractor was reminded to cover the stockpile properly. (Reminder)

#### Noise

4.1.6 The Noise Emission Label (NEL) of an air compressor at SA340 was observed damaged. The Contractor should replace the NEL in order to show the information clearly.

#### Water Quality

- 4.1.7 Mud Trails were observed near the entrance of works area SA320, SA322 and SA328. The Contractor should clear the mud trail and provide effective waste water intercepting mechanism to prevent muddy water from entering public haul road.
- 4.1.8 Insufficient wheel washing facilities were found at works area near Tai Heng Bridge. The Contractor should provide effective wheel washing facilities at the works area.

#### Chemical and Waste Management

- 4.1.9 Several oil drums and chemical containers were observed on bare ground at NB49. The Contractor should provide drip tray to the chemicals to prevent chemical leakage.
- 4.1.10 The Contractor should improve the housekeeping.

#### Landscape and Visual Impact

4.1.11 No adverse observation was identified in the reporting period.

#### Miscellaneous

4.1.12 Stagnant water was observed. The Contractor should remove the stagnant water to prevent mosquitoes breeding.

# 4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contractor has registered as chemical waste producers for the Contract. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 4.2.2 As advised by the Contractor, 862 m<sup>3</sup> of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0 m<sup>3</sup> was broken concrete), while 70 m<sup>3</sup> of general refuse was disposed of at NENT landfill. 73 kg of paper/cardboard packaging, 0 kg of plastics and 0 kg of metals were collected by recycling contractors in the reporting period. 154 m<sup>3</sup> of inert C&D materials was reused on site. 265m<sup>3</sup> of inert C&D materials was reused in other projects. 443 m<sup>3</sup> of inert C&D materials was disposed of as public fill at NENT. 0 kg of chemical wastes was collected by licensed contractors in the reporting period.
- 4.2.3 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.1.

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials	862 m <sup>3</sup> (of which 0 m <sup>3</sup> was	Tuen Mun 38
	broken concrete)	
General refuse	70 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	73 kg	Recycling Contractors
Plastics	0 kg	Recycling Contractors
Metals	0 kg	Recycling Contractors
C&D materials reused on site	154 m <sup>3</sup>	Site Area
C&D materials reused in other	265 m <sup>3</sup>	Other projects
projects	200 m	
C&D materials reused in NENT	443 m <sup>3</sup>	NENT Landfill
for backfilling		
Chemical wastes	0 kg	Licensed Contractors

#### Table 4.1 Summary of Waste Flow Table

4.2.4 The Contractor was advised to maintain on site waste sorting and recording system and maximize reuse / recycle of C&D wastes.

# 4.3 Environmental Licenses and Permits

4.3.1 The environmental licenses and permits for Stage 2 of the Project and valid in the reporting period is summarized in Table 4.2.

Table 4.2	Summary of Environmental Licensing and Permit Status
-----------	--

Statutory	License/	License or Permit	Valid	Period	License / Permit	Remarks
Reference	Permit	No.	From	То	Holder	Tomarite
EIAO	Environmental Permit	EP-324/2008/D	27/08/2015	N/A	HyD	
WPCO	Discharge License (Site)	WT00017159-2013	18/09/2013	30/09/2018	CSHK	
WDO	Chemical Waste Producer Registration	5213-722-C3822- 01	05/09/2013	N/A	CSHK	Chemical waste produced in Contract HY/2012/06

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Statutory	License/	License or Permit	Valid	Period	License / Permit	Remarks
Reference	Permit	No.	From	То	Holder	Remarks
WDO	Billing Account for Disposal of Construction Waste	7017860	N/A	N/A	СЅНК	Waste disposal in Contract HY/2012/06
		GW-RN0785-15	04/12/2015	05/02/2016	СЅНК	Zone 2 Mobilization of Excavator to SA329 (South Bound)
		GW-RN0820-15	11/12/2015	18/02/2016	CSHK	Zone 2 Erection of Catch Fence near Tai Hang Footbridge (South Bound)
		GW-RN0830-15	24/12/2015	22/03/2016	CSHK	Operation of VMS at north bound of Tolo Highway near Mui Shue Hang
		GW-RN0843-15	26/12/2015	22/03/2016	CSHK	Zone 2 Installation of Precast Beam (South Bound)
		GW-RN0861-15	18/12/2015	03/06/2016	CSHK	Zone 4 Installation of watermain near Caltex Petrol Station
NCO	Construction Noise Permit	GW-RN0016-16	18/01/2016	02/02/2016	СЅНК	Zone 2 Installation of Precast Beam (South Bound)
		GW-RN0022-16	31/01/2016	24/04/2016	СЅНК	Zone 2 Road Making Modification near Wo Po Bridge (South Bound)
		GW-RN0029-16	21/01/2016	20/04/2016	CSHK	Zone 2 Concreting work and lifting operation over MTR's Track
		GW-RN0055-16	29/01/2016	30/06/2016	СЅНК	Zone 4 Drainage Inspection at Fanling Highway between CH23.7 and CH24.2
		GW-RN0091-16	20/02/2016	26/07/2016	СЅНК	Zone2 Installation of Precast Beam (South Bound)
		GW-RN0112-16	21/02/2016	17/04/2016	CSHK	Zone 4 Installation of Prefabricated

Statutory	License/	License or Permit	Valid	Period	License / Permit	Remarks
Reference	Permit	No.	From	То	Holder	
						Bridge Sement near Wo Hop Shek (South Bound)

#### 4.4 Implementation Status of Environmental Mitigation Measures

4.4.1 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C.

#### 4.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 4.5.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 4.5.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.

# 4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 4.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 4.1.
- 4.6.2 No complaint, notification of summons and successful prosecution was received in the reporting period.
- 4.6.3 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix L.

# 5 FUTURE KEY ISSUES

# 5.1 Construction Programme for the Coming Months

- 5.1.1 The major construction works for the Contract in March 2016 will be:-
  - Site clearance
  - Ground investigation
  - Piling works
  - Pipe laying
  - Retaining wall construction
  - Noise Barrier
  - Excavation
  - Backfilling
  - Drainage
  - Temporary bridge construction
  - House Construction
  - Foot Bridge demolition
  - Bridge construction

# 5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in March 2016:-
  - Properly store and label oils and chemicals on site;
  - Chemical, chemical waste and waste management;
  - Collection of construction waste should be carried out regularly;
  - Properly maintain all drainage facilities and wheel washing facilities on site;
  - Exposed slopes should be covered up properly if no temporary work will be conducted;
  - Quieter powered mechanical equipment should be used;
  - Suppress dust generated from excavation activities and haul road traffic; and
  - Tree protective measures for all retained trees should be well maintained.

# 5.3 Monitoring Schedule for the Coming Month

5.3.1 The tentative schedule for environmental monitoring in March 2016 is provided in Appendix F.

# 6 CONCLUSIONS AND RECOMMENDATIONS

#### 6.1 Conclusions

- 6.1.1 The construction phase and EM&A programme of the Contract commenced on 21 November 2013.
- 6.1.2 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 6.1.3 No Action or Limit Level exceedance of construction noise was recorded in the reporting month. No noise complaints related to 0700 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting month.
- 6.1.4 4 environmental site inspections were carried out in February 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.5 No complaint, notification of summons and successful prosecution was received in the reporting period.

#### 6.2 Recommendations

6.2.1 According to the environmental site inspections performed in the reporting period, the following recommendations on remedial actions were provided to the Contractor for precautionary purpose:

#### Air Quality Impact

- The Contractor should provide and affix a valid NRMM label for the excavator properly
- The Contractor was reminded to cover the stockpile properly.

#### Noise Impact

• The Contractor should replace the NEL in order to show the information clearly.

#### Water Quality Impact

- The Contractor should clear the mud trail and provide effective waste water intercepting mechanism to prevent muddy water from entering public haul road.
- The Contractor should provide effective wheel washing facilities at the works area.

# Chemical and Waste Management

- Several oil drums and chemical containers were observed on bare ground at NB49. The Contractor should provide drip tray to the chemicals to prevent chemical leakage.
- The Contractor should improve the housekeeping.

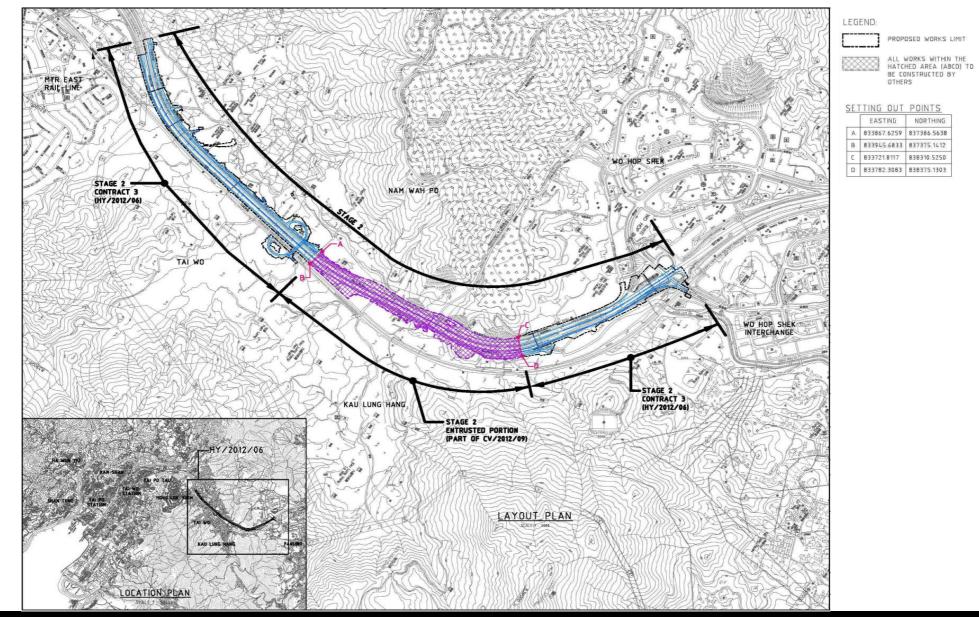
#### Landscape and Visual Impact

• No adverse observation was identified in the reporting period.

#### Miscellaneous

• The Contractor should remove the stagnant water to prevent mosquitoes.

FIGURES

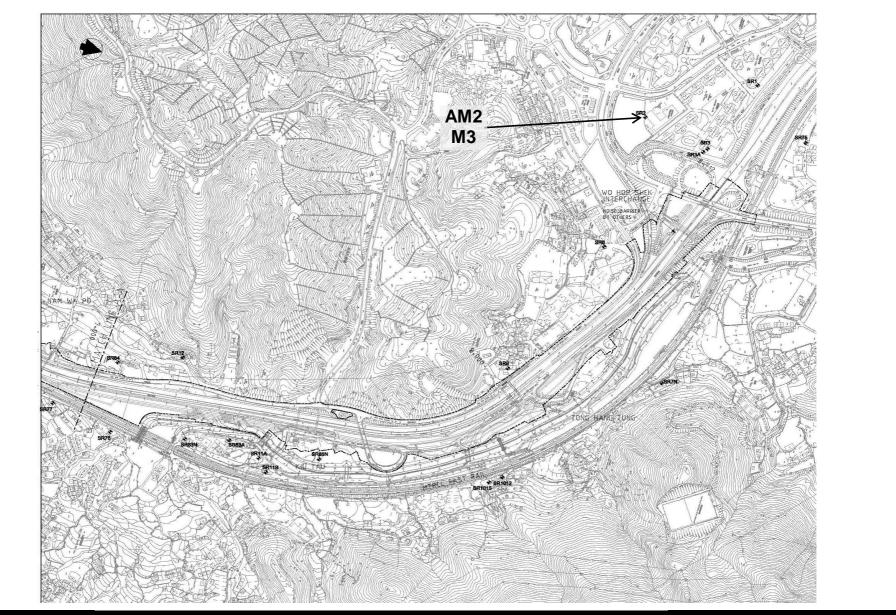


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

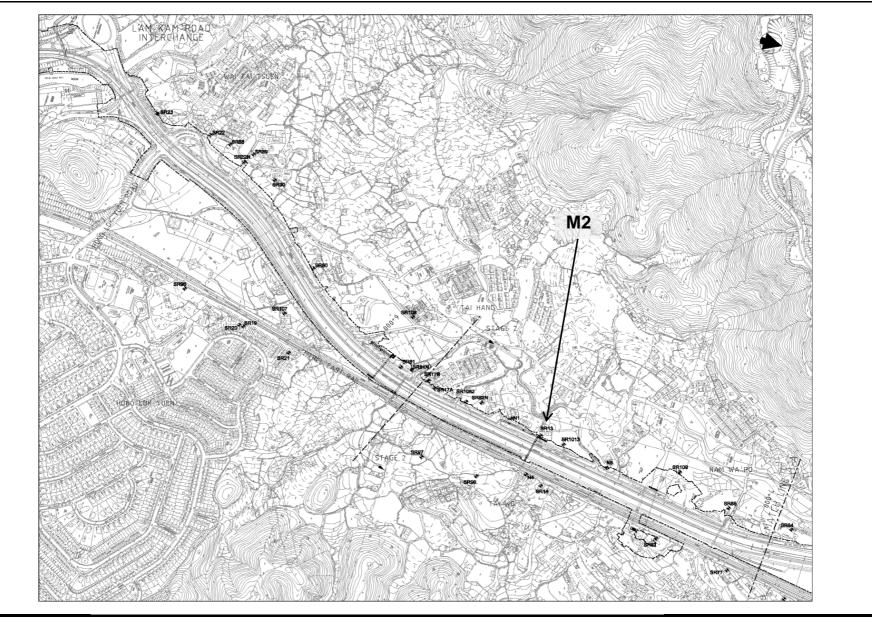


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Locations of Monitoring Station

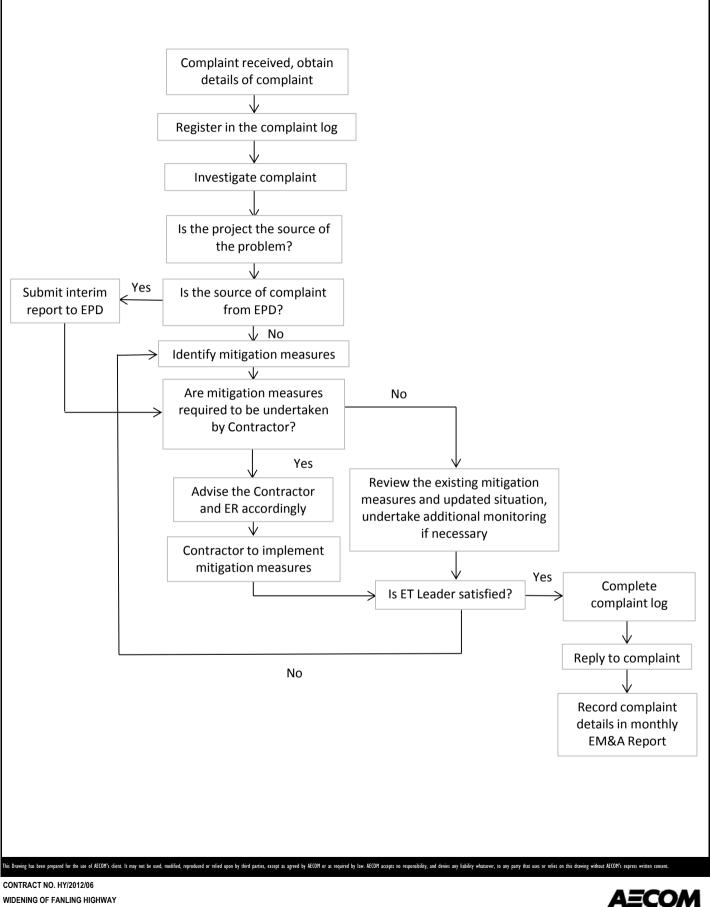


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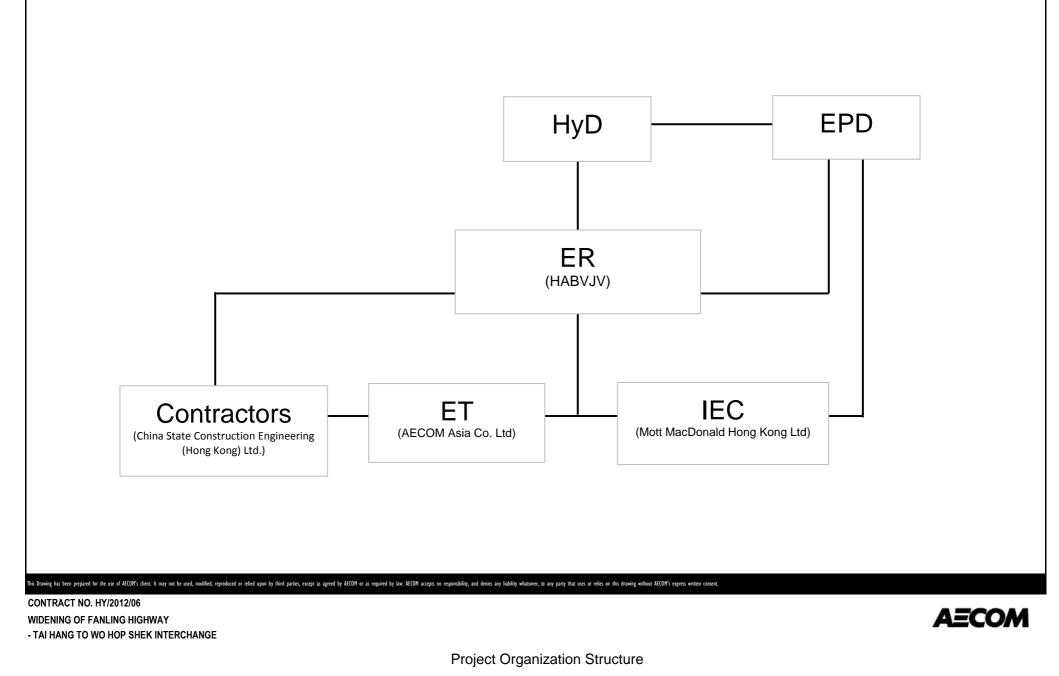


