

Environmental Protection Department

Contract No. HY/2012/06

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

Monthly EM&A Report For September 2016

[10/2016]

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

> 14 October 2016 By Fax (2805 5028) & Hand

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

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Steven Tang Independent Environmental Checker

c.c. HyD AECOM

Mr. Chung Lok Chin Mr. Y W Fung By Fax (2714 5198) By Fax (2891 0305)

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EXECUTIVE SUMMARY

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

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

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

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

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

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

This report documents the findings of EM&A works conducted in the period between 1 and 30 September 2016. As informed by the Contractor, construction activities in the reporting period were:

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

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 and EP-324/2008/C on 31 January 2012, 17 March 2014 and 27 March 2015 respectively. The current valid VEP was applied on 19 August 2015 and the VEP (EP-324/2008/D) was subsequently granted on 27 August 2015.
- 1.1.4. The scope of the Project comprises mainly:-
 - (i) Widening of a 5.7 km section of Tolo Highway and 3.0 km section of Fanling Highway between Island House Interchange and Wo Hop Shek Interchange from the existing dual 3-lane to dual 4-lane, including construction of new vehicular bridges;
 - Widening of interchange sections at Island House Interchange, Tai Po North Interchange, and Lam Kam Road Interchange from dual 2-lane to dual 3-lane, except Sha Tin bound carriageway at Tai Po North Interchange, which is widened from 3-lane to 4-lane, including realignment of various slip roads;
 - (iii) Modification and reconstruction of highways, vehicular bridges, underpasses and footbridges.
- 1.1.5. The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY/2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" and the entrusted portion to CEDD under Contract No. CV/2012/09 "Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works Contract 3". This report focuses on Contract No. HY2012/06 "Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange" in Stage 2 of the Project only.
- 1.1.6. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) are appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Tolo project under Agreement No. CE 58/2000 Supplementary Agreement No. 3 (SA3) (i.e. the Engineer for the Contract).
- 1.1.7. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of the Contract.
- 1.1.8. AECOM Asia Co. Ltd. was commissioned by China State Construction Engineering (Hong Kong) Limited as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for the Contract and Mott MacDonald Hong Kong Ltd. acts as the Independent Environmental Checker (IEC) for the Contract.
- 1.1.9. The construction phase of the Contract under the EP commenced on 21 November 2013.
- 1.1.10. According to the updated EM&A Manual of Stage 2 of the Project, there is a need of an EM&A programme including air quality and noise monitoring. The EM&A programme for Stage 2 of the Project commenced on 21 November 2013.

1.2 Scope of Report

1.2.1 This is the thirty-fifth 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 September 2016.

1.3 **Project Organization**

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

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

 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 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
- Temporary bridge construction
- House Construction
- Foot Bridge demolition
- Bridge construction
- Piling

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

1.5 Summary of EM&A Programme Requirements

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

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

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

2.2 Monitoring Equipment

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

 Table 2.1
 Air Quality Monitoring Equipment

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

2.3 Monitoring Locations

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

Table 2.2 Locations of Impact Air Quality Monitoring Station

Location	Monitoring Station
AM2 (SR2)	Fanling Government Secondary School

2.4 Monitoring Parameters and Frequency

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

Table 2.3 Air Quality Monitoring Parameters and Frequency

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

2.5 Monitoring Methodology

- 2.5.1 24-hour TSP Monitoring
 - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (iv) A minimum of 2 meters separation from any supporting structure, measured horizontally.
 - (v) No furnace or incinerator flues nearby.
 - (vi) Airflow around the sampler was unrestricted.
 - (vii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (viii) A secured supply of electricity was obtained to operate the samplers.
 - (ix) The sampler was located more than 20 meters from any dripline.
 - (x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xi) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
 - (b) Preparation of Filter Papers
 - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.
 - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
 - (c) Field Monitoring
 - (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminum strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/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 September 2016 is provided in Appendix F.

2.7 Results and Observations

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

Table 2.4	Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM2 (Fanling Government Secondary School)	73.1	70.6 – 76.4	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)	50.7	23.9 – 104.6	200.7	260

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

3 NOISE MONITORING

3.1 Monitoring Requirements

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

3.2 Monitoring Equipment

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

Table 3.1	Noise Monitoring Equipment
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Equipment	Brand and Model
Integrated Sound Level Meter	B&K 2238
Acoustic Calibrator	Rion NC-73

3.3 Monitoring Locations

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

Table 3.2 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
M2	West Tai Wo	1.2m from the ground floor free-field of the Residential
М3	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_{eq(30-minutes)} during non-restricted hours i.e. 07:00 1900 on normal weekdays; L_{eq(5-minutes)} 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_{eq}, L₁₀ and L₉₀ 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 September 2016 is provided in Appendix F.

3.7 Monitoring Results

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

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

Location	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eq (30 mins)}	L _{eq (30 mins)}	L _{eq (30 mins)}
M2* (West Tai Wo)	69.4	68.8 - 69.9	75
M3 [#] (Fanling Government Secondary School)	64.6	62.5 – 65.6	65/70

*+3dB(A) Façade correction included

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

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

4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

4.1 Site Inspection

- 4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting period, 4 site inspections were carried out respectively on 6, 15, 20 and 28 September 2016 for the Contract. While no specific observation was recorded, recommendations on remedial actions were given to the Contractor for precautionary purpose.
- 4.1.2 The environmental site inspections summaries are provided in Appendix K.
- 4.1.3 Particular observations during the site inspections are described below:

Air Quality

4.1.4 Mud trails and dusty materials were observed on the road at SA310, public access road at SA328, and pedestrian road at NB49. The Contractor should clean up the mud trails for dust suppression, spray water to maintain the road surface wet, provide wheel washing at vehicle entrance/exit and implement measures to prevent exposed earth from being carried to the road.

Noise

4.1.5 No adverse observation was identified in the reporting period.

Water Quality

- 4.1.6 Surface runoff of muddy water was observed at SA328 and NB64. The Contractor should remove the muddy water and implement measures to prevent surface runoff from flowing to public road.
- 4.1.7 The newly constructed drainage at NB64 was too shallow and not steep enough that surface runoff of muddy water may potentially flow towards the public road. The Contractor should implement measures to prevent surface runoff from flowing away from the site.

Chemical and Waste Management

- 4.1.8 Poor housekeeping was observed at NB64, SA328, SA340 and SA341. The Contractor should improve the condition and keep the site clean the tidy.
- 4.1.9 Rubbish was found in drip tray of machine at AW1. The Contractor should remove the rubbish properly.
- 4.1.10 Excessive accumulation of construction wastes were observed at SA328. The Contractor should transport wastes off site as soon as possible.

Landscape and Visual Impact

4.1.11 No adverse observation was identified in the reporting period.

Miscellaneous

4.1.12 Retained water was found at SA341. The Contractor should clear the water to prevent mosquito breeding.

4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contractor has registered as chemical waste producers for the Contract. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 4.2.2 As advised by the Contractor, 2,021 m³ of inert C&D material was generated in the reporting month (564 m³ disposed of as public fill to Tuen Mun 38, 962 m³ of inert C&D materials was reused on site, 495 m³ of inert C&D materials was reused in other projects and 0m³ was broken concrete). For C&D wastes, 50 m³ of general refuse was disposed of at NENT landfill, 56 kg of paper/cardboard packaging, 0 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.

Table 4.1Summary of Waste Flow Table

Waste Type	Actual Amount	Disposal/Reuse Locations		
Inert C&D materials disposed as public fill	564 m ³	Tuen Mun 38		
General refuse	50 m³	NENT Landfill		
Paper/cardboard packaging	56 kg	Recycling Contractors		
Plastics	0 kg	Recycling Contractors		
Metals	0 kg	Recycling Contractors		
C&D materials reused on site	962 m ³	Site Area		
C&D materials reused in other projects	495 m ³	Other projects		
C&D materials reused in NENT for backfilling	564 m ³	NENT Landfill		
Chemical wastes	0 kg	Licensed Contractors		

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

4.3 Environmental Licenses and Permits

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

Table 4.2	Summary	of Environmental Licensing and Permit Status
	Gaininai	er Environnen Electronig and Formit etatue

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

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Remarks
WDO	Billing Account for Disposal of Construction Waste	7017860	N/A	N/A	СЅНК	Waste disposal in Contract HY/2012/06
		GW-RN0382-16	27/05/2016	3/11/2016	СЅНК	Zone 4 Installation of Noise Barrier on Weekdays (North Bound)
		GW-RN0401-16	11/06/2016	23/10/2016	CSHK	Zone 4 Installation of Ho Ka Yuen Footbridge (North Bound)
		GW-RN0490-16	09/07/2016	29/10/2016	СЅНК	Zone 4 Road Marking Alternation near HKYF (South Bound)
		GW-RN0534-16	15/07/2016	09/12/2016	СЅНК	Zone 4 Road Resurfacing at Slip Road of Jockey Club Rd and Fanling Highway A Bound (South Bound)
NCO	Construction Noise Permit	GW-RN0588-16	07/08/2016	30/10/2016	СЅНК	Zone 4 Road Marking Alternation between CH24.0 and 24.4 (South Bound)
		GW-RN0587-16	13/08/2016	14/10/2016	CSHK	Zone 2 Demolition of Tai Wo Footbridge
		GW-RN0609-16	21/08/2016	23/10/2016	СЅНК	Zone 2 Concreting at south bound of Fanling Highway near Yuen Leng
		GW-RN0612-16	21/08/2016	16/10/2016	CSHK	Zone 2 Tree Felling near Tai Hang
		GW-RN0630-16	21/08/2016	16/10/2016	СЅНК	Zone 4 Tree Felling near Wo Ho Shek Village
		GW-RN0651-16	06/09/2016	28/10/2016	CSHK	Zone 4 Installation of Ho Ka Yuen

Statutory	License/	License or	Valid	Period	License / Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	Romanio
						Footbridge at Tai Wo Service Road West
		GW-RN0693-16	09/09/2016	28/10/2016	СЅНК	Zone 4 Concreting for Ho Ka Yuen Footbridge
		GW-RN0671-16	18/09/2016	30/10/2016	СЅНК	Zone 4 Road Marking Alternation at North Bound of Fanling Highway, between CH23.4 and CH23.8
		GW-RN0681-16	13/09/2016	15/10/2016	СЅНК	Zone 4 Demolition of Ho Ka Yuen Footbridge Fanling Highway between CH23.5 and CH23.6
		GW-RN0715-16	25/09/2016	13/11/2016	СЅНК	Zone 4 Demolition of Sign Gantry Northbound of Fanling Highway between CH23.7 and CH23.9

4.4 Implementation Status of Environmental Mitigation Measures

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

4.5 Summary of Exceedances of the Environmental Quality Performance Limit

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

4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

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

5 FUTURE KEY ISSUES

5.1 Construction Programme for the Coming Months

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

5.2 Key Issues for the Coming Month

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

5.3 Monitoring Schedule for the Coming Month

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

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

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

6.2 Recommendations

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

Air Quality Impact

• The Contractor should clean up the mud trails and dusty materials on roads for dust suppression, spray water to maintain the road surface wet, provide wheel washing at vehicle entrance/exit and implement measures to prevent exposed earth from being carried to the road.

Noise Impact

• No adverse observation was identified in the reporting period.

Water Quality Impact

• The Contractor should remove the muddy water and implement measures to prevent surface runoff from flowing to public road.

Chemical and Waste Management

- The Contractor should improve the housekeeping condition and keep the site clean the tidy.
- The Contractor should remove the rubbish in drip trays.
- The Contractor should transport construction wastes off site as soon as possible to avoid excessive accumulation of wastes.

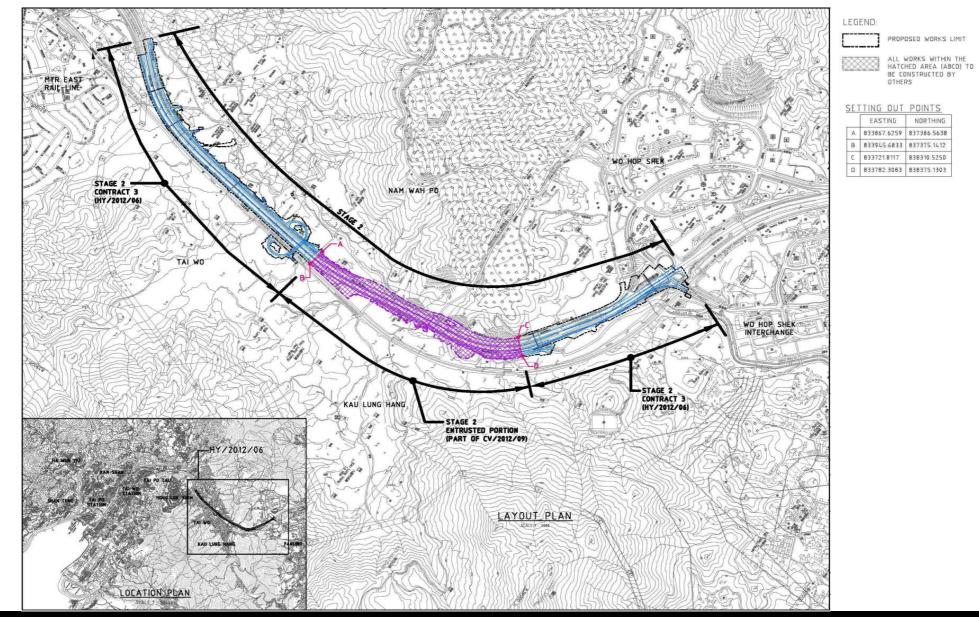
Landscape and Visual Impact

• No adverse observation was identified in the reporting period.

