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 December 2017

[1/2018]

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T +852 2828 5757 F +852 2827 1823 mottmac.hk 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/E Condition 3.3 – Submission of Monthly EM&A Report – December 2017 for the portion of Stage 2 works under Contract No. HY/2012/06

09 January 2018 By Fax (2805 5028) & Hand

We refer to the revised Monthly EM&A Report – December 2017 received on 05 January 2018 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – December 2017 (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 AECOM

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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, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.

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 three 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". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)".

Pursuant to the EP (EP-324/2008/E) 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 31 December 2017. As informed by the Contractor, construction activities of Contract No. HY/2012/06 in the reporting period were:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise Barrier
- Excavation
- Backfilling
- Drainage
- Foot Bridge demolition
- Bridge construction

As informed by the Contractor, construction activities of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in the reporting period were:

- Sheetpiling at Bay 9 to Bay 10
- Construction of footing for Bay 9 to Bay 10
- Construction of wall stem for Bay 8
- Backfilling to NB74 Bay 3 to Bay 7
- Construction of catchpits and drainage

## **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 Variation of Environmental Permits of EP-324/2008/A, EP-324/2008/B, EP-324/2008/C and EP-324/2008/D on 31 January 2012, 17 March 2014, 27 March 2015 and 27 August 2015 respectively. The current valid VEP was applied on 29 December 2016 and the VEP (EP-324/2008/E) was subsequently granted on 26 January 2017.
- 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". In addition, Contract No. "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project and "Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound" under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 "Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)".
- 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 Contract No. HY/2012/06).
- 1.1.7. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of Contract No. HY/2012/06. Chiu Hing Construction & Transportation Company Limited (Chiu Hing) was commissioned as the Contractor of Contract No. 02/HY/2015.
- 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 fiftieth 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 December 2017.

## 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 of [HY/2012/06]		Michael Tsang	9277 4956	2672 2501
(China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-
<b>ET</b> (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

 Table 1.1
 Contact Information of Key Personnel

## 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 of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:
  - Site clearance
  - Ground investigation
  - Pipe laying
  - Retaining wall construction
  - Noise Barrier
  - Excavation
  - Backfilling
  - Drainage
  - Foot Bridge demolition
  - Bridge construction

Details of the construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 carried out by the Contractor in this reporting period are listed below:

- Sheetpiling at Bay 9 to Bay 10
- Construction of footing for Bay 9 to Bay 10
- Construction of wall stem for Bay 8
- Backfilling to NB74 Bay 3 to Bay 7
- Construction of catchpits and drainage
- 1.4.3 The Construction Programme is shown in Appendix B.
- 1.4.4 The general layout plan of the Project site of Contract No. HY/2012/06 and Works Order Nos. CB128520-5 and CB128519-0 under 02/HY/2015 showing the contract areas are shown in Figure 1.1 and Figure 1.2 respectively.
- 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 1.3a.

## 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 December 2017 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
	outlining 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)	68.2	65.0 – 72.0	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)	60.7	39.0 – 97.1	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.

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 1.3a-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 December 2017 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	g Results in the Re	eporting Period
-----------	---------	-----------------	------------------	---------------------	-----------------

Location	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L <sub>eq</sub> (30 mins)	L <sub>eq</sub> (30 mins)	L <sub>eq (30 mins)</sub>
<b>M2*</b> (West Tai Wo)	69.1	67.8 - 69.8	75
M3 <sup>#</sup> (Fanling Government Secondary School)	65.5	60.5 – 67.8	65/70

<sup>\*+3</sup>dB(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 5, 13, 19 and 27 December 2017 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:

#### Contract No. HY/2012/06

#### Air Quality

- 4.1.4 Colour-faded NRMM label was observed at SA320. The Contractor was advised to ensure valid labels are provided for all equipment before operation.
- 4.1.5 Exposed slope without proper cover was observed at SA310. The Contractor was advised to cover the slope properly with impervious sheeting for dust suppression.
- 4.1.6 Inadequate watering for exposed area was observed at SA301 and SA320. The Contractor was advised to provide adequate watering regularly for dust suppression.

#### Noise

4.1.7 No adverse observation was identified in the reporting period.

## Water Quality

4.1.8 Silt and debris was found in drainage at SA310. The Contractor was advised to remove the materials and ensure flow of water without obstruction.

## Chemical and Waste Management

- 4.1.9 Chemical containers without drip tray were observed at SA320. The Contractor was advised to provide secondary containment to prevent potential leakage.
- 4.1.10 Excessive accumulation of construction wastes were observed at SA301. The Contractor was advised to remove the wastes regularly to keep the site clean and tidy.

## Landscape and Visual Impact

4.1.11 No adverse observation was identified in the reporting period.

#### Miscellaneous

4.1.12 No adverse observation was identified in the reporting period.

## Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

## Air Quality

4.1.13 Dusty materials were found near the vehicle exit point. The Contractor was advised to keep the vehicle exit point clear of dusty materials.

#### Noise

4.1.14 No adverse observation was identified in the reporting period.

#### Water Quality

4.1.15 No adverse observation was identified in the reporting period.

#### Chemical and Waste Management

4.1.16 Chemical containers without drip tray were observed. The Contractor was advised to provide secondary containment to prevent potential leakage.

#### Landscape and Visual Impact

4.1.17 No adverse observation was identified in the reporting period.

#### Miscellaneous

4.1.18 No adverse observation was identified in the reporting period.

# 4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 Contract No. HY/2012/06 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 of Contract No. HY/2012/06, 4,944 m<sup>3</sup> of inert C&D material was generated in the reporting month (3,418 m<sup>3</sup> disposed of as public fill to Tuen Mun 38, 1,526 m<sup>3</sup> of inert C&D materials was reused on site, 0 m<sup>3</sup> of inert C&D materials was reused in other projects and 0 m<sup>3</sup> was broken concrete). For C&D wastes, 100 m<sup>3</sup> of general refuse was disposed of at NENT landfill, 55 kg of paper/cardboard packaging, 833 kg of plastics and 0 kg of metals were collected by recycling Contractors, and 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 disposed as public fill	3,418 m <sup>3</sup>	Tuen Mun 38
Broken concrete	0 m <sup>3</sup>	Tuen Mun 38
C&D wastes disposed as general refuse	100 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	55 kg	Recycling Facilities
Plastics	833 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	1,526 m <sup>3</sup>	Site Area
C&D materials reused in other projects	0 m <sup>3</sup>	Other projects
Chemical wastes	0 kg	Licensed Contractors

## Table 4.1 Summary of Waste Flow Table for Contract No. HY/2012/06

- 4.2.4 As advised by the Contractor of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015, 37 m<sup>3</sup> of inert C&D material was generated in the reporting month (36 m<sup>3</sup> disposed of as public fill to Tuen Mun 38, 0 m<sup>3</sup> of inert C&D materials was reused on site, 0 m<sup>3</sup> of inert C&D materials was reused in other projects and 1 m<sup>3</sup> was broken concrete). For C&D wastes, 0 m<sup>3</sup> of general refuse was disposed of at NENT landfill, 1 kg of paper/cardboard packaging, 1 kg of plastics and 0 kg of metals were collected by recycling Contractors in the reporting period.
- 4.2.5 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.2.

# Table 4.2 Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos.CB128520-5 and CB128519-0)

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	36 m <sup>3</sup>	Tuen Mun 38
Broken concrete	1 m <sup>3</sup>	Tuen Mun 38
C&D wastes disposed as general refuse	0 m <sup>3</sup>	NENT Landfill
Paper/cardboard packaging	1 kg	Recycling Facilities
Plastics	1 kg	Recycling Facilities

Waste Type	Actual Amount	Disposal/Reuse Locations
Metals	0 kg	Recycling Facilities
C&D materials reused on site	0 m <sup>3</sup>	Site Area
C&D materials reused in other projects	0 m <sup>3</sup>	Other projects

4.2.6 The Contractors were 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 4.3.

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Remarks
EIAO	Environmental Permit	EP-324/2008/E	26/01/2017	N/A	HyD	
WPCO	Discharge	WT00017159- 2013	18/09/2013	30/09/2018	CSHK	
WFCO	License (Site)	WT00027968- 2017	22/5/2017	31/5/2022	Chiu Hing	
WDO	Chemical Waste Producer Registration	5213-722-C3822- 01	05/09/2013	N/A	CSHK	Chemical waste produced in Contract HY/2012/06
WDO	Billing Account for Disposal of	7017860	N/A	N/A	CSHK	Waste disposal in Contract HY/2012/06
WDO	Construction Waste	7024392	N/A	N/A	Chiu Hing	Waste disposal in Contract 02/HY/2015
	Notification Under Air Pollution	361991	15/07/2013	N/A	Chiu Hing	
APCO	Control (Construction Dust) Regulation	414360	08/03/2017	N/A	Chiu Hing	
		GW-RN0362-17	07/06/2017	02/12/2017	CSHK	Erection of metal scaffold Zone 2B
NCO	Construction Noise Permit	GW-RN0380-17	15/06/2017	14/12/2017	CSHK	Zone 4 Grouting for Piling Works near Wo Hop Shek Village
		GW-RN0469-17	25/07/2017	30/12/2017	СЅНК	Zone 4 Diversion of Watermain at Tai Wo Service Road West

 Table 4.3
 Summary of Environmental Licensing and Permit Status

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Kentarka
						near Wo Hop Shek
		GW-RN0625-17	03/10/2017	12/12/2017	СЅНК	Zone 4 Road Resurfacing at Northbound of Fanling Highway
		GW-RN0638-17	08/10/2017	03/12/2017	СЅНК	Zone 4 Road Marking Alternation at SB of Fanling Highway between CH23.4 and CH23.9
		GW-RN0640-17	12/10/2017	15/12/2017	СЅҤҜ	Zone 4 Installation of Steel Bridge for THB
		GW-RN0715-17	17/11/2017	26/01/2018	СЅНК	Zone 2 Installation of Streetlight Pole at SB of Fanling Highway between CH21.2 & 21.5
		GW-RN0717-17	18/11/2017	02/02/2018	СЅНК	Zone 2 Road Marking Alternation at SB of Fanling Highway between H21.6 & 22.5
		GW-RN0718-17	12/11/2017	03/12/2017	СЅНК	Zone 4 Road Marking Alternation for Slip Road Y
		GW-RN0750-17	28/11/17	07/02/2018	СЅНК	Zone 2 Installation of Tai Hang Footbridge over Fanling Highway
		GW-RN0759-17	03/12/2017	10/12/2017	CSHK	Zone 2 Concreting for TH FB3 & TH RP2
		GW-RN0760-17	30/11/2017	02/02/2018	СЅНК	Zone 2 Road Repavement at NB of Fanling Highway Between

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Remarks
						CH21.7 and CH22.5
		GW-RN0761-17	30/11/2017	07/02/2018	СЅНК	Zone 2 Demolition of Tai Hang Bridge
		GW-RN0779-17	10/12/2017	04/02/2018	СЅНК	Zone 4 Road Marking Alternation for Slip Road Y
		GW-RN0790-17	09/12/2017	22/03/2018	СЅНК	Zone 2A Deck Concreting for THFB
		GW-RN0792-17	17/12/2017	18/03/2018	СЅНК	Zone 2 Road Marking Alternation Between CH21.7 and CH22.5
		GW-RN0802-17	12/12/2017	22/03/2018	СЅНК	Zone 4 Road Marking Alternation at SB of Fanling Highway between CH23.4 and CH23.9
		GW-RN0804-17	21/12/2017	29/03/2018	СЅНК	Zone 1 Manhole Adjustment at Slip Rd from Hong Lok Yuen to Northbound of Fanling Highway
		GW-RN0814-17	21/12/2017	20/03/2018	CSHK	Zone 2B Installation of Temporary Tai Wo Footbridge
		GW-RN0826-17	29/12/2017	07/02/2018	СЅНК	Zone 2 Demolition of Tai Wo Footbridge

# 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 Contract No. HY/2012/06 in January 2018 will be:-
  - Site clearance
  - Ground investigation
  - Pipe laying
  - Retaining wall construction
  - Noise Barrier
  - Excavation
  - Backfilling
  - Drainage
  - Foot Bridge demolition
  - Bridge construction
  - Piling
- 5.1.2 The major construction works for Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in January 2018 will be:-
  - Construction of stem wall at NB74 Bay 8 to Bay 10
  - Erection of NB Posts and metal frame for BBI
  - Construction of catchpits and drainage pipes

## 5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in January 2018:-
  - 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 January 2018 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 December 2017. 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:

#### Contract No. HY/2012/06

#### Air Quality Impact

- The Contractor was advised to ensure valid NRMM labels are provided for all equipment before operation.
- The Contractor was advised to cover the exposed slope properly with impervious sheeting for dust suppression.
- The Contractor was advised to provide adequate watering regularly for exposed slope dust suppression.

#### Noise Impact

• No adverse observation was identified in the reporting period.

## Water Quality Impact

• The Contractor was advised to remove the silt and debris in drainage and ensure flow of water without obstruction.

## Chemical and Waste Management

- The Contractor was advised to provide secondary containment for chemical container to prevent potential leakage.
- The Contractor was advised to remove construction wastes regularly to keep the site clean and tidy.

## Landscape and Visual Impact.

• No adverse observation was identified in the reporting period.

#### Miscellaneous

• No adverse observation was identified in the reporting period.

## Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

#### Air Quality Impact

• The Contractor was advised to keep the vehicle exit point clear of dusty materials.

## Noise Impact

• No adverse observation was identified in the reporting period.

#### Water Quality Impact

• No adverse observation was identified in the reporting period.

#### Chemical and Waste Management

• The Contractor was advised to provide secondary containment for chemical container to prevent potential leakage.

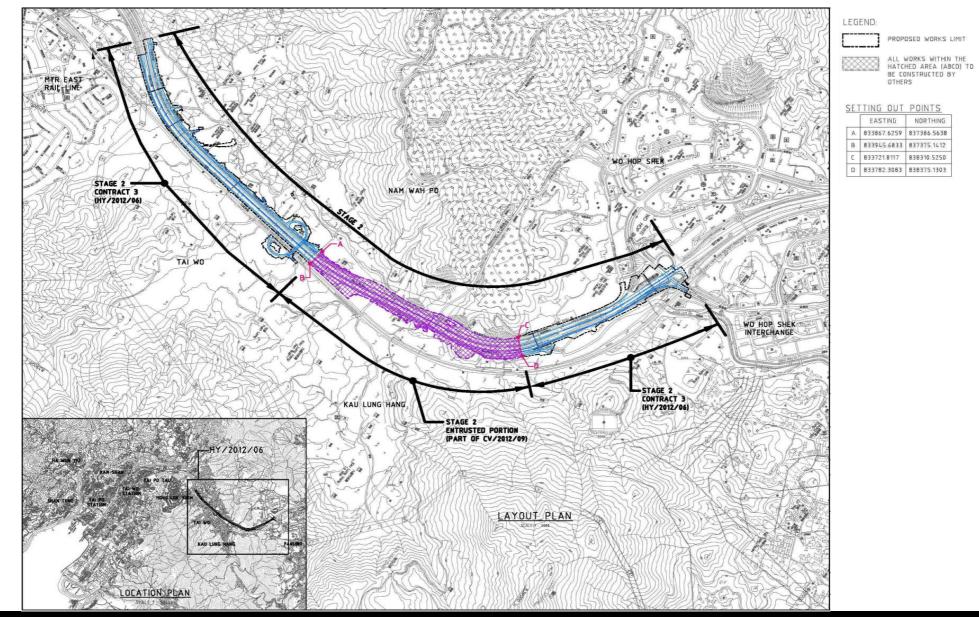
#### Landscape and Visual Impact.

• No adverse observation was identified in the reporting period.

#### Miscellaneous

• No adverse observation was identified in the reporting period.