Locations of Monitoring Station



- TAI HANG TO WO HOP SHEK INTERCHANGE

APPENDIX A PROJECT ORGANIZATION STRUCTURE



Date: Dec 2013

APPENDIX B CONSTRUCTION PROGRAMMES

y ID	Activity Name	Dur. %	Rem	Original		Ionth Rolling	Total				Fage 1	of 7 (25-Fe
		Complete	Rem. Duration	Duration		. mon	Float	Feb		2016 Mar	Apr Apr	May
	ondition											
eneral	adition											
Contract Cor Contract Co												
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Feb-16		1595	•	Site Are	ea SA323A (360d) (not requi	red)	
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Feb-16*		-415	•	Site Are	ea SA327 (180d)		
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Feb-16*		-217	•	Site Are	ea SA327A (730d)		
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Feb-16*		-82	•	Site Are	ea SA345 (0d)		
ONE 1 (Ch	n. 5640 to 5880)	l										     
	er Along TWSR-West and	Laying N	lew Util	ities								
NB42 (Ch.56 <mark>Noise Barr</mark> i	640-5740)-TWSR West Side											 
NB00115	NB42 (Ch5640-5740) - Backfilling	0%	12	12	06-May-16	20-May-16	15					
NB00120	NB42 (Ch5640-5740) - NB production	86.79%	14	106	20-Oct-15 A	04-Mar-16	1171				 	
DSD South	ern Trunk Sewer, Water Ma	in Fire Ma	ain Work	s							1 1 1 1	
TSZ10130	Watermain installation (along NB42)	0%	30	30	20-Feb-16	29-Mar-16	15					
TSZ10140	Firemain installation (along NB42)	0%	30	30	30-Mar-16	05-May-16	15				1	
	nd Utility Works											
UUZ20250	Utility cable laying (Along NB42 bay 303 VO)	28.57%	10	14	21-Jan-16 A	02-Mar-16	47					
NB42A (Ch.5 Noise Barri	5750-5810)-TWSR West Side	)									1 1 1 1	
NOISE BAITI NB00195	<b>er Works</b> NB42A (Ch5750-5810) - backfilling	0%	12	12	15-Mar-16	31-Mar-16	25					
NB00200	NB42A (Ch5750-5810) - NB	0%	45	45	20-Feb-16 A	04-Apr-16	1140					
NB00210	production NB42A (Ch5750-5810) - NB post &	0%	5	5	05-Apr-16	09-Apr-16	923					
DSD South	panel installation ern Trunk Sewer, Water Ma	in Fire Ma	ain Work	S							1 1 1 1	   
TSZ10190	Firemain installation (along NB42A)	0%	20	20	20-Feb-16	14-Mar-16	25	•••••			J	
	5820-5880)-TWSR West Side	Э										
Noise Barri NB00235	er Works NB47B (Ch5820-5880)- backfilling	0%	12	12	01-Apr-16	15-Apr-16	43					
NB00235	NB47B (Ch5820-5880) - backning NB47B (Ch5820-5880) - NB	86.79%	12	12	20-Oct-15 A	· ·						
NB00240	production NB47B (Ch5820-5880)- NB post &	0%	5	5	16-Apr-16	21-Apr-16						
	panel installation				то-арт-то	21-Api-16	913					     
DSD Southe TSZ10230	ern Trunk Sewer, Water Ma Watermain installation (along	in Fire Ma 83.2%	ain Work 21	<mark>S</mark> 125	21-Sep-15 A	15-Mar-16	1270					
TSZ10240	NB47B) Firemain installation (along NB47B)	69.81%	32	106	13-Nov-15 A							
	nd Utility Works				1011011011						1 1 1 1	
UUZ10121	Utility cable laying by Utility	60%	14	35	23-Dec-15 A	07-Mar-16	43	i			i 	
UUZ10130	companies (along bay 311A) Z1 Utility work complete is ready for energization	0%	0	0		31-Mar-16	25			31-Mar-16	Z1 Utility work complete is	ready for e
	ce & Demolition of Existing S nd Utility Works											
ADVZ20180	Utility cable changeover period (NWT)	0% / S/B	184	184	30-Apr-16	30-Oct-16	1				I	
ADVZ20180	Utility cable changeover period		184	184	30-Apr-16	30-Oct-16	1				۲ ۲	
ADVZ20180 Ioise Barrie NB44 (Ch.57 Noise Barri	Utility cable changeover period (NWT) er Along Fanling Highway (00-5760)-FH S/B Side er Works	y S/B										
ADVZ20180 Oise Barrie NB44 (Ch.57 Noise Barri NB01390	Utility cable changeover period (NWT) <b>er Along Fanling Highway</b> (00-5760)-FH S/B Side <b>er Works</b> NB44 - NB production	<b>y S/B</b> 0%	45	45	20-Feb-16	04-Apr-16	1140					
ADVZ20180 oise Barrie NB44 (Ch.57 Noise Barri NB01390 NB01400	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation	y S/B					1140					
ADVZ20180 Ioise Barrie NB44 (Ch.57 Noise Barri NB01390 NB01400 NB45 (Ch.57	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side	<b>y S/B</b> 0%	45	45	20-Feb-16	04-Apr-16	1140					
ADVZ20180 Ioise Barrie NB44 (Ch.57 Noise Barri NB01390 NB01400 NB45 (Ch.57	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side	<b>y S/B</b> 0%	45	45	20-Feb-16	04-Apr-16	1140 923					
ADVZ20180 oise Barrie NB44 (Ch.57 Noise Barri NB01390 NB01400 IB45 (Ch.57 Noise Barri NB01440	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side er Works	y <b>S/B</b> 0% 0%	45 5	45 5	20-Feb-16 05-Apr-16	04-Apr-16 09-Apr-16	1140 923 1140 1140					
ADVZ20180 <b>oise Barrie</b> JB44 (Ch.57 Noise Barri NB01390 NB01400 JB45 (Ch.57 Noise Barri NB01440 NB01450 JB46 (Ch.58	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side er Works NB45 - NB production NB45 - NB post & panel installation 820-5880)-FH S/B Side	y S/B 0% 0%	45 5 45	45 5 45	20-Feb-16 05-Apr-16 20-Feb-16	04-Apr-16 09-Apr-16 04-Apr-16	1140 923 1140 1140					
ADVZ20180 oise Barrie JB44 (Ch.57 Noise Barri NB01390 NB01400 JB45 (Ch.57 Noise Barri NB01440 NB01450 IB46 (Ch.58 Noise Barri	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side er Works NB45 - NB production NB45 - NB post & panel installation 820-5880)-FH S/B Side er Works	y S/B 0% 0% 0%	45 5 45 5	45 5 45 5	20-Feb-16 05-Apr-16 20-Feb-16 05-Apr-16	04-Apr-16 09-Apr-16 04-Apr-16 09-Apr-16	1140 923 1140 923					
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ADVZ20180 Ioise Barrie NB44 (Ch.57 Noise Barri NB01400 NB45 (Ch.57 Noise Barri NB01440 NB01450 NB46 (Ch.58 NB46 (Ch.58 NB46 (Ch.58 NB01490 NB01500	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side er Works NB45 - NB production NB45 - NB post & panel installation 320-5880)-FH S/B Side er Works NB46 - NB production NB46 - NB post & panel installation	y S/B 0% 0% 0%	45 5 45 5	45 5 45 5	20-Feb-16 05-Apr-16 20-Feb-16 05-Apr-16	04-Apr-16 09-Apr-16 04-Apr-16 09-Apr-16	1140 923 1140 923 1140 923					
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ADVZ20180 Ioise Barrie VB44 (Ch.57 Noise Barri NB01390 NB01400 VB45 (Ch.57 Noise Barri NB01450 VB46 (Ch.58 Noise Barri NB01500 ONE 2 (Ch Site Clearand	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side er Works NB45 - NB production NB45 - NB post & panel installation 820-5880)-FH S/B Side er Works NB46 - NB production NB46 - NB production NB46 - NB production NB46 - NB post & panel installation <b>1. 5880 to 6930)</b> er Along TWSR-West and ce & Demolition of Existing S	y S/B 0% 0% 0% 0% 0% 0%	45 5 45 5 45 5	45 5 45 5 45 5 5	20-Feb-16 05-Apr-16 20-Feb-16 05-Apr-16	04-Apr-16 09-Apr-16 09-Apr-16 09-Apr-16 09-Apr-16	1140 923 1140 923 1140 923 1140 923					
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ADV220180 Ioise Barrie JB44 (Ch.57 Noise Barri NB01390 NB01400 JB45 (Ch.57 Noise Barri NB01450 JB46 (Ch.58 Noise Barri NB01450 ONE 2 (Ch Ioise Barrie Site Clearand Demolition Z2.P2N.1250 NB01275 NB00270 NB00275 NB00280 NB00280 NB00280 NB00290 DSD Southe TSZ10290 JSJ Southe TSZ1029	Utility cable changeover period (NWT) er Along Fanling Highway 700-5760)-FH S/B Side er Works NB44 - NB production NB44 - NB post & panel installation 760-5820)-FH S/B Side er Works NB45 - NB post & panel installation 820-5880)-FH S/B Side er Works NB46 - NB post & panel installation NB46 - NB post & panel installation <b>1. 5880 to 6930)</b> er Along TWSR-West and ce & Demolition of Existing S Work Construction of proposed SHRINE 880-5930)-TWSR West Side er Works NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays NB47 (Ch5880-5930)- backfilling NB47 (Ch5880-5930)- backfilling NB47 (Ch5880-5930)- NB production NB47 (Ch5880-5930)- NB production NB47 (Ch5880-5930)- NB post & panel installation (along NB47) Firemain installatio	Y       S/B         0%       0%	45 5 45 5 45 5 45 5 45 165 46 165 1000000000000000000000000000000000	45 5 45 5 45 5 165 165 284 12 45 5 <b>S</b> 26 26	20-Feb-16 05-Apr-16 05-Apr-16 05-Apr-16 20-Feb-16 05-Apr-16 05-Apr-16 20-Feb-16 20-Feb-16 30-Mar-16 16-May-16 22-Mar-16 22-Mar-16	04-Apr-16 09-Apr-16 09-Apr-16 09-Apr-16 09-Apr-16 09-Apr-16 09-Apr-16 29-Mar-16 10-May-16 10-May-16 10-May-16 20-May-16 20-May-16 21-Mar-16 25-Apr-16	1140 923 1140 923 1140 923 1140 923 1140 923 1076 870 23 1076 870 23 23 1076 870 23 23 23 23 1076 870 23 23 23 23 23 23 23 23 23 23 23 23 23	ang to Wo Hop She		erchange	13-Ma WP R 30-Jun WP R	ev 1 ev

ity ID	ss Update)(20-Feb-16)	Dur of	Barri	Original		Ionth Rolling				1 age 2	2 of 7 (25-F
	Activity Name	Dur. % Complete	Duration	Original Duration	Start	Finish	Total Float		2016	A	. Maria
NB00330	NB47A - backfilling	96.55%	5	145	07-Sep-15 A	05-Apr-16	22	Feb	Mar I	Apr	May
NB00335	Backfilling (Along NB47A-above	95.9%	5	122	06-Oct-15 A	05-Apr-16	22	   		· · · · · · · · · · · · · · · · · · ·	-
NB00340	ID1) NB47A - NB production	86.79%	14	106	20-Oct-15 A	04-Mar-16	1146				
NB00350	NB47A - NB post & panel installation	0%	5	5	06-Apr-16	11-Apr-16	902	   			
			Ű		007.p. 10		002				
Undergrou UUZ20110	und Utility Works Utility cable laying by Utility	0%	30	30	20-Feb-16	29-Mar-16	22				
UUZ20240	companies (Along NB47A) Utility cable laying by Utility	16.67%	30	36	13-Jan-16 A			 			
	companies (Along NB47A-above	10.07 /0	00	00	10 0011 1071	23 Mai 10	22				
	i995-6120)-TWSR West Side rier Works							1 1 1 1			
NB00390	NB48 (Ch5995-6060) - backfilling	0%	12	12	18-Apr-16	30-Apr-16	30	 			3
NB00400	NB48 (Ch5995-6060) - NB	0%	45	45	20-Feb-16	04-Apr-16	1115				
NB00410	production NB48 (Ch5995-6060) - NB post &	0%	5	5	03-May-16	07-May-16	880	 , , ,			
NB00450	panel installation NB48 (Ch6060-6120) - backfilling	0%	12	12	,	20-May-16		 			
						,		 			
NB00460	NB48 (Ch6060-6120) - NB production	0%	45	45	20-Feb-16	04-Apr-16	1115				
DSD South TSZ10430	hern Trunk Sewer, Water Ma Watermain installation (along NB48.	i <mark>n Fire M</mark> 0%	ain Work 30	<b>(S</b> 30	20-Feb-16	29-Mar-16	30	 			
	0-60m)							 			
TSZ10440	Firemain installation (along NB48, 0-60m)	0%	30	30	09-Mar-16	16-Apr-16		 			
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	81.48%	15	81	31-Oct-15 A	08-Mar-16	15				
TSZ10470	Backfill up to NB48, 60-110m footing level	0%	6	6	09-Mar-16	15-Mar-16	15				
TSZ10480	Watermain installation (along NB48, 60-110m)	0%	26	26	16-Mar-16	19-Apr-16	15	 			
TSZ10490	Firemain installation (along NB48,	0%	26	26	05-Apr-16	05-May-16	15	 L			
Undergrou	60-110m) und Utility Works									1	
UUZ20120	Utility cable laying by Utility companies (Along NB48, 0-60m)	0%	24	24	20-Feb-16	18-Mar-16	33				
UUZ20130	Utility cable laying by Utility	0%	20	20	20-Feb-16	14-Mar-16	37				
NB49 (Ch.6	companies (Along NB48, 60-110m) 145-6215)-TWSR West Side					I		1 		1	
Noise Barı	rier Works							 			
NB00520	NB49 - backfilling	0%	12	12	13-May-16	27-May-16	9				
NB00530	NB49 - NB production	0%	45	45	20-Feb-16	04-Apr-16	1115				
DSD South	hern Trunk Sewer, Water Ma	in Fire M	ain Work	S							
TSZ10500	Sheet Piling & Excavation(~7m below ground) (along NB49)	42.86%	8	14	01-Feb-16 A	29-Feb-16	1				
TSZ10510	DSD Trunk Sewer laying (along NB49)	0%	12	12	01-Mar-16	14-Mar-16	1	 			
TSZ10520	Backfill up to NB49 footing level	0%	6	6	15-Mar-16	21-Mar-16	1	 L			
TSZ10530	Watermain installation (along NB49)	0%	20	20	22-Mar-16	18-Apr-16	9	   			
TSZ10540	Firemain installation (along NB49)	0%	20	20	19-Apr-16	12-May-16	9	 			
Undergrou	und Utility Works							 1 1 1 1		       	
UUZ20140	Utility cable laying by Utility	0%	30	30	22-Mar-16	29-Apr-16	1	 			
NB49B (Ch	companies (Along NB49, 0-70m) .6215-6235)-TWSR West Side	<u>د</u>				<u> </u>	<u> </u>	 			
	rier Works	, 									
NB00550	NB49B piling (0.19m -20no	42.86%	12	21	28-Jan-16 A	04-Mar-16	1				
NB00570	NB49B - Footing & Wall Structure - 2 bays	0%	21	21	18-Mar-16	15-Apr-16	1	 			-
NB00580	NB49B - backfilling	0%	12	12	16-Apr-16	29-Apr-16	1	 			
NB00590	NB49B - NB production	0%	45	45	16-Apr-16	30-May-16	1059	 			
DSD South	hern Trunk Sewer, Water Ma	in Fire M	ain Work	rs.							
TSZ10550	Sheet Piling & Excavation(~5m	0%	21	21	05-Mar-16	01-Apr-16	1	 			
TSZ10570	below ground) (along NB49B) DSD Trunk Sewer laying (along	0%	34	34	02-Apr-16	13-May-16	3	 			
TSZ10580	NB49B - ID2-1) Watermain installation (along	0%	20	20	16-May-16	07-Jun-16	3	 			
Undergrou	NB49B) und Utility Works				-					·	
								,   			
UUZ20150	Utility cable laying by Utility	0%	10	10	16-Apr-16	27-Apr-16	3	 			
UUZ20150	Utility cable laying by Utility companies (Along NB49B, 0-16m)	0%	10	10	16-Apr-16	27-Apr-16	3				
UUZ20150 NB54 (Ch.6	Utility cable laying by Utility	0%	10	10	16-Apr-16	27-Apr-16	3				
UUZ20150 NB54 (Ch.6	Utility cable laying by Utility companies (Along NB49B, 0-16m) 240-6280)-TWSR West Side	0% 68.89%	10	10 45	16-Apr-16 20-Jan-16 A						
UUZ20150 NB54 (Ch.6 Noise Barr	Utility cable laying by Utility companies (Along NB49B, 0-16m) 3240-6280)-TWSR West Side rier Works						1146				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production	68.89% 0%	14	45 5	20-Jan-16 A	04-Mar-16	1146				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720	Utility cable laying by Utility companies (Along NB49B, 0-16m) 240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation	68.89% 0%	14	45 5	20-Jan-16 A	04-Mar-16	1146 925				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD Sout	Utility cable laying by Utility companies (Along NB49B, 0-16m) 240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma	68.89% 0% in Fire M	14 5 ain Work	45 5 <b>S</b>	20-Jan-16 A 05-Mar-16	04-Mar-16 10-Mar-16	1146 925 1231				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640	Utility cable laying by Utility companies (Along NB49B, 0-16m) 240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54)	68.89% 0% in Fire M 0%	14 5 <b>ain Work</b> 30	45 5 (S 30	20-Jan-16 A 05-Mar-16 20-Feb-16	04-Mar-16 10-Mar-16 29-Mar-16	1146 925 1231				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640	Utility cable laying by Utility companies (Along NB49B, 0-16m) 240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation NB54 - NB post & panel installation Watermain installation (along NB54) Firemain installation (along NB54) Ifiremain installation (along NB54) Utility Works Utility cable laying by Utility	68.89% 0% in Fire M 0%	14 5 <b>ain Work</b> 30	45 5 (S 30	20-Jan-16 A 05-Mar-16 20-Feb-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16	1146 925 1231 1231				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 UUZ20160	Utility cable laying by Utility companies (Along NB49B, 0-16m) 240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) und Utility Works	68.89% 0% iin Fire M 0% 0%	14 5 <b>ain Work</b> 30 30	45 5 30 30	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16	1146 925 1231 1231				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrou UUZ20160 NB54A (Ch. Noise Barr	Utility cable laying by Utility companies (Along NB49B, 0-16m) 2240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works	68.89% 0% in Fire M 0% 0%	14 5 <b>ain Work</b> 30 30 20	45 5 30 30 19	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16	1146 925 1231 1231 37				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrou UUZ20160 NB54A (Ch.	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays	68.89% 0% iin Fire M 0% 0%	14 5 <b>ain Work</b> 30 30	45 5 30 30	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16	1146 925 1231 1231 37 8				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrou UUZ20160 NB54A (Ch. Noise Barr	Utility cable laying by Utility companies (Along NB49B, 0-16m) 2240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6	68.89% 0% in Fire M 0% 0%	14 5 <b>ain Work</b> 30 30 20	45 5 30 30 19	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16	1146 925 1231 1231 37 8				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrot UUZ20160 NB54A (Ch. NB0760 NB00780 DSD South	Utility cable laying by Utility companies (Along NB49B, 0-16m) 3240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production	68.89% 0% in Fire M 0% 0% 85.12% 0% in Fire M	14 5 <b>ain Work</b> 30 30 20 25 45 45 <b>ain Work</b>	45 5 30 30 19 168 45	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A 19-Mar-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 19-Mar-16 03-May-16	1146 925 1231 1231 37 37 8 1086				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrou UUZ20160 NB54A (Ch. Noise Barr NB00760 NB00780	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production	68.89% 0% in Fire M 0% 0% 0% 85.12% 0%	14 5 <b>ain Work</b> 30 30 20 25 45	45 5 30 30 19 168 45	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 19-Mar-16 03-May-16	1146 925 1231 1231 37 37 8 1086				
UUZ20150 NB54 (Ch.6 Noise Barr NB00720 DSD South TSZ10630 TSZ10640 Undergrot UUZ20160 NB54A (Ch. NB00760 NB00780 DSD South	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along	68.89% 0% in Fire M 0% 0% 85.12% 0% in Fire M	14 5 ain Work 30 30 20 25 45 45 ain Work	45 5 30 30 19 168 45	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A 19-Mar-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 19-Mar-16 03-May-16	1146 925 1231 1231 37 37 8 1086 2				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10640 Undergrou UUZ20160 NB54A (Ch. Noise Barr NB00760 NB00780 DSD South TSZ10660	Utility cable laying by Utility companies (Along NB49B, 0-16m) 3240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level Watermain installation (along	68.89% 0% in Fire M 0% 0% 85.12% 0% in Fire M 61.97%	14 5 ain Work 30 30 20 20 25 45 45 ain Work 27	45 5 30 30 19 168 45 <b>(S</b> 71	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A 19-Mar-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 03-May-16 03-May-16	1146 925 1231 1231 37 37 8 1086 2 2 2				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrot UUZ20160 NB54A (Ch. Noise Barr NB00780 NB00780 DSD South TSZ10660 TSZ10670	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level	68.89% 0% in Fire M 0% 0% 85.12% 0% in Fire M 61.97% 0%	14 5 ain Work 30 30 20 25 45 ain Work 27 6	45 5 30 30 19 168 45 <b>(5</b> 71 6	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A 19-Mar-16 26-Nov-15 A 23-Mar-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 19-Mar-16 03-May-16 03-May-16 01-Apr-16	1146 925 1231 1231 37 37 8 1086 2 2 2 2 2				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrou UUZ20160 NB54A (Ch. Noise Barr NB00780 NB00780 DSD South TSZ10660 TSZ10670 TSZ10680 TSZ10690	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) 6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level Watermain installation (along NB54A) Firemain installation (along NB54A) Firemain installation (along NB54A)	68.89% 0% in Fire M 0% 0% 85.12% 0% in Fire M 61.97% 0%	14 5 ain Work 30 30 20 25 45 45 ain Work 27 6 30	45 5 30 30 19 168 45 45 5 5 71 6 30	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 01-Aug-15 A 19-Mar-16 26-Nov-15 A 23-Mar-16 02-Apr-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 03-May-16 03-May-16 01-Apr-16 09-May-16	1146 925 1231 1231 37 37 8 1086 2 2 2 2 2				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrou UUZ20160 NB54A (Ch. Noise Barr NB00780 NB00780 DSD South TSZ10660 TSZ10670 TSZ10680 TSZ10690	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level Watermain installation (along NB54A) Firemain installation (along NB54A) Firemain installation (along NB54A)	68.89% 0% in Fire M 0% 0% 85.12% 0% in Fire M 61.97% 0%	14 5 ain Work 30 30 20 25 45 45 ain Work 27 6 30	45 5 30 30 19 168 45 45 5 5 71 6 30	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 21-Jan-16 A 21-Jan-16 A 21-Aug-15 A 23-Mar-16 23-Mar-16 02-Apr-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 03-May-16 03-May-16 01-Apr-16 09-May-16	1146 925 1231 1231 37 37 8 1086 2 2 2 2 2 2 2				
UUZ20150 NB54 (Ch.6 Noise Barr NB00720 DSD South TSZ10630 TSZ10640 Undergrot UUZ20160 NB54A (Ch. Noise Barr NB00780 DSD South TSZ10660 TSZ10670 TSZ10670 TSZ10690 Undergrot UUZ20170	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level Watermain installation (along NB54A) Firemain installation (along NB54A) Firemain installation (along NB54A) Firemain installation (along NB54A) Firemain installation (along NB54A) Utility cable laying by Utility companies (Along NB54A, 0-60m)	68.89% 0% in Fire M 0% 0% 0% 85.12% 0% 61.97% 0% 0% 0%	14 5 ain Work 30 30 20 20 25 45 45 ain Work 27 6 30 30	45 5 30 30 19 168 45 71 6 30 30	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 21-Jan-16 A 21-Jan-16 A 21-Aug-15 A 23-Mar-16 23-Mar-16 02-Apr-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 03-May-16 03-May-16 01-Apr-16 09-May-16 21-May-16	1146 925 1231 1231 37 37 8 1086 2 2 2 2 2 2 2				
UUZ20150 NB54 (Ch.6 Noise Barr NB00720 DSD South TSZ10630 TSZ10640 Undergrot UUZ20160 NB54A (Ch. Noise Barr NB00780 DSD South TSZ10670 TSZ10670 TSZ10670 TSZ10690 Undergrot UUZ20170 NB57 (Ch.6	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) .6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level Watermain installation (along NB54A) Firemain installation (along NB54A) Firemain installation (along NB54A)	68.89% 0% in Fire M 0% 0% 0% 85.12% 0% 61.97% 0% 0% 0%	14 5 ain Work 30 30 20 20 25 45 45 ain Work 27 6 30 30	45 5 30 30 19 168 45 71 6 30 30	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 21-Jan-16 A 21-Jan-16 A 21-Aug-15 A 23-Mar-16 23-Mar-16 02-Apr-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 03-May-16 03-May-16 01-Apr-16 09-May-16 21-May-16	1146 925 1231 1231 37 37 8 1086 2 2 2 2 2 2 2				
UUZ20150 NB54 (Ch.6 Noise Barr NB00720 DSD South TSZ10630 TSZ10640 Undergrot UUZ20160 NB54A (Ch. Noise Barr NB00780 DSD South TSZ10670 TSZ10670 TSZ10670 TSZ10690 Undergrot UUZ20170 NB57 (Ch.6	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) 6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level Watermain installation (along NB54A) Firemain installation (along NB54A) Side 1000 NB54A, 0-60m) Side 1000 NB54A, 0-60m) Side 1000 NB54A, 0-60m Side 1000 NB54A, 0-60m NB57 - Footing & Wall Structure - 7	68.89% 0% in Fire M 0% 0% 0% 85.12% 0% 61.97% 0% 0% 0%	14 5 ain Work 30 30 20 20 25 45 45 ain Work 27 6 30 30	45 5 30 30 19 168 45 71 6 30 30	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 21-Jan-16 A 21-Jan-16 A 21-Aug-15 A 23-Mar-16 23-Mar-16 02-Apr-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 03-May-16 03-May-16 01-Apr-16 09-May-16 21-May-16	1146 925 1231 1231 37 8 1086 2 2 2 2 2 2 2 2 2 8				
UUZ20150 NB54 (Ch.6 Noise Barr NB00710 NB00720 DSD South TSZ10630 TSZ10640 Undergrot UUZ20160 NB0780 NB00780 DSD South TSZ10670 TSZ10670 TSZ10680 TSZ10690 Undergrot UUZ20170 NB57 (Ch.6 Noise Barr	Utility cable laying by Utility companies (Along NB49B, 0-16m) 5240-6280)-TWSR West Side rier Works NB54 - NB production NB54 - NB post & panel installation hern Trunk Sewer, Water Ma Watermain installation (along NB54) Firemain installation (along NB54) Utility cable laying by Utility companies (Along NB54, 0-40m) 6290-6350)-TWSR West Side rier Works NB54A - Footing & Wall Structure - 6 bays NB54A - NB production hern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level Watermain installation (along NB54A) Firemain installation (along NB54A) Firemain installation (along NB54A) Side Stable Laying by Utility companies (Along NB54A, 0-60m) Side S-6445)-TWSR West Side rier Works	68.89% 0% in Fire M 0% 0% 85.12% 0% in Fire M 61.97% 0% 0%	14 5 ain Work 30 30 20 20 20 20 20 20 20 20 20 20 20 20 20	45 5 30 30 19 168 45 71 6 30 30 30 24	20-Jan-16 A 05-Mar-16 20-Feb-16 30-Mar-16 21-Jan-16 A 21-Jan-16 A 19-Mar-16 26-Nov-15 A 23-Mar-16 02-Apr-16 15-Apr-16	04-Mar-16 10-Mar-16 29-Mar-16 05-May-16 14-Mar-16 03-May-16 03-May-16 01-Apr-16 09-May-16 21-May-16	11146 925 1231 1231 37 37 8 1086 2 2 2 2 2 2 2 2 2 8 8				