Miscellaneous

• The Contractor should remove retained water to prevent mosquito breeding.

FIGURES

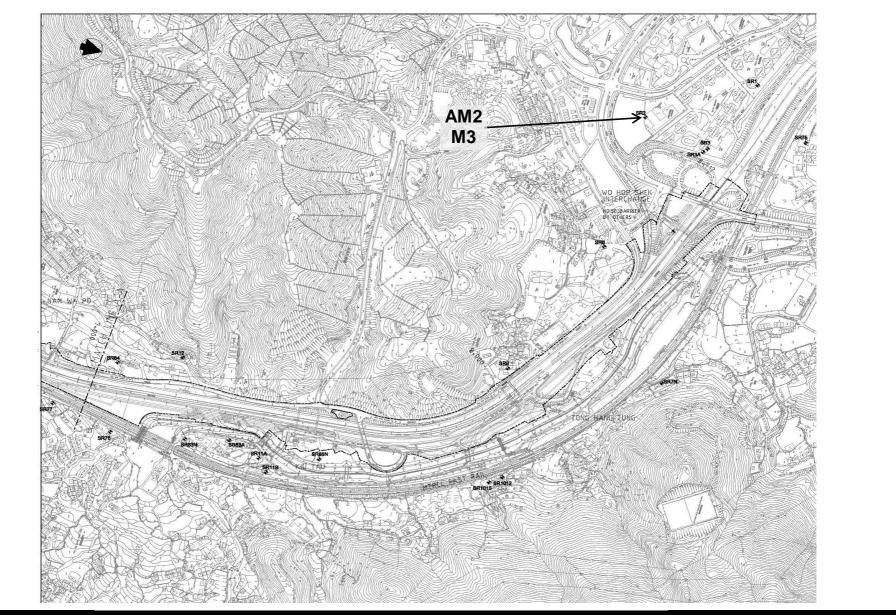


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CONTRACT NO. HY/2012/06 WIDENING OF FANLING HIGHWAY - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

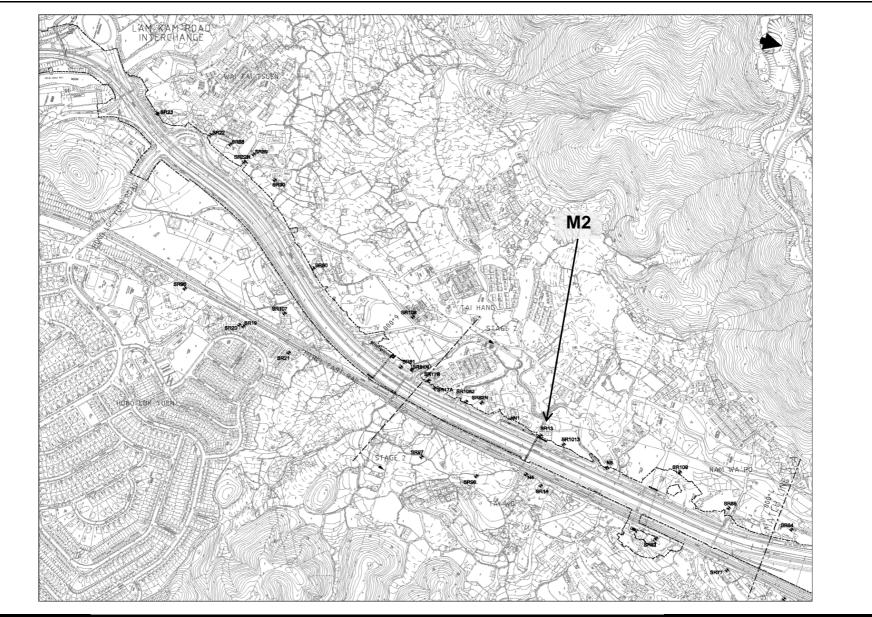


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Locations of Monitoring Station

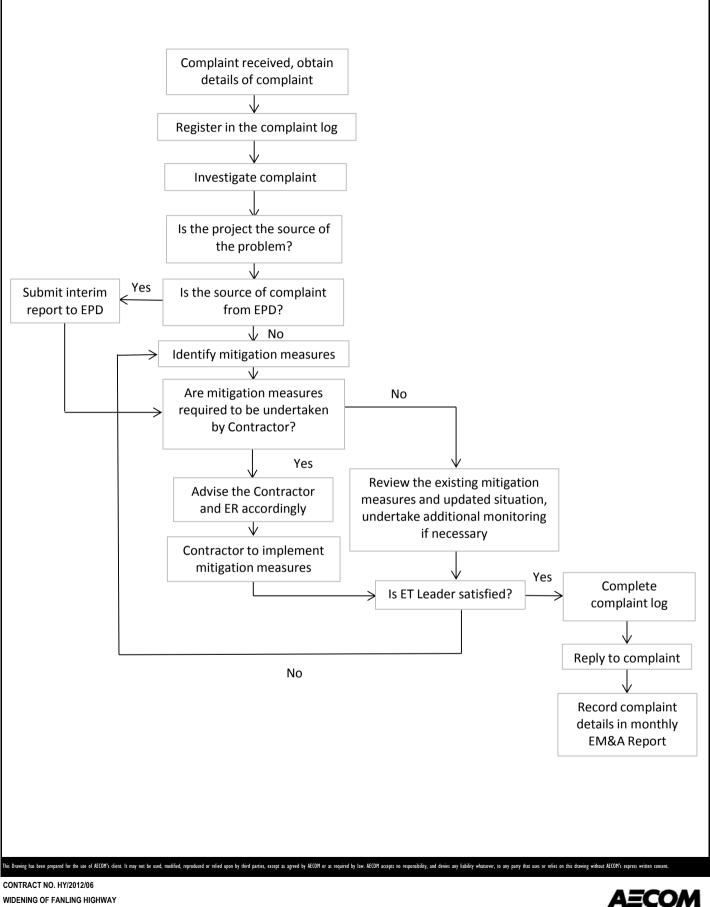


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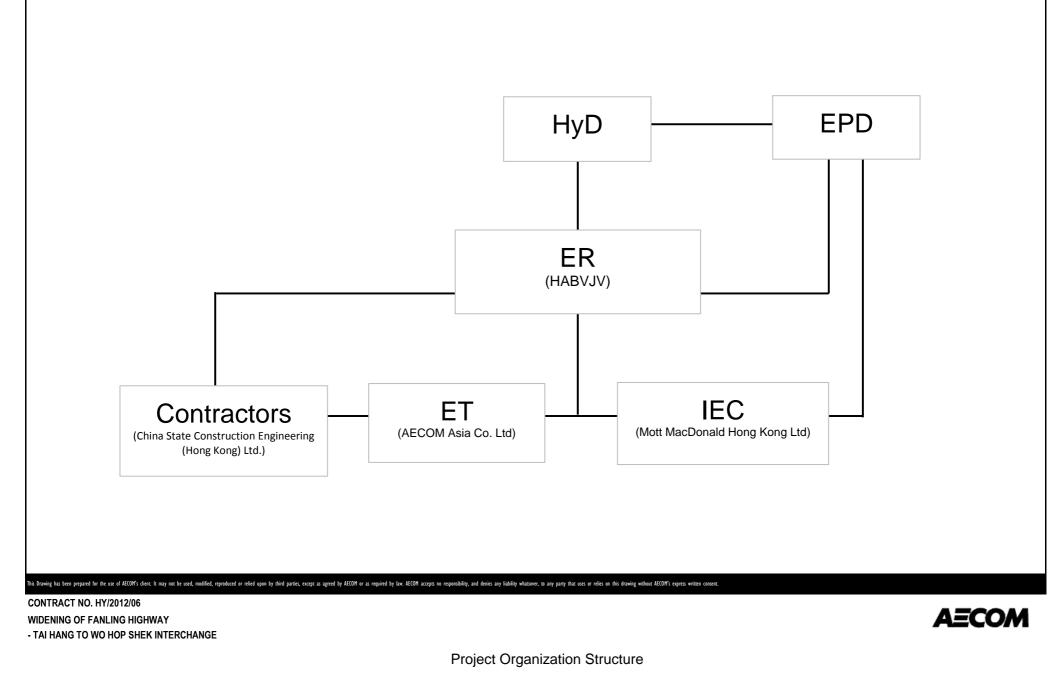