FIGURES

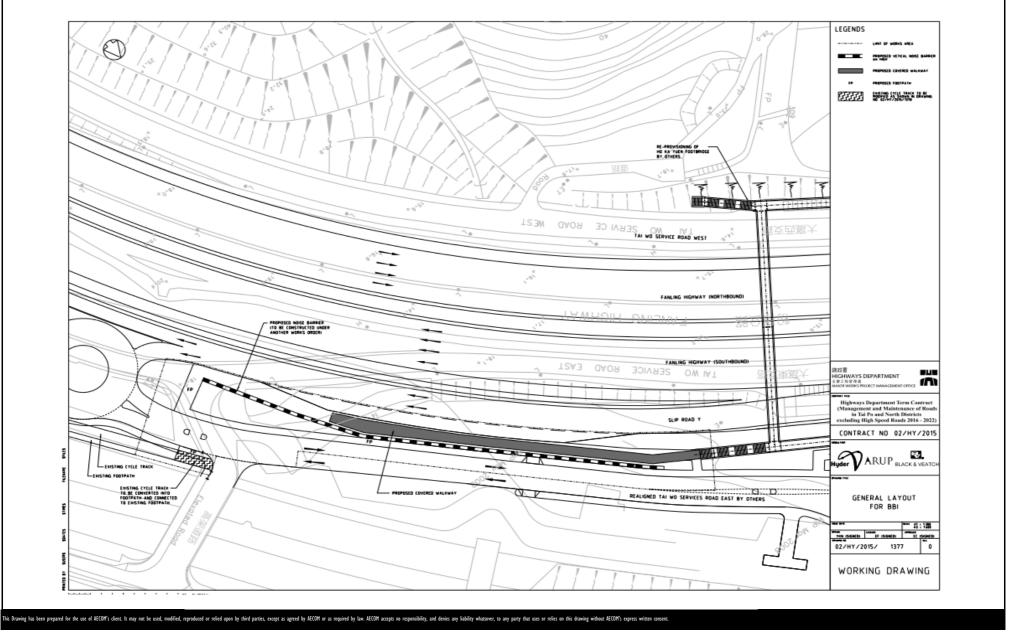


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



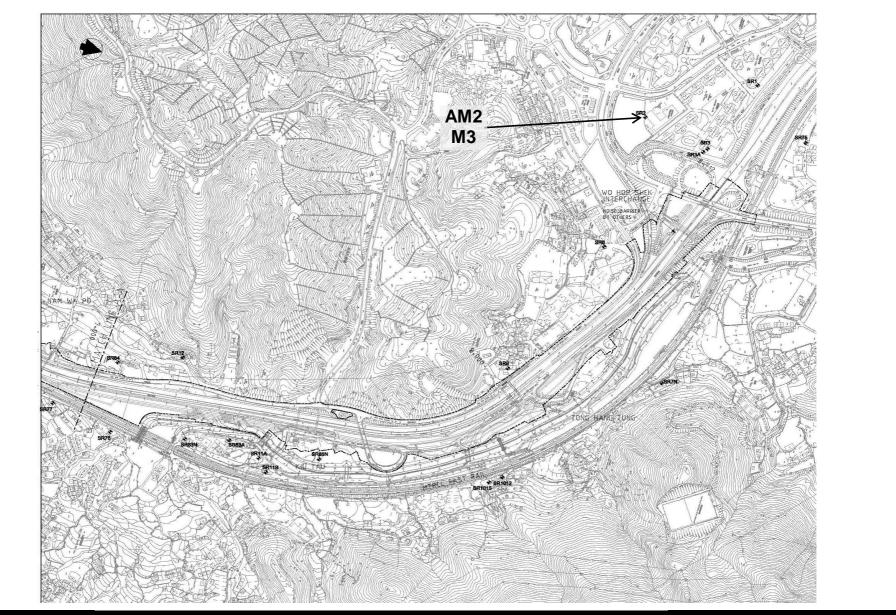
Layout Plan



CONTRACT NO. 02/HY/2015

PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



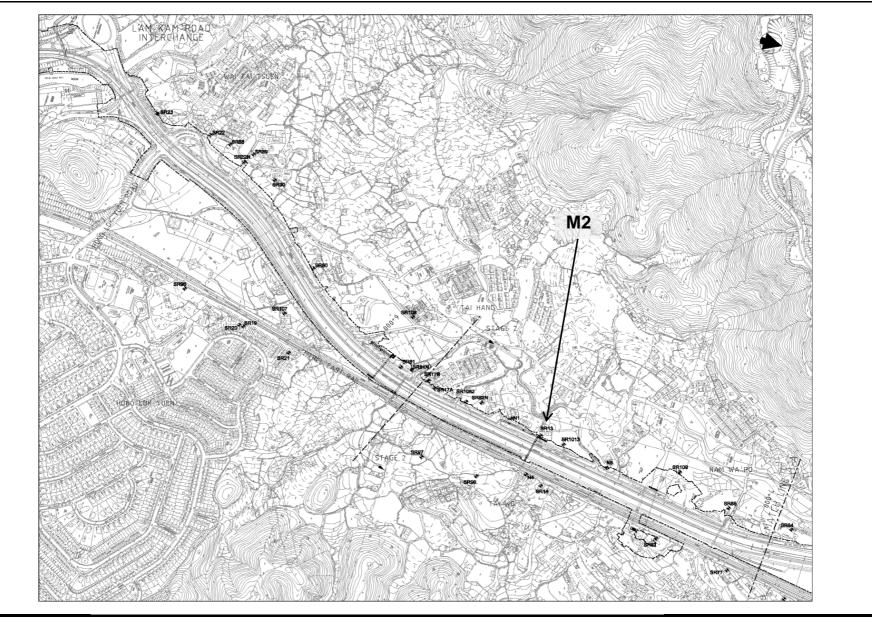


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Locations of Monitoring Station

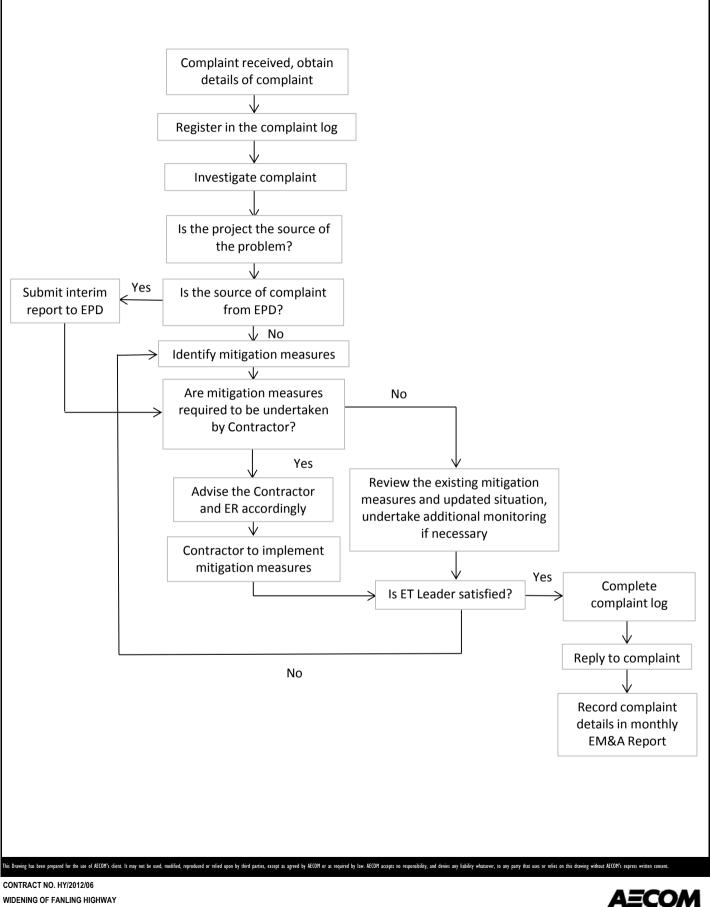


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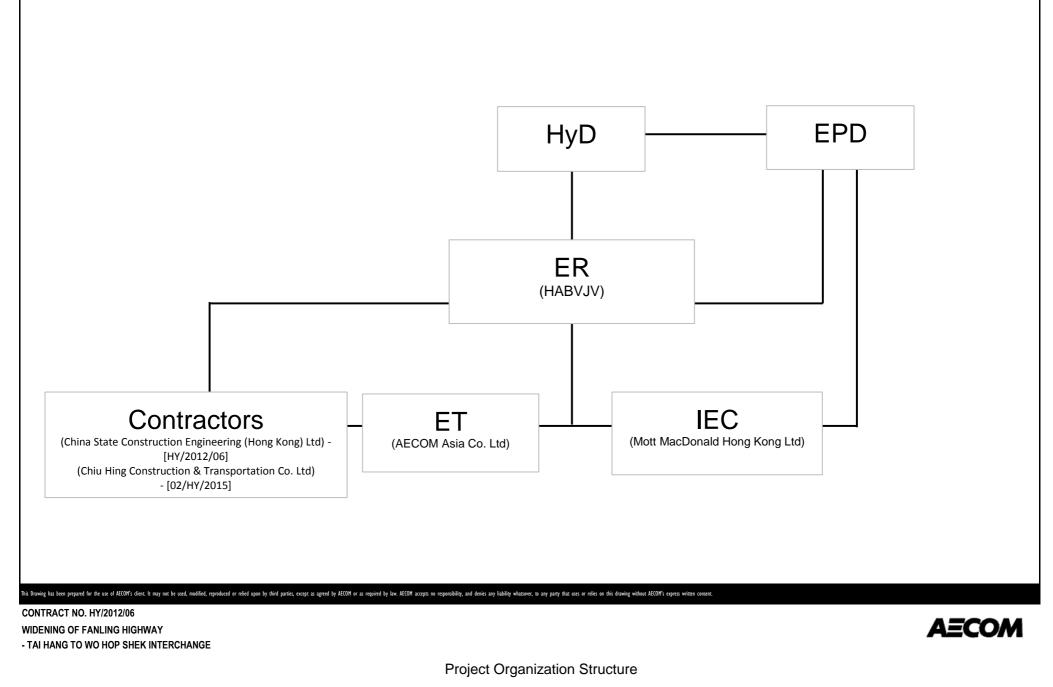