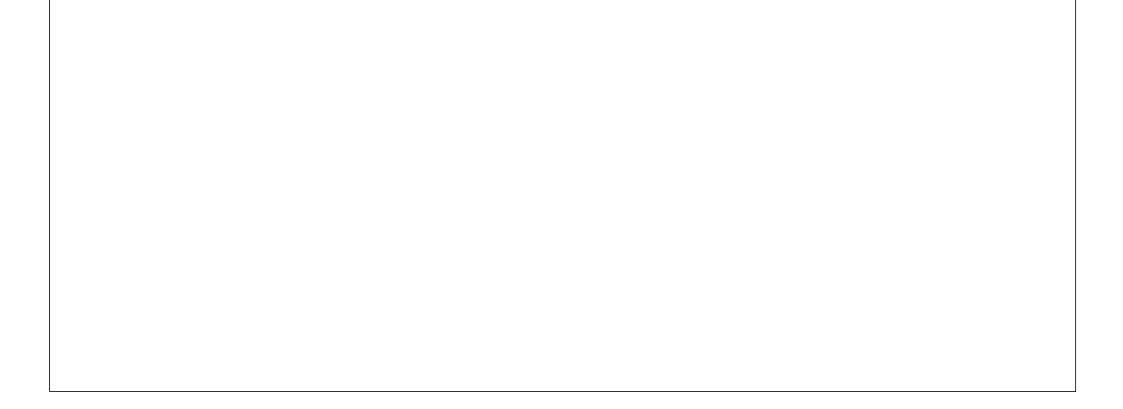
ity ID	Activity Name	Dur. %	Rem.	Original	Start	Finish	Total				
			Duration	Duration	1		Float	Feb	2016 Mar	Apr	
NB00860	NB57 - NB post & panel installation	0%	5	5	16-May-16	20-May-16	870				
DSD South TSZ10730	ern Trunk Sewer, Water Ma Watermain installation (along NB57)	in Fire Ma	i <mark>n Work</mark> 30	<b>S</b> 30	24-Feb-16 A	20 Mar 16	20		 		
TSZ10730	Firemain installation (along NB57)	0%	30	30	30-Mar-16	05-May-16			 		
TSZ10740	PCCW drawpit by Pccw	0%	16	16	29-Jan-16 A				 		
	1 5				29-Jan-16 A 06-May-16				 		
TSZ10990	Backfilling for UU and Firemain & Watermain	0%	12	12	06-May-16	20-May-16	38		 		
Undergrou UUZ20180	nd Utility Works Utility cable laying by Utility	0%	33	33	10-Mar-16	21-Apr-16	8		 		
NB58 (Ch 6/	companies (Along NB57, 0-80m) 145-6480)-TWSR West Side					· ·				1 1 1	
Noise Barri											     
NB00900	NB58 - Footing & Wall Structure - 3 bays	76.15%	31	130	15-Sep-15 A	30-Mar-16	6				
NB00910	NB58 - backfilling	0%	12	12	25-Apr-16	09-May-16	24		 		1
NB00920	NB58 - NB production	0%	45	45	31-Mar-16	14-May-16	1075		 		
NB00930	NB58 - NB post & panel installation	0%	5	5	16-May-16	20-May-16	870		 		· · · · · · · · · · · · · · · · · · ·
	ern Trunk Sewer, Water Ma								 		
TSZ10750	Sheet Piling & Excavation(~5m below ground) (along NB58)	57.14%	18	42	17-Dec-15 A	11-Mar-16	9				
TSZ10760	DSD Trunk Sewer laying (along NB58)	0%	10	10	12-Mar-16	23-Mar-16	9				     
TSZ10780	Watermain installation (along NB58)	0%	20	20	30-Mar-16	22-Apr-16	10		 ••••••		
TSZ10790	Firemain installation (along NB58)	0%	20	20	06-Apr-16	28-Apr-16	10		 		
TSZ11010	Backfilling	0%	12	12	29-Apr-16	13-May-16	10		 		1
	nd Utility Works			0.5	04.11		^		 		
UUZ20190	Utility cable laying by Utility companies (Along NB58, 0-45m)	0%	20	20	31-Mar-16	23-Apr-16	6				
NB59 (Ch.64 Noise Barri	190-6590)-TWSR West Side								 		
NB00970	NB59 - Footing & Wall Structure - 9	88.01%	32	267	02-May-15 A	A 31-Mar-16	163		 	3	
NB00990	bays NB59 - NB production	0%	45	45	01-Apr-16	15-May-16	1062		 		· · · · ·
DSD South	ern Trunk Sewer, Water Ma	in Fire Ma	in Work	S					 <u> </u>		
TSZ10810	DSD Trunk Sewer laying (along NB59)	96.96%	8	263	08-Apr-15 A	29-Feb-16	103				
TSZ10820	Backfill up to NB59 footing level	0%	24	24	01-Mar-16	31-Mar-16	103				
TSZ10830	Watermain installation (along NB59)	0%	30	30	01-Apr-16	07-May-16	103		 		
TSZ10840	Firemain installation (along NB59)	0%	30	30	09-May-16	14-Jun-16	103		 		i
Undergrou	nd Utility Works										     
UUZ20200	Utility cable laying by Utility companies (Along NB59, 0-95m)	0%	12	12	29-Jan-16 A	04-Mar-16	45				
· · · · · ·	610-6700)-TWSR West Side		I								
Noise Barri NB01030	ier Works NB63 - backfilling	0%	12	12	09-Mar-16	22-Mar-16	20		 		
NB01040	NB63 - NB production	0%	45	45	20-Jan-16 A				 		
NB01050	NB63 - NB post & panel installation	0%	5	5	05-Apr-16	09-Apr-16	903				1 1 1
DSD South TSZ10310	ern Trunk Sewer, Water Ma DSD Trunk Sewer laying (along	in Fire Ma 78.08%	in Work 32	<b>S</b> 146	24-Sep-15 A	31-Mar-16	18		 		
TSZ10330	NB63) Watermain installation (along NB63)	0%	30	30	01-Apr-16		18		 		<u></u> .
TSZ10340						07-May-16	10				
	Firemain installation (along NB63)	0%	30	30	· ·				 		
DSD South	Firemain installation (along NB63)				· ·						
DSD South TSZ11020	ern Trunk Sewer - Trenchle Watermain & Firemain installation				09-May-16		18		 		
	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pjpe laying (change of	ess Constru	uction	30	09-May-16	14-Jun-16	18 65				
TSZ11020	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer	e <mark>ss Constru</mark> 85.71%	uction 8	30 56	09-May-16 14-Dec-15 A 01-Mar-16*	14-Jun-16 29-Feb-16	18 65 65				
TSZ11020 TSZ11025 TSZ11035	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pjpe laying (change of design) DSD trunk sewer along NB63	ess Constru 85.71% 0%	uction 8 20	30 56 20	09-May-16 14-Dec-15 A 01-Mar-16*	14-Jun-16 29-Feb-16 23-Mar-16	18 65 65				
TSZ11020 TSZ11025 TSZ11035	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pjpe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility	ess Constru 85.71% 0%	uction 8 20	30 56 20	09-May-16 14-Dec-15 A 01-Mar-16*	14-Jun-16 29-Feb-16 23-Mar-16 29-Feb-16	18 65 65 85				
TSZ11020 TSZ11025 TSZ11035 <b>Undergrou</b>	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pjpe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m)	ess Constru 85.71% 0% 95.24%	action 8 20 8	30 56 20 168	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A	14-Jun-16 29-Feb-16 23-Mar-16 29-Feb-16	18 65 65 85				
TSZ11020 TSZ11025 TSZ11035 Undergrou UUZ20230 Bridge Con New Tai Har	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pjpe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m)	ess Constru 85.71% 0% 95.24%	action 8 20 8	30 56 20 168	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A	14-Jun-16 29-Feb-16 23-Mar-16 29-Feb-16	18 65 65 85				
TSZ11020 TSZ11025 TSZ11035 Undergrou UUZ20230 Bridge Con	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) Struction	ess Constru 85.71% 0% 95.24%	action 8 20 8	30 56 20 168	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 08-Mar-16	18 65 65 85 30				
TSZ11020 TSZ11025 TSZ11035 Undergrour UUZ20230 Bridge Con New Tai Har General THBF0335	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 Ind Utility Works Utility cable laying by Utility companies (Along NB63~100m) Struction Ing Footbridge	99.1%	<b>Station</b> 8 20 8 15 3	30 56 20 168 346	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 08-Mar-16	18 65 65 30 30				
TSZ11020 TSZ11025 TSZ11035 Undergrour UUZ20230 Bridge Con New Tai Han General THBF0335 THBF0340	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 <b>nd Utility Works</b> Utility cable laying by Utility companies (Along NB63~100m) <b>struction</b> og Footbridge Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB)	ess Constru 85.71% 0% 95.24% 95.66% 99.1% 43.96%	Liction 8 20 8 15	30 56 20 168 346	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 08-Mar-16	18 65 65 30 30				
TSZ11020 TSZ11025 TSZ11035 Undergrour UUZ20230 Bridge Con New Tai Han General THBF0335 THBF0340	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 Ind Utility Works Utility cable laying by Utility companies (Along NB63~100m) Struction Ing Footbridge	ess Constru 85.71% 0% 95.24% 95.66% 99.1% 43.96%	<b>Station</b> 8 20 8 15 3	30 56 20 168 346	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 08-Mar-16 08-Mar-16	18 65 85 30 1288 75				
TSZ11020 TSZ11025 TSZ11035 Undergrou UUZ20230 Bridge Con New Tai Han General THBF0335 THBF0340 TWSR-Wes	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction g Footbridge Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) structure steel procurement (THFB) Structure steel procurement (THFB) the full the steel procurement (THFB) the steel procurement (THFB)	ess Constru 85.71% 0% 95.24% 95.66% 99.1% 43.96% ction	<b>Section</b> 8 20 8 15 3 153	30 56 20 168 346 333 273	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A 04-Dec-14 A 22-Sep-15 A	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 08-Mar-16 08-Mar-16 23-Feb-16 21-Jul-16	18 65 85 30 1288 75				
TSZ11020 TSZ11025 TSZ11035 Undergrou UUZ20230 Bridge Con New Tai Han General THBF0335 THBF0340 TWSR-Wes THBF0140	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction ng Footbridge Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) structure steel procurement (THFB)	ess Constru 85.71% 0% 95.24% 95.66% 99.1% 43.96% Ction 70.97%	Liction 8 20 8 15 3 153 27	30 56 20 168 346 333 273 93	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A 22-Sep-15 A 31-Oct-15 A	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 29-Feb-16 29-Feb-16 29-Feb-16 29-Feb-16 22-Mar-16 22-Mar-16	18 65 85 30 1288 75 198 338				
TSZ11020 TSZ11025 TSZ11035 Undergrour UUZ20230 Bridge Con New Tai Har General THBF0335 THBF0340 TWSR-Wes THBF0140 THBF0180	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 Ind Utility Works Utility cable laying by Utility companies (Along NB63~100m) Struction Ing Footbridge Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) Structure steel procurement (THFB) Structure steel procurement (THFB) Structure steel procurement (THFB) THP5 - Pile cap, Pier and Pier Head THP8, THP9 - Pile cap, Pier and Pier Head	255 Constru 85.71% 0% 95.24% 95.66% 99.1% 43.96% 43.96% Ction 70.97% 85.41%	Liction 8 20 8 15 3 153 27 27	30 56 20 168 346 333 273 93 185	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A 22-Sep-15 A 31-Oct-15 A 13-Jul-15 A	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 29-Feb-16 29-Feb-16 29-Feb-16 29-Feb-16 22-Mar-16 22-Mar-16	18 65 85 30 1288 75 198 338 311				
TSZ11020 TSZ11025 TSZ11035 Undergrou UUZ20230 Bridge Con New Tai Har General THBF0335 THBF0340 TWSR-Wes THBF0140 THBF0180 THBF01200 THBF0230	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction fg Footbridge Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) THP5 - Pile cap, Pier and Pier Head THP8, THP9 - Pile cap, Pier and Pier Head THAB3 - pile cap & abutment wall THAB3 - Backfilling (~4m)	SS. Constru         85.71%         0%         95.24%         95.66%         99.1%         43.96%         70.97%         85.41%         46%         0%	Liction 8 20 8 15 3 153 27 27 27 27 27 27	30 56 20 168 346 333 273 93 185 50 27	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A 22-Sep-15 A 31-Oct-15 A 13-Jul-15 A 21-Dec-15 A	<ul> <li>29-Feb-16</li> <li>29-Feb-16</li> <li>29-Feb-16</li> <li>29-Feb-16</li> <li>29-Feb-16</li> <li>29-Feb-16</li> <li>29-Feb-16</li> <li>29-Feb-16</li> <li>22-Mar-16</li> <li>22-Mar-16</li> <li>22-Mar-16</li> <li>22-Mar-16</li> <li>22-Mar-16</li> <li>22-Mar-16</li> </ul>	18 65 85 30 1288 75 198 338 311 311			27-Apr-16	
TSZ11020 TSZ11025 TSZ11035 Undergrou UUZ20230 Bridge Con New Tai Har General THBF0335 THBF0340 TWSR-Wes THBF0140 THBF0180 THBF0180 THBF0220 THBF0230 THBF0235	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction og Footbridge Structure steel Shop drawing approval (THFB) Structure steel Procurement (THFB) t/ FL Highway N/B Side See THP5 - Pile cap, Pier and Pier Head THAB3 - pile cap & abutment wall THAB3 - pile cap & abutment wall THAB3 - Backfilling (~4m) Steel Staircase ready for erection (THFB-TWSR-W side)	ess Constru 85.71% 0% 95.24% 95.66% 99.1% 43.96% 43.96% ction 70.97% 85.41% 46% 0% 0%	Liction 8 20 8 15 3 153 27 27 27 27 27 0	30 56 20 168 346 333 273 93 185 50 27 0	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A 22-Sep-15 A 31-Oct-15 A 13-Jul-15 A 23-Mar-16	29-Feb-16 23-Mar-16 29-Feb-16 29-Feb-16 29-Feb-16 08-Mar-16 08-Mar-16 29-Feb-16 22-Mar-16 22-Mar-16 22-Mar-16 22-Mar-16 27-Apr-16	18 65 85 30 1288 75 198 338 311 311			27-Apr-16	
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TSZ11020         TSZ11025         TSZ11035         Undergrou         UUZ20230         Bridge Con         New Tai Har         General         THBF0335         THBF0340         TWSR-Wes         THBF0140         THBF0230         THBF0230         THBF02310         THBF0310         THBF0320         THBF0320         THBF0320         THBF0320         THBF0320         THBF0320	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction og Footbridge Structure steel Shop drawing approval (THFB) Structure steel Procurement (THFB) Steel Staircase ready for erection (THFB-TWSR-W side) THAB3 - Backfilling (~4m) Steel Staircase ready for erection (THFB-TWSR-W side) THAB2 - pile cap & abutment wall THAB2 - pile cap & abutment wall THAB2 - Backfilling (~3m) <b>LEL Highway S/B Side Sect</b> THAB1 - Pre-bored H pile (4 nos)	SS Constru           85.71%           0%           95.24%           95.66%           95.66%           43.96%           70.97%           85.41%           0%           00%           00%           00%           0%           0%           0%           0%           0%           0%           0%           0%	Liction 8 20 8 15 3 3 153 27 27 27 27 27 27 27 27 27 27 38 30 30 20	30 56 20 168 346 333 273 93 185 50 27 0 27 0 30 30 30 20	09-May-16 14-Dec-15 A 01-Mar-16* 10-Jul-15 A 27-Dec-14 A 27-Dec-14 A 22-Sep-15 A 31-Oct-15 A 31-Oct-15 A 21-Dec-15 A 23-Mar-16 01-Feb-16 A 23-Mar-16 03-May-16	14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         21-Jul-16         22-Mar-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         20-Apr-16         21-Jul-16	18 65 85 30 1288 75 198 338 311 311 311 311 237 198 198				◆ Steel Sta
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TSZ11020         TSZ11025         TSZ11035         Undergrout         UUZ20230         Bridge Con         New Tai Han         General         THBF0335         THBF0340         TWSR-Wes         THBF0140         THBF0180         THBF0230         THBF0230         THBF02310         THBF0310         THBF0320         THBF0450         THBF0450         THBF0460	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction og Footbridge Structure steel Shop drawing approval (THFB) Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) st/ FL Highway N/B Side Sec THP5 - Pile cap, Pier and Pier Head THP8, THP9 - Pile cap, Pier and Pier Head THAB3 - pile cap & abutment wall THAB3 - bile cap & abutment wall THAB2 - pile cap & abutment wall THAB1 - Pile Test THAB1 - Pile Cap & abutment wall	SS Constru           85.71%           0%           95.24%           95.66%           95.66%           43.96%           70.97%           85.41%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%	Jction 8 20 8 3 15 3 3 3 27 27 27 27 27 27 27 27 27 27 3 3 3 3	30 56 20 168 346 333 273 93 273 93 185 50 27 0 30 20 30 30 20 12 28 30	09-May-16         14-Dec-15 A         01-Mar-16*         10-Jul-15 A         27-Dec-14 A         27-Dec-14 A         22-Sep-15 A         31-Oct-15 A         13-Jul-15 A         21-Dec-15 A         23-Mar-16         03-May-16         03-May-16         03-May-16         03-May-16         03-May-16	14-Jun-16         14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         20-Mar-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         30-Apr-16         26-May-16         21-Mar-16         18-Apr-16         10-May-16	<ol> <li>18</li> <li>65</li> <li>85</li> <li>30</li> <li>1288</li> <li>75</li> <li>198</li> <li>338</li> <li>311</li>     &lt;</ol>				◆ Steel Sta
TSZ11020         TSZ11025         TSZ11035         Undergrou         UUZ20230         Bridge Con         New Tai Har         General         THBF0335         THBF0340         TWSR-Wes         THBF0140         THBF0230         THBF0450         THBF0450         THBF0460         THBF0470         THBF0480	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction ng Footbridge Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) Steel Staircase ready for erection (THFB-TWSR-W side) THAB3 - Backfilling (~4m) Steel Staircase ready for erection (THFB-TWSR-W side) THAB2 - pile cap & abutment wall THAB2 - pile cap & abutment wall THAB2 - Dile cap & abutment wall THAB1 - Pre-bored H pile (4 nos) THAB1 - Pile Test THAB1 - Pile cap & abutment wall THAB1 - pile cap & abutment wall THAB1 - pile cap & abutment wall	S. Constru           85.71%           0%           95.24%           95.66%           95.66%           43.96%           70.97%           85.41%           0%           0%           00%           0%	Jation         8         20         8         15         3         153         27         28         30         20           27          27          28 <t< td=""><td>30 56 20 168 346 333 273 93 273 93 185 50 27 0 27 0 27 0 30 20 30 20</td><td>09-May-16         14-Dec-15 A         01-Mar-16*         10-Jul-15 A         27-Dec-14 A         22-Sep-15 A         31-Oct-15 A         13-Jul-15 A         21-Dec-14 A         23-Mar-16         01-Feb-16 A         23-Mar-16         03-May-16         08-Mar-16         05-Apr-16         11-May-16</td><td>14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         22-Mar-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         20-Apr-16         30-Apr-16         26-May-16         21-Mar-16         18-Apr-16         10-May-16         03-Jun-16</td><td><ul> <li>18</li> <li>65</li> <li>65</li> <li>85</li> <li>30</li> <li>1288</li> <li>75</li> <li>198</li> <li>311</li> <li>311</li> <li>311</li> <li>237</li> <li>198</li> <li>198</li> <li>198</li> <li>172</li> <li>213</li> <li>176</li> <li>176</li> </ul></td><td></td><td></td><td></td><td>◆ Steel Sta</td></t<>	30 56 20 168 346 333 273 93 273 93 185 50 27 0 27 0 27 0 30 20 30 20	09-May-16         14-Dec-15 A         01-Mar-16*         10-Jul-15 A         27-Dec-14 A         22-Sep-15 A         31-Oct-15 A         13-Jul-15 A         21-Dec-14 A         23-Mar-16         01-Feb-16 A         23-Mar-16         03-May-16         08-Mar-16         05-Apr-16         11-May-16	14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         22-Mar-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         20-Apr-16         30-Apr-16         26-May-16         21-Mar-16         18-Apr-16         10-May-16         03-Jun-16	<ul> <li>18</li> <li>65</li> <li>65</li> <li>85</li> <li>30</li> <li>1288</li> <li>75</li> <li>198</li> <li>311</li> <li>311</li> <li>311</li> <li>237</li> <li>198</li> <li>198</li> <li>198</li> <li>172</li> <li>213</li> <li>176</li> <li>176</li> </ul>				◆ Steel Sta
TSZ11020         TSZ11025         TSZ11035         Undergrout         UUZ20230         Bridge Con         New Tai Han         General         THBF0335         THBF0340         TWSR-Wes         THBF0140         THBF0180         THBF0230         THBF0230         THBF02310         THBF0310         THBF0320         THBF0450         THBF0450         THBF0450         THBF0460         THBF0480         THBF0480         THBF04510	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction og Footbridge Structure steel Shop drawing approval (THFB) Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) it/ FL Highway N/B Side See THP5 - Pile cap, Pier and Pier Head THA83 - pile cap & abutment wall THAB3 - pile cap & abutment wall THAB3 - bile cap & abutment wall THAB3 - bile cap & abutment wall THAB3 - bile cap & abutment wall THAB2 - pile cap & abutment wall THAB1 - Pile Test THAB1 - Pile Test THAB1 - pile Test	SS Constru           85.71%           0%           95.24%           95.66%           99.1%           43.96%           70.97%           85.41%           0%	Jation         8         200         8         200         8         153         153         277         277         277         277         277         277         277         277         270         271         272         273         274         275         276         277<	30 56 20 168 346 333 273 93 273 93 185 50 27 0 30 20 30 30 20 20 12 28 30 20 22	09-May-16         14-Dec-15 A         01-Mar-16*         10-Jul-15 A         27-Dec-14 A         27-Dec-14 A         22-Sep-15 A         31-Oct-15 A         13-Jul-15 A         21-Dec-15 A         23-Mar-16         01-Feb-16 A         23-Mar-16         03-May-16         03-May-16         11-May-16         16-Feb-16 A	14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         21-Jul-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         30-Apr-16         30-Apr-16         10-May-16         10-May-16         10-May-16         10-May-16         10-May-16	<ol> <li>18</li> <li>65</li> <li>65</li> <li>85</li> <li>30</li> <li>1288</li> <li>75</li> <li>198</li> <li>311</li> <l< td=""><td></td><td></td><td></td><td>◆ Steel Sta</td></l<></ol>				◆ Steel Sta
TSZ11020         TSZ11025         TSZ11035         Undergrou         UUZ20230         Bridge Con         New Tai Har         General         THBF0335         THBF0340         THBF0140         THBF0220         THBF0230         THBF0235         THBF0230         THBF0230         THBF0230         THBF0310         THBF0310         THBF0320         THBF0450         THBF0450         THBF0450         THBF0450         THBF0450         THBF0450         THBF0470         THBF0470         THBF04510         THBF0510	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction ng Footbridge Structure steel Shop drawing approval (THFB) Structure steel Procurement (THFB) st/ FL Highway N/B Side Sec THP5 - Pile cap, Pier and Pier Head THP8, THP9 - Pile cap, Pier and Pier Head THAB3 - pile cap & abutment wall THAB3 - bile cap & abutment wall THAB3 - Dile cap, Pier and Pier Head THAB3 - Dile cap, Pier and Pier Head THAB3 - Backfilling (~4m) Steel Staircase ready for erection (THFB-TWSR-W side) THP6, THP7 - Pile cap, Pier and Pier Head THAB2 - pile cap & abutment wall THAB2 - Dile cap & abutment wall THAB1 - Pile Test THAB1 - Pile Test THAB1 - pile Test THAB1 - Pile Test THP3 - Pile Test	SS Constru           85.71%           0%           95.24%           95.66%           95.66%           43.96%           70.97%           85.41%           0%           60%           00%           0%	Jation         8         200         8         200         8         153         33         277         277         277         277         270         271         272         273         274         275         276         277         270         271         272         273         274         275         276         277         277         277         277         277         277         277         277         277         277         277         277         277         277         277         277         277         270         28         300         201         28         28         28         28         28         28	30 56 20 168 346 333 273 93 273 93 185 50 27 0 30 27 0 30 20 20 30 20 20 30 20 20 28 30 22 8 30 228	09-May-16         14-Dec-15 A         01-Mar-16*         10-Jul-15 A         27-Dec-14 A         22-Sep-15 A         31-Oct-15 A         21-Dec-14 A         23-Mar-16         01-Feb-16 A         23-Mar-16         03-May-16         08-Mar-16         05-Apr-16         11-May-16         16-Feb-16 A	14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         23-Mar-16         29-Feb-16         21-Jul-16         22-Mar-16         22-Mar-16         22-Mar-16         22-Mar-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         27-Apr-16         27-Apr-16         27-Apr-16         21-Mar-16         30-Apr-16         21-Mar-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         18-Mar-16         18-Mar-16         18-Mar-16	<ul> <li>18</li> <li>65</li> <li>65</li> <li>85</li> <li>30</li> <li>1288</li> <li>75</li> <li>1288</li> <li>338</li> <li>311</li> <li></li></ul>				◆ Steel Sta
TSZ11020         TSZ11025         TSZ11035         Undergrout         UUZ20230         Bridge Con         New Tai Han         General         THBF0335         THBF0340         TWSR-Wes         THBF0140         THBF0180         THBF0230         THBF0230         THBF02310         THBF0310         THBF0320         THBF0450         THBF0450         THBF0450         THBF0460         THBF0480         THBF0480         THBF04510	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction og Footbridge Structure steel Shop drawing approval (THFB) Structure steel Shop drawing approval (THFB) Structure steel procurement (THFB) it/ FL Highway N/B Side See THP5 - Pile cap, Pier and Pier Head THA83 - pile cap & abutment wall THAB3 - pile cap & abutment wall THAB3 - bile cap & abutment wall THAB3 - bile cap & abutment wall THAB3 - bile cap & abutment wall THAB2 - pile cap & abutment wall THAB1 - Pile Test THAB1 - Pile Test THAB1 - pile Test	SS Constru           85.71%           0%           95.24%           95.66%           99.1%           43.96%           70.97%           85.41%           0%	Jation         8         200         8         200         8         153         153         277         277         277         277         277         277         277         277         270         271         272         273         274         275         276         277<	30 56 20 168 346 333 273 93 273 93 185 50 27 0 30 20 30 30 20 20 12 28 30 20 22	09-May-16         14-Dec-15 A         01-Mar-16*         10-Jul-15 A         27-Dec-14 A         27-Dec-14 A         22-Sep-15 A         31-Oct-15 A         13-Jul-15 A         21-Dec-15 A         23-Mar-16         01-Feb-16 A         23-Mar-16         03-May-16         03-May-16         11-May-16         16-Feb-16 A	14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         29-Feb-16         21-Jul-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         30-Apr-16         30-Apr-16         10-May-16         10-May-16         10-May-16         10-May-16         10-May-16	<ul> <li>18</li> <li>65</li> <li>65</li> <li>85</li> <li>30</li> <li>1288</li> <li>75</li> <li>1288</li> <li>338</li> <li>311</li> <li></li></ul>				◆ Steel Sta
TSZ11020         TSZ11025         TSZ11035         Undergrou         UUZ20230         Bridge Con         New Tai Har         General         THBF0335         THBF0340         THBF0140         THBF0220         THBF0230         THBF0235         THBF0230         THBF0230         THBF0230         THBF0310         THBF0310         THBF0320         THBF0450         THBF0450         THBF0450         THBF0450         THBF0450         THBF0450         THBF0470         THBF0470         THBF04510         THBF0510	ern Trunk Sewer - Trenchle Watermain & Firemain installation above Trunk Sewer Town gas pipe laying (change of design) DSD trunk sewer along NB63 nd Utility Works Utility cable laying by Utility companies (Along NB63~100m) struction ng Footbridge Structure steel Shop drawing approval (THFB) Structure steel Procurement (THFB) st/ FL Highway N/B Side Sec THP5 - Pile cap, Pier and Pier Head THP8, THP9 - Pile cap, Pier and Pier Head THAB3 - pile cap & abutment wall THAB3 - bile cap & abutment wall THAB3 - Dile cap, Pier and Pier Head THAB3 - Dile cap, Pier and Pier Head THAB3 - Backfilling (~4m) Steel Staircase ready for erection (THFB-TWSR-W side) THP6, THP7 - Pile cap, Pier and Pier Head THAB2 - pile cap & abutment wall THAB2 - Dile cap & abutment wall THAB1 - Pile Test THAB1 - Pile Test THAB1 - pile Test THAB1 - Pile Test THP3 - Pile Test	SS Constru           85.71%           0%           95.24%           95.66%           95.66%           43.96%           70.97%           85.41%           0%           60%           00%           0%	Jation         8         200         8         200         8         153         33         277         277         277         277         270         271         272         273         274         275         276         277         270         271         272         273         274         275         276         277         277         277         277         277         277         277         277         277         277         277         277         277         277         277         277         277         270         28         300         201         28         28         28         28         28         28	30 56 20 168 346 333 273 93 273 93 185 50 27 0 30 27 0 30 20 20 30 20 20 30 20 20 28 30 22 8 30 228	09-May-16         14-Dec-15 A         01-Mar-16*         10-Jul-15 A         27-Dec-14 A         27-Dec-14 A         22-Sep-15 A         31-Oct-15 A         13-Jul-15 A         21-Dec-14 A         23-Mar-16         01-Feb-16 A         23-Mar-16         03-May-16         10-Jul-15 A         13-Jul-15 A         14-Feb-16 A         15-Feb-16 A         16-Feb-16 A         16-Feb-16 A	14-Jun-16         29-Feb-16         23-Mar-16         29-Feb-16         23-Mar-16         29-Feb-16         21-Jul-16         22-Mar-16         22-Mar-16         22-Mar-16         22-Mar-16         22-Mar-16         22-Mar-16         27-Apr-16         27-Apr-16         27-Apr-16         27-Apr-16         27-Apr-16         21-Mar-16         30-Apr-16         21-Mar-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         30-Apr-16         18-Mar-16         18-Mar-16         18-Mar-16	<ul> <li>18</li> <li>65</li> <li>65</li> <li>85</li> <li>30</li> <li>1288</li> <li>75</li> <li>1288</li> <li>338</li> <li>311</li> <li></li></ul>				