Locations of Monitoring Station



- TAI HANG TO WO HOP SHEK INTERCHANGE

APPENDIX A PROJECT ORGANIZATION STRUCTURE



Date: Dec 2013

APPENDIX B CONSTRUCTION PROGRAMMES

Contract C		Dur. % Complete	Rem. Duration		Start	Finish	Total Float			2016		
	Condition								Sep	Oct	Nov	
General	Jonution											
Contract Co												
Contract C KD15	KD-15 (707d) - N1:Achievement:	0%	0	0		18-Oct-16*	-53			18-Oct-16* KD-15 (7)	07d) - N1:Achievement: Der	nolition
POSSA323A	Demolition of Ho Ka Yuen Site Area SA323A (360d) (not	0%	0	0	20-Sep-16		1388		♦ Site Are	a SA323A (360d) (not requi	,	
POSSA327	required) Site Area SA327 (180d)	0%	0	0	20-Sep-16*		-628			a SA327 (180d)		
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Sep-16*		-430			a SA327A (730d)		
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Sep-16*		-295			a SA345 (0d)		
	h. 5640 to 5880)											
	ier Along TWSR-West and	d Laving	New Uti	lities								
DSD Southe	ern Trunk Sewer, Water Main	, Fire Mair	n Works				-					
DSD South	nern Trunk Sewer, Water Ma DSD Truck Sewer Laying complete	ain Fire M 0%	ain Worl	<mark>(S</mark> 0	01-Nov-16		2				DSD Truck Sewer Laying	r comple
DSD0100	DSD Trunk Sewer Laying - overall	0%	20	20	01-Nov-16	23-Nov-16	2					
DSD0110	testing (Zone 1 & Zone 2) DSD Trunk Sewer Laying - overall	0%	18	18	24-Nov-16	14-Dec-16	2					
DSD0120	inspection DSD Trunk Sewer Laying - overall	0%	12	12	15-Dec-16	30-Dec-16	2					
NB42 (Ch.5	640-5740)-TWSR West Side										 	
Noise Barr	ier Works											
NB00131	NB42 (Ch5640-5740) - NB panel installation	0%	5		20-Sep-16	24-Sep-16	785					
DSD South TSZ10140	nern Trunk Sewer, Water Ma Firemain installation (along NB42)	ain Fire M 16.67%	ain Worl 25		20-Aug-16 A	20-Oct-16	269				<u> </u>	
	5750-5810)-TWSR West Side											
DSD South	nern Trunk Sewer, Water Ma	ain Fire M										
TSZ10190	Firemain installation (along NB42A)	50%	10	20	20-Aug-16 A	30-Sep-16	-95					
	5820-5880)-TWSR West Side	e										
Noise Barr NB00250	NB47B (Ch5820-5880)- NB post	83.05%	10	59	20-Aug-16 A	30-Sep-16	780	·	l			
Noise Barri	installation ier Along Fanling Highwa	y N/B										
Site Clearar	nce & Demolition of Existing S						-					
Undergrou ADVZ20175	Ind Utility Works All UU and backfill along TWSR-W	0%	0	0		02-Dec-16	-175				02-Dec-16	♦ All U
ADVZ20180	complete Utility cable changeover period	0%	184	184	02-Nov-16	04-May-17						
ADVZ20182	(NWT) Additional Utilitly cable changeover	0%	274	274	02-Nov-16	02-Aug-17						
	period (PCCW, HCG)					Ŭ						
	Road Works											
Ch 5640-58 RDZ10090		0%	470	470	00 Dec 40	45 101 47	400					
RD210090	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	0%	176	176	02-Dec-16	15-Jul-17	-123					
	ier Along TWSR-West and 880-5930)-TWSR West Side	Laying	New Uti	lities								
	880-5930)-TWSR West Side ier Works NB47 (Ch5880-5930)- NB post	Laying	New Uti		20-Sep-16	08-Oct-16	754					
NB47 (Ch.58 Noise Barr NB00290 NB48 (Ch.59	880-5930)-TWSR West Side ier Works NB47 (Ch5880-5930)- NB post installation 995-6120)-TWSR West Side	0%	16	16	20-Sep-16	08-Oct-16	754					
NB47 (Ch.52 Noise Barr NB00290 NB48 (Ch.55 DSD South	880-5930)-TWSR West Side ier Works NB47 (Ch5880-5930)- NB post installation 995-6120)-TWSR West Side hern Trunk Sewer, Water Ma	0% ain Fire M	16 ain Worł	16 (S								
NB47 (Ch.56 Noise Barr NB00290 NB48 (Ch.59 DSD South TSZ10440	880-5930)-TWSR West Side ier Works NB47 (Ch5880-5930)- NB post installation 995-6120)-TWSR West Side hern Trunk Sewer, Water Ma Firemain installation (along NB48, 0-60m)	0% ain Fire M 49.36%	16 <mark>ain Worl</mark> 79	16 (S 156	20-Jun-16 A	22-Dec-16	-146					
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THBF0380Steel Staircase on site (THFB-THBF0390Steel Bridge prTHBF0400Steel Bridge av (THFB)TWSR-West/ FL Highw THBF0140THP5 - Pile capTHBF0140THP5 - Pile capTHBF0180THP8, THP9 - F Pier HeadTHBF0230THAB3 - BackfitTHBF0235Steel Staircase (THFB-TWSR-)THBF0270THP6, THP7 - F Pier HeadTHBF0310THAB2 - pile capTHBF0410Erect Stairccase side)TWSR-EastFL Highwa THBF0470THBF0480THAB1 - pile capTHBF0480THAB1 - pile cap	e & Bridge (THFB-TWSR-E side)	57.78%	38	90	20-Jul-16 A	04-Nov-16	95			
THBF0390Steel Bridge prTHBF0400Steel Bridge av (THFB)TWSR-West/ FL Highw THBF0140THP5 - Pile capTHBF0140THP5 - Pile capTHBF0180THP8, THP9 - F Pier HeadTHBF0230THAB3 - BackfiTHBF0235Steel Staircase (THFB-TWSR-'THBF0270THP6, THP7 - F Pier HeadTHBF0310THAB2 - pile capTHBF0410Erect Stairccase side)TWSR-EastFL Highwa THBF0470THBF0480THAB1 - pile capTHBF0480THAB1 - BackfiTHBF0520THP2 - Pile cap	e & Bridge available	0%	0	0	05-Nov-16		95		 Steel Staircase & Bridg 	e availab
(THFB)TWSR-West/ FL HighwTHBF0140THP5 - Pile capTHBF0180THP8, THP9 - FPier HeadTHBF0230THBF0235Steel Staircase(THFB-TWSR-1THBF0270THP6, THP7 - FPier HeadTHBF0310THBF0310THAB2 - pile capTHBF0410Erect StairccaseSide)TWSR-East FL HighwaTHBF0470THAB1 - pile capTHBF0480THAB1 - BackfiTHBF0520THP2 - Pile cap	prefabrication (THFB)	2%	49	50	20-Jul-16 A	17-Nov-16	84			
THBF0140THP5 - Pile capTHBF0180THP8, THP9 - F Pier HeadTHBF0230THAB3 - BackfiTHBF0235Steel Staircase (THFB-TWSR-')THBF0270THP6, THP7 - F Pier HeadTHBF0310THAB2 - pile caTHBF0410Erect Staircase side)TWSR-East FL Highwa THBF0470THAB1 - pile caTHBF0480THAB1 - pile ca	available on site	0%	0	0	18-Nov-16		84		♦ Steel Bridge	e availab
THBF0180THP8, THP9 - F Pier HeadTHBF0230THAB3 - BackfiTHBF0235Steel Staircase (THFB-TWSR-'THBF0270THP6, THP7 - F Pier HeadTHBF0310THAB2 - pile caTHBF0410Erect Stairccas side)TWSR-EastFL HighwaTHBF0470THAB1 - pile caTHBF0480THAB1 - BackfiTHBF0520THP2 - Pile cap			00	200	24 Oct 45 A	45 Nov 40	00			
Pier HeadTHBF0230THAB3 - BackfiTHBF0235Steel Staircase (THFB-TWSR-THBF0270THP6, THP7 - F Pier HeadTHBF0310THAB2 - pile caTHBF0410Erect Stairccas side)TWSR-East FL HighwaTHBF0470THAB1 - pile caTHBF0480THAB1 - BackfiTHBF0520THP2 - Pile cap	· · · · · · · · · · · · · · · · · · ·		26	306	31-Oct-15 A					
THBF0235Steel Staircase (THFB-TWSR-1 THP6, THP7 - f Pier HeadTHBF0270THP6, THP7 - f Pier HeadTHBF0310THAB2 - pile caTHBF0410Erect Stairccas side)TWSR-East FL Highwa THBF0470THAB1 - pile caTHBF0480THAB1 - pile caTHBF0520THP2 - Pile cap		93.47%	26	398						
(THFB-TWSR-THBF0270THP6, THP7 - F Pier HeadTHBF0310THAB2 - pile caTHBF0410Erect Stairecas side)TWSR-EastFL HighwaTHBF0470THAB1 - pile caTHBF0480THAB1 - BackfiTHBF0520THP2 - Pile cap		7.41%	25	27	16-Sep-16 A				45 Nov 46 A Steel Steiree	
Pier HeadTHBF0310THAB2 - pile caTHBF0410Erect Stairecasside)Side)TWSR-East FL HighwaTHBF0470THAB1 - pile caTHBF0480THAB1 - BackfiTHBF0520THP2 - Pile ca	-W side)	0%	0	0	01-Feb-16 A	15-Nov-16			15-Nov-16 ♦ Steel Staircas	
THBF0410Erect Stairecas side)TWSR-EastFL Highwa THBF0470THBF0470THAB1 - pile caTHBF0480THAB1 - BackfiTHBF0520THP2 - Pile ca		85.71%	40	280		16-Jan-17				
side) TWSR-East FL Highwa THBF0470 THAB1 - pile ca THBF0480 THAB1 - Backfi THBF0520 THP2 - Pile cap		0%	30 30	30 30	09-Dec-16 16-Nov-16	20-Dec-16				
THBF0470 THAB1 - pile ca THBF0480 THAB1 - Backfi THBF0520 THP2 - Pile cap			30	30	10-110-10	20-Dec-10	140			
THBF0480 THAB1 - Backfi THBF0520 THP2 - Pile cap	ay S/B Side Sec cap & abutment wall	42.11%	33	57	20-Jul-16 A	29-Oct-16	35			
· · · · · · · · · · · · · · · · · · ·	filling (~3m)	0%	20	20	31-Oct-16	22-Nov-16	35			
THBF0730 THP3 - Pile cap	ap, Pier and Pier Head	0%	45	45	23-Nov-16	17-Jan-17	35			
	ap, Pier and Pier Head	0%	45	45	31-Oct-16	21-Dec-16	55			
THBF0770 THP4 - Pile cap	ap, Pier and Pier Head	54.17%	33	72	20-Jul-16 A	29-Oct-16	55			
Lift at TWSR-W Side										
L1520 Lift shaft & roof	of	7.69%	60	65	16-Jul-16 A					
L1530 Structural Lami installation		0%	30	30	01-Dec-16	07-Jan-17				
L1540 RC Platform co	ninated glass wall	0%	30	30	01-Dec-16	07-Jan-17				
	ninated glass wall	27.92%	173	240	02-Jul-16 A	27-Apr-17	2			
L1600 CLP Power ava		23.1%	303	394	21-Jun-16 A	19-Jul-17	6			
Lift at FLHY S/B	connect to bridge			00	20.0	07 1	07			
L1370 Lift shaft & roof	onnect to bridge n & ordering period vailable (by CLP)	0%	90	90	20-Sep-16	07-Jan-17				
	vailable (by CLP)	16.99%	303	365	21-Jun-16 A	19-Jul-17	8			
New Tai Wo Footbridge General	onnect to bridge n & ordering period vailable (by CLP)									