Locations of Monitoring Station



- TAI HANG TO WO HOP SHEK INTERCHANGE

APPENDIX A PROJECT ORGANIZATION STRUCTURE



APPENDIX B CONSTRUCTION PROGRAMMES

ty ID	Activity Name	Dur. %	Rem	Original		Ionth Rolling	Total				Page	
		Complete	Rem. Duration	Duration			Float		2017 Dec	Jan	2018 Feb	Mar
ontract C	ondition											
<b>Seneral</b> Contract Co	ndition											
Contract CO												
KD14	KD-14 1523d) - S4:Achievement: Rd widening of Fanling Highway @	0%	0	0		20-Dec-17	174			523d) - S4:Achievement: Rd		hway @ SBZ1
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Dec-17		932		♦ Site Area	SA323A (360d) (not require	ad)	
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Dec-17*		-1084			SA327 (180d)		
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Dec-17*		-886		Site Area	SA327A (730d)		
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Dec-17*		-751		Site Area	SA345 (0d)		
	h. 5640 to 5880)											
	er Along Fanling Highway	y N/B										
ND43D (Ch. Noise Barr	5640-5880)-FH N/B Side											
NB01210	NB43B-1 (0-100m) - Sheet piling & Excavation	0%	18	18	19-Jul-17 A	12-Jan-18	37					
NB01220	NB43B-1 - Footing & Wall Structure	0%	40	40	13-Jan-18	03-Mar-18	37					
NB01225	NB43B-1 (0-100m) - Drainage Works	0%	24	24	05-Mar-18	04-Apr-18	37					
NB01240	NB43B-1 - NB production	0%	45	45	03-Mar-18	17-Apr-18	398					
NB01260	NB43B-2 (100-200m) - Sheet piling & Excavation	0%	18	18	16-Nov-17 A	12-Jan-18	61					
NB01270	NB43B-2 - Footing & Wall Structure	0%	40	40	13-Jan-18	03-Mar-18	61					
NB01290	NB43B-2 - NB production	0%	45	45	03-Mar-18	17-Apr-18	398					
NB01320	NB43B-3 - Footing & Wall Structure	0%	40	40		07-Feb-18						
NB01340	NB43B-3 - NB production	0%	45	45	08-Feb-18	24-Mar-18	422					
	hway Construction											
Drainage & <mark>Ch 5640-58</mark>	Road Works								1 1 1 1			
RDZ11050	Z1 (Ch5640-5880) : Fanling Highway S/B - D&R works (lane 4)	0%	20	20	04-Jan-18	26-Jan-18	194					
RDZ11060	Z1 (Ch5640-5880) : Fanling	0%	20	20	17-Mar-18	13-Apr-18	194		· 			
ONE 2 (C	Highway S/B - D&R works (lane 3) h. 5880 to 6930)								1 1 1 1 1			
eneral												
ORM Propos									1 1 1 1 1			
DRM Propo ADVZ20280	TTA for NB construction (Shift	0%	30	30	13-Jan-18	20-Feb-18	-22					
ADVZ20290	TWSR-W to Temp road) NB at FLHY N/B construction Period	0%	249	249	21-Feb-18	20-Dec-18	-22		 		· · · · · · · · · · · · · · · · · · ·	
ADVZ20310	(Zone 2) NB at FLHY N/B construction Period	18.39%	142	174	05-Oct-17 A	16-Jun-18	139		V			
loiso Barri	(Zone 1) ier Along TWSR-West and			itios					- - 			
						19-Jan-18	511				1	
	er Along Fanling Highway					To call To	511					
Site Clearar	ier Along Fanling Highway nce & Demolition of Existing S						311					
Site Clearar	nce & Demolition of Existing S		0	0	21-Feb-18		-22				♦ Exi	sting Utility c
Site Clearar <mark>General</mark>	Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH	Structure	0 30	0 30	21-Feb-18 13-Jan-18	20-Feb-18	-22				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 NB43A (Ch.:	Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH N/B) 5880-6060)-FH N/B Side	Structure 0%	-	-			-22				∳ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 NB43A (Ch.:	Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH N/B) 5880-6060)-FH N/B Side	Structure 0%	-	-			-22 -22				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 NB43A (Ch.: Noise Barr	Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH N/B) 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m -18no)-1 rigs	O% 0%	30	30	13-Jan-18 21-Feb-18	20-Feb-18	-22 -22 -22				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch. Noise Barr NB001080	Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH N/B) 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m	O%       O%       0%       0%	30	30 27	13-Jan-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18	-22 -22 -22 -22 179				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch. Noise Barr NB001080 NB01520	Acce & Demolition of Existing S Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH N/B) 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m -18no)-1 rias NB43A-1 - Footing & Wall Structure	O%           0%           0%           0%           0%           0%           0%	30 27 60	30 27 60	13-Jan-18 21-Feb-18 25-Nov-17 A	20-Feb-18 23-Mar-18 06-Mar-18	-22 -22 -22 -22 179 370				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 IB43A (Ch. Noise Barr NB001080 NB01520 NB01520 NB01540 NB01560	Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH N/B) 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m -18no)-1 rigs NB43A-1 - Footing & Wall Structure NB43A-1 - NB production	Structure           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%	30 27 60 45	30 27 60 45	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18	-22 -22 -22 -22 179 370 29				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 IB43A (Ch. Noise Barr NB001080 NB01520 NB01540 NB01560 NB01570	Existing Utility cable disconnected Existing Utility cable disconnected & TTA for NB complete Site Clearance (for NB Along FH N/B) 5880-6060)-FH N/B Side ier Works NB43A- ID1-2 piling (0.19m -18no)-1 rias NB43A-1 - Footing & Wall Structure NB43A-2 (86.8-166.7m) - Sheet piling & Excavation NB43A-2 - Footing & Wall Structure	O%         O%           0%         0%           0%         0%           0%         0%           0%         0%           0%         0%           0%         0%	30 27 60 45 18	30 27 60 45 18	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18	-22 -22 -22 -22 179 370 29				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 IB43A (Ch.: Noise Barr NB01520 NB01520 NB01540 NB01560 NB01570 IB50 (Ch.60 Noise Barr	Acce & Demolition of Existing S         Existing Utility cable disconnected         & TTA for NB complete         Site Clearance (for NB Along FH         N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m         -18no)-1 rigs         NB43A-1 - Footing & Wall Structure         NB43A-2 (86.8-166.7m) - Sheet         piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works	0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%	30 27 60 45 18 60	30 27 60 45 18 60	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18	-22 -22 -22 179 370 29 29 29				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20130 JB43A (Ch. Noise Barr NB001080 NB01520 NB01520 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB001150	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 -piling (0.19m -28no)	O%         O%           0%         0%           0%         0%           0%         0%           0%         0%           0%         0%           0%         0%	30 27 60 45 18	30 27 60 45 18	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18	-22 -22 -22 179 370 29 29 29				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 IB43A (Ch.: Noise Barr NB01520 NB01520 NB01540 NB01550 IB50 (Ch.60 Noise Barr NB001150 IB50A (Ch.	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A- ID1-2 piling (0.19m - 18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 -piling (0.19m -28no)         6130-6450)-FH N/B Side	0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%	30 27 60 45 18 60	30 27 60 45 18 60	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18	-22 -22 -22 179 370 29 29 29				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 IB43A (Ch.: Noise Barr NB01520 NB01520 NB01540 NB01570 IB50 (Ch.60 Noise Barr NB001150 IB50A (Ch.: Noise Barr	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) &	0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%           0%	30 27 60 45 18 60	30 27 60 45 18 60	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18	-22 -22 -22 179 370 29 29 -1				♦ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch. Noise Barr NB01520 NB01520 NB01550 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB001150 JB50A (Ch. Noise Barr NB001654	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m - 18n0)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 -piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works	O%	30 27 60 45 18 60 42	30 27 60 45 18 60 42	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18	-22 -22 -22 179 370 29 29 -1				◆ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20130 ADVZ20140 JB43A (Ch.: Noise Barr NB01520 NB01520 NB01540 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01654 JB60 (Ch.60 Noise Barr	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works	O%	30 27 60 45 18 60 42 20	30 27 60 45 18 60 42 42 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 13-Mar-18	-22 -22 179 370 29 29 -1 -1				◆ Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch.) Noise Barr NB01520 NB01520 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01654 JB60 (Ch.6- Noise Barr NB01910	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling	Structure         0%	30 30 27 60 45 18 60 42 20 20	30 27 60 45 18 60 42 42 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18 14-Apr-18 15-Mar-18	-22 -22 -22 179 370 29 29 29 -1 -1 -15 33					sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 IB43A (Ch.: Noise Barr NB01520 NB01520 NB01540 NB01560 NB01570 IB50 (Ch.60 Noise Barr NB01150 IB50A (Ch.60 Noise Barr NB01654 IB60 (Ch.60 Noise Barr NB01910 NB01980	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 -piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling	O%	30 27 60 45 18 60 42 20	30 27 60 45 18 60 42 42 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18 14-Apr-18 15-Mar-18	-22 -22 -22 179 370 29 29 29 -1 -1 -15 33					sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch.: Noise Barr NB01520 NB01520 NB01540 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01654 JB60 (Ch.6- Noise Barr NB01910 NB01980 ridge Con	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling         NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling	Structure         0%	30 30 27 60 45 18 60 42 20 20	30 27 60 45 18 60 42 42 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18 14-Apr-18 15-Mar-18	-22 -22 -22 179 370 29 29 29 -1 -1 -15 33					sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch.) Noise Barr NB01520 NB01520 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01150 JB50A (Ch.) Noise Barr NB01654 JB60 (Ch.60 Noise Barr NB01910 NB01980 ridge Con New Tai Har	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 -piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling	Structure         0%	30 30 27 60 45 18 60 42 20 20	30 27 60 45 18 60 42 42 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18 14-Apr-18 15-Mar-18	-22 -22 -22 179 370 29 29 29 -1 -1 -15 33					sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch.) Noise Barr NB01520 NB01520 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01150 JB50A (Ch.) Noise Barr NB01654 JB60 (Ch.60 Noise Barr NB01910 NB01980 ridge Con New Tai Har	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling         NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling	Structure         0%	30 30 27 60 45 18 60 42 20 20	30 27 60 45 18 60 42 42 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 13-Mar-18 29-May-18 14-Apr-18 15-Mar-18	-22 -22 179 370 29 29 -1 -15 3 3 17				• Exi	sting Utility c
Site Clearar General ADVZ20130 ADVZ20140 JB43A (Ch.: Noise Barr NB01520 NB01520 NB01540 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01150 JB50A (Ch. Noise Barr NB01654 JB60 (Ch.60 Noise Barr NB01910 NB01980 ridge Con JB50A Ch.60 Noise Barr NB01910 NB01980 ridge Con JB60 Sarr JHBF0665	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB504 (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         NB60 (192-300m)(NB60/16-25, 0.19m -48nos) Piling     <	Structure         0%	30 30 27 60 45 18 60 42 20 227 72 27 72	30 27 60 45 18 60 42 20 20 27 72 27 72	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 14-Apr-18 15-Mar-18 23-Mar-18 21-May-18	-22 -22 179 370 29 29 -1 -15 3 17 3 17				• Exi	sting Utility c
Site Clearar ADVZ20130 ADVZ20130 ADVZ20140 JB43A (Ch. Noise Barr NB01520 NB01520 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01150 JB50A (Ch.60 Noise Barr NB01654 JB60 (Ch.66 Noise Barr NB01910 NB01980 ridge Con NB01980 ridge Con NB01980 ridge Con NB01980 THBF0665	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         Diversion of existing pedestrian from existing to proposed footbrdige         Diversion of existing pedestrian from existing to proposed footbrdige         Diversion of existing pedestrian from existing to proposed footbrdige	Structure         0%	30 30 27 60 45 18 60 42 20 20 27 72 20 1 1 64	30 27 60 45 18 60 42 20 20 27 27 27 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 13-Mar-18 23-Mar-18 23-Mar-18 21-May-18 03-Feb-18	-22 -22 179 370 29 29 -1 -15 3 17 -15 3 17					
Site Clearar ADVZ20130 ADVZ20130 ADVZ20140 NB43A (Ch.: Noise Barr NB01520 NB01520 NB01560 NB01570 NB50 (Ch.60 Noise Barr NB01150 NB50A (Ch.: Noise Barr NB01654 NB60 (Ch.64 Noise Barr NB01910 NB60 (Ch.64 Noise Barr NB01950 Sridge Con New Tai Har General THBF0625 TWSR-Wes THBF0625	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rigs         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         Struction         Ng Footbridge         Diversion of existing pedestrian from existing to proposed footbridge         Struction         Bridge Structure complete (THFB-TWSR-W side)	Structure         0%	30 30 27 60 45 18 60 42 20 227 72 27 72	30 27 60 45 18 60 42 20 20 27 72 27 72	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 14-Apr-18 15-Mar-18 23-Mar-18 21-May-18	-22 -22 179 370 29 29 -1 -15 3 17 -15 3 17					
Site Clearar ADVZ20130 ADVZ20130 ADVZ20140 NB43A (Ch.: Noise Barr NB01520 NB01520 NB01560 NB01570 NB50 (Ch.60 Noise Barr NB01150 NB50A (Ch.: Noise Barr NB01654 NB60 (Ch.64 Noise Barr NB01910 NB60 (Ch.64 Noise Barr NB01910 NB01980 ridge Con Jew Tai Har General THBF0625 TWSR-Wes THBF0625	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rigs         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         Struction         Ng Footbridge         Diversion of existing pedestrian from existing to proposed footbridge         Struction         Ng Footbridge         Diversion of existing pedestrian from existing to proposed foot	Structure         0%	30 30 27 60 45 18 60 42 20 20 27 72 20 1 1 64	30 27 60 45 18 60 42 20 20 27 27 27 20	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 14-Mar-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 13-Mar-18 23-Mar-18 23-Mar-18 21-May-18 03-Feb-18	-22 -22 179 370 29 29 -1 -1 -15 3 17 -15 3 17 -18 337 337					
Site Clearar General ADVZ20130 ADVZ20130 ADVZ20140 JB43A (Ch. Noise Barr NB01520 NB01520 NB01560 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB001150 JB50A (Ch.60 Noise Barr NB01910 JB60 (Ch.60 Noise Barr NB01910 IB60 (Ch.60 Noise Barr NB01910 NB01980 ridge Con JB60 Ch.60 Noise Barr NB01910 NB01980 ridge Con JB60 Ch.60 Noise Barr NB01910 NB01980 ridge Con JB60 Ch.60 NB01980 THBF0625 Crossing F	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling	Structure         0%	30 30 27 60 45 18 60 42 20 20 27 72 20 27 72 1 1 64 0	30 27 60 45 18 60 42 20 27 72 27 72 1 203 0	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 13-Mar-18 23-Mar-18 23-Mar-18 23-Mar-18 03-Feb-18 10-Mar-18	-22 -22 179 370 29 29 -1 -15 3 17 -15 3 17 -15 3 3 17 -18 337 337			26-Jan-18 ♦ Bri		0-Mar-18 ◆
Site Clearar General ADVZ20130 ADVZ20130 ADVZ20140 JB43A (Ch.) Noise Barr NB01520 NB01520 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01150 JB50A (Ch.) Noise Barr NB01910 NB01980 ridge Com JB60 (Ch.66 Noise Barr NB01910 NB01980 ridge Com Jew Tai Har General THBF0625 Crossing F THBF0590 THBF0600	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         Diversion of existing pedestrian from existing to proposed footbrdige         Struction         ng Footbridge         Diversion of existing pedestrian from existing to proposed footbrdige         string b Structure complete (THFB-TWSR-W side)         anling Highway Section <tr< td=""><td>Structure         0%</td><td>30 30 27 60 45 18 60 42 20 227 72 20 27 72 20 1 64 0 30</td><td>30 27 60 45 18 60 42 20 227 72 27 72 20 27 72 20 30</td><td>13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18</td><td>20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 13-Mar-18 23-Mar-18 23-Mar-18 21-May-18 10-Mar-18 10-Mar-18</td><td>-22 -22 179 370 29 29 -1 -15 3 17 -15 3 17 -15 3 3 17 -18 337 337</td><td></td><td></td><td>26-Jan-18 • Bri</td><td></td><td>0-Mar-18 ◆</td></tr<>	Structure         0%	30 30 27 60 45 18 60 42 20 227 72 20 27 72 20 1 64 0 30	30 27 60 45 18 60 42 20 227 72 27 72 20 27 72 20 30	13-Jan-18 21-Feb-18 25-Nov-17 A 07-Mar-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18 21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 13-Mar-18 23-Mar-18 23-Mar-18 21-May-18 10-Mar-18 10-Mar-18	-22 -22 179 370 29 29 -1 -15 3 17 -15 3 17 -15 3 3 17 -18 337 337			26-Jan-18 • Bri		0-Mar-18 ◆
Site Clearar ADVZ20130 ADVZ20130 ADVZ20140 JB43A (Ch. Noise Barr NB01520 NB01520 NB01540 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB001150 JB50A (Ch.60 Noise Barr NB01654 JB60 (Ch.66 Noise Barr NB01980 Sidge Con NB01980 Sridge Con Sridge Con NB01980 Sridge Con Sridge Con Sri	cce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling	Structure         0%	30 30 27 60 45 18 60 42 20 227 72 20 27 72 20 1 64 0 30	30 27 60 45 18 60 42 20 227 72 27 72 20 27 72 20 30	13-Jan-18         21-Feb-18         25-Nov-17 A         07-Mar-18         21-Feb-18         21-Feb-18	20-Feb-18 20-Feb-18 06-Mar-18 20-Apr-18 20-Apr-18 20-Apr-18 20-Apr-18 13-Mar-18 29-May-18 23-Mar-18 23-Mar-18 23-Mar-18 10-Mar-18 10-Mar-18 26-Jan-18 26-Jan-18	-22 -22 179 370 29 29 -1 -1 -15 3 17 -15 3 17 -18 337 337 337 337			26-Jan-18 ♦ Bri	l dge Structure complete	0-Mar-18 ◆
Site Clearar ADVZ20130 ADVZ20130 ADVZ20140 NB43A (Ch. Noise Barr NB01520 NB01520 NB01560 NB01570 NB50 (Ch.60 Noise Barr NB01150 NB50A (Ch. Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.67 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.67 Noise Barr NB01910 NB60 (Ch.67 Noise Barr NB01910 NB60 (Ch.67 NOISE Barr NB01954 Sidge Com NB60 (Ch.67 NOISE Barr NB01950 THBF0655 TWSR-Wes THBF0625 Crossing F THBF0590 THBF0600	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-ID1-2 piling (0.19m -18no)-1 rias         NB43A-ID1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 -piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling	Structure         0%	30 30 27 60 45 18 60 42 20 227 72 20 27 72 20 1 64 0 30	30 27 60 45 18 60 42 20 227 72 27 72 20 27 72 20 30	13-Jan-18         21-Feb-18         25-Nov-17 A         07-Mar-18         21-Feb-18         21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 13-Mar-18 23-Mar-18 23-Mar-18 21-May-18 10-Mar-18 10-Mar-18	-22 -22 179 370 29 29 -1 -1 -15 3 17 -15 3 17 -18 337 337 337 337		2/06	26-Jan-18 ♦ Bri	I dge Structure complete	0-Mar-18 ◆
Site Clearar ADVZ20130 ADVZ20130 ADVZ20140 NB43A (Ch. Noise Barr NB01520 NB01520 NB01570 NB50 (Ch.60 Noise Barr NB01150 NB50A (Ch. Noise Barr NB01150 NB50A (Ch.60 Noise Barr NB01654 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01910 NB60 (Ch.66 Noise Barr NB01950 THBF0625 THBF0625 THBF0620 THBF0620 THBF0620 THBF0620 THBF0620 THBF0620 THBF0620	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         NB60 ID3-2 (174-192m) 0.19m -18nos Pil	Structure         0%	30 30 27 60 45 18 60 42 20 20 27 72 20 27 72 20 42 20 42 20 42 20 42 20 42 20 42 42 20 42 42 42 42 42 42 42 42 42 42 42 44 42 44 44	30 27 60 45 18 60 42 20 27 72 20 1 203 0 30 0 0	13-Jan-18         21-Feb-18         25-Nov-17 A         07-Mar-18         21-Feb-18         21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 29-May-18 23-Mar-18 23-Mar-18 23-Mar-18 23-Mar-18 10-Mar-18 10-Mar-18 26-Jan-18 26-Jan-18	-22 -22 179 370 29 29 -1 -15 3 17 -15 3 17 -18 337 337 337 337 337 337		2/06 D Wo Hop Shek Inte		dge Structure complete	Revision WP Rev 1A WP Rev 2
Site Clearar ADVZ20130 ADVZ20130 ADVZ20140 JB43A (Ch. Noise Barr NB01520 NB01520 NB01540 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB01150 NB50A (Ch. Noise Barr NB01654 JB60 (Ch.66 Noise Barr NB01910 NB61980 Fidge Com NB01910 NB01980 Fidge Com NB01910 NB01980 Fidge Com NB01910 NB01980 Fidge Com NB01910 NB01980 Fidge Com NB01910 NB01980 Fidge Com NB01950 THBF0625 TWSR-Wes THBF0625 THBF0620 THBF0620 THBF0600 THBF0600	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rias         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 A (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m -18nos Piling         Struction         Ng Footbridge         Diversion of existing pedestrian from existing to proposed footbrdige         Structure complete (THFB-TWSR-W side)	Structure         0%	30 30 27 60 45 18 60 42 20 20 27 72 20 27 72 20 42 20 42 20 42 20 42 20 42 20 42 42 20 42 42 42 42 42 42 42 42 42 42 42 44 42 44 44	30 27 60 45 18 60 42 20 27 72 20 1 203 0 30 0 0	13-Jan-18         21-Feb-18         25-Nov-17 A         07-Mar-18         21-Feb-18         14-Mar-18         21-Feb-18         22-Feb-17         21-Feb-18         21-Feb-18         21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 29-May-18 23-Mar-18 23-Mar-18 23-Mar-18 23-Mar-18 10-Mar-18 10-Mar-18 26-Jan-18 26-Jan-18 26-Jan-18	-22 -22 179 370 29 29 -1 -1 -15 3 17 -15 3 17 -18 337 337 337 337 337 337 337 337 337 33	lang to	o Wo Hop Shek Inte		dge Structure complete	0-Mar-18 ◆ (THFB-Cross Revision WP Rev 1A
Site Clearar ADV220130 ADV220130 ADV220140 JB43A (Ch. Noise Barr NB001520 NB01520 NB01520 NB01560 NB01570 JB50 (Ch.60 Noise Barr NB001150 JB50A (Ch. Noise Barr NB01910 NB50A (Ch.60 Noise Barr NB01910 NB60 (Ch.64 Noise Barr NB01910 NB60 (Ch.64 Noise Barr NB01910 NB01980 ridge Com NB01980 ridge Com Sew Tai Har General THBF0625 TWSR-Wes THBF0625 Crossing F THBF0590 THBF0620 THBF0620 THBF0625	Acce & Demolition of Existing S         Existing Utility cable disconnected & TTA for NB complete         Site Clearance (for NB Along FH N/B)         5880-6060)-FH N/B Side         ier Works         NB43A-1D1-2 piling (0.19m -18no)-1 rigs         NB43A-1 - Footing & Wall Structure         NB43A-1 - NB production         NB43A-2 (86.8-166.7m) - Sheet piling & Excavation         NB43A-2 - Footing & Wall Structure         060-6130)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 - piling (0.19m -28no)         6130-6450)-FH N/B Side         ier Works         NB50 (132-228m)(NB50A/12-20) & FVMS1 Pre-drilling         450-6920)-FH N/B Side         ier Works         NB60 ID3-2 (174-192m) 0.19m         -18nos Piling         Diversion of existing pedestrian from existing to proposed footbridge         Diversion of existing pedestrian from existing to proposed footbrid	Structure         0%	30 30 27 60 45 18 60 42 20 20 27 72 20 27 72 20 42 20 42 20 42 20 42 20 42 20 42 42 20 42 42 42 42 42 42 42 42 42 42 42 44 42 44 44	30 27 60 45 18 60 42 20 27 72 20 1 203 0 30 0 0	13-Jan-18         21-Feb-18         25-Nov-17 A         07-Mar-18         21-Feb-18         14-Mar-18         21-Feb-18         22-Feb-17         21-Feb-18         21-Feb-18         21-Feb-18	20-Feb-18 23-Mar-18 06-Mar-18 20-Apr-18 20-Apr-18 29-May-18 29-May-18 29-May-18 23-Mar-18 23-Mar-18 23-Mar-18 23-Mar-18 10-Mar-18 10-Mar-18 26-Jan-18 26-Jan-18 26-Jan-18	-22 -22 179 370 29 29 -1 -1 -15 3 17 -15 3 17 -18 337 337 337 337 337 337 337 337 337 33	lang to			I           I	Co-Mar-18 ◆ CTHFB-Cross Revision WP Rev 1A WP Rev 2 WP Rev 3