vity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duratior	Start	Finish	Total Float		2016		
THBF0780	Modified existing column head of	0%	30	30	03-May-16	07-Jun-16	218	Feb	Mar	Apr	N
Lift at TWS	existing footbridge									1 1 1	
LITE AL TWO L1500	Temp work & Pile cap	0%	45	45	20-Feb-16	16-Apr-16	88				
L1510	Lift pit (NF115)	0%	30	30	18-Apr-16	24-May-16	88				
L1556	Lift contractor sub-letting	93.6%	8	125	21-Sep-15 A	29-Feb-16	9				
L1557	Lift submission & ordering period	0%	270	270	01-Mar-16	25-Jan-17	9				-+
L1600	CLP Power available (by CLP)	0%	365	365	20-Feb-16	18-Feb-17	83				
Lift at FLH											
LIIT at FLF	THB (E) - Pre-bored H pile - NF78 (8	57.32%	14	33	31-Dec-15 A	07-Mar-16	21				
L1350	nos) Temp work & Pier cap	0%	60	60	08-Mar-16	23-May-16	21				
L1450	CLP Power available (by CLP)	0%	365	365	20-Feb-16	18-Feb-17	87				
New Tai Wo	Footbridge										
General	looibhage										
TWFB1030	Structure steel Shop drawing approval (TWFB)	91.67%	30	360	04-Dec-14 A	29-Mar-16	122				
TWFB1040	Structure steel procurement (TWFB)	63.18%	88	239	22-Aug-15 A	17-May-16	99				1
TWFB1050	Steel Staircase & Ramp prefabrication (TWFB-TWSR-W	0%	60	60	18-May-16	28-Jul-16	83				
TWFB1090	Steel Bridge prefabrication (TWFB)	0%	60	60	18-May-16	28-Jul-16	693				
TWSR-Wes	t/ FL Highway N/B Side Se	ction									
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	31.58%	13	19	18-Feb-16 A	05-Mar-16	229				
TWFB1240	TWAB2 - pile cap & abutment wall	0%	30	30	07-Mar-16	14-Apr-16	782				
TWFB1250	TWAB2 - Backfilling (~4m)	0%	27	27	15-Apr-16	18-May-16	782				
TWFB1260	Steel Staircase ready for erection	0%	0	0		18-May-16	782				18-M
TWFB1300	(THFB-TWSR-W side) TWP4, TWP5 - Pile cap, Pier and	62.5%	30	80	16-Nov-15 A	29-Mar-16	60		<u> </u>		
TWFB1340	Pier Head TWAB1 - pile cap & abutment wall	70.3%	30	101	22-Oct-15 A	29-Mar-16	45				
TWFB1350	TWAB1 - Backfilling (~3m)	0%	20	20	30-Mar-16	22-Apr-16	162				
TWFB1360	Steel Ramp ready for erection	0%	0	0		22-Apr-16				22-Apr-16 ♦ Steel	Ramp re
Lift at TWS	(TWFB-TWSR-W side)	0,0	v	-							
LITE AL IVIS	Temp work & Pile cap	55.88%	30	68	21-Dec-15 A	29-Mar-16	650				
L1660	Lift pit	0%	30	30	30-Mar-16	05-May-16	650				
L1670	Lift shaft & roof	0%	52	52	06-May-16	08-Jul-16					
L1720	Lift contractor sub-letting	85.96%	16	114	21-Sep-15 A						
L1720	5		270	270	10-Mar-16	11-Feb-17					
	Lift submission & ordering period	0%							L		
L1780	CLP Power available (by CLP)	0%	365	365	20-Feb-16	18-Feb-17	757				
	ai Wo Footbridge										
Design Wol TWFB-T1010	KS Design preparation	80%	31	157	20-Jul-15 A	31-Mar-16	89			]	
TWFB-T1020	Engineer Comment	0%	26	26	31-Mar-16	03-May-16	89			j 	
TWFB-T1030	Design amendment	0%	26	26	03-May-16	03-Jun-16	89				
Demolition of	f Existing Tai Wo Footbridge										
	t/ FL Highway N/B Side Se	ction									
	Demolish existing TWFB across TWSR-W	0%	45	45	16-May-16	08-Jul-16	10				
TWFB-T1230	Watermain & Firemain at NB58 & backfill	0%	37	37	30-Mar-16	13-May-16	10		V		
Noise Barrie	er Along Fanling Highway	y S/B									
NB51 (Ch.59	35-6055)-FH S/B Side										
Noise Barri NB02280	er Works NB51 ID1-3 (0-25m) - Footing &	0%	90	90	20-Feb-16	11-Jun-16	464				
	Wall Structure			50	0		104				
NB53 (Ch.61 Noise Barri	25-6300) -FH S/B Side (MTF er Works	KC I&P Are	a)								
NB02430	Precautionary Measure installation	0%	26	26	20-Feb-16	21-Mar-16	649				
NB02440	NB53 (0-100m) - Sheet piling &	0%	26	26	22-Mar-16	25-Apr-16	649				
NB02450	Excavation NB53 (0-100m) - Footing & Wall	0%	60	60	26-Apr-16	08-Jul-16	649				
NB02490	Structure NB53 ID2-3 (100-125m), 18nos	0%	10	10	08-Apr-16	19-Apr-16	732				
NB02500	Predrilling NB53 ID2-3 (100-125m) 18nos	0%	27	27	20-Apr-16	23-May-16					
NB02590	Piling- 1 rigs NB53 (125-180m) - NB production	0%	45	45	20-Api-10 20-Feb-16	04-Apr-16					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	05-Apr-16	09-Apr-16	903				
NB55 (Ch.63 Noise Barri	00-6360)-FH S/B Side (MTR	C I&P Area	a)								
NB02640	NB55 - Footing & Wall Structure	93.63%	24	377	07-Nov-14 A	18-Mar-16	732	· · · · · · · · · · · · · · · · · · ·			-
NB02650	NB55- backfilling	0%	50	50	19-Mar-16	23-May-16	732			1	
NB02660	NB55 - NB production	77.78%	10	45	15-Jan-16 A						
	·			-							
NB56 (Ch.63 Noise Barri	60-6400)-FH S/B Side (MTR <mark>er Works</mark>	C IAP Area	1)								
NB02730	NB56 - NB production	0%	45	45	20-Feb-16	04-Apr-16	1115			·	
NB02740	NB56 - NB post & panel installation	0%	5	5	05-Apr-16	09-Apr-16	903				
NB61 (Ch.64	00-6560)-FH S/B Side (MTR	C I&P Area	a)								
Noise Barri	er Works										
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Feb-16	11-Mar-16					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	12-Mar-16	16-May-16	824				
	NB61 (0-50m)- backfilling	0%	50	50	17-May-16	15-Jul-16	824				
NB02790								1 · · · ·	1		.;
NB02790 NB02800	NB61 (0-50m) - NB production	0%	45	45	17-May-16	30-Jun-16	1028				-
	NB61 (0-50m) - NB production NB61 (50-160m) - NB production	0%	45 45	45 45	17-May-16 20-Feb-16	30-Jun-16 04-Apr-16					