ity ID	Activity Name	Dur. %		Original		Finish	Total				
		Complete	Duration	Duration			Float	Sep	2016 Oct	Nov	Dec
TWFB1060	Steel Staircase & Ramp available on site (TWFB-TWSR-W side)	0%	0	0	02-Nov-16		50			 Steel Staircase & Ramp 	available on
TWFB1090	Steel Bridge prefabrication (TWFB)	46.15%	35	65	15-Aug-16 A	01-Nov-16	615]	
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	02-Nov-16		615			 Steel Bridge available o 	n site (TWFB
TWSR-Wes	st/ FL Highway N/B Side Se	ction									
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	81.82%	34	187	18-Feb-16 A	31-Oct-16	81				
TWFB1240	TWAB2 - pile cap & abutment wall	46.88%	34	64	20-Jul-16 A	31-Oct-16	619				1 1 1 1
TWFB1250	TWAB2 - Backfilling (~4m)	0%	27	27	01-Nov-16	01-Dec-16	619				-
TWFB1260	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		01-Dec-16	619			01-Dec-16	 Steel Stair
TWFB1300	TWP4, TWP5 - Pile cap, Pier and Pier Head	87.36%	34	269	16-Nov-15 A	31-Oct-16	51				1 1 1 1
TWFB1340	TWAB1 - pile cap & abutment wall	86.29%	34	248	22-Oct-15 A	31-Oct-16	31				, , , ,
TWFB1350	TWAB1 - Backfilling (~3m)	0%	20	20	01-Nov-16	23-Nov-16	31				
TWFB1360	Steel Ramp ready for erection	0%	0	0		23-Nov-16	31			23-Nov-16 ♦ Stee	Ramp ready
TWFB1370	(TWFB-TWSR-W side) Erect Stairecase (TWFB-TWSR-W	0%	60	60	02-Dec-16	21-Feb-17	619				
TWFB1380	side) Erect Ramp	0%	60	60	24-Nov-16	13-Feb-17	31				i 1
Crossing F	anling Highway Section										1 1 1 1
TWFB1410	TWP2 - Predrilling	0%	18	18	01-Dec-16*	21-Dec-16	0				1 T
Lift at TWS	R-W Side										1 1 1 1
L1670	Lift shaft & roof	41.75%	60	103	21-Jun-16 A	30-Nov-16	530				
L1680	Structural Laminated glass wall installation	0%	30	30	01-Dec-16	07-Jan-17	577				
L1690	RC Link slab connect to bridge	0%	30	30	01-Dec-16	07-Jan-17	530				+
L1730	Lift submission & ordering period	24.81%	203	270	02-Jul-16 A	05-Jun-17	464				<u>.</u>
L1780	CLP Power available (by CLP)	8.49%	334	365	20-Aug-16 A	19-Aug-17	577				1 1
Temporary T	ai Wo Footbridge										1 1 1 1
Design Wo	rks							· · · · · · · · · · · · · · · · · · ·			
TWFB-T1030	Design amendment	3.7%	26	27	19-Aug-16 A	21-Oct-16	19				
TWFB-T1040	Design Available	0%	0	0		21-Oct-16	19		21-Oct-16 ♦ Design	Available	
Constructio						les :					
	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	150	150	22-Oct-16	02-May-17	83				1
	of Existing Tai Wo Footbridge										1
	st/ FL Highway N/B Side Se Demolish existing TWFB across	ction 0%	25	25	25-Oct-16	22-Nov-16	-57				
TWFB-T1230	TWSR-W Watermain & Firemain at NB58 &	39.13%	28	46	29-Aug-16 A		-57	V	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	backfill	33.1370	20	40	23-Aug-10A	24-001-10	-57		•		1 1 1 1
	t Construction										1 1 1 1
Drainage & I Ch 5880-61											1 1 1 1
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	0%	120	120	02-Dec-16						
	(lane I)				02-Dec-10	09-May-17	-146				
Noise Barri		v S/B			02-Dec-10	09-May-17	-146				
NB51 (Ch.59	er Along Fanling Highway 935-6055)-FH S/B Side	y S/B			02-Dec-10	09-May-17	-146				
NB51 (Ch.59 Noise Barri	er Along Fanling Highway 935-6055)-FH S/B Side ier Works		90								
NB51 (Ch.59 Noise Barri NB02280	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90		09-May-17 07-Jan-17					
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTF	0%									
NB51 (Ch.59 Noise Barri NB02280	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTF	0%					292				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier Works Precautionary Measure installation NB53 (0-100m) - Sheet piling &	0% RC I&P AI	rea)	90	20-Sep-16	07-Jan-17	292 477				
NB51 (Ch.59 Noise Barr NB02280 NB53 (Ch.61 NB02430	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier Works Precautionary Measure installation	0% RC I&P Ai	rea) 26	90	20-Sep-16 20-Sep-16	07-Jan-17 21-Oct-16	292 477 477				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri NB02430 NB02440	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos	0% RC I&P A 0% 0%	rea) 26 26	90 26 26	20-Sep-16 20-Sep-16 22-Oct-16	07-Jan-17 21-Oct-16 21-Nov-16	292 477 477 477				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri NB02430 NB02440 NB02450 NB02490	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 IO-100m) - Footing & Wall Structure NB53 ID2-3 (100-125m), 18nos Predrilling	0% RC I&P AI 0% 0% 0%	rea) 26 26 60 10	90 26 26 60 10	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16	07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 15-Nov-16	292 477 477 477 560				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri NB02430 NB02440 NB02450 NB02490 NB02500	er Along Fanling Highway 335-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTH ier 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% RC I&P Ai 0% 0% 0%	rea) 26 26 60 10 27	90 26 26 60 10 27	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16	07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 15-Nov-16 16-Dec-16	292 4777 4777 4777 560 560				
NB51 (Ch.59 Noise Barr NB02280 NB53 (Ch.61 Noise Barr NB02430 NB02450 NB02450 NB02490 NB02500 NB02510	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m), 18nos Piling-1 rigs NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0% RC I&P AI 0% 0% 0% 0%	rea) 26 26 60 10 27 21	90 26 26 60 10 27 21	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16 16-Nov-16 17-Dec-16	07-Jan-17 07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 15-Nov-16 16-Dec-16 13-Jan-17	292 477 477 477 560 560				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri NB02430 NB02440 NB02450 NB02450 NB02500 NB02510 NB02590	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTH ier Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 (0-100m) - Footing & Wall Structure NB53 (D2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m) 18nos Pilina - 1 rias NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 (125-180m) - NB production	0% RC I&P AI 0% 0% 0% 0% 86.79%	rea) 26 26 60 10 27 21 14	90 26 26 60 10 27 21 106	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16 16-Nov-16 17-Dec-16 20-May-16 A	07-Jan-17 07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 10-Feb-17 15-Nov-16 16-Dec-16 13-Jan-17 03-Oct-16	292 292 4777 4777 5600 5600 934				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri NB02430 NB02450 NB02450 NB02490 NB02500 NB02500 NB02590 NB02590	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier 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 NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 (125-180m) - NB post & panel installation	0% RC I&P A 0% 0% 0% 0% 86.79% 0%	rea) 26 26 60 10 27 21 14 5	90 26 26 60 10 27 21	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16 16-Nov-16 17-Dec-16	07-Jan-17 07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 15-Nov-16 16-Dec-16 13-Jan-17	292 292 4777 4777 5600 5600 934				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri NB02430 NB02430 NB02450 NB02450 NB02500 NB02510 NB02590 NB02590 NB02600 NB55 (Ch.63	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier 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 Predrilling NB53 ID2-3 (100-125m) 18nos Predrilling NB53 ID2-3 (100-125m) 18nos Predrilling NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel installation 300-6360)-FH S/B Side (MTR	0% RC I&P A 0% 0% 0% 0% 86.79% 0%	rea) 26 26 60 10 27 21 14 5	90 26 26 60 10 27 21 106	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16 16-Nov-16 17-Dec-16 20-May-16 A	07-Jan-17 07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 10-Feb-17 15-Nov-16 16-Dec-16 13-Jan-17 03-Oct-16	292 292 4777 4777 5600 5600 934				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 NB02430 NB02430 NB02450 NB02450 NB02500 NB02500 NB02500 NB02590 NB02590 NB02600 NB55 (Ch.63 Noise Barri	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier 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 Predrilling NB53 ID2-3 (100-125m) 18nos Predrilling NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel installation 300-6360)-FH S/B Side (MTR ier Works	0% RC I&P A 0% 0% 0% 86.79% 0% RC I&P Ar	rea) 26 26 60 10 27 21 14 5 ea)	90 26 26 60 10 27 21 106 5	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16 16-Nov-16 16-Nov-16 20-May-16 A 04-Oct-16	07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 15-Nov-16 16-Dec-16 13-Jan-17 03-Oct-16 08-Oct-16	292 4777 4777 5600 5600 9344 754				
NB51 (Ch.59 Noise Barri NB02280 NB53 (Ch.61 Noise Barri NB02430 NB02430 NB02430 NB02450 NB02450 NB02500 NB02500 NB02500 NB02590 NB02600 NB02600 NB55 (Ch.63 Noise Barri NB02640	er Along Fanling Highway 935-6055)-FH S/B Side ier Works NB51 ID1-3 (0-25m) - Footing & Wall Structure 125-6300) -FH S/B Side (MTR ier Works Precautionary Measure installation NB53 (0-100m) - Sheet piling & Excavation NB53 ID2-3 (100-125m), 18nos Predrilling NB53 ID2-3 (100-125m), 18nos Pilina- 1 rigs NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel installation 300-6360)-FH S/B Side (MTR ier Works NB55 - Footing & Wall Structure	0% RC I&P A 0% 0% 0% 0% 86.79% 0% C I&P Ar 95.59%	rea) 26 26 60 10 27 21 14 5 ea) 24	90 26 26 60 10 27 21 106 5 5 44	20-Sep-16 20-Sep-16 22-Oct-16 22-Nov-16 04-Nov-16 16-Nov-16 17-Dec-16 20-May-16 A 04-Oct-16	07-Jan-17 21-Oct-16 21-Nov-16 10-Feb-17 15-Nov-16 16-Dec-16 13-Jan-17 03-Oct-16 08-Oct-16	292 477 477 560 560 934 754				
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vity ID 4	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float		2016
NP02000					12 Dec 12	17 Doc 40		Sep	Oct Nov D
r	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	13-Dec-16	17-Dec-16			
	NB61A (75-190m) - NB production	92.39%	15	197	20-Feb-16 A				
	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Oct-16	11-Oct-16	753		
Other Works									
	e & Demolition of Existing S	Structure							
Contract Cor MCLT1050	Apply cert for exemption by DLO by	0%	0	0	20-Sep-16	20-Sep-16	1123		
E	Engineer New MCLT - finishes works	61.6%	48	125	20-May-16 A	16-Nov-16	37		
	New MCLT completion	0%	0	0		16-Nov-16			16-Nov-16* ♦ New MCLT complet
		0 /0	0	Ū		10110710	01		
TCSS Works G54									
	Slow lane footing - G54 (NB61)	0%	0	0		20-Sep-16	620	20-Sep-16 ♦ Slow lane footing - C	G54 (NB61)
Noise Barrier NB63A (Ch.67	r Zone 1 (SBZ1) (with Along TWSR-West and 10-6840)-TWSR West Side	Laying N			: <mark>o 6930)</mark>				
Noise Barrie	r Works NB63A-3 - NB post & panel	0%	5	5	17-Sep-16 A	24-Sep-16	275		
i	installation rn Trunk Sewer, Water Ma								
TSZ10860 [DSD Trunk Sewer laying (along	79.27%	34	164	14-Mar-16 A	31-Oct-16	2		
TSZ10880 V	NB63A) Watermain installation (along	0%	30	30	01-Nov-16	05-Dec-16	1044		
1	NB63A) Firemain installation (along NB63A)	0%	30	30	18-Nov-16	22-Dec-16	1044		
	A (Ch.6860-6920)-TWSR W								
NB04 & NB04/	· · · · · · · · · · · · · · · · · · ·								
	NB64 & NB64A -backfilling	0%	12	12	23-Nov-16	06-Dec-16	-60		
	NB64 & NB64A -NB post & panel	80.63%	31	160	14-Mar-16 A	27-Oct-16	249		
	installation r n Trunk Sewer, Water Ma	in Fire Ma	in Work	S		1			
TSZ10910 [DSD Trunk Sewer laying (along NB64)	80.16%	25	126	20-Apr-16 A	20-Oct-16	-60		
	Watermain installation (along NB64)	0%	30	30	21-Oct-16	24-Nov-16	-60		
TSZ10940 F	Firemain installation (along NB64)	0%	30	30	21-Oct-16	24-Nov-16	-60		
Underground	d Utility Works								
UUZ20220 l	Utility cable laying by Utility companies (Along NB64, 60m)	80.11%	35	176	29-Feb-16 A	01-Nov-16	-216		
Bridge Const									
Kau Lung Han	g Vehicular Bridge								
KLH Bridge -		00/	04	04	20 Son 10	15 Oct 40	770		
	West Ramp - Planting	0%	21	21	20-Sep-16	15-Oct-16	119		-
KLH Bridge - KLH.3430	- Deck 1 Deck 1 - Planting	0%	21	21	20-Sep-16	15-Oct-16	770		
									-
F	Pedestrian walkway Roof & Parapet P2 to P3	0%	60	60	20-Sep-16	30-Nov-16			
F	Pedestrian walkway floor finishes P2 to P3	0%	13	13	01-Dec-16	15-Dec-16	13		
KLH Bridge -	- Deck 2 Pedestrian walkway Roof & Parapet	0%	60	60	20-Soc 16	30-Nov-16	19		
F	P5-P6				20-Sep-16				
F	Pedestrian walkway floor finishes P5-P6	0%	17	17	26-Nov-16	15-Dec-16			
	Pedestrian walkway Roof & Parapet P4 to P5	0%	60	60	20-Sep-16	30-Nov-16	12		
KLH.3270 F	Pedestrian walkway floor finishes P4 to P5	0%	14	14	01-Dec-16	16-Dec-16	12		
KLH.3360 F	Pedestrian walkway Roof & Parapet	0%	60	60	20-Sep-16	30-Nov-16	12		
KLH.3370 F	P3 to P4 Pedestrian walkway floor finishes	0%	14	14	01-Dec-16	16-Dec-16	12		
KLH Bridge -	P3 to P4 - Deck 3					1	1		
	Deck 3 - Planting	0%	21	21	20-Sep-16	15-Oct-16	779		•
	Pedestrian walkway Roof & Parapet	0%	60	60	20-Sep-16	30-Nov-16	12		
F	P6 to P7 Pedestrian walkway floor finishes	0%	14	14	01-Dec-16	16-Dec-16	12		
F	P6 to P7	0,0							
KLH Bridge - KLH.3590 E	- East Ramp East Ramp - Planting	0%	21	21	20-Sep-16	15-Oct-16	779		•
		0,0	- '						
	Ramp R1 - Pile caps and pier	75%	8	32	08-Aug-16 A	28-Sep-16	12		
C	construction (R1P3) Ramp R1 - Ramp construction	0%	40	40	20-Sep-16	07-Nov-16			
((Abutment R1 to R1P1) Ramp R1 - Ramp construction	0%	40	40	29-Sep-16	16-Nov-16			
((R1P1 to P1P3)								
٤	Ramp R1 - Abutment R1 - base slab & wall	95.23%	18	377	22-Jun-15 A				
	Ramp R1 - Abutment R1 - Top slab	0%	30	30	13-Oct-16	16-Nov-16	8		
Z2.KLH.1730 F	Ramp R1 - Abutment R1 - Staircase	0%	30	30	17-Nov-16	21-Dec-16	8		
Z2.KLH.3610 F	Ramp R1 - Steel roof	0%	40	40	18-Oct-16	02-Dec-16	12		
Z2.KLH.3620 F	Ramp R1 - finishes work	0%	30	30	12-Nov-16	16-Dec-16	12		
KLH Bridge -	- Ramp R2]	J		
Z2.KLH.1523	VO 028 - Boundary Wall to Hse	0%	24	24	01-Nov-16*	28-Nov-16	686		
Z2.KLH.1524	190B structure VO 028 - Boundary Wall to Hse	0%	26	26	29-Nov-16	30-Dec-16	686		
1	190B E&M. Drainage Ramp R2 - Pile cap, abutment and	80.07%	60	301	20-Nov-15 A				
r	pier construction Ramp R2 - Ramp construction	0%	45	45	24-Oct-16	14-Dec-16			
	· · ·								
(Ramp R2 - Ramp construction (section after VBP6-7 deck)	0%	35	35	04-Nov-16	14-Dec-16			
	Ramp R2 - Steel roof	0%	40	40	12-Nov-16	30-Dec-16			
Z2.KLH.1920 F	Ramp R2 - finishes work	0%	30	30	26-Nov-16	03-Jan-17	0		
Bridge Road									
Z2.KLH.2040 L	Landscape work of KLHVB	0%	120	120	20-Sep-16	20-Feb-17	650		
Lift at TWSR					a 5 5	at 5			
L01030 F	Pile test (As Confirmed by ER, No pile test is required)	0%	0	0	20-Sep-16	20-Sep-16			
			45	45	20-Sep-16	12-Nov-16	530		
r	Temp work & Pile cap	0%	45	40	20-0ep-10	12-100-10			