( ID	Activity Name	Dur. % Complete	Rem. Duration	Original		Finish	Total Float		2017		2018	
THBF0470	THAB1 - pile cap & abutment wall	79.91%	Uuration 45	224	21-Nov-16 A	16-Apr 19			Dec	Jan	Feb	Mar
	· · ·				20-Dec-17	•						
THBF0780	Modified existing column head of existing footbridge	0%	14	14		08-Jan-18		;				
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	22	22	09-Jan-18	02-Feb-18						
THBF0800	ABWF work	0%	30	30	03-Feb-18	13-Mar-18	335					
<mark>_ift at TWS</mark> I L1530	R-W Side Structural Laminated glass wall	0%	30	30	20-Dec-17	26 Jan 19	269					
	installation	0%				26-Jan-18						
L1550	Metal cover on RC platform	0%	30	30	20-Dec-17	26-Jan-18						
L1555	Glass canopy on ground level	0%	30	30	27-Jan-18	06-Mar-18	341					
L1560	Lift installation (NF115)	0%	70	70	27-Jan-18	26-Apr-18	268					
L1590	E&M and Finishes work	0%	120	120	27-Jan-18	27-Jun-18	251					
L1600	CLP Power available (by CLP)	92.97%	32	455	21-Jun-16 A	20-Jan-18	423					
_ift at FLHY	(S/B											
L1370	Lift shaft & roof	84.72%	46	301	20-Sep-16 A	14-Feb-18	194					
L1380	Structural Laminated glass wall installation	0%	30	30	15-Feb-18	24-Mar-18	224					
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	15-Feb-18	24-Mar-18	194					
L1450	CLP Power available (by CLP)	93.22%	33	487	21-Jun-16 A	21-Jan-18	424					
emolition of	f Existing Tai Hang Footbridg	е										
<b>FWSR-West</b>	t/ FL Highway N/B Side See	ction		0.5		00.4	075					
	Demolish existing Tai Hang footbridge (TWSR-W side)	0%	60	60	05-Feb-18	23-Apr-18	278					
Crossing Fa Z2.THF.1090	anling Highway Section Erect Temp platform for bridge	50%	30	60	18-Dec-17 A	26-lan-10	-12					
	demolition											
Z2.THF.1100	Demolish existing Tai Hang Footbridge	0%	2	2	03-Feb-18	05-Feb-18					· · · · · · · · · · · · · · · · · · ·	
Z2.THF.1110	Removal of temporary platform	0%	4	4	06-Feb-18	09-Feb-18						
Z2.THF.1130	Demolish remaining column	0%	6	6	06-Feb-18	12-Feb-18	-18					
lew Tai Wo I	Footbridge											
General TWFB1090	Steel Bridge prefabrication (TWFB)	88.92%	37	334	15-Aug-16 A	03-Feb-18	229					
TWFB1100	Steel Bridge available on site	00.32 %	0	0	05-Feb-18		229				♦ Steel Bridge availa	ble on site (T
	(TWFB)		0	J			-23					
TWFB1390	t/ FL Highway N/B Side See Finishes Work	26.25%	59	80	20-May-17 A	05-Mar-18	328					
TWFB1400	Bridge Structure complete	0%	0	0		05-Mar-18					05-Mar	-18 ♦ Bridg
	(TWFB-TWSR-W side)		-	-								
TWFB1480	FL Highway S/B Side Sect Precautionary work for MTRC I&P	1 <b>011</b> 0%	45	45	20-Dec-17	13-Feb-18	128					
TWFB1550	area TWP3 - Pre-bored H pile (6 nos)	0%	18	18	14-Feb-18	09-Mar-18	128					
TWFB1570	TWP3 - Pile cap, Pier and Pier Head	0%	75	75	10-Mar-18	12-Jun-18	128					
Lift at TWS												
L1670	Lift shaft & roof	90.37%	34	353	21-Jun-16 A	31-Jan-18	173					
L1680	Structural Laminated glass wall	0%	30	30	01-Feb-18	10-Mar-18	216					
L1690	installation RC Link slab connect to bridge	0%	30	30	01-Feb-18	10-Mar-18	173					
L1700	Metal cover on RC platform	0%	30	30	12-Mar-18	19-Apr-18	173					
L1730	Lift submission & ordering period	92.93%	26	368		22-Jan-18						
L1780	CLP Power available (by CLP)	91.36%	42	486	20-Aug-16 A							
		91.3078	42	400	20-Aug-10 A	30-Jan-10	392					
emporary la Constructio	ai Wo Footbridge											
	Erect temp column at new FLHY	0%	7	7	04-Jan-18*	11-Jan-18	53					
TWFB-T1208	central divider Erect Temp Column & link bridge to	0%	7	7	04-Jan-18	11-Jan-18	53			-		
	existing bridge at FLHY S/B Erect Temp Bridge accross FLHY	0%	11	11	12-Jan-18	24-Jan-18				-		
	Temp TW bridge complete &	0%	0	0		24-Jan-18				24-Jan-18 ▲ Tem	p TW bridge complete & p	edestrian div
	pedestrian diversion	0 70	0	J		_ · Jun-10	- 35					
	f Existing Tai Wo Footbridge anling Highway Section											
	Erect Temp platform for bridge	0%	10	10	13-Jan-18	24-Jan-18	53					
	demolition Demolish existing Tai Wo	0%	4	4	25-Jan-18	29-Jan-18	53			-		
TWFB-DE1070	Footbridge Demolish remaining columns	0%	2	2	30-Jan-18	31-Jan-18	53			<mark>-</mark>	•	
		0 /0								31-Jan-18	Demolish existing Tai V	Vo Footbrida
TWFB-DE1090	Demolish existing Tai Wo	0%	0	0		31-Jan-18	53					
TWFB-DE1090 TWFB-DE1110	Footbridge complete (across FH)	0%	0	0		31-Jan-18	53					i
TWFB-DE1090 TWFB-DE1110 oise Barrie	Footbridge complete (across FH) or Along Fanling Highway	0%	0	0		31-Jan-18	53					
TWFB-DE1090 TWFB-DE1110 oise Barrie	Footbridge complete (across FH) er Along Fanling Highway (35-6055)-FH S/B Side er Works	0% / S/B	0	0		31-Jan-18	53					
TWFB-DE1090 TWFB-DE1110 oise Barrie IB51 (Ch.59	Footbridge complete (across FH) er Along Fanling Highway 35-6055)-FH S/B Side	0% / S/B	0	0 75	20-May-17 A							
TWFB-DE1090 TWFB-DE1110 oise Barrie B51 (Ch.59 Noise Barrie NB02300	Footbridge complete (across FH) F Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post &	0% / S/B		75	20-May-17 A 03-Jan-18		478					
TWFB-DE1090 TWFB-DE1110 <b>Dise Barric</b> B51 (Ch.59 Noise Barric NB02310	Footbridge complete (across FH) F Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production	0% / S/B 81.33% 0%	14	75		02-Jan-18	478					
TWFB-DE1090 TWFB-DE1110 Dise Barrie B51 (Ch.59 Noise Barrie NB02300 NB02310 B53 (Ch.61 Noise Barrie	Footbridge complete (across FH) ar Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF er Works	0% / <b>S/B</b> 81.33% 0% RC I&P A	14 5 <b>rea)</b>	75 5	03-Jan-18	02-Jan-18 08-Jan-18	478 387					
TWFB-DE1090 TWFB-DE1110 oise Barrie IB51 (Ch.59 Noise Barrie NB02310 IB53 (Ch.61 NB02430	Footbridge complete (across FH) ar Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF er Works Precautionary Measure installation	0% / S/B 81.33% 0% RC I&P Au 0%	14 5 <b>ea)</b> 26	75 5 26	03-Jan-18 20-Dec-17	02-Jan-18 08-Jan-18 22-Jan-18	478 387 202					
TWFB-DE1090 TWFB-DE1110 oise Barrie IB51 (Ch.59 Noise Barrie NB02310 IB53 (Ch.61 NB02430	Footbridge complete (across FH) ar Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF er Works	0% / <b>S/B</b> 81.33% 0% RC I&P A	14 5 <b>rea)</b>	75 5	03-Jan-18 20-Dec-17	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18	478 387 202 249					
TWFB-DE1090 TWFB-DE1110 <b>Dise Barrie</b> B51 (Ch.59 Noise Barrie NB02300 NB02310 B53 (Ch.61 NB02430 NB02440	Footbridge complete (across FH) ar Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF er Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall	0% / S/B 81.33% 0% RC I&P Au 0%	14 5 <b>ea)</b> 26	75 5 26	03-Jan-18 20-Dec-17	02-Jan-18 08-Jan-18 22-Jan-18	478 387 202 249					
TWFB-DE1090 TWFB-DE1110 <b>Dise Barrie</b> B51 (Ch.59 NB02300 NB02310 B53 (Ch.61 NB02430 NB02430 NB02440 NB02450	Footbridge complete (across FH) Footbridge complete (across FH) F Along Fanling Highway 35-6055)-FH S/B Side F Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF F Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos	0% / <b>S/B</b> 81.33% 0% RC I&P At 0% 0%	14 5 ea) 26 26	75 5 26 26	03-Jan-18 20-Dec-17 23-Jan-18	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18	478 387 202 249 249					
TWFB-DE1090 TWFB-DE1110 oise Barrie B51 (Ch.59 Noise Barrie NB02310 IB53 (Ch.61 NB02430 NB02440 NB02450 NB02490	Footbridge complete (across FH) ar Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF er Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) 18nos	0% / S/B 81.33% 0% RC I&P Au 0% 0%	14 5 <b>ea)</b> 26 26 60	75 5 26 26 60	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18	478 387 202 249 202					
TWFB-DE1090 TWFB-DE1110 <b>Dise Barrie</b> <b>IB51 (Ch.59</b> <b>Noise Barrie</b> NB02310 <b>IB53 (Ch.61</b> <b>NB02430</b> NB02440 NB02440 NB02490 NB02500	Footbridge complete (across FH) Footbridge complete (across FH) FAlong Fanling Highway 35-6055)-FH S/B Side FM Side FM Side Production NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF FM Side (MTF) Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) 18nos Priling - 1 rigs NB53 ID2-3 (100-125m) - Sheet	0% / S/B 81.33% 0% C I&P Ai 0% 0% 0% 0%	14 5 ea) 26 26 60 10	75 5 26 26 60 10	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18 23-Jan-18	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18 02-Feb-18	478 387 202 249 249 202 202					
TWFB-DE1090 TWFB-DE1110 oise Barrie B51 (Ch.59 Noise Barrie NB02310 IB53 (Ch.61 NB02430 NB02440 NB02440 NB02490 NB02490 NB02500 NB02510	Footbridge complete (across FH) ar Along Fanling Highway 35-6055)-FH S/B Side er Works NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF er Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) 18nos Piling-1 rigs	0% / S/B 81.33% 0% C I&P Ai 0% 0% 0% 0%	14 5 26 26 60 10 27	75 5 26 26 60 10 27	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18 23-Jan-18 03-Feb-18	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18 02-Feb-18 09-Mar-18 07-Apr-18	478 387 202 249 202 202 202 202					
TWFB-DE1090 TWFB-DE1110 <b>Dise Barrie</b> <b>B51 (Ch.59</b> <b>Noise Barrie</b> NB02310 <b>B53 (Ch.61</b> <b>NB02430</b> NB02440 NB02440 NB02450 NB02500 NB02500 NB02510 NB02590	Footbridge complete (across FH) <b>ar Along Fanling Highway</b> 35-6055)-FH S/B Side <b>er Works</b> NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF <b>er Works</b> Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) 18nos Piling-1 rigs NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 (125-180m) - NB production	0% / S/B 81.33% 0% CC I&P AI 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	14 5 26 26 60 10 27 21 14	75 5 26 26 60 10 27 21 440	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18 23-Jan-18 03-Feb-18 10-Mar-18 20-May-16 A	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18 02-Feb-18 09-Mar-18 07-Apr-18 02-Jan-18	478 387 202 249 249 202 202 202 202 478					
TWFB-DE1090 TWFB-DE1110 Dise Barrie B51 (Ch.59 NB02300 NB02310 B53 (Ch.61 NB02430 NB02440 NB02440 NB02450 NB02490 NB02500 NB02510 NB02590 NB02600	Footbridge complete (across FH) Footbridge complete (across FH) FAlong Fanling Highway 35-6055)-FH S/B Side FWOrks NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF FWORKS Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) - 18nos Piling - 1 rigs NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel installation	0% / S/B 81.33% 0% RC I&P Au 0% 0% 0% 0% 0% 0% 0% 96.82% 0%	14 5 ea) 26 26 60 10 27 21 14 5	75 5 26 26 60 10 27 21	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18 23-Jan-18 03-Feb-18 10-Mar-18 20-May-16 A	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18 02-Feb-18 09-Mar-18 07-Apr-18	478 387 202 249 249 202 202 202 202 478					
TWFB-DE1090 TWFB-DE1110 Dise Barrie B51 (Ch.59 NB02300 NB02310 B53 (Ch.61 NB02400 NB02440 NB02440 NB02450 NB02490 NB02500 NB02510 NB02590 NB02590 NB02600 B55 (Ch.63	Footbridge complete (across FH) Footbridge complete (across FH) FAlong Fanling Highway 35-6055)-FH S/B Side FWOrks NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF Frecautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) - Sheet piling 2 Excavation NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel installation 00-6360)-FH S/B Side (MTR	0% / S/B 81.33% 0% RC I&P Au 0% 0% 0% 0% 0% 0% 0% 96.82% 0%	14 5 ea) 26 26 60 10 27 21 14 5	75 5 26 26 60 10 27 21 440	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18 23-Jan-18 03-Feb-18 10-Mar-18 20-May-16 A	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18 02-Feb-18 09-Mar-18 07-Apr-18 02-Jan-18	478 387 202 249 249 202 202 202 202 478					
TWFB-DE1090 TWFB-DE1110 Dise Barrie B51 (Ch.59 Joise Barrie NB02300 NB02310 B53 (Ch.61 Joise Barrie NB02430 NB02440 NB02440 NB02490 NB02500 NB02500 NB02500 NB02590 NB02600	Footbridge complete (across FH) Footbridge complete (across FH) FAlong Fanling Highway 35-6055)-FH S/B Side FWOrks NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation 25-6300) -FH S/B Side (MTF Frecautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) - Sheet piling 2 Excavation NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel installation 00-6360)-FH S/B Side (MTR	0% / S/B 81.33% 0% RC I&P Au 0% 0% 0% 0% 0% 0% 0% 96.82% 0%	14 5 ea) 26 26 60 10 27 21 14 5	75 5 26 26 60 10 27 21 440 5	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18 23-Jan-18 03-Feb-18 10-Mar-18 20-May-16 A	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18 02-Feb-18 09-Mar-18 09-Mar-18 02-Jan-18	478 387 202 249 249 202 202 202 478 387					
TWFB-DE1090 TWFB-DE1110 Dise Barrie B51 (Ch.59 loise Barrie NB02300 NB02310 B53 (Ch.61 loise Barrie NB02440 NB02440 NB02440 NB02490 NB02500 NB02500 NB02500 NB02590 NB02590 NB02600 B55 (Ch.63 loise Barrie NB02660	Footbridge complete (across FH) <b>27 Along Fanling Highway</b> 35-6055)-FH S/B Side <b>er Works</b> NB51 ID1-3 (0-25m) - NB production NB51 ID1-3 (0-25m) - NB post & panel installation <b>25-6300) -FH S/B Side (MTF</b> <b>er Works</b> Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) - Sheet piling 2 fictors NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel installation <b>00-6360)-FH S/B Side (MTR</b> <b>er Works</b>	0% / S/B 81.33% 0% RC I&P Au 0% 0% 0% 0% 0% 0% 0% C I&P Ar	14 5 26 26 60 10 27 21 14 5 ea)	75 5 26 26 60 10 27 21 440 5 92	03-Jan-18 20-Dec-17 23-Jan-18 26-Feb-18 23-Jan-18 03-Feb-18 10-Mar-18 20-May-16 A 03-Jan-18	02-Jan-18 08-Jan-18 22-Jan-18 24-Feb-18 11-May-18 02-Feb-18 09-Mar-18 09-Mar-18 02-Jan-18	478 387 202 249 202 202 202 202 478 387					