	ss Update)(20-Feb-16)					Ionth Rolling				Page 5	of 7 (25-Feb
tivity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float		2016 Mar	Apr	May
	.6560-6745)-FH S/B Side (MT	FRC I&P Ar	ea)					rep	ividi	Apr	
Noise Barı NB02920	rier Works NB61A (0-50m) - NB production	0%	45	45	20-Feb-16	04-Apr-16	1115				
NB02930	NB61A (0-50m) - NB post & panel	0%	5	5	05-Apr-16	09-Apr-16					
NB02970	installation NB61A ID2-3 (50-75m) - Footing &	88.19%	32	271	01-Apr-15 A	· · ·					
NB02980	Wall Structure NB61A ID2-3 (50-75m)- backfilling	0%	20	20	01-Apr-16	25-Apr-16	885				
NB02990	NB61A ID2-3 (50-75m) - NB	0%	45	45	01-Apr-16	15-May-16	i 1074				, +
NB03000	production NB61A ID2-3 (50-75m) - NB post &	0%	5	5	16-May-16	20-May-16	870				
NB03040	panel installation NB61A (75-190m) - NB production	0%	45	45	20-Feb-16	04-Apr-16	1115				
NB03050	NB61A (75-190m) - NB post & panel	0%	5	5	05-Apr-16	09-Apr-16	903				
Other Worl											
	nce & Demolition of Existing \$	Structure									     
Contract C MCLT1050	Apply cert for exemption by DLO by	0%	0	0	20-Feb-16	20-Feb-16	1291				
MCLT1080	Engineer Construct New MCLT (Structure)	84.83%	27	178	21-Jul-15 A	22-Mar-16	58				
MCLT1090	New MCLT - finishes works	0%	75	75	23-Mar-16	25-Jun-16	58				 
TCSS Work	(\$										
G54 TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		20-Feb-16	792	20-Feb-16 ♦ Slov	/ lane footing - G54 (NB61)		
			-			20-1 60-10	132				1 1 1 1
	fer Zone 1 (SBZ1) (with ier Along TWSR-West and				(0 6930)						
NB63A (Ch.	.6710-6840)-TWSR West Sid			intico							       
Noise Barı NB01090	rier Works NB63A-1 - NB production	0%	45	45	20-Feb-16	04-Apr-16	511				
NB01120	NB63A-2 - Footing & Wall Structure	50%	21	42	18-Jan-16 A	· · ·					
NB01120	(ch10.7-24.2) - 1 bays NB63A-2 - backfilling	0%	12	12	15-Apr-16	28-Apr-16					
NB01140	NB63A-2 - NB production	0%	45	45	16-Mar-16	29-Apr-16					
NB01150	NB63A-2 - NB post & panel	0%	5	5	30-Apr-16	06-May-16					; 
NB01170	installation NB63A-3 - Footing & Wall Structure	44.64%	31	56	18-Jan-16 A	30-Mar-16	14			]	
NB01180	(ch24.2-86.9) - 5 bays NB63A-3 - backfilling	0%	12	12	15-Apr-16	28-Apr-16	32				
NB01190	NB63A-3 - NB production	0%	45	45	31-Mar-16	14-May-16	6 471				
NB01200	NB63A-3 - NB post & panel	0%	5	5	16-May-16	20-May-16	380				
DSD South	hern Trunk Sewer, Water Ma	ain Fire Ma	in Worl	s							
TSZ10850	Sheet Piling & Excavation(~6m below ground) (along NB63A)	69.05%	13		18-Jan-16 A						
TSZ10860	DSD Trunk Sewer laying (along NB63A)	0%	26	26	07-Mar-16	09-Apr-16					
TSZ10880	Watermain installation (along NB63A)	0%	30	30	11-Apr-16	17-May-16					1 1 1 1
TSZ10890	Firemain installation (along NB63A)	0%	30	30	28-Apr-16	03-Jun-16	21				1
Undergrou UUZ20210	und Utility Works Utility cable laying by Utility	0%	12	12	31-Mar-16	14-Apr-16	14			; 	       
NB64 & NB	companies (Along NB63A, 125m) 64A (Ch.6860-6920)-TWSR V	Vest Side									       
Noise Bari NB001030	rier Works NB64 & NB64A -Footing & Wall	95.28%	10	212	19-May-15 A	02 Mar 16	2				
NB001030	Structure - 7 bays NB64 & NB64A -NB production	95.28%	45	45	30-Jan-16 A						
	hern Trunk Sewer, Water Ma						011				1 1 1 1
TSZ10910	DSD Trunk Sewer laying (along		18	18	03-Mar-16	23-Mar-16	2				
TSZ10920	NB64) Backfill up to NB64 footing level	0%	6	6	24-Mar-16	02-Apr-16	2				
TSZ10930	Watermain installation (along NB64)	0%	30	30	05-Apr-16	10-May-16	6 2				
TSZ10940	Firemain installation (along NB64)	0%	30	30	22-Apr-16	28-May-16	i 2				÷
	und Utility Works	,		<u> </u>	04.11	05.1	, 				
UUZ20220	Utility cable laying by Utility companies (Along NB64, 60m)	0%	24	24	24-Mar-16	25-Apr-16	5				
Bridge Cor Kau Lung H	n <b>struction</b> lang Vehicular Bridge										 
Precast Ya	ards and Beam Fabrication										
PC0130	Precast Beams Fabrication for P4-P5 (4-10 nos)	78.57%	6	28	28-Dec-15 A						
PC0150	Post Tensioning Beams (4-10nos)	0%	12	12	20-Feb-16 A	04-Mar-16	17				
Other Off- PC0260	Site Prefabrication Parapet Concrete Skin Fabrication	40.63%	57	96	12-Jan-16 A	30-Apr-16	25				 
	raiaper concrete skin rabication		51	00							-
KLH.1034	West Ramp Structure Work (6 bays after P3-4 beams lifting)	0%	67	67	20-Feb-16	13-May-16	6 0				
KLH.1140	West Ramp - Backfilling & Drainage	0%	45	45	16-May-16	08-Jul-16	0				
		-	45	45	14-Apr-16	07-Jun-16	0				<u>+</u>
KLH.1180	West Ramp - Parapet skin (92nos)	0%			1		1				
KLH.1180 KLH Bridg	ge - Deck 1										
KLH.1180 KLH Bridg KLH.1130	<b>Je - Deck 1</b> Deck 1 - Bridge deck construction (VBP2 to VBP3)	0%	60	60	02-Mar-16*	17-May-16					
KLH.1180 KLH Bridg KLH.1130 KLH.3380	<b>Je - Deck 1</b> Deck 1 - Bridge deck construction (VBP2 to VBP3) Deck 1 - Parapet skin (61nos)	0%	30	30	26-Apr-16	01-Jun-16	0				
KLH.1180 KLH Bridg KLH.1130 KLH.3380 KLH.3390	<b>Je - Deck 1</b> Deck 1 - Bridge deck construction (VBP2 to VBP3) Deck 1 - Parapet skin (61nos) Deck 1 - Parapet Wall & Planter Wall	0%			26-Apr-16						
KLH.1180 KLH Bridg KLH.1130 KLH.3380 KLH.3390	<b>Je - Deck 1</b> Deck 1 - Bridge deck construction (VBP2 to VBP3) Deck 1 - Parapet skin (61nos) Deck 1 - Parapet Wall & Planter	0%	30	30	26-Apr-16	01-Jun-16 08-Jul-16	0				
KLH.1180 KLH Bridg KLH.1130 KLH.3380 KLH.3390 KLH Bridg	<b>Je - Deck 1</b> Deck 1 - Bridge deck construction (VBP2 to VBP3) Deck 1 - Parapet skin (61nos) Deck 1 - Parapet Wall & Planter Wall Je - Deck 2	0% 0% 0%	30 45	30 45	26-Apr-16 16-May-16	01-Jun-16 08-Jul-16	0 0 -19				
KLH.1180 KLH Bridg KLH.1130 KLH.3380 KLH.3390 KLH Bridg KLH.3110	<b>Je - Deck 1</b> Deck 1 - Bridge deck construction (VBP2 to VBP3) Deck 1 - Parapet skin (61nos) Deck 1 - Parapet Wall & Planter Wall <b>Je - Deck 2</b> Insitu concrete top slab (P5 to P6)	0% 0% 21.88%	30 45 25	30 45 32	26-Apr-16 16-May-16 09-Jan-16 A	01-Jun-16 08-Jul-16 25-Apr-16	0 0 -19 5 -19				
KLH.1180 KLH Bridg KLH.1130 KLH.3380 KLH.3390 KLH Bridg KLH.3110 KLH.3120	ge - Deck 1         Deck 1 - Bridge deck construction (VBP2 to VBP3)         Deck 1 - Parapet skin (61nos)         Deck 1 - Parapet Wall & Planter Wall         ge - Deck 2         Insitu concrete top slab (P5 to P6)         2nd Pre-Stressing of Beams (P5 to P6)	0% 0% 21.88% 0%	30 45 25 14	30 45 32 14	26-Apr-16 16-May-16 09-Jan-16 A 27-Apr-16	01-Jun-16 08-Jul-16 25-Apr-16 30-May-16	0 0 -19 5 -19 17				
KLH.1180 KLH Bridg KLH.3380 KLH.3390 KLH Bridg KLH.3110 KLH.3120 KLH.3200	<b>Je - Deck 1</b> Deck 1 - Bridge deck construction         (VBP2 to VBP3)         Deck 1 - Parapet skin (61nos)         Deck 1 - Parapet Wall & Planter         Wall <b>Je - Deck 2</b> Insitu concrete top slab (P5 to P6)         2nd Pre-Stressing of Beams (P5 to P6)         Beam Erections P4 to P5 (4-10nos)	21.88% 0% 0% 0% 0%	30 45 25 14 9	30 45 32 14 9	26-Apr-16 16-May-16 09-Jan-16 A 27-Apr-16 27-Feb-16	01-Jun-16 08-Jul-16 25-Apr-16 30-May-16 08-Mar-16	0 0 -19 5 -19 17 17				
KLH.1180 KLH.Bridg KLH.3380 KLH.3390 KLH.Bridg KLH.3110 KLH.3120 KLH.3200 KLH.3205	<b>perform Deck 1</b> Deck 1 - Bridge deck construction (VBP2 to VBP3)         Deck 1 - Parapet skin (61nos)         Deck 1 - Parapet Wall & Planter Wall <b>perform perform Deck 2</b> Insitu concrete top slab (P5 to P6)         2nd Pre-Stressing of Beams (P5 to P6)         Beam Erections P4 to P5 (4-10nos)         Edge Working Platform for P4 to P5	0% 0% 21.88% 0% 0%	30 45 25 14 9 3	30 45 32 14 9 3	26-Apr-16 16-May-16 09-Jan-16 A 27-Apr-16 27-Feb-16 12-Mar-16	01-Jun-16 08-Jul-16 25-Apr-16 30-May-16 08-Mar-16 15-Mar-16	0 0 -19 5 -19 17 17 17				