vity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration		Finish	Total Float	2016
1.01060	Lift shaft & roof					21-Feb-17		Sep Oct Nov
L01060		0%	52	52				
L01094	Lift submission & ordering period	15.56%	228	270	01-Aug-16 A		453	
L01140	CLP Power available (by CLP)	41.02%	243	412	04-Apr-16 A	20-May-17	685	
Lift at FLH	S/B Earliest date for lift construction	0%	0	0	12 Nov 10		441	◆ Earliest date for lift co
	resume				12-Nov-16	16 D- 15		
L01190	Set up & Pile test	0%	30	30	12-Nov-16	16-Dec-16		
L01200	Temp work & Pier cap	0%	45	45	17-Dec-16	18-Feb-17		
L01300	CLP Power available (by CLP)	38.15%	274	443	04-Apr-16 A	20-Jun-17	660	
Demolition								
	Temporary support installation at existing Fanling Highway	0%	65	65	18-Oct-16	04-Jan-17	0	
	Construction							
Drainage & F	Road Works							
General CW01	1st interface connection to CW at	0%	0	0		15-Nov-16	0	15-Nov-16* ♦ 1st interface conne
	S/B er Along Fanling Highway		-					
	45-6910)-FH S/B Side (MTR		a)					
Noise Barri	er Works							
NB03080	NB62 (0-80m) - Sheet piling & Excavation	0%	18	18	27-Oct-16	16-Nov-16	-66	
NB03090	NB62 (0-80m) - Footing & Wall Structure	0%	45	45	17-Nov-16	11-Jan-17	-66	
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	13-Oct-16	26-Oct-16	-66	
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	27-Oct-16	24-Nov-16	-22	
NB03150	NB62 (80-110m) Under bridge -	0%	14	14	25-Nov-16	10-Dec-16	-22	
NB03160	backfilling NB62 (80-110m) Under bridge - NB	0%	45	45	25-Nov-16	08-Jan-17	837	
NB03180	production NB62 (110-170m) - Sheet piling &	0%	18	18	20-Sep-16	12-Oct-16	-66	
NB03190	Excavation NB62 (110-170m) - Footing & Wall	0%	60	60	13-Oct-16	21-Dec-16		
	Structure 10-6930)-FH S/B Side							
NB70 (Ch.69	-							
NB03280	NB70 - NB production	0%	45	45	20-Sep-16	03-Nov-16	903	
NB03290	NB70- NB post & panel installation	0%	5	5	04-Nov-16	09-Nov-16	728	
North Buff	r Zono 2 (NRZ2) (with	in Zono-	4) (Ch	7025	to 8100			
	er Zone 2 (NBZ2) (with	m zone	+) (Ch.	7925	10 8100			
Bridge Con	struction /uen Footbridge							
General								
HKY1180	Ho Ka Yuen Footbridge Complete	0%	0	0		07-Oct-16	-42	07-Oc-16 ♦ Ho Ka Yuen Footbridge Complete
HKY1190	Existing Ho Ka Yuen Footbridge	0%	0	0		18-Oct-16	-42	18-Oct-16 ♦ Existing Hp Ka Yuen Footbridge Demplished
TWSP-Wos	Demolished t/ FL Highway N/B Side Se	ction						
I VIOIN-VIEA								
HKY1250	HKYAB3 - pile cap & abutment wall	83.33%	5	30	20-Aug-16 A	24-Sep-16	755	
			5 12	30 12		24-Sep-16 11-Oct-16		
HKY1250	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (~4m) Steel Staircase ready for erection	83.33%					755	11-Oct-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W
HKY1250 HKY1260	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W	83.33% 0%	12	12		11-Oct-16	755 755	11-Oct-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W
HKY1250 HKY1260 HKY1270	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side)	83.33% 0% 0%	12	12 0	26-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16	755 755 755	11-Oct-16 ♦ Steel Staircase ready for erection (THFB-TWSR-W
HKY1250 HKY1260 HKY1270 HKY1273	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete	83.33% 0% 0%	12 0 30	12 0 30	26-Sep-16 12-Oct-16	11-Oct-16 11-Oct-16 15-Nov-16	755 755 755 -42	11 Oct-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side)	83.33% 0% 0% 42.31%	12 0 30 15	12 0 30 26	26-Sep-16 12-Oct-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16	755 755 755 -42	
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete	83.33% 0% 0% 42.31%	12 0 30 15	12 0 30 26	26-Sep-16 12-Oct-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16	755 755 755 -42	
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fa	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section	83.33% 0% 0% 42.31% 0%	12 0 30 15 0	12 0 30 26 0	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16	755 755 755 -42 -42 1123	07-Oc-16 ♦ Bridge Structure complete (HKY-TWSR-W side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing F HKY1416 HKY1470	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work	83.33% 0% 0% 42.31% 0% 0% 0%	12 0 30 15 0 0 12	12 0 30 26 0 0 12	26-Sep-16 12-Oct-16 14-Sep-16 A	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16	755 755 -42 -42 1123 -39	07-Oc-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Faller HKY1416 HKY1470 HKY1480	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (~4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway)	83.33% 0% 0% 42.31% 0% 0% 0% 0%	12 0 30 15 0	12 0 30 26 0	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16	755 755 -42 -42 1123 -39	07-Oc-16 ♦ Bridge Structure complete (HKY-TWSR-W side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fi HKY1416 HKY1470 HKY1480 TWSR-East	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (~4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Staircase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect	83.33% 0% 0% 42.31% 0% 0% 0% 0% 10% 10%	12 0 30 15 0 0 12 0	12 0 30 26 0 0 12 0	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16	755 755 -42 -42 1123 -39 -39	07-Oc-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fi HKY1416 HKY1470 HKY1480 TWSR-East HKY1600	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work	83.33% 0% 0% 0% 42.31% 0% 36.67%	12 0 30 15 0 0 12 0 12	12 0 30 26 0 0 12 0 30	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 04-Oct-16	755 755 -42 -42 1123 -39 -39 -39 783	07-Oc-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fi HKY1416 HKY1470 HKY1470 HKY1480 TWSR-East HKY1600 HKY1610	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairccase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side)	83.33% 0%	12 0 30 15 0 0 12 0 12 0 12 0	12 0 30 26 0 0 12 0 30 0 0	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16 20-Aug-16 A	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 04-Oct-16 13-Oct-16 20-Sep-16	755 755 -42 -42 1123 -39 -39 783 -27	07-Oc-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fa HKY1416 HKY1470 HKY1470 HKY1480 TWSR-East HKY1600 HKY1610 HKY1870	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side)	83.33% 0% 0% 42.31% 0%	12 0 30 15 0 0 12 0 12	12 0 30 26 0 0 12 0 30	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 04-Oct-16	755 755 -42 -42 1123 -39 -39 783 -27	07-Oct-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway) 20-Sep-16 ♦ Bridge Structure complete (HKYFB-TWSR-E side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fall HKY1416 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1460 HKY1480 TWSR-East HKY1610 HKY1870 Demolition or	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) f Existing Ho Ka Yuen Footb	83.33% 0% 0% 42.31% 0%	12 0 30 15 0 0 12 0 12 0 12 0	12 0 30 26 0 0 12 0 30 0 0	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16 20-Aug-16 A	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 04-Oct-16 13-Oct-16 20-Sep-16	755 755 -42 -42 1123 -39 -39 783 -27	07-Oct-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway) 20-Sep-16 ♦ Bridge Structure complete (HKYFB-TWSR-E side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fall HKY1416 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1460 HKY1480 TWSR-East HKY1610 HKY1870 Demolition or	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) f Existing Ho Ka Yuen Footb anling Highway Section	83.33% 0% 0% 42.31% 0%	12 0 30 15 0 0 12 0 12 0 12 0	12 0 30 26 0 0 12 0 30 0 0	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16 20-Aug-16 A	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 04-Oct-16 13-Oct-16 20-Sep-16	755 755 -42 -42 1123 -39 -39 -39 783 -27 772	07-Oct-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway) 20-Sep-16 ♦ Bridge Structure complete (HKYFB-TWSR-E side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fi HKY1416 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1450 HKY1480 TWSR-East HKY1610 HKY1870 Demolition of Crossing Fi HKY1690	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) f Existing HO Ka Yuen Footbor anling Highway Section Demolish existing HKY Footbridge	83.33% 0% 0% 42.31% 0%	12 0 30 15 0 0 12 0 12 0 30 30	12 0 30 26 0 0 12 0 30 30 30 4	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16 20-Sep-16 20-Sep-16 20-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 04-Oct-16 20-Sep-16 26-Oct-16	755 755 -42 -42 1123 -39 -39 -39 783 -27 772 772	07-Oct-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway) 20-Sep-16 ♦ Bridge Structure complete (HKYFB-TWSR-E side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1470 HKY1410 Crossing Fall HKY1446 HKY1446 HKY1446 HKY1446 HKY1446 HKY1446 HKY1480 TWSR-East HKY1610 HKY1610 HKY1690 HKY1690 HKY1700	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Staircase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) f Existing Ho Ka Yuen Footb anling Highway Section Demolish existing HKY Footbridge Removal of temporary platform	83.33% 0% 0% 0% 42.31% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	12 0 30 15 0 0 12 0 12 0 12 0 30 30 30	12 0 30 26 0 0 12 0 30 30 30 4 30	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16 20-Sep-16 20-Sep-16 08-Oct-16 14-Oct-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 13-Oct-16 20-Sep-16 26-Oct-16 13-Oct-16 13-Oct-16	755 755 -42 -42 1123 -39 -39 -39 783 -27 772 772 772	07-Oct-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway) 20-Sep-16 ♦ Bridge Structure complete (HKYFB-TWSR-E side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fi HKY1416 HKY1440 HKY1410 Crossing Fi HKY1416 HKY1470 HKY1480 TWSR-East HKY1600 HKY1610 HKY1870 Demolition o Crossing Fi HKY1690 HKY1720	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) f Existing Ho Ka Yuen Footb anling Highway Section Demolish existing HKY Footbridge Removal of temporary platform Reinstate road work	83.33% 0% 0% 0% 42.31% 0%	12 0 30 15 0 0 12 0 12 0 30 30	12 0 30 26 0 0 12 0 30 30 30 4	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16 20-Sep-16 20-Sep-16 20-Sep-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 07-Oct-16 04-Oct-16 04-Oct-16 20-Sep-16 26-Oct-16	755 755 -42 -42 1123 -39 -39 -39 783 -27 772 772 772	07-Oct-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway) 20-Sep-16 ♦ Bridge Structure complete (HKYFB-TWSR-E side)
HKY1250 HKY1260 HKY1270 HKY1273 HKY1400 HKY1410 Crossing Fill HKY1416 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1440 HKY1470 HKY1470 HKY1480 TWSR-East HKY1600 HKY1870 Demolition or Crossing Fill HKY1690 HKY1720	HKYAB3 - pile cap & abutment wall HKYAB3 - Backfilling (-4m) Steel Staircase ready for erection (THFB-TWSR-W side) Erect Stairecase (HKY-TWSR-W side) Finishes Work Bridge Structure complete (HKY-TWSR-W side) anling Highway Section TTA Stage 4 start Finishes Work Bridge Structure complete (THFB-Cross fanling highway) FL Highway S/B Side Sect Finishes Work Bridge Structure complete (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) Steel Ramp finishes work (HKYFB-TWSR-E side) f Existing Ho Ka Yuen Footb anling Highway Section Demolish existing HKY Footbridge Removal of temporary platform Reinstate road work	83.33% 0% 0% 42.31% 0%	12 0 30 15 0 0 12 0 0 12 0 0 30 30 30 30 20	12 0 30 26 0 0 12 0 30 0 30 0 30 0 30 20	26-Sep-16 12-Oct-16 14-Sep-16 A 20-Sep-16 20-Sep-16 20-Sep-16 20-Sep-16 20-Sep-16 14-Oct-16 14-Oct-16 18-Nov-16	11-Oct-16 11-Oct-16 15-Nov-16 07-Oct-16 04-Oct-16 04-Oct-16 20-Sep-16 26-Oct-16 13-Oct-16 13-Oct-16 17-Nov-16	755 755 -42 -42 1123 -39 -39 -39 783 -27 772 772 772 -38 733 733	07-Oct-16 ♦ Bridge Structure complete (HKY-TWSR-W side) ♦ TTA Stage 4 start 04-Oct-16 ♦ Bridge Structure complete (THFB-Cross fanling highway) 20-Sep-16 ♦ Bridge Structure complete (HKYFB-TWSR-E side)
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vity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016
NB4350	NB77 -Pre-drilling (Ch8190-8290)	0%	72	72	21-Oct-16	16-Jan-17	45	Sep Oct Nov [
NB4410	NB77 -Pre-drilling (Ch8290-8390)	0%	60	60	18-Nov-16	07-Feb-17		
Bridge Con	struction							
	p Shek Pedstrian & Cycle Br	idae						
General								
WHS1120	Diversion of existing pedestrian from existing to proposed footbrdige	0%	1	1	27-Oct-16	27-Oct-16	4	1
	st/ FL Highway N/B Side Se		0	<u>^</u>		05 D 40		
WHS1300	Existing WHS bridge structure removed	0%	0	0		05-Dec-16		05-Dec-16 ♦ E
WHS1350	WHSAB2 - Predrilling (VO018)	0%	24	24	06-Dec-16	05-Jan-17		
WHS1990	Erect 1st half ramp	90.91%	9	99	10-May-16 A	29-Sep-16	-57	
WHS2000	Erect temp pedestrian ramp besides 1st half ramp	80%	10	50	27-Jul-16 A	30-Sep-16	-43	
WHS2010	Erect temp access between existing bridge to 1st half ramp	52%	24	50	27-Jul-16 A	19-Oct-16	-57	
WHS2020	Diverse pedestrian from existing	0%	0	0		19-Oct-16	-57	19-Oct-16 Diverse pedestrian from existing ramp to new
Crossing F	ramp to new ramp Fanling Highway Section							
WHS1490	Finishes Work	0%	30	30	20-Sep-16	26-Oct-16	4	
WHS1500	Bridge Structure complete (WHSB-Cross fanling highway)	0%	0	0		26-Oct-16	4	26-Oct-16 ♦ Bridge Structure complete (WHSB-Cro
Demolition of	of Existing Wo Hop Shek Ped	lstrian & C	ycle Brid	lge	I	·		
TWSR-Wes	st/ FL Highway N/B Side Se	ction			00 C 1 5	44.55		
WHS1870	Install Temp support to remove existing ramp	0%	20	20	20-Oct-16	11-Nov-16		
WHS1880	Remove existing ramp for 2nd half new ramp construction	0%	20	20	12-Nov-16	05-Dec-16	-57	
WHS1890	Demolish existing WHS footbridge (TWSR-W side)	0%	30	30	28-Oct-16	01-Dec-16	545	
WHS2030	Remove temp filled platform	0%	30	30	02-Dec-16	09-Jan-17	545	
	anling Highway Section							
WHS1790	Erect Temp platform for bridge demolition	0%	60	60	20-Sep-16	30-Nov-16	436	
WHS1800	Demolish existing WHS Footbridge	0%	60	60	01-Dec-16	20-Feb-17	436	
	t FL Highway S/B Side Sec	tion						
WHS1840	Demolish existing WHS Footbridge	0%	20	20	28-Oct-16	19-Nov-16	4	
Slin Road	abutment wall at W77A Construction							
Drainage &								
	t FL Highway S/B Side Sec	tion						
RDZ41085	Construct Slip Rd Y (Ch7925-8050)(SA346) - remaining	0%	150	150	19-Oct-16	27-Apr-17	297	
	6A Construction							
Retaining W								
W76A1050	t FL Highway S/B Side Sec Drainage work for Caltex access	tion 0%	150	150	20-Sep-16	27-Mar-17	502	
	road	070	100	100	20 000 10	27 Mar 17	002	
	hway Construction							
Drainage &	t FL Highway S/B Side Sec	tion						
RDZ41086	Construct FH S/B Lane 1 & 2	0%	145	145	19-Oct-16	21-Apr-17	291	
RDZ41090	(Ch7925-8000)(SA346) (after HKY Remove FH central barrier	5%	19	20	17-Sep-16 A	13-Oct-16	25	
RDZ41100	TTA for FH N/B Lane 1, 2, 3	0%	6	6	14-Oct-16	20-Oct-16	25	
RDZ41114	construction (Ch7925-8600)(SA340) Construct FH N/B Lane 3	0%	68	68	21-Oct-16	11-Jan-17	174	
	(Ch7925-8600)	576	00					
Other Work Retaining W								
	all W77A t FL Highway S/B Side Sec	tion						
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	21-Nov-16	14-Jan-17	4	
Retaining W	all W77B					I		
TWSR-Eas	t FL Highway S/B Side Sec							
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-40)	82.91%	34	199	01-Mar-16 A	31-Oct-16	66	
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-40)	0%	30	30	01-Nov-16	05-Dec-16	96	
RWZ4.1115	Temp Shoring & Excavation	0%	45	45	21-Nov-16	14-Jan-17	4	
TCSS Work	S	<u> </u>						
TCSS Pre-	Construction Works							
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Sep-16	12-Nov-16	151	
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	12-Nov-16	03-Dec-16	195	
TCSS0140	Revised & Re-submission TCSS	0%	18	18	05-Dec-16	24-Dec-16	150	
G35	shop Drawing							
TCSS1550	Slip road island footing - G35	0%	30	30	21-Oct-16	24-Nov-16	385	
10001000	(CH8410, N/B)							