y ID	Activity Name	Dur. %		Original Duration		Finish To		2017		2018	
ND00700	NDEC ND are to the	Complete	Duration I			Flo		2017 Dec	Jan	2018 Feb	Mar
NB02730	NB56 - NB production	97.36%	14	530	20-Feb-16 A						
NB02740	NB56 - NB post & panel installation	0%	5	5	03-Jan-18	08-Jan-18 38	37			1 1 1 1 1	-
NB61 (Ch.64 <mark>Noise Barri</mark>	00-6560)-FH S/B Side (MTF	RC I&P Area	a)								
NB02780	NB61 (0-50m) - Footing & Wall	66.67%	10	30	08-Nov-17 A	03-Jan-18 5	3			· · · · · · · · · · · · · · · · · · ·	
NB02790	Structure NB61 (0-50m)- backfilling	0%	50	50	04-Jan-18	06-Mar-18 34	11			1 	
NB02800	NB61 (0-50m) - NB production	0%	45	45	04-Jan-18	17-Feb-18 43	32			L	
NB02810	NB61 (0-50m) - NB post & panel	0%	5	5	20-Feb-18	24-Feb-18 34	19				
NB02850	installation NB61 (50-160m) - NB production	0%	45	45	20-Dec-17	02-Feb-18 44	47				
NB02860	NB61 (50-160m) - NB post & panel	0%	5	5	03-Feb-18	08-Feb-18 36	50				
JB61A (Ch 6	installation 5560-6745)-FH S/B Side (MT	RC I&P Ar	ea)							 	
Noise Barri										 	
NB02920	NB61A (0-50m) - NB production	91.98%	45	561	20-Feb-16 A	02-Feb-18 44	17				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	03-Feb-18	08-Feb-18 36	50				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	92.17%	57	728	01-Apr-15 A	02-Mar-18 30	)4				-
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	03-Mar-18	26-Mar-18 31	19				
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	03-Mar-18	16-Apr-18 37	74				
NB03040	NB61A (75-190m) - NB production	97.18%	15	531	20-Feb-16 A	03-Jan-18 47	77				
NB03050	NB61A (75-190m) - NB post & panel	0%	5	5	04-Jan-18	09-Jan-18 38	36			L	
Box Culvert I	ID3 Works									· · · · · · · · · · · · · · · · · · ·	
VO58 Exten	sion of ID3	001		75	20 D- 17	22 M== 10					
ID30140	Wing Wall Construction	0%	75	75	∠∪-Dec-17*	22-Mar-18 10					
	hway Construction						<b>-</b>	1 1 1 1		 	
Drainage & F Ch 5880-674	Road Works 40						-	   	+	 	
RDZ41210	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane	0%	30	30	13-Jan-18	20-Feb-18 32	27			<u></u>	· · · · · · · · · · · · · · · · · · ·
RDZ41220	Z2 (CH5880-6740): Fanling	25%	18	24	25-Oct-17 A	12-Jan-18 -2	2				
RDZ41230	Highway N/B - D&R works (lane 3) Z2 (CH5880-6740) : Fanling Highway N/B - D&B works (lane 4)	40%	18	30	25-Sep-17 A	12-Jan-18 -2	2			·	
RDZ41232	Highway N/B - D&R works (lane 4) Z2 : FLHY N/B after Tai Hang	0%	90	90	13-Feb-18	07-Jun-18 26	67				
RDZ41234	Footbridge removal (Lane 2.3.4) Z2 : FLHY N/B after Tai Wo	0%	90	90	01-Feb-18	26-May-18 5	3				
RDZ41240	Footbridge removal (Lane 2,3,4) Z2 (CH5880-6740) : Fanling Highway S/B - D&R works (lane 4)	49.15%	30	59	25-Oct-17 A	26-Jan-18 19	94				
RDZ41250	Highway S/B - D&R works (lane 4) Z2 (CH5880-6740) : Fanling	0%	59	59	27-Jan-18	13-Apr-18 19	94			, , ,	
ther Work	Highway S/B - D&R works (lane 3)									1 1 1	
	s ce & Demolition of Existing \$	Structure								 	
Contract Co											
MCLT1090	New MCLT - finishes works	88.41%	48	414	20-May-16 A	20-Feb-18 38	53				
MCLT1100	New MCLT completion	0%	0	0		20-Feb-18 35	53			20-Feb-18* ♦ New	MCLT comp
CSS Works											
FVMS1 (Del TCSS1430	leted by DWG HY/2012/06/ Predrilling (6no, 0.19m mini pile)	<b>5K/0866)</b> 0%	12	12	13-Jan-18	26-Jan-18 29	93				
TCSS1432	Piling (6nos, 0.19m mini pile)	0%	0	0	03-Feb-18	03-Feb-18 28				1	
TCSS1434	Sheeting & excavation (4m)	0%	12	12	03-Feb-18	20-Feb-18 28					
TCSS1436	Fast lane footing - FVMS1 (CH6280,	0%	18	18	21-Feb-18	13-Mar-18 28					
10001400		0 /0	10	10	2110010	10 10 20		1			
TCSS1420	N/B) Rock filling & reinstatements road	0.0/	10	10	14 Mor 19	07 Apr 19 29			•••		
TCSS1438	Back filling & reinstatemetn road work (2m)	0%	18	18	14-Mar-18	07-Apr-18 28					
ADS1	Back filling & reinstatemetn road work (2m)						37				
ADS1 TCSS1940	Back filling & reinstatemetn road work (2m) Piling (6nos, 0.19m mini pile)	0%	18	18	13-Jan-18	02-Feb-18 25	37 57				
<b>ADS1</b> TCSS1940 TCSS1950	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m)	0%	18 12	18 12	13-Jan-18 03-Feb-18	02-Feb-18 25 20-Feb-18 25	37 57 57				
ADS1 TCSS1940 TCSS1950 TCSS1960	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B)	0% 0% 0%	18 12 18	18 12 18	13-Jan-18 03-Feb-18 21-Feb-18	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25	37       57       57       57       57				
ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400,	0%	18 12	18 12	13-Jan-18 03-Feb-18	02-Feb-18 25 20-Feb-18 25	37       57       57       57       57				
ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road	0% 0% 0%	18 12 18	18 12 18	13-Jan-18 03-Feb-18 21-Feb-18 14-Mar-18	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25	37           57           57           57           57           57           57           57           57           57				
ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1 TCSS2040	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m)	0% 0% 0%	18 12 18 18	18 12 18 18	13-Jan-18 03-Feb-18 21-Feb-18 14-Mar-18	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25 07-Apr-18 25	37           57           57           57           57           57           57           57           57           57				
ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1 TCSS2040 G54	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road	0% 0% 0%	18 12 18 18	18 12 18 18	13-Jan-18 03-Feb-18 21-Feb-18 14-Mar-18	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25 07-Apr-18 25	37       57       57       57       57       57       57       58	03-Jan-	8 ◆ Slow lane footing - G54	(NB61)	
ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1 TCSS2040 G54 TCSS1500	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Slow lane footing - G54 (NB61)	0% 0% 0% 0% 0%	18 12 18 18 23 0	18 12 18 18 18 18 0	13-Jan-18 03-Feb-18 21-Feb-18 14-Mar-18 11-Nov-17 A	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25 07-Apr-18 25 18-Jan-18 34	37       57       57       57       57       57       57       58	03-Jan-	8 ◆ Slow lane footing - G54	(NB61)	
ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1 TCSS2040 G54 TCSS1500 Duth Buff	Back filling & reinstatemeth road work (2m) Piling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road	0% 0% 0% 0% 0%	18 12 18 18 23 0 2)(Ch.6	18 12 18 18 18 0 740 1	13-Jan-18 03-Feb-18 21-Feb-18 14-Mar-18 11-Nov-17 A	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25 07-Apr-18 25 18-Jan-18 34	37       57       57       57       57       57       57       58	03-Jan-1	8  Slow lane footing - G54	(NB61)	
ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1 TCSS2040 G54 TCSS1500 Duth Buff oise Barrie NB64 & NB6	Back filling & reinstatemeth road work (2m) Pilling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Slow lane footing - G54 (NB61) er Zone 1 (SBZ1) (with er Along TWSR-West and 4A (Ch.6860-6920)-TWSR V	0% 0% 0% 0% 0% in Zone	18 12 18 18 23 0 2)(Ch.6	18 12 18 18 18 0 740 1	13-Jan-18 03-Feb-18 21-Feb-18 14-Mar-18 11-Nov-17 A	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25 07-Apr-18 25 18-Jan-18 34	37       57       57       57       57       57       57       58	03-Jan-	<ul> <li>Slow lane footing - G54</li> </ul>	(NB61)	
ADS1           TCSS1940           TCSS1950           TCSS1960           TCSS1970           FADS1           TCSS1500           G54           TCSS1500           Duth Buff(oise Barrie)           JB64 & NB6           Noise Barrie	Back filling & reinstatemeth road work (2m) Pilling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Slow lane footing - G54 (NB61) er Zone 1 (SBZ1) (with er Along TWSR-West and 4A (Ch.6860-6920)-TWSR V er Works	0% 0% 0% 0% 0% in Zone Laying N Vest Side	18 12 18 18 23 0 <b>2)(Ch.6</b> <b>Iew Utili</b>	18 12 18 18 18 0 740 1 ities	13-Jan-18 03-Feb-18 21-Feb-18 14-Mar-18 11-Nov-17 A	02-Feb-18 25 20-Feb-18 25 13-Mar-18 25 07-Apr-18 25 18-Jan-18 34 03-Jan-18 36	37       57 <td>03-Jan-1</td> <td>8  Slow lane footing - G54</td> <td>(NB61)</td> <td></td>	03-Jan-1	8  Slow lane footing - G54	(NB61)	
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ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1 TCSS2040 G54 TCSS1500 Duth Buff oise Barrie IB64 & NB6 Noise Barrie IB60 (Ch.64 Noise Barrie IB60 (Ch.64 Noise Barrie IB60 (Ch.64 Noise Barrie NB02040 NB02105 IB66 (Ch.69 NB02150 NB02150 NB02160 ridge Cons	Back filling & reinstatemeth road work (2m) Pilling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Slow lane footing - G54 (NB61) <b>er Zone 1 (SBZ1) (with</b> <b>er Along TWSR-West and</b> 4A (Ch.6860-6920)-TWSR V <b>er Works</b> Bus Shelter footing & shelter near NB64 - V086 <b>er Along Fanling Highwa</b> 50-6920)-FH N/B Side <b>er Works</b> NB60 (300-408m)(NB60/26-34, 0.19m -44nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 20-6930)-FH N/B Side <b>er Works</b> NB66 - Sheet piling & Excavation NB66 - Footing & Wall Structure <b>struction</b>	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	18 12 18 18 23 0 2)(Ch.6 lew Utili 40 40 66 10 58	18 12 18 18 0 <b>740 1</b> <b>ities</b> 40 66 10 58	13-Jan-18         03-Feb-18         21-Feb-18         14-Mar-18         11-Nov-17 A         20-Dec-17         21-Feb-18         21-Feb-18         21-Feb-18         21-Feb-18         21-Feb-18         21-Feb-18         21-Feb-18         21-Feb-18         21-Feb-18	02-Feb-18       24         20-Feb-18       24         13-Mar-18       24         07-Apr-18       24         03-Jan-18       34         03-Jan-18       34         07-Feb-18       34         03-Jan-18       34         03-Jan-18       34         03-Jan-18       34         03-Jan-18       34         03-Mar-18       34 <td>37         57         57         57         57         57         57         57         57         57         57         57         51         9         55         9         55         9         0</td> <td>03-Jan-1</td> <td>8 ◆ Slow lane footing - G54</td> <td></td> <td></td>	37         57         57         57         57         57         57         57         57         57         57         57         51         9         55         9         55         9         0	03-Jan-1	8 ◆ Slow lane footing - G54		
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ADS1 TCSS1940 TCSS1950 TCSS1960 TCSS1970 FADS1 TCSS2040 G54 TCSS1500 Outh Buff( Oise Barrie NB64 & NB6 Noise Barrie NB02040 NB02090 NB02105 NB02160 ridge Cons KLH Bridge KLH Bridge	Back filling & reinstatemeth road work (2m) Pilling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Slow lane footing - G54 (NB61) er Zone 1 (SBZ1) (with er Along TWSR-West and 4A (Ch.6860-6920)-TWSR V er Works Bus Shelter footing & shelter near NB64 - V086 er Along Fanling Highway (50-6920)-FH N/B Side er Works NB60 (300-408m)(NB60/26-34, 0.19m -44nos) Piling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 20-6930)-FH N/B Side er Works NB66 - Sheet piling & Excavation NB66 - Footing & Wall Structure struction ng Vehicular Bridge - West Ramp West Ramp - Planting	0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         1       0%         1       0%         1       0%         1       0%         1       0%         1       0%         1       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%         0%       0%	18 12 18 18 23 0 2)(Ch.6 lew Utili 40 40 66 10 58 18 21	18         12         18         18         0         740 1         ities         40         66         10         58         18         21	13-Jan-18         03-Feb-18         21-Feb-18         14-Mar-18         11-Nov-17 A         20-Dec-17         21-Feb-18         21-Feb-18         21-Feb-18         21-Feb-18         14-Mar-18	02-Feb-18       24         20-Feb-18       24         13-Mar-18       24         07-Apr-18       24         03-Jan-18       34         03-Jan-18       34         03-Jan-18       34         03-Jan-18       34         03-Jan-18       34         03-Jan-18       34         03-Mar-18       34         03-Mar-18       34         03-Mar-18       34         13-Mar-18       11         11-Apr-18       11         11-Apr-18       11	37         37         57         57         57         57         57         57         57         57         57         57         57         57         57         57         51         51         9         55         99         55         99         50         90         51         91         52         93         54         55         99         50         90         51         91         52         92         53         93         54         55         55         56         57         57         58         59         50         51         52         53         54         55         57	03-Jan-	Image: Solution of the second sec		
ADS1 TCSS1940 TCSS1950 TCSS1950 TCSS1970 FADS1 TCSS2040 G54 TCSS1500 Outh Buff( loise Barrie NB64 & NB6 Noise Barrie NB64 & NB6 Noise Barrie NB03350 loise Barrie NB02090 NB02090 NB02105 NB66 (Ch.69 NB02105 NB66 (Ch.69 NB02150 NB02160 Sridge Cons (au Lung Ha KLH Bridge KLH Bridge	Back filling & reinstatemeth road work (2m) Pilling (6nos, 0.19m mini pile) Sheeting & excavation (4m) Fast lane footing - ADS1 (CH6400, N/B) Back filling & reinstatemeth road work (2m) Back filling & reinstatemeth road work (2m) Slow lane footing - G54 (NB61) er Zone 1 (SBZ1) (with er Along TWSR-West and 4A (Ch.6860-6920)-TWSR V er Works Bus Shelter footing & shelter near NB64 - VO86 er Along Fanling Highway (50-6920)-FH N/B Side er Works NB60 (300-408m)(NB60/26-34, 0.19m -44nos) Piling NB60 (408-468m) (NB60/25-39) & FADS1 Pre-drilling NB60 (408-468m) (NB60/35-39) & FADS1 Pre-drilling NB60 (408-468m) Staircase S1 - Pre-bored H Pile (16 nos) 20-6930)-FH N/B Side er Works NB66 - Sheet piling & Excavation NB66 - Footing & Wall Structure struction ing Vehicular Bridge - West Ramp West Ramp - Planting - Deck 1 Deck 1 - Planting	0% 0% 0% 0% 1 0% 1 1 1 2 0% 1 1 2 0% 1 0% 1 0 1 0% 1 0% 1	18 12 18 18 23 0 2)(Ch.6 10 58 66 10 58 18 21	18 12 18 18 0 740 1 ities 40 66 10 58 66 10 58	13-Jan-18         03-Feb-18         21-Feb-18         14-Mar-18         11-Nov-17 A         20-Dec-17         21-Feb-18         21-Feb-18	02-Feb-18       24         20-Feb-18       24         13-Mar-18       24         07-Apr-18       24         03-Jan-18       34         14-May-18       34         03-Mar-18       9         04-May-18       11         11-Apr-18       11         11-Apr-18       34         16-Jan-18       34	37         37         57         57         57         57         57         57         57         57         57         57         57         57         57         57         51         51         9         55         99         55         99         50         90         51         91         52         93         54         55         99         50         90         51         91         52         92         53         93         54         55         55         56         57         57         58         59         50         51         52         53         54         55         57	03-Jan-1	8 ◆ Slow lane footing - G54		