ty ID	Activity Name	Dur. %	Rom	Original	Start	Ionth Rolling Prog					
	Activity Name	Complete	Duration		Start	Float			2016		M
KLH.3305	Edge Working Platform for P3 to P4	0%	1	1	01-Mar-16*	01-Mar-16 0		Feb	Mar I	Apr	May
KLH.3310	Insitu concrete top slab (P3 to P4)	0%	24	24	02-Mar-16	01-Apr-16 17		· · · ·			
	, ,					· ·					
KLH.3330	Precast Concrete Skin (P3 to P4)(11nos)	0%	14	14	02-Apr-16	19-Apr-16 17					
KLH.3340	Parapet wall (P3 to P4)	0%	30	30	20-Apr-16	26-May-16 17					
KLH Bridge	e - Deck 3										
KLH.1370	Deck - East abutment to VBP8	66.32%	32	95	28-Oct-15 A	31-Mar-16 20					
KLH.1380	Deck - VBP6 to VBP7	0%	45	45	16-Apr-16	10-Jun-16 -37					
KLH.1400	Deck - VBP7 to VBP8	0%	45	45	28-Dec-15 A	16-Apr-16 7					
	e - East Ramp										
KLH.3520	East Ramp Structure Work (5/8	48%	52	100	02-Oct-15 A	25-Apr-16 0					
KLH.3530	remaining) East Ramp - Backfilling & Drainage	0%	60	60	26-Apr-16	08-Jul-16 0					
					01-Apr-16						
KLH.3540	East Ramp - Parapet skin (79nos)	0%	60	60	01-Apr-16	14-Jun-16 2					
	e - Ramp R1	00.000/	24	4.00	02-Jul-15 A	20 Mar 10 00					
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	83.06%	31	183		30-Mar-16 62					
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	83.06%	31	183	02-Jul-15 A	30-Mar-16 -23					
Z2.KLH.1670	Ramp R1 - Pile caps and pier construction (R1P3)	0%	40	40	04-Mar-16	23-Apr-16 -23					
Z2.KLH.1680	Ramp R1 - Ramp construction	0%	45	45	31-Mar-16	25-May-16 62		·	[	·	
Z2.KLH.1685	(Abutment R1 to R1P1) Ramp R1 - Ramp construction	0%	60	60	25-Apr-16	07-Jul-16 -23					
	(R1P1 to P1P3)										
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	85.32%	32	218	22-Jun-15 A						
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	01-Apr-16	07-May-16 46					
Z2.KLH.1730	Ramp R1 - Abutment R1 - Staircase	0%	30	30	09-May-16	14-Jun-16 46					
<b>KLH Bridge</b>	e - Ramp R2										
Z2.KLH.1523	VO 028 - Boundary Wall to Hse	0%	24	24	20-Feb-16*	18-Mar-16 892					
Z2.KLH.1524	190B structure VO 028 - Boundary Wall to Hse	0%	26	26	19-Mar-16	22-Apr-16 892					
Z2.KLH.1530	190B E&M, Drainage Ramp R2 - Pile cap, abutment and	58.62%	48	116	20-Nov-15 A	· · ·					
	pier construction					· ·		· · · · · · · · · · · · · · · · · · ·			
Z2.KLH.1540	Ramp R2 - Ramp construction	0%	65	65	18-Mar-16	08-Jun-16 -34					
Lift at TWS											
L01093	Lift contractor sub-letting	77.01%	40	174	10-Aug-15 A	11-Apr-16 113					
L01094	Lift submission & ordering period	0%	270	270	12-Apr-16	11-Mar-17 113					
L01140	CLP Power available (by CLP)	0%	365	365	20-Feb-16	18-Feb-17 247				· • •	
Lift at FLH								1 1 1			
	Earliest date for lift construction	0%	0	0	06-May-16	110					♦ Ear
L01190	resume Set up & Pile test	0%	45	45	06-May-16	29-Jun-16 110					
					· · · ·					, , ,	
L01300	CLP Power available (by CLP)	0%	365	365	20-Feb-16	18-Feb-17 250					
	er Zone 2 (NBZ2) (with	in Zone	4) (Ch.	7925	to 8100	)		1 			
Bridge Con New Ho Ka		in Zone	4) (Ch.	7925	to 8100)	)					
<b>ridge Con</b> New Ho Ka	Struction Yuen Footbridge Steel Staircase & Ramp	in Zone	4) (Ch.	<b>7925</b> 30	to 8100	) 07-May-16 -25					
ridge Con New Ho Ka General HKY1060	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W	0%	30	30	01-Apr-16*	07-May-16 -25					
ridge Con Iew Ho Ka General HKY1060 HKY1070	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0%	30 0	30 0	01-Apr-16* 09-May-16	07-May-16 -25 -25					• S
ridge Con Iew Ho Ka General HKY1060 HKY1070	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available	0%	30	30	01-Apr-16*	07-May-16 -25					• S
ridge Con lew Ho Ka General HKY1060 HKY1070 HKY1100	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site	0%	30 0	30 0	01-Apr-16* 09-May-16	07-May-16 -25 -25				◆ Steel	
ridge Con lew Ho Ka General нКҮ1060 нКҮ1100 НКҮ1110	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se	0% 0% 0%	30 0 50	30 0 50	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16	07-May-16 -25 -25 22-Apr-16 45 45				◆ Steel	
ridge Con lew Ho Ka General HKY1060 HKY1070 HKY1100 HKY1110	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) St FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier	0% 0% 0%	30 0 50	30 0 50	01-Apr-16* 09-May-16 20-Feb-16	07-May-16 -25 -25 22-Apr-16 45 45				◆ Steel	
ridge Con lew Ho Ka General HKY1060 HKY1070 HKY1100 HKY1110 <b>IWSR-Wes</b> HKY1170	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se	0% 0% 0% ction	30 0 50 0	30 0 50 0	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A	07-May-16 -25 -25 22-Apr-16 45 45				◆ Steel	
ridge Con lew Ho Ka Seneral HKY1060 HKY1100 HKY1110 FWSR-Wes HKY1170 HKY1250	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYP3 - pile cap & abutment wall	0% 0% 0% ction 5%	30 0 50 0 57	30 0 50 0	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A	07-May-16 -25 07-May-16 -25 22-Apr-16 45 45 30-Apr-16 -20 07-Jun-16 845				◆ Steel	
ridge Con lew Ho Ka Seneral нКҮ1060 нКҮ1100 нКҮ1110 ГWSR-Wes нКҮ1170 нКҮ1250 нКҮ1310	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Bridge	0% 0% 0% 0% ction 5% 0% 42%	30 0 50 0 57 30 29	30 0 50 0 60 30 50	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A	07-May-16 -25 -25 22-Apr-16 45 22-Apr-16 45 -20 07-Jun-16 845 24-Mar-16 -7				◆ Steel	
ridge Con lew Ho Ka Seneral HKY1060 HKY1070 HKY1100 HKY1110 HKY1170 HKY1250 HKY1310 HKY1350	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Bridge	0% 0% 0% 0% 5% 0% 42%	30 0 50 0 57 30 29 32	30 0 50 0 60 30 50 32	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16	07-May-16 -25 07-May-16 -25 22-Apr-16 45 22-Apr-16 45 30-Apr-16 -20 07-Jun-16 845 24-Mar-16 -7				◆ Steel	
ridge Con lew Ho Ka Seneral HKY1060 HKY1100 HKY1110 FWSR-Wes HKY1170 HKY1250 HKY1310 HKY1350 HKY1360	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - Backfilling (~3m)	0% 0% 0% 0% <b>ction</b> 5% 0% 42% 0%	30 0 50 0 57 30 29 32 32	30 0 50 0 60 30 50 32 12	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A	07-May-16         -25           07-May-16         -25           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7					Bridge av
ridge Con lew Ho Ka General HKY1060 HKY1100 HKY1110 FWSR-Wes HKY1170 HKY1250 HKY1350 HKY1350 HKY1360	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Bridge	0% 0% 0% 0% 5% 0% 42%	30 0 50 0 57 30 29 32	30 0 50 0 60 30 50 32	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16	07-May-16 -25 07-May-16 -25 22-Apr-16 45 22-Apr-16 45 30-Apr-16 -20 07-Jun-16 845 24-Mar-16 -7				◆ Steel 30-Apr-16 ◆	Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1170           HKY1170           HKY1310           HKY1350           HKY1360           HKY1370	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Ramp ready for erection	0% 0% 0% 0% <b>ction</b> 5% 0% 42% 0%	30 0 50 0 57 30 29 32 32	30 0 50 0 60 30 50 32 12	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16	07-May-16         -25           07-May-16         -25           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7					Bridge av
ridge Con lew Ho Ka General HKY1060 HKY1070 HKY1100 HKY1100 HKY1170 HKY1250 HKY1370 HKY1370 HKY1390	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB3 - pile cap & abutment wall HKYAB4 - Backfilling (~3m) Steel Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W)	0% 0% 0% 0% 5% 0% 42% 0%	30 0 50 0 57 30 29 32 12 0	30 0 50 0 60 30 50 32 12 0	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16 01-Apr-16	07-May-16         -25           07-May-16         -25           22-Apr-16         45           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7           15-Apr-16         -20           30-Apr-16         -7					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY11250           HKY1310           HKY1350           HKY1370           HKY1370           HKY1390           Crossing F	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Ramp reap, Pier and Pier Head HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W)	0% 0% 0% 0% 5% 0% 42% 0%	30 0 50 0 57 30 29 32 12 0	30 0 50 0 60 30 50 32 12 0	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 03-May-16 18-Jan-16 A 20-Feb-16 01-Apr-16 09-May-16	07-May-16         -25           07-May-16         -25           22-Apr-16         45           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7           15-Apr-16         -20           30-Apr-16         -7					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1110           TWSR-Wes           HKY11250           HKY1310           HKY1350           HKY1370           HKY1390           Crossing F           HKY1450	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Bridge available on site (HKYP7 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bie cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W)	0% 0% 0% 0% 5% 0% 42% 0% 0%	30 0 50 0 57 30 29 32 12 0 60	30 0 50 0 60 30 50 32 12 0 60	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 03-May-16 18-Jan-16 A 20-Feb-16 01-Apr-16 09-May-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -20         24-Mar-16       -7         30-Apr-16       -20         20-Jul-16       -25					Bridge av
ridge Con lew Ho Ka General HKY1060 HKY1070 HKY1100 HKY1100 HKY1170 HKY1250 HKY1350 HKY1350 HKY1360 HKY1370 HKY1370 HKY1390 Crossing F HKY1450	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Ramp cap, Pier and Pier Head HKYAB4 - pile cap, Pier and Pier Head HKYAB4 - Backfilling (~3m) Steel Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Steel Ramp ready for erection (HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway	Ction 5% 0% 0% 0% 0% 0% 0% 0%	30 0 50 0 57 30 29 32 12 0 60 60 36 12	30 0 50 0 60 30 50 32 12 0 60 36 12	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 03-May-16 01-Apr-16 01-Apr-16 09-May-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -20         20-Jul-16       -20         06-Apr-16       59         17-May-16       38					<ul> <li>◆ S</li> <li>Bridge available</li> <li>Steel Rail</li> </ul>
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1170           HKY1170           HKY1350           HKY1360           HKY1390           Crossing F           HKY1450           HKY1450	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall HKYAB4 - Backfilling (~3m) Steel Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Canling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work	0% 0% 0% 0% 5% 0% 0% 0% 0% 0% 0%	30 0 50 0 57 30 29 32 32 12 0 60 36	30 0 50 0 60 30 50 32 12 0 60 33	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 03-May-16 01-Apr-16 01-Apr-16 09-May-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       -70         31-Mar-16       -7         15-Apr-16       -20         30-Apr-16       -20         31-Mar-16       -7         30-Apr-16       50         20-Jul-16       59					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1110           IWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1170           HKY1170           HKY1310           HKY1350           HKY1370           HKY1390           Crossing F           HKY1450           HKY1470           TWSR-Eas	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall HKYAB4 - Backfilling (~3m) Steel Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Canling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work	0% 0% 0% 0% 0% 5% 0% 0% 0% 0% 0% 0%	30 0 50 0 57 30 29 32 12 12 0 60 57 30 29 32 12 12	30 0 50 0 60 30 50 32 12 0 60 36 12 12	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -20         07-Jun-16       50         15-Apr-16       -20         20-Jul-16       59         17-May-16       38         31-May-16       38					Bridge av
ridge Con lew Ho Ka Seneral HKY1060 HKY1070 HKY1100 HKY1100 HKY1110 FWSR-Wes HKY1250 HKY1250 HKY1370 HKY1360 HKY1370 HKY1390 Crossing F HKY1450 HKY1450 HKY1450 HKY1450	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) Steel Range cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Steel Ramp (HKY-TWSR-W) anling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Section Erect Stairecase (HKYFB-TWSR-E side)	0% 0% 0% 0% 0% 5% 0% 0% 0% 0% 0% 0% 0%	30 0 50 0 57 30 29 32 32 32 12 0 60 36 29 32 12 12 30	30 0 50 0 60 30 50 32 12 0 60 36 12 12 12 30	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 20-Feb-16 A 03-May-16 01-Apr-16 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       20         24-Mar-16       -7         31-Mar-16       59         06-Apr-16       59         31-May-16       38         31-May-16       38         31-May-16       14					Bridge av
ridge Con           lew Ho Ka           Seneral           HKY1060           HKY1070           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1170           HKY1170           HKY1310           HKY1360           HKY1370           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450	Struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYP7 - Pile cap, Pier and Pier Head HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Steel Ramp (HKY-TWSR-W) Steel Ramp (HKY-TWSR-W) Finishes Work t FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E	0% 0% 0% 0% 5% 0% 42% 0% 0% 0% 0% 0%	30 0 50 0 57 30 29 32 12 12 0 60 57 30 29 32 12 12	30 0 50 0 60 30 50 32 12 0 60 36 12 12	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -20         07-Jun-16       50         15-Apr-16       -20         20-Jul-16       59         17-May-16       38         31-May-16       38					Bridge av
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ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1100           HKY1110           IWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1350           HKY1350           HKY1370           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450           HKY1460           HKY1590           HKY1600           HKY1860	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Fanling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work	Ction 5% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	30 0 50 0 57 30 29 32 12 0 60 36 12 12 12 30 30 30	30 0 50 0 60 30 50 32 12 0 60 36 12 12 12 30 30 30	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 20-Feb-16 A 03-May-16 01-Apr-16 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16 18-May-16	07-May-16         -25           07-May-16         -25           22-Apr-16         45           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7           30-Apr-16         -20           07-Jun-16         50           15-Apr-16         -7           30-Apr-16         59           17-May-16         38           31-May-16         38           31-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1070           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1310           HKY1350           HKY1370           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450           HKY1460           HKY1600           HKY1860           DNE 4 (C	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Steel Ramp ready for erection HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) h. 7925 to 8700)	Ction 5% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	30 0 50 0 57 30 29 32 12 0 60 36 12 12 12 30 30 30	30 0 50 0 60 30 50 32 12 0 60 36 12 12 12 30 30 30	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 20-Feb-16 A 03-May-16 01-Apr-16 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16 18-May-16	07-May-16         -25           07-May-16         -25           22-Apr-16         45           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7           30-Apr-16         -20           07-Jun-16         50           15-Apr-16         -7           30-Apr-16         59           17-May-16         38           31-May-16         38           31-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1310           HKY1350           HKY1370           HKY1370           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1460           HKY1590           HKY1860           DNE 4 (CI           ridge Con	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Steel Ramp ready for erection HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) h. 7925 to 8700)	Ction Ction 5% 0%	30 0 50 0 57 30 29 32 32 32 32 32 32 32 32 32 32 32 32 32	30 0 50 0 60 30 50 32 12 0 60 36 12 12 12 30 30 30	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 20-Feb-16 A 03-May-16 01-Apr-16 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16 18-May-16	07-May-16         -25           07-May-16         -25           22-Apr-16         45           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7           30-Apr-16         -20           07-Jun-16         50           15-Apr-16         -7           30-Apr-16         59           17-May-16         38           31-May-16         38           31-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1310           HKY1350           HKY1370           HKY1390           Crossing F           HKY1450           HKY1860           DNE 4 (C           ridge Con           Jew Wo Ho           General	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) steel Ramp available on site (HKYAB3 - pile cap, Pier and Pier Head HKYAB3 - pile cap, Pier and Pier Head HKYAB4 - pile cap, A abutment wall HKYAB4 - bile cap & abutment wall HKYAB4 - bile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) anling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Secc Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) h. 7925 to 8700) struction p Shek Pedstrian & Cycle Br	Ction Ction Ction Ction 0% Ction 0%	30 0 50 0 57 30 29 32 32 30 60 60 36 12 12 12 12 30 30 30 75	30 0 50 0 30 30 32 12 0 60 32 12 0 60 32 12 0 30 30 75	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 03-May-16 18-Jan-16 A 20-Feb-16 A 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16 30-Mar-16 30-Mar-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       -20         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -20         24-Mar-16       -7         30-Apr-16       59         15-Apr-16       59         06-Apr-16       59         31-May-16       38         31-May-16       14         05-May-16       14         05-May-16       14         05-May-16       14					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1310           HKY1350           HKY1370           HKY1390           Crossing F           HKY1450           HKY1860           DNE 4 (C           ridge Con           Jew Wo Ho           General	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) steel Rang eap, Pier and Pier Head HKYAB4 - pile cap, Pier and Pier Head HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall HKYAB4 - Backfilling (~3m) Steel Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) anling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) h. 7925 to 8700) struction	Ction Ction 5% 0%	30 0 50 0 57 30 29 32 32 32 32 32 32 32 32 32 32 32 32 32	30 0 50 0 60 30 50 32 12 0 60 36 12 12 12 30 30 30	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 03-May-16 18-Jan-16 A 20-Feb-16 A 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16 30-Mar-16 30-Mar-16	07-May-16         -25           07-May-16         -25           22-Apr-16         45           22-Apr-16         45           30-Apr-16         -20           07-Jun-16         845           24-Mar-16         -7           31-Mar-16         -7           30-Apr-16         -20           07-Jun-16         50           15-Apr-16         -7           30-Apr-16         59           17-May-16         38           31-May-16         38           31-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59           17-May-16         59					Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1070           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1170           HKY1170           HKY1300           HKY1370           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1460           HKY1860           DNE 4 (C           ridge Con           Jew Wo Ho           General           WHS1050	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - Backfilling (~3m) Steel Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) <b>anling Highway Section</b> HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) <b>h. 7925 to 8700</b> ) struction p Shek Pedstrian & Cycle Br	Ction Ction Ction Ction 0% Ction 0%	30 0 50 0 57 30 29 32 32 30 60 60 36 12 12 12 12 30 30 30 75	30 0 50 0 30 30 32 12 0 60 32 12 0 60 32 12 0 30 30 75	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 03-May-16 18-Jan-16 A 20-Feb-16 A 01-Apr-16 09-May-16 26-Feb-16 A 03-May-16 18-May-16 30-Mar-16 30-Mar-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       -20         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -20         24-Mar-16       -7         30-Apr-16       59         15-Apr-16       59         06-Apr-16       59         31-May-16       38         31-May-16       14         05-May-16       14         05-May-16       14         05-May-16       14			<ul> <li>Steel Ramp available o</li> </ul>	30-Apr-16	Bridge av
ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1310           HKY1350           HKY1360           HKY1370           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1460           HKY1860           HKY1860	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Staling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) h. 7925 to 8700) struction p Shek Pedstrian & Cycle Br	0%         0%	30 0 0 50 0 29 32 32 32 32 32 30 60 30 30 30 30 30	30 0 50 0 30 30 30 32 12 0 60 32 12 0 30 32 12 30 30 75 30 30 75	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 23-Apr-16 23-Apr-16 18-Jan-16 A 20-Feb-16 A 01-Apr-16 09-May-16 20-Feb-16 A 03-May-16 18-May-16 20-Feb-16 30-Mar-16	07-May-16       -25         07-May-16       -25         22-Apr-16       45         22-Apr-16       45         30-Apr-16       -20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -20         20-Jul-16       -25         06-Apr-16       59         17-May-16       38         31-Mar-16       59         17-May-16       59         17-May-16       59         29-Mar-16       59         24-May-16       14         05-May-16       59         24-May-16       59         29-Mar-16       59         31-May-16       59         30-Mar-16       59         24-May-16       59         24-May-16       59         30-Mar-16       59         30-Mar-16       59         30-Mar-16       59         30-Mar-16       59         30-Mar-16       59         30-Mar-16       59			Steel Ramp available o	30-Apr-16	Bridge av
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ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1070           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1310           HKY1350           HKY1370           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1600           HKY1590           HKY1600           HKY1600           HKY1860           ONE 4 (C           ridge Con           Jew Wo Ho           General           WHS1050           WHS1060           WHS1070           WHS1080	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall HKYAB4 - bile cap & abutment wall HKYAB4 - bile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Steel Ramp ready for erection (HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work t FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) Steel Ramp prefabrication (WHSB) Steel Ramp available on site (WHSB) Steel Staircase available on site (WHSB) Steel Staircase available on site (WHSB) Steel Staircase available on site (WHSB)	0%         0%	30 0 50 0 57 30 29 32 12 0 60 60 36 12 12 12 12 30 30 30 30 30 75	30 0 50 0 30 30 30 32 12 0 60 32 12 0 60 32 12 30 30 30 30 75 30 30 75	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16 A 01-Apr-16 09-May-16 20-Feb-16 A 03-May-16 18-May-16 20-Feb-16 30-Mar-16 20-Feb-16 30-Mar-16 24-Aug-15 A 22-Mar-16	07-May-16       -25         02-Apr-16       45         22-Apr-16       45         30-Apr-16       20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -7         31-Mar-16       -7         30-Apr-16       59         15-Apr-16       59         17-May-16       38         31-May-16       38         31-May-16       14         05-May-16       14         05-May-16       14         05-May-16       59         24-May-16       46         31-May-16       59         31       59         31       59         31       59         31       59				30-Apr-16	Bridge av
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ridge Con           lew Ho Ka           General           HKY1060           HKY1070           HKY1100           HKY1100           HKY1100           HKY1110           TWSR-Wes           HKY1170           HKY1310           HKY1350           HKY1350           HKY1390           Crossing F           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           HKY1450           WSR-Eas           HKY1590           HKY1860           DNE 4 (Cl           ridge Con           Jew Wo Ho           General           WHS1050           WHS1060	struction Yuen Footbridge Steel Staircase & Ramp prefabrication (HKYB-TWSR-W Steel Staircase & Ramp available on site (HKYB-TWSR-W side) Steel Bridge prefabrication (HKYB) Steel Bridge available on site (HKYB) st/ FL Highway N/B Side Se HKYP6 - Pile cap, Pier and Pier Head HKYAB3 - pile cap & abutment wall HKYAB4 - pile cap & abutment wall HKYAB4 - bile cap & abutment wall HKYAB4 - bile cap & abutment wall Erect Ramp ready for erection (HKY-TWSR-W side) Erect Ramp (HKY-TWSR-W) Fanling Highway Section HKYP2 - Pile cap, Pier and Pier Head Erect HKY bridge Structure across fanling highway Finishes Work FL Highway S/B Side Sec Erect Stairecase (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) Finishes Work Erect Steel Ramp (HKYFB-TWSR-E side) Steel Ramp prefabrication (WHSB) Steel Ramp prefabrication (WHSB) Steel Ramp prefabrication (WHSB) Steel Ramp prefabrication (WHSB) Steel Ramp available on site (WHSB) Steel Staircase available on site (WHSB) Steel Ramp Avilable on site (WHSB) Steel Ramp Available on site (WHSB)	0%         0%	30 0 50 0 57 30 29 32 12 0 60 60 36 12 12 12 12 30 30 30 30 30 75	30 0 50 0 30 30 30 32 12 0 60 32 12 0 60 32 12 30 30 30 30 75 30 30 75	01-Apr-16* 09-May-16 20-Feb-16 23-Apr-16 20-Feb-16 A 03-May-16 18-Jan-16 A 20-Feb-16 A 01-Apr-16 09-May-16 20-Feb-16 A 03-May-16 18-May-16 20-Feb-16 30-Mar-16 20-Feb-16 30-Mar-16 24-Aug-15 A 22-Mar-16	07-May-16       -25         02-Apr-16       45         22-Apr-16       45         30-Apr-16       20         07-Jun-16       845         24-Mar-16       -7         31-Mar-16       -7         30-Apr-16       -7         31-Mar-16       -7         30-Apr-16       59         15-Apr-16       59         17-May-16       38         31-May-16       38         31-May-16       14         05-May-16       14         05-May-16       14         05-May-16       59         24-May-16       46         31-May-16       59         31       59         31       59         31       59         31       59				30-Apr-16	Bridge av
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	s Update)(20-Feb-16)					Ionth Rollin		·····		Page 7	, <b>_</b> .
ty ID	Activity Name	Dur. %	Rem.	Original	Start	Finish	Total		2016		
		Complete	Duration	Duration	1		Float	Feb	Mar	Apr	<u>г</u>
WHS1970	WHSP5 - Pile cap, Pier and Pier Head	77.08%	11	48	29-Dec-15 A	03-Mar-16	46				
WHS1980	1st half Steel Ramp ready for erection (WHS-TWSR-W side)	0%	0	0		30-Apr-16	0			30-Apr-16 🖣	1st ha
WHS1990	Erect 1st half ramp	0%	60	60	03-May-16	14-Jul-16	0				
<b>Crossing F</b>	Fanling Highway Section										
WHS1480	Erect WHS bridge Structure across fanling highway	21.11%	71	90	20-Jan-16 A	19-May-16	61				
Slip Road N	Y Construction										
	Road Works										
	t FL Highway S/B Side Sect	tion									
RDZ41020	Construct Slip Rd Y @ existing TWSR-E junction	2.86%	68	70	01-Dec-15 A	16-May-16	6 2				
RDZ41082	Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @	52.1%	57	119	17-Sep-15 A	30-Apr-16	3				   
RDZ41084	Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 temp	0%	120	120	20-Feb-16	18-Jul-16	0				
Undergroun	d Utility Works										
DN600 and	DN900 Watermain										
DN1056	Laying DN600 section after DN900 changeover Works	21.95%	32	41	01-Feb-16 A						
DN1060	Watermain (DN600) changeover for TTA stage 4	0%	6	6	01-Apr-16	08-Apr-16	32				
'O - Wall 7	6A Construction										
Retaining W	/all W76A										
<b>TWSR-Eas</b>	t FL Highway S/B Side Sect	tion									
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Feb-16	22-Aug-16	674				
anling Hig	hway Construction										
	Road Works										
	t FL Highway S/B Side Sect	tion									
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E junction	6.94%	67	72	18-Dec-15 A	13-May-16	6 3				+
RDZ41050	Traffic Diversion for FH S/B road construction (Z4 TTA-Stage 4)	0%	6	6	17-May-16	23-May-16	6 2				
Other Work											
Retaining W	/all W77B										
	t FL Highway S/B Side Sect	tion									1
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-40)	0%	60	60	20-Feb-16	05-May-16	5 188				 
RWZ4.1110		0%	30	30	06-May-16	11-Jun-16	218				
TCSS Work											
	Construction Works										
TCSS0110	Confirm Design criteria with Engineer	0%	30	30	20-Feb-16	20-Mar-16	373				÷
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	21-Mar-16	18-May-16	3 299				
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	19-May-16	08-Jun-16			 		· · · · · · · · · · · ·



APPENDIX C IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

### Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

### Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V
	All stockpiles of excavated materials or spoil of more than 50m <sup>3</sup> shall be enclosed, covered or dampened during dry or windy conditions.		+
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		V
	All spraying of materials and surfaces shall avoid excessive water usage.		V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V
	Materials shall be dampened, if necessary, before transportation.		V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V

### Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	@
	Reduce the number of equipment and their percentage on-time.		V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).	-	V
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).	]	N.A.

### Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Impact Water quality during construction	<ul> <li>Mitigation Measures</li> <li>Demolition and reconstruction of bridges <ul> <li>Prevent off-site migration through use of sheet piles.</li> </ul> </li> <li>Minimise duration of works as far as practical.</li> <li>All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains.</li> <li>Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains.</li> </ul> Road Widening Works, Earthworks and Culvert Extension Works <ul> <li>Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. <ul> <li>Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.</li> <li>Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls.</li> <li>Regular inspections of stilling basins and/or silt traps are required to ensure that sediment is not conveyed into the existing drainage system.</li> <li>Open stockpiles should be covered with a tarpaulin cover.</li> <li>During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.</li> </ul> </li> </ul>	During construction	Implementation Status V @
	<ul> <li>Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.</li> <li>Fuels should be stored in bunded areas such that spillage can be easily collected.</li> </ul>		

### Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Waste management during construction	<ul> <li>General Waste</li> <li>Transport of wastes off site as soon as possible.</li> <li>Maintenance of accurate waste records.</li> <li>Minimisation of waste generation for disposal (via reduction/recycling/re-use).</li> <li>No on-site burning will be permitted.</li> <li>Use of re-useable metal hoardings/signboards.</li> </ul>	During construction	@
	<ul> <li>Vegetation from site clearance</li> <li>Segregation of materials to facilitate disposal.</li> <li>Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.</li> </ul>		V
	Demolition Wastes - Segregation of materials to facilitate disposal Appropriate stockpile management.		V
	<ul> <li>Excavated Materials</li> <li>Segregation of materials to facilitate disposal / reuse.</li> <li>Appropriate stockpile management.</li> <li>Re-use of excavated material on or off site (where possible).</li> <li>Special handling and disposal procedures in the event that contaminated materials are excavated.</li> </ul>		V
	<ul> <li>Construction Wastes</li> <li>Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).</li> <li>Appropriate stockpile management.</li> <li>Planning to reduce over ordering and waste generation.</li> <li>Recycling and re-use of materials where possible (e.g. metal, wood from formwork)</li> <li>For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.</li> </ul>		V
	<ul> <li>Bentonite Slurries</li> <li>Bentonite slurries should be reused as far as possible.</li> <li>Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.</li> </ul>		#

<ul> <li>Chemical Wastes</li> <li>Storage within locked, covered and bunded area.</li> <li>The storage area shall not be located adjacent to sensitive receivers e.g. drains.</li> <li>Minimise waste production and recycle oils/solvents where possible.</li> <li>A spill response procedure shall be in place and absorption material available for minor spillages.</li> </ul>	Q
<ul> <li>Use appropriate and labelled containers.</li> <li>Educate site workers on site cleanliness/waste management procedures.</li> <li>If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer.</li> <li>The chemical wastes shall be collected by a licensed chemical waste collector.</li> </ul>	
<ul> <li>Municipal Wastes</li> <li>Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.</li> <li>Regular, daily collections are required by an approved waste collector.</li> </ul>	V

### Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Ecology during construction	<ul> <li>Accurate Delineation of Works Area</li> <li>Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.</li> <li>Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection.</li> </ul>	During construction	V
	<ul> <li>Vegetation Clearance</li> <li>No fires shall be lit within the works area for the purpose of burning cleared vegetation.</li> <li>The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land.</li> </ul>		V
	<ul> <li>Dust generation <ul> <li>There are a number of measures which shall be taken as specified in the Air</li> <li>Pollution Control (Construction Dust) Regulation on 'Dust Control</li> <li>Requirements, including the following key measures to be applied during construction: <ul> <li>Vehicle washing facilities to be provided at every discernible or designated vehicle exit point;</li> <li>All temporary site access roads shall be sprayed with water to suppress dust as necessary;</li> <li>All dusty materials should be sprayed with water immediately prior to any handling; and</li> <li>All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.</li> </ul> </li> </ul></li></ul>		V
	<ul> <li>Surface Run-off</li> <li>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: <ul> <li>Bund and cover stock piles to avoid run-off;</li> <li>Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;</li> <li>All vehicle maintenance to be undertaken within a bunded area; and</li> <li>Maximise vegetation retention on-site to maximise absorption (minimise transport).</li> </ul> </li> </ul>		V

### Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Responsibility
Landscape & Visual during construction	<ul> <li>Preservation of Existing Vegetation</li> <li>Trees identified for retention within the project limit would be protected during the works;</li> <li>The tree transplanting and planting works shall be implemented by approved Landscape Contractors.</li> </ul>	During construction	V
	<ul> <li>Temporary Works Areas</li> <li>Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.</li> </ul>		V
	<ul> <li>Hoarding</li> <li>A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.</li> </ul>	 y	V
	<ul> <li>Top Soils</li> <li>The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.</li> </ul>		#
	<ul> <li>Protection of Important Landscape Features</li> <li>Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.</li> </ul>		#

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

N/A = not applicable - No such work was undertaken or no such material was used on site;

# = to be implemented.

APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

### Appendix D - Summary of Action and Limit Levels

Table 1 – Act	ion and I	imit Levels	for 1-hc	
	ion anu i			

Location	Action Level	Limit Level	
AM2	317.8 μg/m3	500 μg/m3	

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AM2	200.7 μg/m3	260 μg/m3

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented	75 dB(A)
	complaint, related to 0700 -	
	1900 hours on normal	
M3*	weekdays, is received	65/70 dB(A)
	from any one of the sensitive	
	receivers	

\*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

APPENDIX E CALIBRATION CERTIFICATES OF MONITORING EQUIPMENTS



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

# ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator ========	ay 29, 201 Tisch	5 Rootsmeter Orifice I.) ====================================	-	438320 0988	Ta (K) - Pa (mm)	- 755.65
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	======================================	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3980 0.9910 0.8790 0.8380 0.6890	3.2 6.3 7.8 8.6 12.6	2.00 4.00 5.00 5.50 8.00

### DATA TABULATION

	(x axis)	(	1			
Vstd	Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9934 0.9893 0.9872 0.9862 0.9809	0.7106 0.9983 1.1231 1.1769 1.4237	1.4125 1.9976 2.2334 2.3424 2.8251		0.9957 0.9917 0.9896 0.9886 0.9833	0.7123 1.0007 1.1258 1.1797 1.4271	0.8866 1.2539 1.4019 1.4703 1.7732
Qstd slop intercept coefficie	(b) = ent (r) =	1.97831 0.01264 0.99985	n e n	Qa slope intercept coefficie	(b) =	1.23878 0.00793 0.99985
y axis =	SQRT [H2O (P	a/760) (298/1	[a)]	y axis =	SQRT [H20 (T	a/Pa)]

### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd =  $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa =  $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$ 

# AECOM

## <u>Total Suspended Particulates (TSP) Sampler</u> <u>Field Calibration Report</u>

Station	Fanling Government Secondary School (AM2)	Operator:	Shum Kam Yuen
Date:	26-Jan-16	Next Due Date:	26-Mar-16
Model No:	TE-5170	Verified Against:	O.T.S 988
Equipment No.:	A-001-74T	Expiration Date:	29-May-2016

		Ambient Co	ndition		
Temperature, Ta	286.0	Kelvin	Pressure, Pa	769.1	mmHg

Orifice Transfer Standard Information							
Equipment No .:	988	Slope, mc	1.97831	Intercept, bc	0.01264		
Last Calibration Date:	29-May-15	_		$T(0) = (200/T_{-1})^{1/2}$			
Next Calibration Date:	29-May-16	1	mc x Qstd + bc = [H x (Pa)]'	/00) x (298/1a)]			

		Calibration of	TSP Sampler		
Calibration H Point in. of water		[H x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	W in. of oil	$\frac{\left[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)\right]^{1/2}}{\mathbf{Y}\text{-axis}}$
1	7.2	2.76	1.39	4.5	2.18
2	5.9	2.49	1.25	3.9	2.03
3	4.5	2.18	1.09	3.2	1.84
4	3.6	1.95	0.98	2.7	1.69
5	2.6	1.66	0.83	2.0	1.45
By Linear Regr Slope , mw = Correlation C	ession of Y on X <u>1.2933</u> oefficient* =		Intercept, bw =		0.4051

Set Point Calculation	
From the TSP Field Calibration Curve, take $Qstd = 1.21 \text{ m}^3/\text{min}$ (43 CFM)	
From the Regression Equation, the "Y" value according to	
m x Qstd + b = [W x (Pa/760) x (298/Ta	)] <sup>1/2</sup>
Therefore, Set Point W = $(m \times Qstd + b)^2 \times (760 / Pa) \times (Ta / 298) =$	3.68

\*If Correlation Coefficient < 0.990, check and recalibrate again.

Remarks:

QC Reviewer: US CHAN Signature:

nature:

Date: 26/1/16

### **EQUIPMENT CALIBRATION RECORD**

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.07a
Sensitivity Adjustment Scale Setting:	557 CPM

Operator:

Mike Shek (MSKM)

### Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM <sup>®</sup>			
Venue:	Cyberport	Pui Ying Secondary Scho	ol)		
Model No.:	Series 140	0AB			
Serial No:	Control:	140AB219899803	and a second		
	Sensor:	1200C143659803	K <sub>o</sub> :	12500	
Last Calibration Date*:	7 May 201	5	-		

\*Remarks: Recommended interval for hardware calibration is 1 year

### **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

557	CPM
557	CPM

Hour	Date (dd-mm-yy)	Т	ime	9		bient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-15	09:15	-	10:15	26.9	76	0.04417	1763	29.38
2	08-05-15	10:15	-	11:15	26.9	76	0.04625	1851	30.85
3	08-05-15	11:15	-	12:15	26.9	77	0.04513	1805	30.08
4	08-05-15	12:15	-	13:15	27.1	77	0.04828	1926	32.10

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0015	
Correlation coefficient:	0.9983	

Validity of Calibration Record: 8 May 2016

Remarks:					
QC Reviewer:	YW Fung	Signature:	1.	Date:	11 May 2015

### EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.09a
Sensitivity Adjustment Scale Setting:	797 CPM

Operator:

Mike Shek (MSKM)

### Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM <sup>®</sup>				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	K <sub>o</sub> :	12500		
Last Calibration Date*:	7 May 201	5				

\*Remarks: Recommended interval for hardware calibration is 1 year

### **Calibration Result**

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

797	CPM
797	CPM

Hour	Date (dd-mm-yy)	Tir	Time		pient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
				Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-15	13:15	- 14:15	27.1	77	0.04986	1994	33.23
2	08-05-15	14:15	- 15:15	27.1	77	0.05083	2037	33.95
3	08-05-15	15:15	- 16:15	27.1	77	0.05012	2003	33.38
4	08-05-15	16:15	- 17:15	27.1	76	0.05241	2095	34.92

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0015	
Correlation coefficient:	0.9968	

Validity of Calibration Record: 8 May 2016

Remarks:				
QC Reviewer:YW Fung	Signature:	n/	Date:	11 May 2015



G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel : (852) 2873 6860 Fax : (852) 2555 7533



## **CERTIFICATE OF CALIBRATION**

Certificate No.:	15CA0317 03		Page	1	of	2
Item tested						
Description:	Sound Level Meter	(Type 1)	Microphone			
Manufacturer:	B & K		B&K			
Type/Model No.:	2238	1	4188			
Serial/Equipment No.:	2285692	,	2791211			
Adaptors used:	-	1				
Item submitted by						
Customer Name:	AECOM ASIA CO.	LTD.				
Address of Customer:						
Request No.:	-					
Date of receipt:	17-Mar-2015					
Date of test:	18-Mar-2015					
Reference equipment	used in the calibr	ation				
Description:	Model:	Serial No.	Expiry Date:		Traceat	ole to:
Multi function sound calibrator	B&K 4226	2288444	20-Jun-2015		CIGISME	C
man anoton sound callorator						
	DS 360	33873	09-Apr-2015		CEPREI	
Signal generator	DS 360 DS 360	33873 61227	09-Apr-2015 09-Apr-2015		CEPREI CEPREI	
Signal generator Signal generator Ambient conditions		and the second				
Signal generator Signal generator		and the second				
Signal generator Signal generator Ambient conditions	DS 360	and the second				

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

### Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huand Min/Feng Jun Qi

19-Mar-2015 Company Chop:



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

Date:

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

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



# 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

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



### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA0317 03

Page 2 of

2

#### **Electrical Tests** 1.

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

			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	A	Pass	0.3	
3	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leg	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
, , ,	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
uraniuranyenaven - wester Titt Titt	Leq	Pass	0.4	

#### 2. Acoustic tests

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

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

#### 3, Response to associated sound calibrator

#### N/A

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



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

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

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## **CERTIFICATE OF CALIBRATION**

Certificate No.:	15CA0703 02-02			Page	1	of	2
Item tested							
Description:	Sound Level Meter	r (Type 1)		Microphone			
Manufacturer:	B & K			B & K			
Type/Model No.:	2238			4188			
Serial/Equipment No.:	2800927			2791214			
Adaptors used:	-		,	-			
Item submitted by	N.009 01	0					
Customer Name:	AECOM ASIA CO.	, LTD.					
Address of Customer:	-						
Request No.:	-						
Date of receipt:	03-Jul-2015						
Date of test:	04-Jul-2015						
Reference equipment	used in the calibi	ation					
Description:	Model:	Serial No.		Expiry Date:		Traceab	le to:
Multi function sound calibrator	B&K 4226	2288444		19-Jun-2016		CIGISME	С
Signal generator	DS 360	33873		16-Apr-2016		CEPREI	
Signal generator	DS 360	61227		16-Apr-2016		CEPREI	
Ambient conditions							
Temperature:	21 ± 1 °C						
Relative humidity:	60 ± 10 %						
Air pressure:	1000 ± 5 hPa						
Test specifications							

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

### **Test results**

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

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

Actual Measurement data are documented on worksheets.

	1				2/综合
Approved Signatory:	2af	Date:	06-Jul-2015	Company Chop:	目有限
	Huang Jian Min/Feng Jun Q	I			STIOS

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

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## 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

15CA0703 02-02

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

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



### **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Page 2 of

2

#### **Electrical Tests** 1.

Certificate No.:

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
3	С	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
0.0	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

#### 2, Acoustic tests

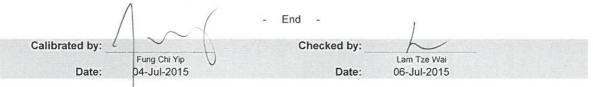
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

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

#### 3, Response to associated sound calibrator

N/A

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



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

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

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



## **CERTIFICATE OF CALIBRATION**

Certificate No.:	15CA0422 02		Page:	1	of	2
Item tested						
Description:	Acoustical Calibra	ator (Class 1)				
Manufacturer:	Rion Co., Ltd.					
Type/Model No.:	NC-74					
Serial/Equipment No.:	34246490					
Adaptors used:	Yes (A	1.004.10)				
Item submitted by						
Curstomer:	AECOM ASIA CC	., LTD.				
Address of Customer:	-					
Request No.:	-					
Date of receipt:	22-Apr-2015					
Date of test:	28-Apr-2015					
Reference equipment	used in the calib	oration				
Description:	Model:	Serial No.	Expiry Date:	т	raceabl	e to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	S	CL	
Preamplifier	B&K 2673	2239857	22-Apr-2016	С	EPREI	
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	C	EPREI	
Signal generator	DS 360	61227	16-Apr-2016		EPREI	
Digital multi-meter	34401A	US36087050	17-Apr-2016		EPREI	
Audio analyzer	8903B	GB41300350	17-Apr-2016		EPREI	
Universal counter	53132A	MY40003662	16-Apr-2016	С	EPREI	
Ambient conditions						
Temperature:	21 ± 1 °C					
Temperature: Relative humidity: Air pressure:	21 ± 1 °C 60 ± 10 % 1005 ± 5 hPa					

#### **Test specifications**

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

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

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

#### **Test results**

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

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

Huang Jian Min/Eeng Jun Qi

29-Apr-2015 Company Chop:



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

Date:

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Approved Signatory:

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

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G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

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



## **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.:

15CA0422 02

Page: 2 of 2

1, Measured Sound Pressure Level

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

			(Output level in dB re 20 µPa)
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.27	0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz	STF = 0.002 dB
Estimated expanded uncertainty	0.005 dB

### 3, Actual Output Frequency

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

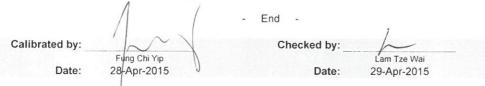
At 1000 Hz	Actual Frequency = 1001.9 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

#### 4, Total Noise and Distortion

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

At 1000 Hz	TND = 1.3 %
Estimated expanded uncertainty	0.7 %

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



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

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APPENDIX F EM&A MONITORING SCHEDULES

### Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Impact Monitoring and Audit Schedule for February 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb
			1-hr TSP 24-hr TSP Noise			1-hr TSP 24-hr TSP
7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb 1-hr TSP	13-Feb
					24-hr TSP Noise	
14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb
			1-hr TSP 24-hr TSP Noise			
21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb
	1-hr TSP 24-hr TSP Noise					1-hr TSP 24-hr TSP
28-Feb	29-Feb					

### Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Tentative Impact Monitoring and Audit Schedule for March 2016

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Mar	2-Mar	3-Mar	4-Mar	5-Mar
					1-hr TSP	
					24-hr TSP	
					Noise	
6-Mar	7-Mar	8-Mar	9-Mar		11-Mar	12-Mar
				1-hr TSP		
				24-hr TSP		
				Noise		
13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar
			1-hr TSP			
			24-hr TSP			
			Noise			
20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar
	1-hr TSP			1-hr TSP		
	24-hr TSP			24-hr TSP		
	Noise					
27-Mar	28-Mar	29-Mar	30-Mar	31-Mar		
			1-hr TSP			
			24-hr TSP			
			Noise			

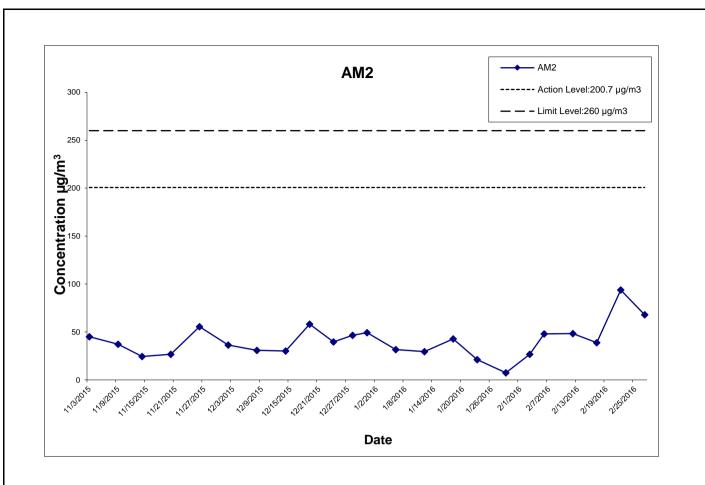
The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

APPENDIX G IMPACT AIR QUALITY MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

### Appendix G Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Action Level	Limit Level
	Condition	Temp. (°C	Pressure(hPa)	Initial	Final	(m³/min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µq/m <sup>3</sup> )	(µg/m <sup>3</sup> )
3-Feb-16	Fine	12.5	1023.6	1.314	1.314	1.314	1892.2	2.8827	2.9335	0.0508	6746.03	6770.03	24.00	26.8	200.7	260
6-Feb-16	Sunny	13.6	1024.9	1.314	1.314	1.314	1892.2	2.8636	2.9546	0.0910	6770.03	6794.03	24.00	48.1	200.7	260
12-Feb-16	Cloudy	19.2	1013.4	1.314	1.314	1.314	1892.2	2.8981	2.9894	0.0913	6794.03	6818.03	24.00	48.3	200.7	260
17-Feb-16	Cloudy	12.9	1024.1	1.314	1.314	1.314	1892.2	2.8231	2.8966	0.0735	6818.03	6842.03	24.00	38.8	200.7	260
22-Feb-16	Cloudy	16.1	1020.6	1.314	1.314	1.314	1892.2	2.8389	3.0164	0.1775	6842.03	6866.03	24.00	93.8	200.7	260
27-Feb-16	Cloudy	15.5	1024.7	1.314	1.314	1.314	1892.2	2.8154	2.9441	0.1287	6866.03	6890.03	24.00	68.0	200.7	260
													Average	54.0		
													Min	26.8		
													Max	93.8		