FVMS2 (Deleted by RFI-138, Pending for VO)

	(0110110,11,2)								
FVMS2 (De	leted by RFI-138, Pending f	or VO)							
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Sep-16	26-Oct-16	530	0	

APPENDIX C IMPLEMENTATION SCHEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

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

Air Quality – Schedule of Recommended Mitigation Measures

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

Noise – Schedule of Recommended Mitigation Measures

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

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Water quality during construction	 Demolition and reconstruction of bridges Prevent off-site migration through use of sheet piles. Minimise duration of works as far as practical. All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	V
	 Road Widening Works, Earthworks and Culvert Extension Works 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. Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. 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. Regular inspections of stilling basins and/or silt traps are required to ensure that sediment is not conveyed into the existing drainage system. Open stockpiles should be covered with a tarpaulin cover. During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. Fuels should be stored in bunded areas such that spillage can be easily collected. 		Ø

Waste – Schedule of Recommended Mitigation Measures

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

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

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Ecology during construction	 Accurate Delineation of Works Area Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. 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. 	During construction	V
	 Vegetation Clearance No fires shall be lit within the works area for the purpose of burning cleared vegetation. The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V
	 Dust generation 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: Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; All temporary site access roads shall be sprayed with water to suppress dust as necessary; All dusty materials should be sprayed with water immediately prior to any handling; and All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		V
	 Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: Bund and cover stock piles to avoid run-off; Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; All vehicle maintenance to be undertaken within a bunded area; and Maximise vegetation retention on-site to maximise absorption (minimise transport). 		V

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Responsibility
Landscape & Visual during construction	 Preservation of Existing Vegetation Trees identified for retention within the project limit would be protected during the works; The tree transplanting and planting works shall be implemented by approved Landscape Contractors. 	During construction	V
	 Temporary Works Areas 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. 		V
	 Hoarding A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs. 		V
	 Top Soils 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. 		#
	 Protection of Important Landscape Features Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected. 		#

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-ho	
	ion anu i			

Location	ation Action 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 - May 31,	2016 Rootsmeter	-/	438320	Ta (K) -	298
Operator Tisch	Orifice I.1		0988	Pa (mm) -	754.38
PLATE VOLUM OR STAR Run # (m3) 1 N 2 N 3 N 4 N 5 N	T STOP (m3) A NA A NA A NA A NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3670 0.9750 0.8700 0.8260 0.6830	METER DIFF Hg (mm) 3.2 6.4 7.9 8.7 12.7	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9884 0.9842 0.9821 0.9811 0.9758	0.7230 1.0094 1.1289 1.1878 1.4288	1.4090 1.9926 2.2278 2.3365 2.8179		0.9957 0.9915 0.9894 0.9884 0.9831	0.7284 1.0170 1.1373 1.1967 1.4394	0.8888 1.2570 1.4054 1.4740 1.7777
Qstd slop intercept coefficie	t (b) = ent (r) =	1.99349 -0.02737 0.99988 Pa/760) (298/5	[[Qa slope intercept coefficie y axis =	t (b) =	1.24829 -0.01727 0.99988 Ca/Pa)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

AECOM

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

Station	Fanling Government Se	condary School (AM2)	Operator:	Shum Kam Yuen
Date:	19-Jul-16		Next Due Date:	19-Sep-16
Model No:	TE-5170		Verified Against:	O.T.S 988
Equipment No.:	A-001-74T		Expiration Date:	31-May-2017

Ambient Condition							
Temperature, Ta	305.0	Kelvin	Pressure, Pa	754.7	mmHg		

Orifice Transfer Standard Information							
Equipment No .:	988	Slope, mc	1.99349	Intercept, bc	-0.02737		
Last Calibration Date:	31-May-16			(0) (000/5)11/2			
Next Calibration Date:	31-May-17	mc x Qstd + bc = [H x (Pa/760) x (298/Ta)] ^{1/2}					

Calibration	Н		Qstd		
Point in	. of water	[H x (Pa/760) x (298/Ta)] ^{1/2}	(m ³ /min) X - axis	W in. of oil	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$
1	6.9	2.59	1.31	4.7	2.14
2	5.7	2.35	1.19	3.9	1.95
3	4.3	2.04	1.04	3.0	1.71
4	3.5	1.84	0.94	2.6	1.59
5	2.4	1.53	0.78	1.7	1.28
By Linear Regressio	n of Y on X				
Slope , mw =	1.5931		Intercept, bw =		0.0581
Correlation Coeffi	cient* =	0.9981			

	Set Point Calculation	
From the TSP Field Calibration Curve, take Qs	$std = 1.21 \text{ m}^3/\text{min} (43 \text{ CFM})$	
From the Regression Equation, the "Y" value a	according to	

m x Qstd + b = $[W x (Pa/760) x (298/Ta)]^{1/2}$

Therefore, Set Point W =
$$(m \times Qstd + b)^2 \times (760 / Pa) \times (Ta / 298) =$$

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

WS

Remarks:

QC Reviewer:

Signature: <u>WS</u>

Date: 19/7)16

4.06

AECOM

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

Station	Fanling Government Secondary School (AM2)		Operator:	Shum Kam Yuen	
Date:	19-Sep-16	2	Next Due Date:	19-Nov-16	
Model No:	TE-5170		Verified Against:	O.T.S 988	1
Equipment No .:	A-001-74T		Expiration Date:	31-May-2017	

Ambient Condition							
Temperature, Ta	304.0	Kelvin	Pressure, Pa	754.8	mmHg		

Orifice Transfer Standard Information							
Equipment No.:	988	Slope, mc	1.99349	Intercept, bc	-0.02737		
Last Calibration Date:	31-May-16	2	max Oatd + ha = III x (Da/7)	$(209/T_{\odot})^{1/2}$			
Next Calibration Date:	31-May-17	mc x Qstd + bc = [H x (Pa/760) x (298/Ta)] ^{1/2}					

		[•] Calibration of	TSP Sampler		
Calibration Point	H in. of water	[H x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X - axis	W in. of oil	$\begin{bmatrix} \Delta W \ x \ (Pa/760) \ x \ (298/Ta) \end{bmatrix}^{1/2} \\ Y-axis$
1	7.0	2.61	1.32	4.7	2.14
2	5.7	2.36	1.20	4.0	1.97
3	4.4	2.07	1.05	3.0	1.71
4	3.6	1.87	0.95	2.4	1.53
5	2.4	1.53	0.78	1.7	1.29
By Linear Regr	ession of Y on X				
Slope, mw =	1.6063	2 ⁴	Intercept, bw =		0.0253
Correlation Coefficient* =		0.9990			
					1
1		Set Point C	alculation		
From the TSP Fi	eld Calibration (Curve, take Qstd = $1.21 \text{ m}^3/\text{min}$ (4)	- 1. A.M. 1.		
		e "Y" value according to	() () ()		
r tom me Regres.	sion Equation, in	e i value according to			
		m x Qstd + b = [W x (]	Pa/760) x (298/1	[a)] ^{1/2}	
175232 BALL 199		2			
Therefore, S	Set Point $W = (n $	$(1 \times Qstd + b)^2 x (760 / Pa) x (760 / Pa)$	Γa / 298) =		3.98
*If Completion C	a finiant < 0.00	0, check and recalibrate again.			
II Conciation C	$0 \in \Pi \subset [0.99]$	o, oneok and recanorate again.			
Remarks:					

QC Reviewer:	WS CHAN	

Signature:

Date: 20/9/16

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	Rupprecht & Patashnick TEOM [®]				
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 140	DOAB				
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	7 May 201	6	_			

*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)	Time		a contraction	bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-16	12:15	-	13:15	28.1	77	0.04530	1812	30.20
2	07-05-16	13:15	-	14:15	28.2	76	0.04659	1863	31.05
3	07-05-16	14:15	-	15:15	28.4	78	0.04560	1824	30.40
4	07-05-16	15:15	-	16:15	28.5	77	0.04434	1774	29.57

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:	0.9969	
Validity of Calibration Record:	7 May 2017	
valuity of Galibration Record.	I Way LOTT	

R	en	na	rk	S:	

QC Reviewer:	YW Fung	Signature: _	M	Date:	09 May 2016

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	Rupprecht & Patashnick TEOM [®]				
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 140	0AB				
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	K _o :	12500		
Last Calibration Date*:	7 May 201	6				

*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)	Time		Amb Cond	bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-16	11:45	-	12:45	28.2	77	0.04623	1847	30.78
2	07-05-16	12:45	-	13:45	28.2	78	0.04708	1885	31.42
3	07-05-16	13:45	-	14:45	28.3	76	0.04591	1836	30.60
4	07-05-16	14:45	-	15:45	28.4	77	0.04333	1726	28.77

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:	0.9964	
Validity of Calibration Record:	7 May 2017	

R	em	nar	ks:

QC Reviewer:	YW Fung	S

C Signature:

Date: 09 May 2016



综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓

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

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



CERTIFICATE OF CALIBRATION

Certificate No.:	16CA0704 03-01			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2238 2800927 / N.009.0		3 9 9 9	Microphone B & K 4188 2791211			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 04-Jul-2016	., LTD.					
Date of test:	07-Jul-2016						
Reference equipment	used in the calib	ration					
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227		Expiry Date: 18-Jun-2017 18-Apr-2017 18-Apr-2017		Traceat CIGISME CEPREI CEPREI	
Ambient conditions							
Temperature: Relative humidity: Air pressure:	22 ± 1 °C 60 ± 10 % 1000 ± 5 hPa						
Test specifications							

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of +20%.
- 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

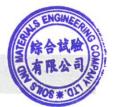
This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Min/Feng Jun Qi Huang Jia

Company Chop:



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

09-Jul-2016

Date:

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

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



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

16CA0704 03-01

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

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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Page

2 of 2

1. **Electrical Tests**

Certificate No.:

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
generated helee	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.1
Linearity range for Leg	At reference range, Step 5 dB at 4 kHz	Pass	0.3	2.2
Emodility lange for Leq	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	
riequency weightings	C	Pass		
	Lin		0.3	
Time weightings		Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
Dook rooponoo	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 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

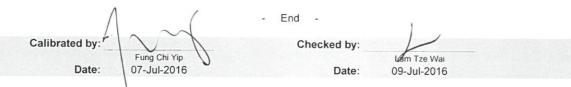
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