ty ID	Activity Name	Dur. %	Rem	Original	Start	Finish Total					
-, -,		Complete	Duration	Duration		Float		2017 Dec	Jan	2018 Feb	Mar
KLH Bridge	- East Ramp							200			
KLH.3590	East Ramp - Planting	0%	34	34	20-Dec-17	31-Jan-18 720					
KLH Bridge											
Z2.KLH.3610	Ramp R1 - Steel roof	92.76%	11	152	19-Jan-17 A	04-Jan-18 390					
KLH Bridge Z2.KLH.1550	- Ramp R2 Ramp R2 - Steel roof	86.44%	16	118	14 Mor 17 A	10-Jan-18 385					
	·	00.44 %	16	110	14-1VId1-17 A	10-Jall-10 303					
	- Staircase S1 S1 - Staircase steel work, handrail	0%	90	90	11-Feb-18	11-May-18 47					
	Shop drawing submission &	0 78	30	90	11-1 60-10	11-Way-10 47					
Bridge Roa Z2.KLH.2040	d Work Landscape work of KLHVB	0%	120	120	20-Dec-17	21-May-18 281					
	·	0 78	120	120	20-Dec-17	21-May-10 201					
Lift at TWS L01070	R-W SIGE Structural Laminated glass wall	0%	11	11	20-Dec-17	04-Jan-18 301					
L01090	installation Glass canopy (As Confirmed by ER,	0%	0	0	20-Dec-17	20-Dec-17 312					
L01094	No glass canopy is required)	98.97%	4	389		23-Dec-17 308		· · · · · · · · · · · · · · · · · · ·			
	Lift submission & ordering period										
L01100	Lift installation	0%	70	70	05-Jan-18	03-Apr-18 301					
L01130	Finishes work	0%	88	88	20-Dec-17	12-Apr-18 313					
L01140	CLP Power available (by CLP)	99.41%	3	505	04-Apr-16 A	22-Dec-17 469					
Lift at FLH											
L01230	Structural Laminated glass wall installation	0%	45	30	03-Oct-17 A	13-Feb-18 297					
L01250	Glass canopy (As Confirmed by ER, No glass canopy is required)	0%	0	0	20-Dec-17	20-Dec-17 341		I			
L01260	Lift installation	0%	45	45	14-Feb-18	14-Apr-18 297					
L01290	Finishes work	0%	60	60	20-Dec-17	06-Mar-18 341				L	
L01300	CLP Power available (by CLP)	83.39%	94	566	04-Apr-16 A	23-Mar-18 384					
Signalized J	lunction										
	ng Vehicular Bridge										
KLH Bridge	e - West Ramp										
	Installation of Traffic Signal Poles at TWSR-W N/B (KLHVB)	0%	21	21	20-Dec-17*	16-Jan-18 374					
	er Along Fanling Highway					· · · ·					
NB62 (Ch.67	45-6910)-FH S/B Side (MTR		a)								
Noise Barri NB03090	er Works NB62 (0-80m) - Footing & Wall	84.78%	35	230	12-Dec-16 A	01-Feb-18 326					
	Structure										
NB03100	NB62 (0-80m) - backfilling	72.33%	44	159		12-Feb-18 352					
NB03110	NB62 (0-80m) - NB production	0%	45	45	02-Feb-18	18-Mar-18 403					
NB03120	NB62 (0-80m) - NB post & panel installation	0%	5	5	19-Mar-18	23-Mar-18 326					
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	20-Dec-17	08-Jan-18 382					
NB03160	NB62 (80-110m) Under bridge - NB	0%	45	45	20-Dec-17	02-Feb-18 447					
NB03170	production NB62 (80-110m) Under bridge - NB	0%	5	5	03-Feb-18	08-Feb-18 360					
NB03200	post & panel installation NB62 (110-170m) - backfilling	0%	20	20	20-Dec-17	15-Jan-18 376					
NB03210	NB62 (110-170m) - NB production	0%	45	45	20-Dec-17	02-Feb-18 447					
NB03220	NB62 (110-170m) - NB post & panel	0%	5	5	03-Feb-18	08-Feb-18 360				-	
	installation	0 78	5	5	00-1 60-10	00-1 60-10 500					
NB70 (Ch.69 Noise Barri	10-6930)-FH S/B Side										
NB03290	NB70- NB post & panel installation	0%	5	5	11-Dec-17 A	27-Dec-17 396					
anling Hig	hway Construction										
Drainage & F											
Ch 6740-69	30									     	
RDZ20450	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 2)	0%	24	24	13-Jan-18	09-Feb-18 359				· · · · · · · · · · · · · · · · · · ·	
RDZ20460	Z2 (CH6740-6930): Fanling Highway N/B - D&R works (lane 3)	25%	18	24	25-Oct-17 A	12-Jan-18 -22					
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	25%	18	24	25-Sep-17 A	12-Jan-18 -22					
RDZ20490	Z2 (CH6740-6930) : Fanling	0%	30	24	25-Oct-17 A	26-Jan-18 371				L	
RDZ20500	Highway S/B - D&R works (lane 4) Z2 (CH6740-6930) : Fanling	0%	24	24	27-Jan-18	27-Feb-18 347					
orth Buffe	Highway S/B - D&R works (lane 3) <b>Pr Zone 2 (NBZ2) (with</b>	n Zone-	4) (Ch	7925	to 8100						
Bridge Cons				7320	10 0100						
	/uen Footbridge									· · · · · · · · · · · · · · · · · · ·	
TWSR-Wes	t/ FL Highway N/B Side See										
HKY1440	Remaining Finishes works of HKYFB	79.04%	57	272		02-Mar-18 331					<b></b>
HKY1520	VO11 - slope improvement work	0%	45	45	03-Mar-18	28-Apr-18 331					
	FL Highway S/B Side Sect										
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	88.1%	30	252	13-Oct-16 A	26-Jan-18 403					
ONE 4 (Ch	n. 7925 to 8700)										
	er Along TWSR-West and	Laying N	lew Util	ities							
	Utility Works										
DN450 DI W DI0140	Atermain "A" (Ch 1989-252 DN450 DI watermain laying	<b>.9)</b> 86.67%	4	30	20-Nov-17 A	23-Dec-17 199					
DI0150	(200-250m) DN450 DI watermain laying	0%	30	30	27-Dec-17	31-Jan-18 199					
	(250-300m)										
DI0160	DN450 DI watermain laying (300-350m)	0%	30	30	01-Feb-18	10-Mar-18 199					
DI0170	DN450 DI watermain laying (350-400m)	0%	30	30	12-Mar-18	19-Apr-18 199					
	er Along Fanling Highway	/ N/B									
	30-8090)-FH N/B Side										
Noise Barri NB4090	er Works NB75 - NB post & panel installation	0%	5	5	20-Dec-17	27-Dec-17 258					
	(Ch7930-7990)										
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	28-Dec-17	03-Jan-18 258					
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	20-Dec-17	27-Dec-17 263					
NB4260	NB75 - NB production (Ch8050-8090)	66.67%	15	45	20-Nov-17 A	03-Jan-18 312					
	NB75 - NB post & panel installation	0%	5	5	04-Jan-18	09-Jan-18 253	I				
NB4270	(Ch8050-8090)	0,0	-								

ty ID	ss Update)(20-Dec-17)	Dur. %	Rem	Original		Ionth Rolling	Total	ram Page 5 of 5 (27-De
.,		Complete		Duration		1 111311	Float	2017 2018 2018 Mar
NB4580	NB75 backfilling complete	0%	0	0		13-Jan-18	51	3-Jan-18 ♦ NB75 backfilling complete
NB4610	NB75 Drainage Works	84.17%	19	120	20-Jul-17 A	13-Jan-18	-19	
NB77 (Ch.8	3090-8450)-FH N/B Side							
Noise Barı	rier Works							
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	50%	40		20-Jul-17 A			
NB4320	NB77 - backfilling (Ch8090-8190)	0%	20	20	19-Mar-18	14-Apr-18	40	
NB4330	NB77 - NB production (Ch8090-8190)	0%	45	45	08-Feb-18	24-Mar-18	220	
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	62.5%	30	80	20-Sep-17 A	26-Jan-18	84	
NB4390	NB77 - NB production (Ch8190-8290)	0%	45	45	27-Jan-18	12-Mar-18	232	
NB4430	NB77 - Footing & Wall Structure	17.5%	66	80	03-Nov-17 A	13-Mar-18	64	
NB4450	(Ch8290-8390) NB77 - NB production	0%	45	45	14-Mar-18	27-Apr-18	186	
NB4482	(Ch8290-8390) NB77 - Footing & Wall Structure	0%	50	50	20-Dec-17	22-Feb-18	38	
NB4490	(NB77/27 - 28, N1-N2) NB77 - Footing & Wall Structure	0%	50	50	23-Feb-18	26-Apr-18	38	
NB4620	(NB77/31 - 32, 0.19m & G35) NB77 Drainage Works	0%	100	100	08-Feb-18	14-Jun-18		
	<b>nstruction</b> op Shek Pedstrian & Cycle Br	idae						
General		luge						
WHS1105	W77A & W77B & backfilling work complete	0%	0	0		20-Dec-17	433	20-Dec-17
	est/ FL Highway N/B Side Se				oc. i			
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	45.45%	30		20-Jun-17 A			
WHS1390	WHSAB2, P8, P9 - Backfilling (~3m)	0%	20	20	27-Jan-18	22-Feb-18	161	
WHS1400	2nd half Steel Ramp ready for erection (WHS-TWSR-W side)	0%	0	0		22-Feb-18	161	22-Feb-18 ♦ 2nd half Steel F
WHS2100	Shop Drawing preparation, submission & approval	56.67%	39	90	20-Oct-17 A	06-Feb-18	100	
WHS2110	Material procurement & testing	35%	39	60	21-Nov-17 A	06-Feb-18	100	
WHS2120	Ramp fabrication	0%	72	72	07-Feb-18	10-May-18	100	
Crossina I	Fanling Highway Section							
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	20-Dec-17	06-Mar-18	337	
WHS1520	Remove railing	0%	12	12	07-Mar-18	20-Mar-18	337	
'O - Wall 7	76A Construction	<u>                                     </u>						
Retaining W								
	st FL Highway S/B Side Sec Drainage work for Caltex access			450	00 1 1 17 1	45 1 40	000	
W76A1050	road	86.67%	20		20-Jul-17 A			
W76A1060	Road work for Caltex access road	0%	150	150	16-Jan-18	21-Jul-18	263	
	ghway Construction							
	. Road Works st FL Highway S/B Side Sec	tion						
RDZ41086	Construct FH S/B Lane 1 & 2	0%	40	40	17-Mar-18	08-May-18	-19	
RDZ41102	(Ch7925-8000)(SA346) (after HKY Construct FH N/B Lane 1 (at NBZ2)	0%	20	20	15-Jan-18	06-Feb-18	51	
RDZ41104	Construct FH N/B Lane 2 (at NBZ2)	0%	20	20	07-Feb-18	05-Mar-18	51	
RDZ41106	Construct FH N/B Lane 3 (at NBZ2)	0%	20	20	06-Mar-18	28-Mar-18	51	
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	20		22-Feb-18	16-Mar-18		
RDZ41122		0%	30		15-Jan-18	21-Feb-18		
	Construct FHS/B Lane 4 (at NBZ2)							
RDZ41131	Drainage work at central divider (Ch8100-8600)	40%	90	150	10-Oct-17 A	14-Apr-18	50	
ther Worl								
Retaining W	Vall W78 st FL Highway S/B Side Sec	tion						
RWZ4.0900	Site Clearance	66.67%	4	12	11-Dec-17 A	23-Dec-17	0	
RWZ4.0910	Demolition of existing retaining wall	0%	35	35	27-Dec-17	06-Feb-18	0	
RWZ4.1010	(Instructed in 2-Jun-17 ad-hoc site Base slab & Wall (6-11m high)-	0%	110	110	07-Feb-18	26-Jun-18	0	
Slope Work	RW78 (Ch.0-50)							
	st FL Highway S/B Side Sec	tion						
S1030	Slope S53-Fill ~5m	0%	110	110	20-Dec-17	09-May-18	158	
S1040	Slope S54A-Cut ~4m	0%	40	40	20-Dec-17	07-Feb-18	357	
S1050	Slope S54B-Cut ~5m	0%	40	40	20-Dec-17	07-Feb-18	357	
CSS Work	KS				I	J		
<b>TCSS</b> Pre-	-Construction Works							
TCSS0120	Prepare Shop Drawing-TCSS	0%	30		20-Dec-17	26-Jan-18		
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	27-Jan-18	16-Feb-18	123	
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	20-Feb-18	12-Mar-18	96	
TCSS0150	Confirm Shop drawing & ready for material ordering & factory	0%	0	0		12-Mar-18	96	12-Mar-18
TCSS0160	Raw material procurement	0%	180	180	09-Jan-18	07-Jul-18	4	
G34				1				
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		20-Dec-17	191	20-Dec-17 ♦ Slow lane footing - G34 (NB75)
	Fast lane footing - G34 (CH7990,	0%	30	30	22-Feb-18	28-Mar-18	112	
TCSS1530	N/B)						1	
		0%	5	5	20-Dec-17	27-Dec-17	306	
TCSS1530 G35 TCSS1560	Fast lane footing - G35 (CH8410,			1	1	1		
<b>G35</b> TCSS1560	Fast lane footing - G35 (CH8410, N/B)							
G35 TCSS1560 DS50	N/B) Slip road island footing - DS50	0%	30	30	20-Dec-17	26-Jan-18	221	
G35 TCSS1560 DS50	N/B) Slip road island footing - DS50 (CH7940, S/B) Fast lane footing - DS50 (CH7940,	0% 0%	30		20-Dec-17 20-Dec-17	26-Jan-18 27-Dec-17		
<b>G35</b> TCSS1560 <b>DS50</b> TCSS1600 TCSS1610	N/B) Slip road island footing - DS50 (CH7940, S/B)	0%						
G35 TCSS1560 DS50 TCSS1600 TCSS1610	N/B) Slip road island footing - DS50 (CH7940, S/B) Fast lane footing - DS50 (CH7940, S/B)	0%		5			246	

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD. Revised Program Duration Rev Date Description Contract No. 02/HY/2015 Programmed Duration 00 28/02/17 initial issue Works Order Nos: CB128519-0 & CB128520-5 Actual Progress 01 29/03/17 refer RE's comments Progarmme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen Critical Path Activities 02 22/5/17 idd plate load test program Early Start & Early Finsih 03 28/9/2017 revise program of task 5-Float = 3 weeks upper part of stem wall 3 months Rolling Program 24/3 23/12 Week No. 1 2 30 31 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 Act. No Week Ending 2/25 3/4 3/11 3/18 3/25 4/1 4/8 12/30 1/6 1/13 1/20 1/27 2/3 2/10 2/17 2/24 3/3 3/10 3/17 3/24 3/31 4/7 4/14 4/21 4/28 5/5 5/12 5/19 5/26 WO No. CB128520-5 Setting out and UU detection 100% 1 100% 2 Submit and obtain approval of temp wks Construction of Footings ( 6 stages): Assume 2 sections in one stage, 6 weeks cycle per standard section) 100% 3 Stage 1 : NB74-6, NB 74-7 4 Stage 2 : NB74-5, NB-74-4 100% 5 Stage 3: NB-74-3, NB-74-2 100% 6 Stage 4: NB74-1, Footing A (1 wk allowed for plate load test) 100% 7 Stage 5: NB74-8, & Footing B (1 wk allowed for plate load test) 100% - É 8 Stage 6: 74-9, NB74-10 50% III 8a Stage 7 : Upper part of stem wall - 0% 1 Bay 8 40% Bay Bay 9.10 100% Submit workshop drawings for steelworks of 9 Noise Barriers and Covered Walkway for ES approval 80% 10 Fabrication of NB and CW 10%0 Site installation of NB ( include steel posts 11 and panels) WO No. CB128519-0 12 Site installation of Covered Walkway 13 Electrical Installation 14 Allow for Works by Bus Companies 10% 15 Drainage Works 16 Footpath Construction 17 Cycle Track Modification nr Tai Hang 18 Road surfacing 19 Allow for UU laying ducts \_ 20 Allow for fixing street furnitures by C3/ LT

### Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction ( Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 =432 Mí	7 days
3	Rock Fill ( assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		l day
5	Fwk-Rebar- Concreting	110 M 3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M 3	5 days
			Total = 42 days

#### \*\* Breakdown of Item 5 Base Slab Stem calendar calendar days days Fwk 2 1 Re-bar 3 Concreting 1 emove Fw 1 Total : 10 days

#### ## Breakdown of Item 6

	Posts calendar days	
Fwk	2	
Re-bar	3	
Concreting	1	
Remove Fwl	1	
Total :	7	days

#### \$\$Breakdown of Item 8a ( for 2 sections of stem wall)

	Posts calendar days	
Fwk	4	
Re-bar	2	
Concreting	1	
Fix HD bolts	2	
Remove Fwk	1	
Total :	10 d	ays

Appendix A





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	Implementa	tion Status
			HY/2012/06	02/HY/2015
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	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.		@	V
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.	25	@	V
	All spraying of materials and surfaces shall avoid excessive water usage.		V	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.	d	V	V
	Materials shall be dampened, if necessary, before transportation.		V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	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		
-			HY/2012/06	02/HY2015	
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	
	Reduce the number of equipment and their percentage on-time.		V	V	
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V	N.A.	
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).	-	V	N.A.	
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V	N.A.	
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V	N.A.	
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V	N.A.	
	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	N.A.	
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	N.A.	
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		N.A.	N.A.	

# Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			HY/2012/06	02/HY/2015	
Water quality during construction	<ul> <li>Demolition and reconstruction of bridges</li> <li>Prevent off-site migration through use of sheet piles.</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>	During construction	@	N.A.	
	<ul> <li>Road Widening Works, Earthworks and Culvert Extension Works</li> <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.</li> <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 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>		Q	V	

# Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
		_	HY/2012/06	02/HY/2015	
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	V	V	
	<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	V	
	Demolition Wastes - Segregation of materials to facilitate disposal Appropriate stockpile management.		V	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	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>		#	N.A.	

<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> <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 wastes shall be collected by a licensed chemical waste collector.</li> </ul>	@	N.A.
<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	V

# Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementat	ion Status
			HY/2012/06	02/HY/2015
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	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	V
	<ul> <li>Dust generation</li> <li>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</li> <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>		@	Q
	<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:</li> <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>		@	V

# Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Responsibili	ty
			HY/2012/06	02/HY/2015
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	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	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>		V	N.A.
	<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>		#	N.A.
	<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>		#	N.A.

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		7 Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	295 - 754.38
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3910 0.9810 0.8750 0.8330 0.6890	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9984 0.9942 0.9921 0.9910 0.9858	0.7178 1.0135 1.1338 1.1897 1.4307	1.4161 2.0027 2.2391 2.3484 2.8322		0.9957 0.9915 0.9894 0.9883 0.9831	0.7158 1.0107 1.1308 1.1865 1.4269	0.8844 1.2507 1.3983 1.4666 1.7687
Qstd slop intercept coefficie y axis =	(b) = ent (r) =	1.98425 -0.00930 0.99998 Pa/760) (298/5	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Qa slope intercept coefficie v axis =	= (b) =	1.24250 -0.00581 0.99998

#### 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>

Operator:	Shum Kam Yuen
Next Due Date:	15-Jan-18
Verified Against:	O.T.S 988
Expiration Date:	22-May-2018
	Next Due Date: Verified Against:

	-	Ambient Co	ndition		
Temperature, Ta	296.0	Kelvin	Pressure, Pa	760.7	mmHg

	Or	ifice Transfer Sta	ndard Information		
Equipment No .:	988	Slope, mc	1.98425	Intercept, bc	-0.0093
Last Calibration Date:	22-May-17			(200/75) $11/2$	
Next Calibration Date:	22-May-18	1	mc x Qstd + bc = [H x (Pa)]	/60) x (298/1a)j	

$\begin{array}{c c} & \left[ \text{H x (Pa/760) x (298/Ta)} \right]^{1/2} \\ \hline & 2.69 \\ \hline & 2.44 \\ \hline & 2.11 \end{array} \right.$	Qstd (m <sup>3</sup> /min) X - axis 1.36 1.23 1.07	W in. of oil 5.2 4.4	$\frac{\left[\Delta W \ge (Pa/760) \ge (298/Ta)\right]^{1/2}}{Y-axis}$ 2.29 2.11
2.44	1.23	4.4	
			2.11
2.11	1.07	107.10	
	1.07	3.2	1.80
1.88	0.95	2.4	1.56
1.59	0.80	1.6	1.27
on X			
2	Intercept, bw =	=	-0.1964
0.9983			
	1.59	1.59 0.80	1.59 0.80 1.6 on X Intercept, bw =

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 = $(m x Qstd + b)^2 x (760 / Pa) x (Ta / 298) =$	4.14
*If Correlation Coefficient < 0.990, check and recalibrate again.	

Remarks:

QC Reviewer: US CHAN Signature:

Date: 15/11/17

# EQUIPMENT CALIBRATION RECORD

Type:	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®		
Venue:		Pui Ying Secondary School	)	
Model No.:	Series 1400			
Serial No:	Control:	140AB219899803		
	Sensor:	1200C143659803	Ko:	12500
Last Calibration Date*:	6 May 2017			

\*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)	Tim	е		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	06-05-17	12:30 -	13:30	27.5	78	0.04741	1894	31.57
2	06-05-17	13:30 -	14:30	27.6	78	0.04823	1933	32.22
3	06-05-17	14:30 -	15:30	27.6	79	0.04968	1987	33.12
4	06-05-17	15:30 -	16:30	27.6	79	0.04785	1915	31.92

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:	0.9957
Validity of Calibration Record:	6 May 2018

Remarks:

			/		
QC Reviewer:	YW Fung	Signature:	1	Date:	08 May 2017

# 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®				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	6 May 201	7				

\*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)	Т	ime			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	06-05-17	12:00	-	13:00	27.5	78	0.04715	1881	31.35
2	06-05-17	13:00	-	14:00	27.6	78	0.04843	1939	32.32
3	06-05-17	14:00	-	15:00	27.6	79	0.04987	1992	33.20
4	06-05-17	15:00	-	16:00	27.6	79	0.04794	1916	31.93

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:	0.9961	
Validity of Calibration Record:	6 May 2018	

Remarks:					
QC Reviewer:	YW Fung	Signature:	Y/	Date:	08 May 2017



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

香港黄竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



N.009.04

# CERTIFICATE OF CALIBRATION

Certificate No.: 17CA0407 01 2 Page of 1 Item tested Description: Sound Level Meter (Type 1) Microphone Manufacturer: **B** & K B&K Type/Model No .: 2238 4188 Serial/Equipment No .: 2285692 2250455 Adaptors used: Item submitted by Customer Name: AECOM ASIA CO., LTD. Address of Customer: Request No .: Date of receipt: 07-Apr-2017 Date of test: 10-Apr-2017 Reference equipment used in the calibration Expiry Date: Description: Model: Serial No. Traceable to: Multi function sound calibrator B&K 4226 2288444 18-Jun-2017 CIGISMEC Signal generator DS 360 33873 18-Apr-2017 CEPREL Signal generator DS 360 61227 18-Apr-2017 CEPREI Ambient conditions Temperature: 22 ± 1 °C Relative humidity: 50 ± 10 % Air pressure: 1010 ± 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%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure 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: Date: Huang Jian Min/Feng Jun Qi

Souther Contracting Contracti

**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.

11-Apr-2017

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

Company Chop:

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.



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



2

# **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.: 17CA0407 01

2 of

Page

#### 1 **Electrical Tests**

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

<b>T</b> = 4			Expanded	Coverage
Test:	Subtest:	Status:	Uncertanity (dB)	Factor
Self-generated noise	А	Pass	0.3	
	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	
	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.

	7	- End -	i	
Calibrated by:	4	Checked by:	L	
	Lai Sheng Jie		Lam Tze Wai	
Date:	10-Apr-2017	Date:	11-Apr-2017	

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

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Form No.CARP152-2/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.



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官 花 與 们 沉 迫 3 7 號 利 建 中 心 1 2 樱 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



# CERTIFICATE OF CALIBRATION

Certificate No.:	17CA0922 03-02	Page:	1	of	2	
Item tested						
Description:	Acoustical Calibrator (Class 1)					
Manufacturer:	Rion Co., Ltd.					
Type/Model No.:	NC-74					
Serial/Equipment No.:	34246490 / N.004.10					
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CO LIMITED					
Address of Customer:	-					
Request No.:	-					
Date of receipt:	22-Sep-2017					
Date of test:	28-Sep-2017					

#### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2743150	05-May-2018	CEPREI
Measuring amplifier	B&K 2610	2346941	03-May-2018	CEPREI
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Digital multi-meter	34401A	US36087050	25-Apr-2018	CEPREI
Audio analyzer	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

#### Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1000 ± 5 hPa

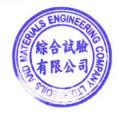
#### **Test specifications**

- 1, 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.



Approved Signatory:

Date:

28-Sep-2017 Company Chop:

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

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

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



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# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA0922 03-02

Page: 2 of

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)
Output Sound Pressure Level Setting	Measured Output Sound Pressure Level	Estimated Expanded Uncertainty
dB	dB	dB
94.00	94.07	0.10
	Level Setting dB	Level Setting Sound Pressure Level dB dB

#### 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 = 0.011 dB

Estimated expanded uncertainty

#### 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:

0.005 dB

At 1000 Hz	Actual Frequency = 1002.1 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 = 2.8 %
Estimated expanded uncertainty	0.7 %

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

	1	-	End -	A
Calibrated by:	t		Checked by:	$1 \sim \gamma$
	Lai Sheng Jie			Fung Chi Yip
Date:	28-Sep-2017		Date:	28-Sep-2017

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

Form No CARP156-2/Issue 1/Rev C/01/05/2005

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

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 December 2017

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

#### Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Tentative Impact Monitoring and Audit Schedule for January 2018

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

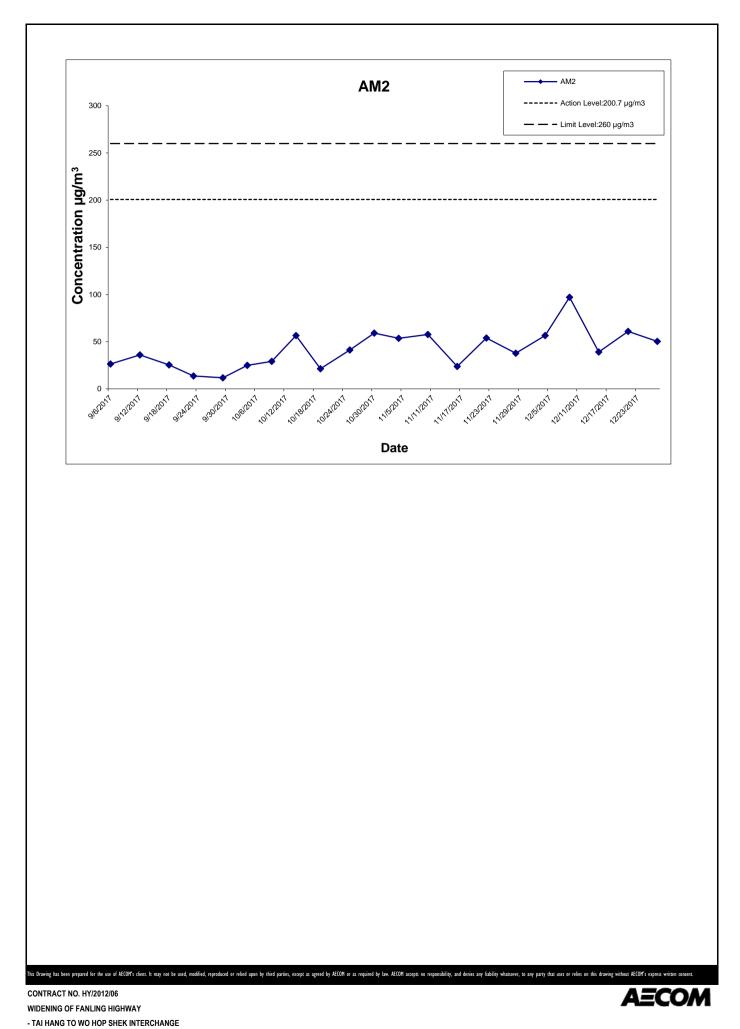
The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

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	Elapse	e Time	Sampling	Conc.	Action Level	Limit Level
	Condition	Temp. (⁰C	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
4-Dec-17	Fine	20.1	1018.3	1.314	1.314	1.314	1892.2	2.7948	2.9017	0.1069	9570.02	9594.02	24.00	56.5	200.7	260
9-Dec-17	Sunny	15.5	1019.7	1.314	1.314	1.314	1892.2	2.5645	2.7482	0.1837	9594.02	9618.02	24.00	97.1	200.7	260
15-Dec-17	Cloudy	19.6	1019.2	1.314	1.314	1.314	1892.2	2.5939	2.6676	0.0737	9618.02	9642.02	24.00	39.0	200.7	260
21-Dec-17	Sunny	15.0	1025.7	1.314	1.314	1.314	1892.2	2.7486	2.8639	0.1153	9642.02	9666.02	24.00	60.9	200.7	260
27-Dec-17	Sunny	17.6	1021.2	1.314	1.314	1.314	1892.2	2.7844	2.8794	0.0950	9666.02	9690.02	24.00	50.2	200.7	260
													Average	60.7		
													Min	39.0		
													Max	97.1	]	



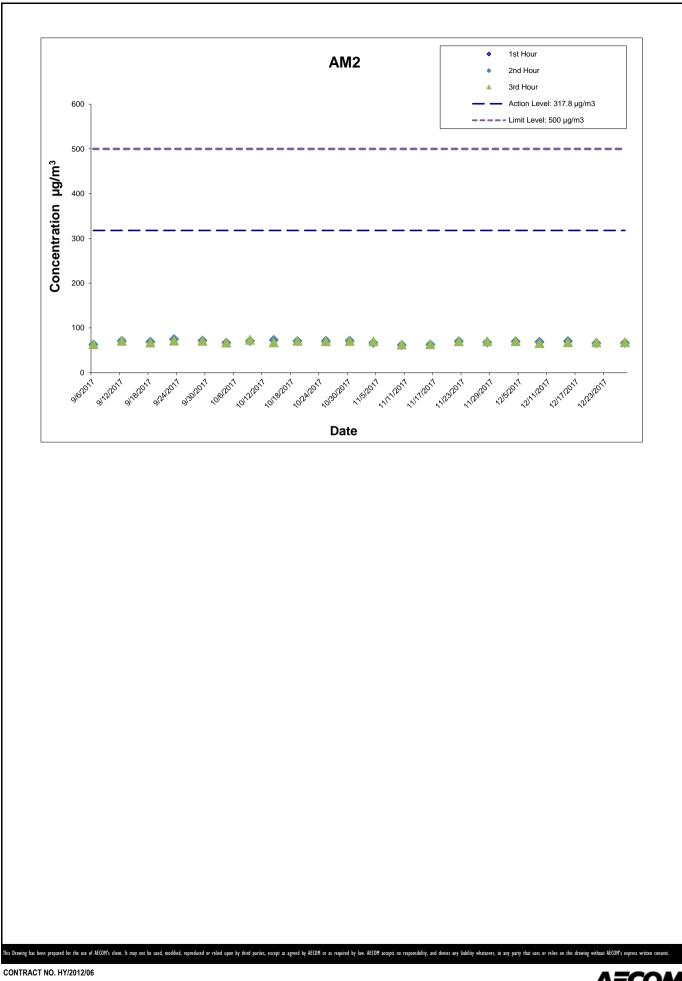
Graphical Presentation of Impact 24-hour TSP Monitoring Results

Date: Jan-18

## 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/m <sup>3</sup> )	(µg/m³)
4-Dec-17	10:48	72.0	69.6	70.4
9-Dec-17	10:20	71.1	68.5	65.9
15-Dec-17	12:05	67.8	70.5	68.1
21-Dec-17	10:30	66.2	65.9	67.8
27-Dec-17	14:00	65.0	66.7	68.1
			Average	68.2
			Min	65.0
			Max	72.0