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CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

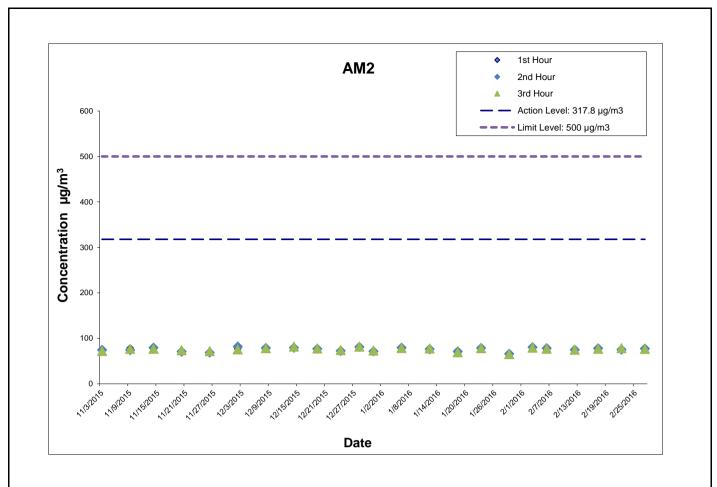


Graphical Presentation of Impact 24-hour TSP Monitoring Results

### Appendix G Impact Air Quality Monitoring Results

### 1-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m <sup>3</sup> )	(µg/m³)	(µg/m <sup>3</sup> )
3-Feb-16	9:35	80.9	80.5	79.4
6-Feb-16	10:03	77.6	78.5	77.3
12-Feb-16	9:52	75.6	74.9	75.1
17-Feb-16	10:02	77.4	78.2	77.1
22-Feb-16	10:00	77.8	75.3	78.4
27-Feb-16	12:52	76.2	77.5	76.7
			Average	77.5
			Min	74.9
			Max	80.9



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WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Mar-16

APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH



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#### Daily Extract of Meteorological Observations, February 2016 -Back Tai Po

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HKO Side Lights										
Our Services				Year 201	6 • Month	2 ▼ Go				
Visitors Figures			Air	Tempera	ture	Mean	Mean		Prevailing	Mean
Press releases	Day	Mean Pressure	Absolute Daily	Mean	Absolute Daily	Dew	Relative	Total Rainfall	Wind	Wind
Today's Weather Warnings		(hPa)	Max	(deg. C)	Min	Point (deg. C)	Humidity (%)	(mm)	Direction (degrees)	Speed (km/h)
Local Weather			(deg. C)		(deg. C)					
Observations	01	1023.1#	15.1	11.1#	8.9	9.4#	89#	***	***	***
Weather Forecast	02	1025.1#	9.2	8.4#	6.9	4.9#	79#	***	***	***
Weather Monitoring	03	1024.3	13.5	10.8	8.0	6.7	76	***	***	***
Imagery	04	1022.2	18.9	14.6	11.1	9.7	73	***	***	***
Computer Forecast	05	1021.9	18.4	14.2	11.0	6.3	60	***	***	***
Products	06	1025.8	16.5	13.6	10.9	-4.9	28	***	***	***
MyObservatory	07	1026.6	17.9	13.1	8.0	-7.7	25	***	***	***
Met on Map	08	1024.4	19.1	12.6	7.0	1.4	49	***	***	***
Tropical Cyclones	09	1021.3	21.6	15.1	8.2	6.9	59	***	***	***
Aviation Weather Services	10	1017.9	17.5	16.1	14.1	10.3	69	***	***	***
Marine Meteorological	11	1015.0	22.1	18.3	16.4	16.2	88	***	***	***
Services	12	1013.6	19.7	18.4	17.4	18.1	98	***	***	***
Weather Information for	13	1012.5	26.8	22.0	18.4	20.1	90	***	***	***
Sports	14	1015.2	24.1	20.5	16.2	16.2	78	***	***	***
Weather Information for	15	1025.1	16.2	12.1	9.7	4.5	60	***	***	***
Communities	16	1026.2	13.9	11.4	9.4	3.4	58	***	***	***
China Weather	17	1024.6	13.0	11.6	10.2	7.2	75	***	***	***
World Weather	18	1022.4	14.1	12.8	10.7	11.0	89	***	***	***
Climatological Information	19	1021.0	15.4	14.3	13.4	13.0	92	***	***	***
Services > Climate Watch	20	1023.7	19.4	15.1	12.2	8.3	67	***	***	***
· · · · · · · · · · · · · · · · · · ·	21	1022.8	15.3	14.7	12.6	9.9	73	***	***	***
> Climate Statistics	22	1021.1	16.8	15.8	14.9	14.5	92	***	***	***
> Climate Prediction	23	1023.2#	15.8	14.2#	12.3	12.8#	92#	***	***	***
> Climate Knowledge	24	1028.2	14.5	12.8	11.4	8.8	77	***	***	***
> Need More	25	1029.5	15.8	13.9	12.3	9.6	76	***	***	***
Information?	26	1027.9	16.6	14.4	12.8	10.7	79	***	***	***
> Global Climate	27	1025.1	19.8	15.5	12.4	11.2	76	***	***	***
Services	28	1024.2	20.2	15.5	10.3	10.7	74	***	***	***
> Other Useful Links	29	1024.9	24.0	17.3	11.2	9.0	61	***	***	***
Climate Forecast		1021.7	21.0	L ± / • J	1112	1	01			
Climate Change										

\*\*\* unavailable

# data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Weather and

Tsunamis

Geomagnetism

Astronomy, Space

El Nino and La Nina Earthquakes and

Time and Calendar

Radiation Monitoring,

Assessment and

### 3/14/2016

Automatic Weather Observations daily Extrac
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Protection
Educational Resources
Publications
Media and Information
Services
Audio/Video Webpage
Electronic services
World Meteorological Day
World Meteorological
Organization-Official City
Weather Forecasts
World Meteorological
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### Daily Extract of Meteorological Observations, February 2016 -Tai Mei Tuk

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Our Services					6 ▼ Month	2 ▼ Go				
Visitors Figures		Mean Pressure (hPa)	Air Temperature			Mean	Mean		Prevailing	Mean
Press releases Today's Weather Warnings	Dav		Absolute Daily Max	Mean (deg. C)	Absolute Daily Min	Dew Point (deg. C)	Relative Humidity (%)	Total Rainfall (mm)	Wind Direction (degrees)	Wind Speed (km/h)
	Day									
Local Weather			(deg. C)		(deg. C)					
Observations	01	***	15.0	11.3	9.2	***	***	14.0	060	11.0
Weather Forecast	02	***	9.9	8.9	8.1	***	***	0.5	050	7.8
Weather Monitoring	03	***	14.1	11.3	8.7	***	***	0.0	060	7.8
Imagery	04	***	21.0	15.5	11.5	***	***	0.0	150	5.4
Computer Forecast	05	***	19.9	14.5	10.9	***	***	0.0	060	13.7
Products	06	***	17.1	13.4	10.4	***	***	0.0	060	33.2
MyObservatory	07	***	18.6	13.9	9.2	***	***	0.0	050	24.7
Met on Map	08	***	22.0	13.8	8.9	***	***	0.0	100	7.6
Tropical Cyclones	09	***	23.3	16.0	9.9	***	***	0.0	070	7.6
Aviation Weather Services	10	***	18.5	16.7	13.8	***	***	0.5	070	7.2
Marine Meteorological	11	***	25.0	19.4	16.7	***	***	0.0	140	8.4
Services	12	***	20.9	19.1	17.7	***	***	0.5	080	7.2
Weather Information for	13	***	26.3	22.4	19.7	***	***	5.5	120	8.6
Sports	14	***	27.1	21.1	15.1	***	***	0.0	050	10.9
Weather Information for	15	***	15.2	11.7	8.9	***	***	0.5	050	16.4
Communities	16	***	15.4	11.8	9.3	***	***	0.0	040	10.5
China Weather	17	***	13.9	11.9	10.6	***	***	0.5	050	10.3
World Weather	18	***	15.2	13.1	10.9	***	***	1.0	070	7.1
Climatological Information	19	***	15.8	14.6	13.7	***	***	9.5	060	7.6
Services	20	***	20.4	15.9	12.2	***	***	2.0	050	17.0
> Climate Watch	21	***	15.1	14.7	13.8	***	***	0.0	100	24.7
> Climate Statistics	22	***	15.4	15.2#	15.0	***	***	0.0#	110#	18.7#
> Climate Prediction	22	***	13.7	13.0#	12.3	***	***	0.0#	060#	10.0#
> Climate Knowledge	23	***	15.3	13.0#	12.3	***	***	0.0#	060	11.3
> Need More	24	***		1		***	***			
Information?	23	***	17.4	14.5	12.6	***	***	0.0	070	10.6
> Global Climate			17.9	14.9	13.2			0.0	060	4.8
Services	27	***	21.2	16.1	13.3	***	***	0.0	070	6.5
> Other Useful Links	28	***	23.5	16.6	11.7	***	***	0.0	140	4.3
Climate Forecast	29	***	26.2	17.7	12.7	***	***	0.0	060	10.1

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Climate Change

El Nino and La Nina

Earthquakes and Tsunamis

Astronomy, Space

Weather and

Geomagnetism

Time and Calendar

Radiation Monitoring,

Assessment and

\*\*\* unavailable

# data incomplete

### 3/14/2016

Automatic Weather Observations daily Extrac
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Protection
Educational Resources
Publications
Media and Information
Services
Audio/Video Webpage
Electronic services
World Meteorological Day
World Meteorological
Organization-Official City
Weather Forecasts
World Meteorological
Organization-Global
Severe Weather
Public forms
Contact & Support
Access to information
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Last revision date: <18 Feb 2016>

APPENDIX I IMPACT DAYTIME CONSTRUCTION NOISE MONITORING RESULTS AND THEIR GRAPHICAL PRESENTATION

#### Appendix I Impact Daytime Construction Noise Monitoring Results

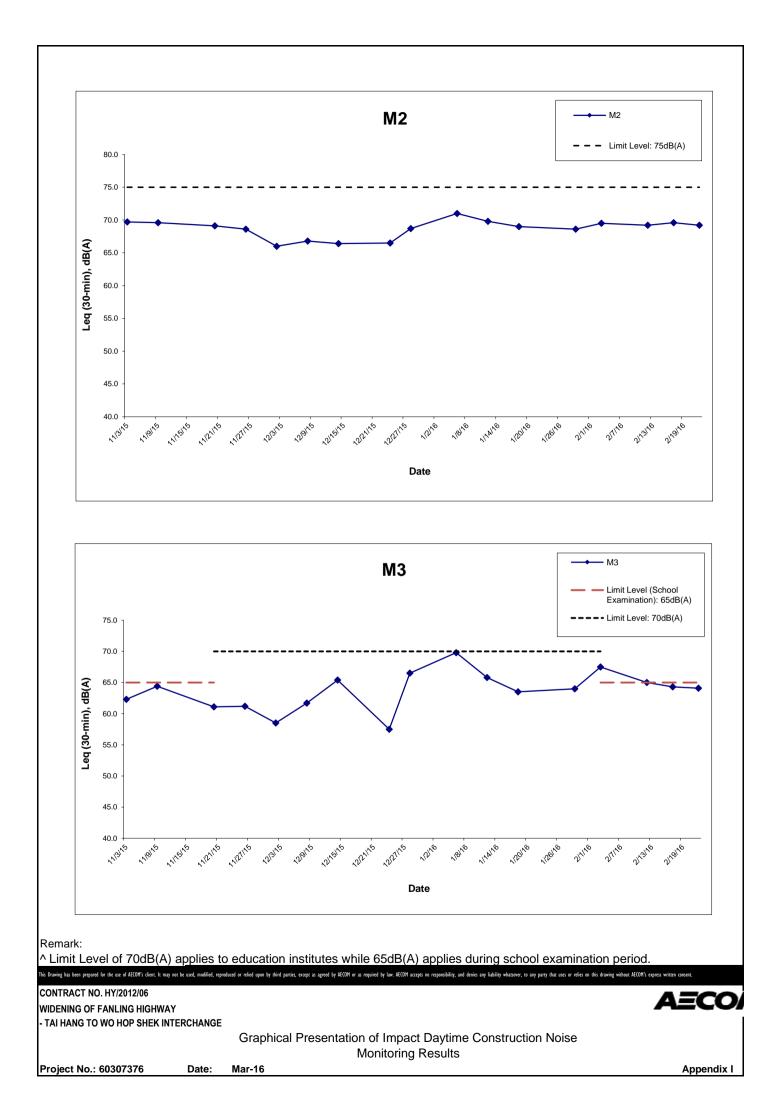
Location : M2 (West Tai Wo - Free Field) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	ured Noise Lev	vel for 30-min,	dB(A)	Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
3-Feb-16	14:40	69.5	71.3	67.5	75	N
12-Feb-16	10:36	69.2	71.1	66.0	75	N
17-Feb-16	10:48	69.6	71.1	68.9	75	N
22-Feb-16	10:06	69.2	74.0	66.4	75	N
	Min	69.2	71.1	66.0		
	Max	69.6	74.0	68.9		
	Average	69.4	72.1	67.4		

# Location : M3 (Fanling Government Secondary School- Façade) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	ured Noise Lev	vel for 30-min,	dB(A)	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
3-Feb-16	15:50	67.5	69.7	65.3	70	N
12-Feb-16	9:53	65.0	66.1	63.7	65	N
17-Feb-16	10:02	64.3	66.1	62.7	65	N
22-Feb-16	11:00	64.1	67.9	61.5	65	N
	Min	64.1	66.1	61.5		
	Max	67.5	69.7	65.3		
	Average	65.5	67.7	63.5		

\* +3dB(A) Façade effect correction included
 ^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



APPENDIX J EVENT ACTION PLAN

## Appendix J – Event Action Plan

### Event / Action Plan for Air Quality

Event		Actio	n	
	ET Leader	IEC	ER	Contractor
Action Level	·	•		·
Exceedance for one sample	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to dailv.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

### Event / Action Plan for Air Quality

Event		Actior	ı	
Action Level	ET Leader	IEC	ER	Contractor
Limit Level	·		·	·
Exceedance for one sample	<ol> <li>Identify source;</li> <li>Inform IEC, ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase frequency to daily;</li> <li>Analyse Contractor's working procedures to determine possible mitigation to be;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</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> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ul> <li>proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by ER until the exceedance is</li> </ul>

#### Event / Action Plan for Noise Impact

Event		Action	ı	
Limit Level	ET Leader	IEC	ER	Contractor
Action Level	<ol> <li>Notify IEC and the Contractor.</li> <li>Carry out investigation.</li> <li>Report the results of investigation to IEC and the Contractor.</li> <li>Discuss with the Contractor and formulate remedial measures.</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review with analysed results submitted by ET.</li> <li>Review the proposed remedial measures by the Contractor and advise ER accordingly.</li> <li>Supervise the implement of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC.</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol> <li>Notify, IEC, ER, EPD and the Contractor.</li> <li>Identify the source.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency.</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Inform IEC, ER, and EPD the causes &amp; actions taken for the exceedances.</li> <li>Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions.</li> <li>Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly.</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance.</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Resubmit proposals if problem still not under control.</li> <li>Stop the relevant activity of works as determined by the ER until the exceedance is abated.</li> </ol>

APPENDIX K SITE INSPECTION SUMMARIES



#### Inspection Information

Contract No.	HY/2012/06
Date:	2 February 2016
Time:	14:00
Inspection No.:	116

#### Non-compliance

Nil

Observations

Follow-up Observation(s)

- 1. The breaker at SA328 was wrapped with proper acoustic abating material. (Closed)
- 2. Mud trail was removed. The Contractor was reminded to adopt effective wheel washing mechanism to prevent any muddy trail or waste water generated from wheel washing from entering the public haul road. (Closed)

New Observation(s)

- 4. Mud Trails were observed near the entrance of works area SA320 and SA322. The Contractor should clear the mud trail and provide effective waste water intercepting mechanism to prevent muddy water from entering public haul road.
- 5. Insufficient wheel washing facilities were found at works area near Tai Heng Bridge. The Contractor should provide effective wheel washing facilities at the works area.

Reminder(s)

Nil

Remarks

	Name	Signature	Date
Prepared by	Isabella Yeung	Fe	12 February 2016
Checked by	Y W Fung		12 February 2016





### Site Inspection Summary

12 February 2016         14:00         on No.:       117         pliance         vions         low-up Observation(s)         d trails observed near the entrance of works area SA320 and SA322 were removed. The ntractor was reminded to adopt effective wheel washing mechanism to prevent any muddy trail or ste water generated from wheel washing from entering the public haul road. (Closed)         tal plates were observed laid at the site entrance for wheel washing. (Closed)         w Observation(s)
14:00         on No.:       117         pliance         tions         low-up Observation(s)         d trails observed near the entrance of works area SA320 and SA322 were removed. The ntractor was reminded to adopt effective wheel washing mechanism to prevent any muddy trail or ste water generated from wheel washing from entering the public haul road. (Closed)         tal plates were observed laid at the site entrance for wheel washing. (Closed)
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ntractor was reminded to adopt effective wheel washing mechanism to prevent any muddy trail or ste water generated from wheel washing from entering the public haul road. (Closed) tal plates were observed laid at the site entrance for wheel washing. (Closed)
w Observation(s)
d Trail was observed near the entrance of work area SA328. The Contractor should clear the muc I and provide effective waste water intercepting mechanism to prevent muddy water from entering plic haul road.
veral oil drums and chemical containers were observed on bare ground at NB49. The Contractor ould provide drip tray to the chemicals to prevent chemical leakage.
minder(s)
e Contractor was reminded to cover the stockpile properly.
n

#### Remarks

		/	
	Name	Signature	Date
Prepared by	Oscar Yip	A	15 February 2016
Checked by	Y W Fung		15 February 2016



EM&A Environmental Inspection Record WIDENING OF TOLO HIGHWAY (STAGE 2) BETWEEN TAI HANG AND WO HOP SHEK INTERCHANGE

#### Site Inspection Summary

#### Inspection Information

Contract No.	HY/2012/06
Date:	18 February 2016
Time:	13:30
Inspection No.:	118

#### Non-compliance

Nil

Observations

Follow-up Observation(s)

- 1. Mud trail observed at SA328 was removed. (Closed)
- 2. The oil drums and chemical containers at NB49 were removed. (Closed)

#### New Observation(s)

The Noise Emission Label (NEL) of an air compressor at SA340 was observed damaged. The 3. Contractor should replace the NEL in order to show the information clearly.

Reminder(s)

Nil.

#### Remarks

	Name	Signature	Date
Prepared by	Oscar Yip	ATO	19 February 2016
Checked by	Y W Fung		19 February 2016

WIDENING OF TOLO HIGHWAY (STAGE 2) BETWEEN TAI HANG AND WO HOP SHEK INTERCHANGE

#### **Site Inspection Summary**

#### Inspection Information

mspection monn	
Contract No.	HY/2012/06
Date:	23 February 2016
Time:	14:00
Inspection No.:	119

#### Non-compliance

Nil

Observations

Follow-up Observation(s)

1. The damaged NEL is replaced. (Closed)

#### New Observation(s)

- 2. The Contractor should improve the housekeeping.
- 3. NRMM label was found missing on the excavator. The Contractor should provide and affix a valid NRMM label for the excavator properly.
- 4. Stagnant water was observed. The Contractor should remove the stagnant water to prevent mosquitoes breeding.

Reminder(s)

Nil.

#### Remarks

	Name	Signature	Date
Prepared by	Oscar Yip	th	1 March 2016
Checked by	Y W Fung	MI-	1 March 2016

APPENDIX L STATISTICS ON COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

### Appendix L

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

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	- 0	5
	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
23	23 October	EPD referred an air complaint on 24 October 2014. A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which	Closed		
	2014	have piled up high stockpiles, causing serious dust nuisance to his house. The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up. The location of complaint is near Lamppost Location EB5717.			
	31 December 2014	EPD referred a water complaint on 31 December 2014. The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	25 March 2015	EPD referred a water complaint on 25 March 2015. The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses. The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0