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

3, Response to associated sound calibrator

N/A

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



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

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

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香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	16CA0408 02		Page	1	of	2
Item tested						
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2238 2285692	er (Type 1)	B & K 4188 2791211			
Item submitted by						
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 08-Apr-2016	., LTD.				
Date of test:	11-Apr-2016					
Reference equipment	used in the calib	ration				
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227	Expiry Date: 19-Jun-2016 16-Apr-2016 16-Apr-2016		Traceab CIGISME CEPREI CEPREI	
Ambient conditions						
Temperature: Relative humidity: Air pressure:	21 ± 1 °C 50 ± 10 % 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%.
- 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: Huang tian N n/Feng Jun Qi

12-Apr-2016 Company Chop:



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

Date:

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

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16CA0408 02

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香 港 黃 竹 坑 道 3 7 號 利 達 中 心 地 下 , 9 樓 , 1 2 樓 , 1 3 樓 及 2 0 樓 E-mail: smec@cigismec.com Website: www.cigismec.com

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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Page 2 of

2

1. **Electrical Tests**

Certificate No.:

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

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
5	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leg	At reference range, Step 5 dB at 4 kHz	Pass	0.3	L.L
, ,	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 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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



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

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CERTIFICATE OF CALIBRATION

Certificate No.:	15CA1203 03		Page:	1	of	2
Item tested						
Description:	Acoustical Calibra	or (Class 1)				
Manufacturer:	Rion Co., Ltd.					
Type/Model No.:	NC-73					
Serial/Equipment No.:	10307223	N. L ST				
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CO.	, LTD.				
Address of Customer:		 A second constraints 				
Request No.:	-					
Date of receipt:	03-Dec-2015					
Date of test:	, 03-Dec-2015					
Reference equipment	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:	Т	raceabl	e to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	S	SCL	
Preamplifier	B&K 2673	2239857	22-Apr-2016	C	CEPREI	
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	C	EPREI	
Signal generator	DS 360	61227	16-Apr-2016	C	CEPREI	
Digital multi-meter	34401A	US36087050	17-Apr-2016	C	EPREI	
Audio analyzer	8903B	GB41300350	17-Apr-2016	C	EPREI	
Universal counter	53132A	MY40003662	16-Apr-2016	C	CEPREI	
Ambient conditions						
Temperature:	22 ± 1 °C					

Test specifications

Relative humidity:

Air pressure:

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

Test results

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

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



Huang Jian Min/Feng Jun Qi

50 ± 10 %

1010 ± 5 hPa

04-Dec-2015 Company Chop:



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

Date:

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

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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香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 Website: www.cigismec.com E-mail: smec@cigismec.com

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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No .:

15CA1203 03

Page: 2 of 2

1, Measured Sound Pressure Level

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

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	94.04	0.10

Sound Pressure Level Stability - Short Term Fluctuations 2.

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

At 1000 Hz	STF = 0.002 dB

Estimated expanded uncertainty

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 = 987.5 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

Total Noise and Distortion 4,

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

At 1000 Hz	TND = 0.4 %
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.

	A (- End -	1	
Calibrated by:	INT	Checked by:	F	
Date:	Fung Chi Yip 03-Dec-2015	Date:	Lam Tze Wai 04-Dec-2015	

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.

© Soils & Materials Engineering Co., Ltd Form No CARP156-2/Issue 1/Rev.C/01/05/2005 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.

APPENDIX F EM&A MONITORING SCHEDULES

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Sep	2-Sep	3-Sep
4-Sep		6-Sep	7-Sep	8-Sep	9-Sep	10-Sep
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep
				1-hr TSP		
				24-hr TSP		
				Noise		
18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep
			1-hr TSP			
			24-hr TSP			
			Noise			
25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	
		1-hr TSP				
		24-hr TSP				
		Noise				

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Oct
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
					1-hr TSP	
					24-hr TSP	
					Noise	
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
				1-hr TSP		
				24-hr TSP		
				Noise		
	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
20 000	21000	20 000	1-hr TSP	21 000	20 000	20 000
			24-hr TSP			
			Noise			
30-Oct	31-Oct					

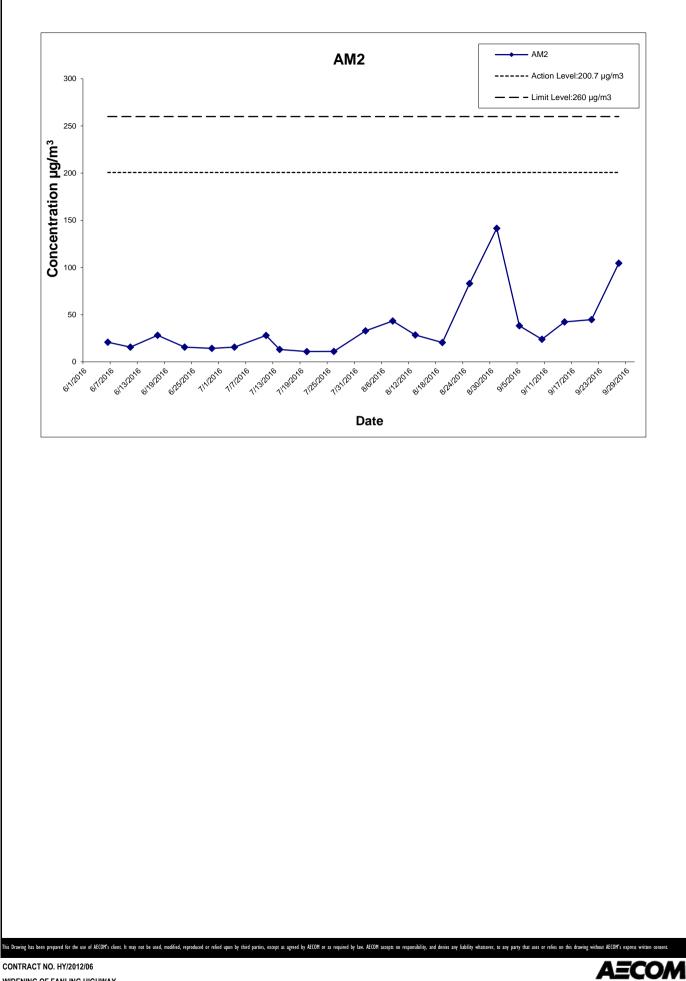
The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

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 ³ /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Action Level	Limit Level
	Condition	Temp. (°C	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)	(µg/m ³)	(µg/m ³)
5-Sep-16	Rainy	27.1	1006.1	1.314	1.314	1.314	1892.2	2.8580	2.9303	0.0723	7702.03	7726.03	24.00	38.2	200.7	260
10-Sep-16	Rainy	26.3	1007.8	1.314	1.314	1.314	1892.2	2.8700	2.9153	0.0453	7726.03	7750.03	24.00	23.9	200.7	260
15-Sep-16	Sunny	29.4	1002.9	1.314	1.314	1.314	1892.2	2.8643	2.9443	0.0800	7750.03	7774.03	24.00	42.3	200.7	260
21-Sep-16	Sunny	27.1	1014.4	1.314	1.314	1.314	1892.2	2.7900	2.8746	0.0846	7774.03	7798.03	24.00	44.7	200.7	260
27-Sep-16	Sunny	31.1	1002.6	1.314	1.314	1.314	1892.2	2.8658	3.0638	0.1980	7798.03	7822.03	24.00	104.6	200.7	260
													Average	50.7		
													Min	23.9		
													Max	104.6]	



WIDENING OF FANLING HIGHWAY

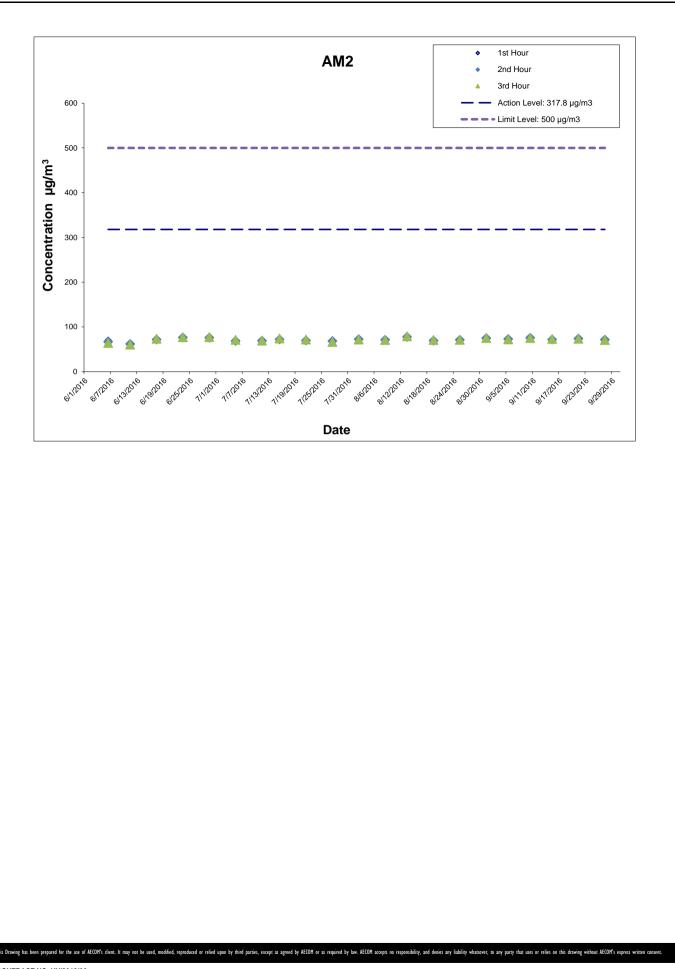
- TAI HANG TO WO HOP SHEK INTERCHANGE

Graphical Presentation of Impact 24-hour TSP Monitoring Results

Appendix G Impact Air Quality Monitoring Results

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

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m ³)	(µg/m ³)	(µg/m³)
5-Sep-16	10:49	73.4	72.7	72.2
10-Sep-16	10:10	76.4	75.7	75.2
15-Sep-16	13:30	72.5	71.6	73.0
21-Sep-16	13:50	72.8	73.8	73.3
27-Sep-16	14:00	72.1	71.3	70.6
			Average	73.1
			Min	70.6
			Max	76.4



CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

APPENDIX H METEOROLOGICAL DATA FOR THE REPORTING MONTH



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What's new About us HKC

Our Services					6 ▼ Month	9 ▼ Go				
Visitors Figures				Tempera		Mean	Mean		Prevailing	Mean
Press releases	Day	Mean Pressure	Absolute Daily	Mean	Absolute Daily	Dew	Relative	Total Rainfall	Wind	Wind
TQSB		(hPa)	Max	(deg. C)	Min	Point (deg. C)	Humidity (%)	(mm)	Direction (degrees)	Speed (km/h)
Today's Weather Warnings			(deg. C)		(deg. C)					
Local Weather	01	1002.5	30.7	27.8	25.4	26.2	91	***	***	***
Observations	02	1001.3	31.0	27.9	26.9	26.4	92	***	***	***
Weather Forecast	03	1002.1	29.6	27.7	25.7	26.5	93	***	***	***
Weather Monitoring	04	1004.7	29.5	27.8	26.7	25.5	87	***	***	***
Imagery	05	1005.7	27.9	26.8	25.5	25.3	92	***	***	***
Computer Forecast	06	1006.2	27.9	26.5	25.8	25.6	95	***	***	***
Products	07	1006.8	28.1	26.0	25.3	25.3	96	***	***	***
MyObservatory	08	1007.5	29.0	26.6	25.5	25.8	96	***	***	***
Met on Map	09	1007.8	28.6	26.2	25.1	25.4	96	***	***	***
Tropical Cyclones	10	1007.3	28.6	25.3	24.4	25.1	99	***	***	***
Aviation Weather Services	11	1008.0	30.1	26.5	24.3	25.4	94	***	***	***
Marine Meteorological	12	1009.8	31.9	28.1	24.8	25.2	85	***	***	***
Services	13	1009.8	30.7	27.8	26.2	25.6	88	***	***	***
Weather Information for	14	1004.1	32.7	29.2	26.0	23.2	71	***	***	***
Sports	15	1002.4	31.7	29.3	27.1	22.9	69	***	***	***
Weather Information for	16	1004.4	30.5	28.2	25.8	23.6	76	***	***	***
Communities	17	1005.3	31.5	28.8	25.9	22.4	69	***	***	***
China Weather	18	1006.5	30.9	27.9	24.4	22.5	73	***	***	***
World Weather	19	1007.6	30.8	27.7	24.7	23.1	77	***	***	***
Climatological Information	20	1011.9	28.4	24.8	22.3	23.2	91	***	***	***
Services	21	1014.1	29.0	26.6	23.7	23.2	83	***	***	***
> Climate Watch	22	1013.2	28.3	27.1	26.0	22.6	77	***	***	***
> Climate Statistics	23	1011.7	29.0	27.2	26.2	23.6	81	***	***	***
> Climate Prediction	24	1011.0	29.5	27.4	26.4	24.0	82	***	***	***
> Climate Knowledge	25	1010.0	30.9	28.0	26.2	24.8	83	***	***	***
> Need More	26	1003.2	32.2	28.4	26.0	24.0	84	***	***	***
Information?	20							***	***	***
> Global Climate	27	1002.1	34.3	30.8	26.7	23.7	68	***	***	***
Services	28	998.7	31.5	30.1	28.7	21.5	60	***		***
> Other Useful Links		1003.6	28.7	25.7	23.4	20.1	71		***	
Climate Forecast	30	1007.3	27.0	24.6	23.0	21.2	81	***	***	***