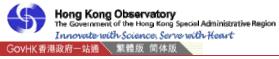


WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

Date: Jan-18

APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH





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Our Services				Tempera						
		Mean		Гептрега	1	Mean	Mean	Total	Prevailing	Mean
Visitors Figures	Day	Pressure	Absolute Daily	Mean	Absolute Daily	Dew Point	Relative Humidity	Rainfall	Wind Direction	Wind Speed
Press releases		(hPa)	Max	(deg. C)	Min	(deg. C)	(%)	(mm)	(degrees)	(km/h)
Weather Note (Chinese)			(deg. C)		(deg. C)			* * *	* * *	***
Today's Weather	01	1018.0	22.7	20.8	18.8	15.2	70		ļ	***
Warnings	02	1018.3	23.2#	19.3	16.4#	13.9	72	***	***	***
Local Weather	03	1016.9	23.2#	19.8	17.2#	15.1	74	* * *	***	***
Observations	04	1017.9#	21.8#	18.8#	16.4#	13.6#	72#	* * *	* * *	***
Weather Forecast	05	1019.4	20.3#	17.9	15.3#	12.6	71	***	***	***
Weather Monitoring	06	1017.8	21.4#	18.4	15.2#	13.0	71	***	***	***
Imagery	07		20.9#	18.8	17.0#	12.7	68	***	***	***
Computer Forecast	08	1020.8	19.8#	17.4	13.7#	4.3	42	***	***	***
Products	09	1019.2	17.9#	14.0	10.3#	4.8	55	***	***	***
MyObservatory	10	1017.6	21.3 21.6#	16.7 18.5	12.0 15.4#	8.5 8.9	60 55	***	***	***
Met on Map	11 12	1017.7	19.6#	18.2		11.3	65	***	***	***
Tropical Cyclones				l	16.6#	11.3	77	***	***	***
Aviation Weather	13	1017.1	19.1#	18.5	18.0# 18.2#	14.4	78	***	***	***
Services	14	1017.4	21.0# 21.2#	19.3 19.5	18.2#	15.3	81	***	***	***
Marine Meteorological	15	1018.4	19.0#	19.5	10.6#	8.7	66	***	***	***
Services	16 17	1023.5	13.2#	14.9	9.4#	5.0	64	***	***	***
Weather Information for	17	1025.3	15.7#	11.5	9.4# 7.8#	3.0	56	***	***	***
Sports	18	1025.4	16.2#	13.0	9.3#	0.3	42	***	***	***
Weather Information for	20	1025.4	18.4#	14.8	10.3#	-0.0	37	***	* * *	***
	20	1025.1	17.7#	14.1	8.8#	4.6	54	***	* * *	* * *
Communities	21	1025.1	19.6#	16.8	12.9#	9.8	64	***	***	***
China Weather		1020.8	20.7#	18.5	12.9#	9.8	64 78	***	***	***
World Weather	23 24	1010.5	23.6#	20.2	17.1#	14.5	56	***	* * *	***
Climatological Information	24	1017.3	19.5#	16.8	13.3#	6.9	54	***	* * *	***
Services	25	1019.3	20.6#	17.5	16.0#	12.6	74	***	* * *	***
> Climate Watch	20	1020.6	20.7#	17.8	16.4#	13.2	75	***	* * *	***
> Climate Statistics	27	1020.0	20.1	18.3	16.3	13.2	78	***	* * *	***
> Climate Prediction	28	1020.0	22.9#	19.0	16.3#	14.9	78	***	* * *	***
> Climate Knowledge	30	1020.0	23.1#	19.0	16.1#	14.9	78	***	***	***
> Need More	31	1021.0	20.6#	17.7	15.2#	14.4	62	***	***	***
Information?	51	1021.1	20.0#	1/./	13.2#	10.3	02			
> Global Climate	*** ur	available								
Services	# data	incomplete								
> Other Useful Links										
Climate Forecast	Rainfa	ll measured i	in increment	of 0.5 m	m. Amount o	of < 0.5 mm	cannot be de	tected		
Climate Change	003 🗖 🗆	mportant notice	s I Privacy poli	CV					Last revision date	:<17 May 2
El Nino and La Nina			<u>o</u> [ <u>rmao</u> ] <u>pon</u>							
Earthquakes and										
Tsunamis										
Astronomy, Space										
Weather and										
Geomagnetism										
Time and Calendar										
Radiation Monitoring,										
Assessment and										
Protection										
Educational Resources										
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About us					Ί	'ai Mei	Tuk			
HKO Side Lights			Ye	ar 2017	✓ Month 1	2 🗸 Go				
Our Services			Air	Fempera	ature					
Visitors Figures		Mean	Absolute	Mean	Absolute	Mean Dew	Mean Relative	Total	Prevailing Wind Direction	Mean Wind Speed
Press releases	Day	Pressure (hPa)	Daily Max	(deg.	Daily Min	Point	Humidity	Rainfall (mm)		
Weather Note (Chinese)			(deg. C)	C)	(deg. C)	(deg. C)	(%)		(degrees)	(km/h)
Today's Weather	01	***	23.8	20.6	18.4	***	***	0.0	030	17.4
Warnings	02	***	23.7	19.4	16.2	***	***	0.0	050	8.1
Local Weather	03	***	24.2	19.9	16.9	***	***	0.0	040	5.6
Observations	04	***	24.7	19.5	16.2	***	***	0.0	050	12.4
Weather Forecast	05	***	20.3	17.8	16.0	***	***	0.0	040	13.8
Weather Monitoring	06	***	21.6	18.1	15.9	***	***	0.0	030	13.3
Imagery	07	***	22.3	19.0	16.6	***	***	0.0	040	12.4
Computer Forecast	08	***	19.4	17.0	13.7	***	***	0.0	040	23.1
Products	09	***	19.6	14.6	11.0	***	***	0.0	100	6.3
NyObservatory	10	***	22.2	17.6	13.1	***	***	0.0	260	4.7
Vet on Map	11	***	22.2	18.4	15.2	***	***	0.0	040	11.2
Tropical Cyclones	12	***	20.4	17.9	15.7	***	***	0.0	050	15.7 19.6
Aviation Weather	13 14	***	19.7# 22.3	18.4 19.3	17.5#	***	***	0.0	090	19.0
Services	14	***	22.9	19.5	17.6	***	***	0.0	090	14.5
Marine Meteorological	15	***	18.4	14.4	10.1	***	***	0.0	030	24.2
Services	17	***	13.6#	10.9	8.9#	***	***	0.0	030	17.1
Weather Information for	18	***	16.1	12.0	8.1	***	***	0.0	030	12.7
Sports	19	***	16.4#	13.2	9.4#	***	***	0.0	030	18.4
Weather Information for	20	***	18.0	14.8	10.9	***	* * *	0.0	030	17.6
Communities	21	***	19.0#	14.8	10.9#	***	* * *	0.0	040	17.9
China Weather	22	***	21.2#	16.7	13.8#	***	* * *	0.0	050	13.8
World Weather	23	***	21.8	18.8	16.3	***	* * *	0.0	050	5.4
Climatological Information	24	***	23.8	20.2	16.9	* * *	* * *	0.0	030	14.3
Services	25	***	20.8#	17.0	14.0#	***	* * *	0.0	280	11.1
> Climate Watch	26	***	21.4	17.2	15.2	***	***	0.0	050	14.5
> Climate Statistics	27	***	21.3	17.5	14.9	***	***	0.0	090	14.7
> Climate Prediction	28	***	21.0	18.0	16.0	***	***	0.0	050	10.4
> Climate Knowledge	29	***	23.6#	18.7	16.5#	***	***	0.0	100	11.3
ý 0	30	***	24.9#	19.6	16.5#	***	***	0.0	050	16.4
> Need More	31	***	21.6#	17.6	14.4#	* * *	* * *	0.0	050	13.4
Information?										
> Global Climate	*** ui	navailable								
Services	# data	incomplete								
> Other Useful Links	Daint	- 		- 60 5		£ .0 5				
Climate Forecast	Kainia	in measured	in increment	oi 0.5 m	m. Amount o	M < 0.5  mm	cannot be de	tected		
Climate Change 2	2003 🗖	Important notice	s   Privacy polic	<u>cy</u>					Last revision date	: <17 May 2
El Nino and La Nina										
Earthquakes and										
Tsunamis										
Astronomy, Space										
Weather and										
Geomagnetism										
Time and Calendar										
Radiation Monitoring,										
Assessment and										
Protection										
Educational Resources										

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

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

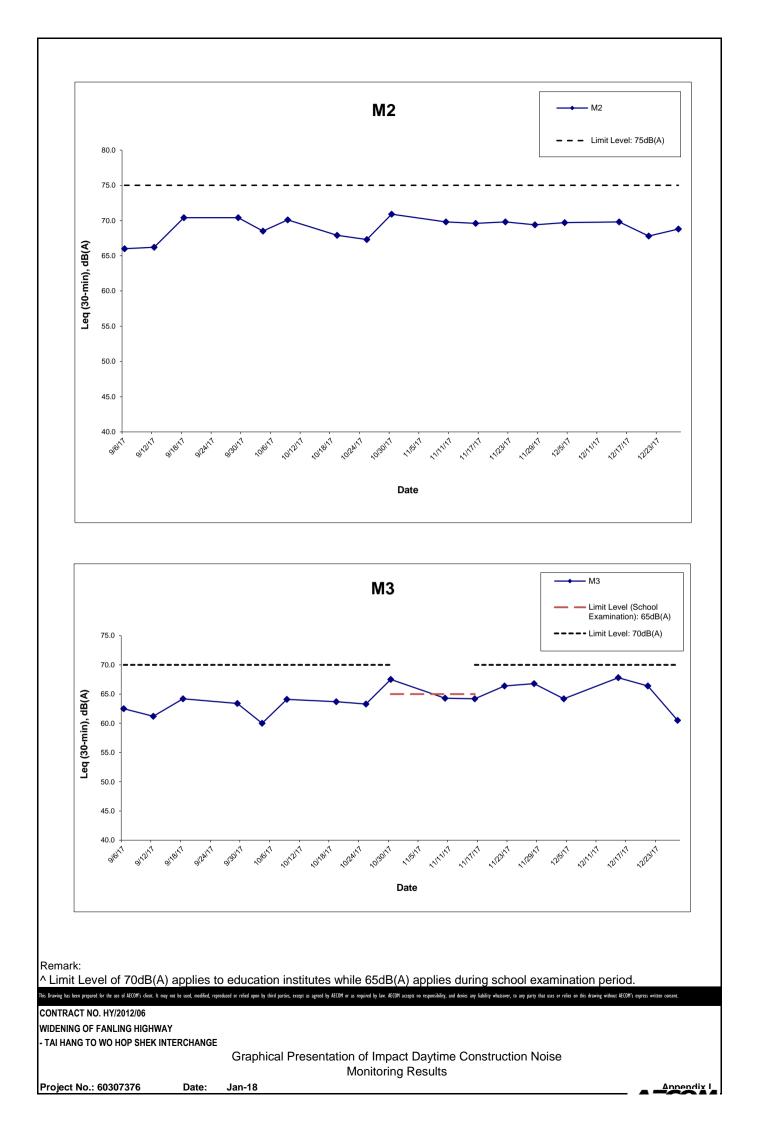
Location : M2 (West Tai Wo - Free Field) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured Noise Level for 30-min, dB(A)				Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
4-Dec-17	10:30	69.7	72.6	64.2	75	N
15-Dec-17	13:30	69.8	71.7	67.2	75	N
21-Dec-17	11:30	67.8	70.0	65.5	75	N
27-Dec-17	14:30	68.8	70.0	66.0	75	N
	Min	67.8	70.0	64.2		
	Max	69.8	72.6	67.2		
	Average	69.1	71.2	65.9		

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

	Meas	Measured Noise Level for 30-min, dB(A)				Exceedance
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
4-Dec-17	10:48	64.2	67.9	60.5	70	N
15-Dec-17	14:50	67.8	70.5	65.3	70	N
21-Dec-17	13:35	66.4	68.0	63.9	70	N
27-Dec-17	14:00	60.5	61.5	56.5	70	N
	Min	60.5	61.5	56.5		
	Max	67.8	70.5	65.3		
	Average	65.5	68.0	62.7		

\* +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	Action					
	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			
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:	5 December 2017	
Time:	13:30	
Inspection No.:	212	

#### Non-compliance

Nil			

#### Observations

[	
	Follow-up Observation(s)
1.	Exposed stockpile without proper cover observed at SA346 was covered entirely by impervious sheeting for dust suppression. (Closed)
2.	Chemical containers without drip tray observed at Ho Ka Yuen Bridge were removed. (Closed)
	New Observation(s)
3.	Colour-faded NRMM label was observed at SA320. The Contractor was advised to ensure valid labels are provided for all equipment before operation.
4.	Chemical containers without drip tray were observed at SA320. The Contractor was advised to provide secondary containment to prevent potential leakage.
	Reminder (s)
	Nil.
	Follow-up Observation(s) – 02/HY/2015
5.	Mud trail observed at the vehicle exit point was removed. (Closed)
	New Observation(s) – 02/HY/2015
	Nil.
	<u>Reminder (s) – 02/HY/2015</u>
	Nil.

Remarks

Nil

	Name	Signature	Date
Prepared by	Sammi Lam	Carla	5 December 2017
Checked by	Y W Fung	1	5 December 2017

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# **Site Inspection Summary**

#### Inspection Information

Contract No.	HY/2012/06
Date:	13 December 2017
Time:	14:30
Inspection No.:	213

#### Non-compliance

Nil

#### Observations

	Follow-up Observation(s)
1.	Colour-faded NRMM label observed at SA320 was replaced with valid label. (Closed)
2.	Drip tray was provided for chemical containers without secondary containment observed at SA320. (Closed)
	New Observation(s)
3.	Exposed slope without proper cover was observed at SA310. The Contractor was advised to cover the slope properly with impervious sheeting for dust suppression.
4.	Silt and debris was found in drainage at SA310. The Contractor was advised to remove the materials and ensure flow of water without obstruction.
	Reminder (s)
	Nil.
	Follow-up Observation(s) – 02/HY/2015
	Nil.
	New Observation(s) – 02/HY/2015
	Nil.
	<u>Reminder (s) – 02/HY/2015</u>
	Nil.

### Remarks

Nil

	Name	Signature	Date
Prepared by	Sammi Lam	Carla	13 December 2017
Checked by	Y W Fung	21	13 December 2017

AECOM

#### Inspection Information

Contract No.	HY/2012/06	
Date:	19 December 2017	
Time:	13:30	
Inspection No.:	214	

#### Non-compliance

Nil

Observations

Follow-up Observation(s)

- 1. Exposed slope without proper cover observed at SA310 was covered properly. (Closed)
- 2. Silt and debris found in drainage at SA310 were removed. (Closed)

#### New Observation(s)

- 3. Inadequate watering for exposed area was observed at SA301. The Contractor was advised to provide adequate watering regularly for dust suppression.
- 4. Excessive accumulation of construction wastes were observed at SA301. The Contractor was advised to remove the wastes regularly to keep the site clean and tidy.

Reminder (s)

Nil.

Follow-up Observation(s) - 02/HY/2015

Nil.

New Observation(s) - 02/HY/2015

- 5. Dusty materials were found near the vehicle exit point. The Contractor was advised to keep the vehicle exit point clear of dusty materials.
- 6. Chemical containers without drip tray were observed. The Contractor was advised to provide secondary containment to prevent potential leakage.

Reminder (s) - 02/HY/2015

Nil.

#### Remarks

Nil

	Name	Signature	Date
Prepared by	Sammi Lam	Carilon	19 December 2017
Checked by	Y W Fung	81	19 December 2017





Contract No.	HY/2012/06	
Date:	27 December 2017	
Time:	13:30	
Inspection No.:	215	

#### Non-compliance

Nil

#### Observations

	Follow-up Observation(s)
1.	Adequate watering was provided for exposed area at SA301 regularly for dust suppression. (Closed)
2.	Excessive accumulation of construction wastes observed at SA301 were removed and the construction materials were stored properly at temporary storage area. (Closed)
	New Observation(s)
3.	Inadequate watering for exposed area was observed at SA320. The Contractor was advised to provide adequate watering regularly for dust suppression.
4.	Colour-faded NRMM label was observed at SA320. The Contractor was advised to provide valid NRMM label for all equipment before operation.
	Reminder (s)
	Nil.
	Follow-up Observation(s) – 02/HY/2015
5.	Dusty materials found near the vehicle exit point were cleaned up. (Closed)
6.	Chemical containers observed without drip tray were removed. (Closed)
	New Observation(s) – 02/HY/2015
	Nil
	Reminder (s) – 02/HY/2015
	Nil.

#### Remarks

Nil

	Name	Signature,	Date
Prepared by	Sammi Lam	Carla	27 December 2017
Checked by	Y W Fung		27 December 2017

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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	0	7
	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			7

# Contract No. HY/2012/06 – Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	EPD referred an air complaint on 24 October 2014.			
	A resident complained against the excavation works of Tai Wo			
23 October	Service Road West between Nam Wah Po & Tai Hang Tsuen, which			
2014	have piled up high stockpiles, causing serious dust nuisance to his house.	Closed		
	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.			
	EPD referred a water complaint on 31 December 2014.			
31	The complainant complained about the muddy river outside Tai Hang			
December	Village Office on 29 December 2014. It was suspected that the muddy	Closed		
2014	water was discharged from the construction works of the Project.			
	He required the EPD to follow up.			
	EPD referred a water complaint on 25 March 2015.			
	The complainant complained about the generation of the smell of			
25 March	gasoline from the Widening of Fanling Highway construction site on			
2015	Tai Wo Service Road West, causing serious nuisance to nearby	Closed		
	houses.			
	The situation has continued for a few weeks and she asked the EPD			
	to follow up as soon as possible.			

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
5 January 2017 (Referred by the Contractor on 13 January 2017)	A complaint was received by the 1823 enquiry and complaint hotline on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017. The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village. The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.	Closed		
22 May 2017 (Referred by the Contractor on 23 May 2017)	A complaint was received by the 1823 enquiry and complaint hotline on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017. A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai Hang Village on Sunday(s). The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

# Contract No. 02/HY/2015 – Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound

	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	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0