*** unavailable

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

Tsunamis

Astronomy, Space Weather and

El Nino and La Nina Earthquakes and

Geomagnetism

Time and Calendar



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Daily Extract of Meteorological Observations, September 2016 - Tai Mei Tuk Back

About us HKO Side Lights

Visitors Figures Mean Air Temperature Mean Mean <th>HKO Side Lights</th> <th></th> <th></th> <th></th> <th>Vear 204</th> <th>6 V Month</th> <th></th> <th></th> <th></th> <th></th> <th></th>	HKO Side Lights				Vear 204	6 V Month					
Value Support Press releases Press releases Mean Magnet Mean Mean Mean Mean Mean Mean Mean Mean	Our Services						9 ▼ Go				
Press releases TOSB Today's Weather WarningsDay (Pa)Pressure (DB) (MB) (MB) (MB) (MB) (MB) (MB) (MB) (MB) (MB)Main (MB)<	Visitors Figures		Meen		Tempera	1			Total		Mean
TOSB (hPa) Max (deg. c) (deg. c) (deg. c) <td>Press releases</td> <td>Day</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Wind</td>	Press releases	Day									Wind
Today's Weather Warnings Image: Concept of the second	TQSB		(hPa)	Max		Min		•	(mm)		(km/h)
Local Weather Dial Dial <thdial< th=""> Dial Dial</thdial<>	Today's Weather Warnings			(deg. C)	0,	(deg. C)				_	
Observators 03 **** 30.4 27.7 25.6 **** **** 0.5 070 6.8 Weather Forecast 04 **** 30.4 27.7 25.6 **** **** 0.0 110 15.5 Computer Forecast 05 **** 28.1 26.6 25.4 **** **** 19.5 060 5.0 Products 06 **** 29.1 26.1 25.3 **** 4.0 290 6.2 Weather Forecast 09 *** 29.3 27.0 25.8 **** 0.0 070 3.4 09 *** 29.3 26.6 25.1 **** 31.5 260 4.0 Aviation Weather Services 10 **** 31.1 27.0 24.7 **** 10.0 060 9.8 Services 11 **** 31.8 27.9 25.4 **** 10.0 060 9.8 9.5 Communitie	Local Weather	01	***	29.8	27.7	25.2	***	***	16.0	240	11.3
Weather Monitoring Imagery Or Or <th< td=""><td>Observations</td><td></td><td>***</td><td>31.5</td><td>27.7</td><td>26.2</td><td>***</td><td>***</td><td>8.0</td><td>270</td><td>7.2</td></th<>	Observations		***	31.5	27.7	26.2	***	***	8.0	270	7.2
Weather Information for Sports Oscil <	Weather Forecast	03	***	30.4	27.7	25.6	***	***	0.5	070	6.8
Midging Ord <	Weather Monitoring	04	***	30.4	27.5	25.9	***	***	0.0	110	15.5
Products 07 *** 29.1 26.1 25.3 *** *** 4.0 290 6.2 MyObservatory 08 *** 29.3 27.0 25.8 *** 0.0 070 3.4 Met on Map 09 *** 30.3 26.6 25.1 *** 9.5 290 5.8 Iropical Cyclones 10 *** 28.7 25.6 24.6 *** 31.5 260 4.0 Aviation Weather Services 11 *** 31.1 27.0 24.7 *** 0.0 080 3.8 Barnice Meteorological Services 13 *** 30.5 27.4 25.1 *** 0.0 130 8.7 Services 13 *** 30.5 27.4 25.1 *** 0.0 300 8.0 Sorts 14 *** 32.3 29.3 26.0 **** 1.0 0.60 9.8 Mode ther Information for Communities 16 *** 31.4 28.7 26.5 **** 0.0 160 7.2<	Imagery	05	***	28.1	26.6	25.4	***	***	19.5	060	15.0
MyObservatory No 12012 12012 12013	Computer Forecast	06	***	27.5	26.4	25.6	***	***	19.5	060	5.0
Met on Map OP **** 30.3 26.6 25.1 **** 9.5 290 5.8 Tropical Cyclones 10 **** 30.3 26.6 25.1 **** 9.5 290 5.8 Aviation Weather Services 11 **** 31.1 27.0 24.7 **** 31.5 26.0 4.0 Services 11 **** 31.1 27.0 24.7 **** 0.0 0.80 3.8 Marine Meteorological 12 **** 31.8 27.9 25.4 **** 0.0 130 8.7 Services 13 **** 30.5 27.4 25.1 **** 0.0 300 8.0 Yeather Information for Communities 16 **** 32.8 29.2 26.3 **** 0.0 0.60 9.5 17 **** 32.9 28.8 26.3 **** 0.0 160 7.2 Vorid Weather 19 ****	Products	07	***	29.1	26.1	25.3	***	***	4.0	290	6.2
Tropical Cyclones 0 *** 28.7 25.6 24.6 **** 31.5 260 4.0 Aviation Weather Services 11 **** 31.1 27.0 24.7 **** **** 0.0 080 3.8 Marine Meteorological Services 12 **** 31.1 27.0 24.7 **** **** 0.0 080 3.8 Weather Information for Sports 12 **** 31.8 27.9 25.4 **** 0.0 300 8.7 13 **** 30.5 27.4 25.1 **** 1.0 0.60 9.8 Weather Information for Communities 16 **** 31.4 28.7 26.5 **** **** 0.0 0.60 9.5 16 **** 31.4 28.7 25.0 **** **** 0.0 0.60 9.5 17 **** 32.3 28.2 25.0 **** 0.0 160 7.2 18 **** 32.3 28.2 25.0 **** **** 0.0 110 <td>MyObservatory</td> <td>08</td> <td>***</td> <td>29.3</td> <td>27.0</td> <td>25.8</td> <td>***</td> <td>***</td> <td>0.0</td> <td>070</td> <td>3.4</td>	MyObservatory	08	***	29.3	27.0	25.8	***	***	0.0	070	3.4
Aviation Weather Services 11 **** 31.1 27.0 24.7 **** 0.0 080 3.8 Marine Meteorological Services 11 **** 31.1 27.0 24.7 **** **** 0.0 080 3.8 Weather Information for Sports 12 **** 31.8 27.9 25.4 **** **** 0.0 130 8.7 Weather Information for Communities 14 **** 32.3 29.3 26.0 **** **** 0.0 280 9.5 16 **** 31.4 28.7 26.5 **** 0.0 060 9.8 17 **** 32.3 29.2 26.3 **** **** 0.0 060 9.5 16 **** 31.4 28.7 26.5 **** **** 0.0 160 7.2 Vorld Weather 18 **** 32.3 28.2 25.0 **** **** 0.5 060 12.0 20 **** 28.8 24.9 22.6 **** ****	Met on Map	09	***	30.3	26.6	25.1	***	***	9.5	290	5.8
Marine Meteorological Services 12 **** 31.8 27.9 25.4 **** 0.0 130 8.7 Meather Information for Sports 13 **** 30.5 27.4 25.1 **** 1.0 0.60 9.8 Weather Information for Sports 14 **** 32.3 29.3 26.0 **** **** 0.0 280 9.5 Weather Information for Communities 15 **** 32.8 29.2 26.3 **** **** 0.0 0.60 9.8 16 **** 31.4 28.7 26.5 **** **** 0.0 0.60 9.5 17 **** 32.3 28.2 25.0 **** **** 0.0 160 7.2 World Weather 18 **** 32.3 28.2 25.0 **** **** 0.5 060 12.0 20 **** 28.8 24.9 22.6 **** **** 0.5 120 14.3 21 **** 29.1 26.2 23.8 **** **	Tropical Cyclones	10	***	28.7	25.6	24.6	***	***	31.5	260	4.0
Services 12 13 13 13 13 13 13 13 14 10 060 9.8 Weather Information for Sports 14 14 23.3 29.3 26.0 11 1.0 060 9.8 Weather Information for Communities 15 14 23.3 29.3 26.0 11 1.0 0.0 300 8.0 China Weather 16 13 28.7 26.5 11 11 10 060 9.5 China Weather 16 17 32.9 28.8 26.3 11 11 17 17 13 10 10 060 9.5 China Weather 18 1.4 28.7 26.5 11 11 10 060 12.0 World Weather 18 1.4 28.7 25.2 11 11.0 160 12.0 20 **** 28.8 24.9 22.6 **** 12.0 14.3	Aviation Weather Services	11	***	31.1	27.0	24.7	***	***	0.0	080	3.8
History Substration for Sports 13 1.1.1 1.1.0 1.0.0 0.000 9.8 Weather Information for Sports 14 **** 32.3 29.3 26.0 **** **** 0.0 300 8.0 Weather Information for Communities 15 **** 32.8 29.2 26.3 **** **** 0.0 280 9.5 China Weather 16 **** 31.4 28.7 26.5 **** **** 0.0 060 9.5 If **** 31.4 28.7 26.5 **** **** 0.0 060 9.5 China Weather 117 **** 32.3 28.2 25.0 **** **** 0.0 160 7.2 19 **** 31.8 27.7 25.2 **** **** 0.5 0600 12.0 20 **** 28.8 24.9 22.6 **** **** 0.5 120 14.3 21 **** 29.1 26.2 23.8 **** **** 0.0 100	Marine Meteorological	12	***	31.8	27.9	25.4	***	***	0.0	130	8.7
Sports 14 XXX 32.3 29.3 26.0 XXX 0.0 300 8.0 Weather Information for Communities 15 XXX 32.8 29.2 26.3 XXX XXX 0.0 280 9.5 Icli XXX 32.4 28.7 26.5 XXX XXX 0.0 060 9.5 China Weather 16 XXX 32.9 28.8 26.3 XXX XXX 0.0 060 9.5 Yorld Weather 18 XXX 32.3 28.2 25.0 XXX XXX 0.0 060 12.0 Yorld Weather 19 XXX 32.3 28.2 25.0 XXX XXX 0.0 160 7.2 Yorld Weather 19 XXX 28.8 24.9 22.6 XXX XXX 0.0 160 12.0 Yorld Weather 20 XXXX 28.4 26.5 24.9 XXXX 0.5 120 14.3 Yorld Weather 21 XXXX 29.7 26.8 25.2 XXXX	Services	13	***	30.5	27.4	25.1	***	***	1.0	060	9.8
Veather Information for Communities 15 *** 32.8 29.2 26.3 *** *** 0.0 280 9.5 China Weather 16 *** 31.4 28.7 26.5 *** *** 0.0 060 9.5 China Weather 17 *** 32.9 28.8 26.3 *** *** 0.0 060 9.5 World Weather 18 *** 32.3 28.2 25.0 *** *** 0.0 160 7.2 19 *** 31.8 27.7 25.2 *** *** 0.0 160 7.2 19 *** 28.8 24.9 22.6 *** *** 0.5 060 12.0 20 *** 28.4 26.5 24.9 *** 0.0 110 16.9 21 *** 29.1 26.2 23.8 *** *** 0.0 100 16.4 22 *** 29.4 27.1 25.6 *** *** 0.0 100 16.4	Weather Information for	14	***	32.3	29.3	26.0	***	***	0.0	300	8.0
Weather Information for Communities 16 *** 31.4 28.7 26.5 *** *** 0.0 060 9.5 China Weather World Weather 17 *** 32.9 28.8 26.3 **** **** 0.0 060 9.5 World Weather 18 **** 32.3 28.2 25.0 **** **** 0.0 160 7.2 19 **** 31.8 27.7 25.2 **** **** 0.5 060 12.0 20 **** 28.8 24.9 22.6 **** **** 0.5 120 14.3 20 **** 28.4 26.5 24.9 *** 0.0 100 16.9 21 **** 29.7 26.8 25.2 *** 0.0 070 15.7 23 **** 29.7 26.8 25.2 *** 0.0 100 16.4 25 **** 32.3 27.8 25.6 **** 0.0 100 16.4 25 ***	Sports	15	***	32.8	29.2	26.3	***	***	0.0	280	9.5
Communities 17 *** 32.9 28.8 26.3 *** *** 0.0 050 13.7 World Weather 18 **** 32.3 28.2 25.0 **** **** 0.0 160 7.2 Imate Vacher 19 **** 31.8 27.7 25.2 **** **** 0.5 060 12.0 Services 20 **** 28.8 24.9 22.6 **** **** 0.5 120 9.6 20 **** 28.4 26.5 24.9 **** 0.5 120 14.3 21 **** 29.1 26.2 23.8 **** 0.0 110 16.9 21 **** 29.1 26.2 23.8 **** 0.0 110 16.9 23 **** 29.7 26.8 25.2 **** 0.0 100 16.4 25 **** 32.3 27.8 25.8 ****	Weather Information for		***				***	***			
China Weather 18 *** 32.3 28.2 25.0 *** *** 0.0 160 7.2 Vorld Weather 19 *** 31.8 27.7 25.2 *** *** 0.0 160 7.2 Services 20 *** 28.8 24.9 22.6 *** *** 0.5 060 12.0 Services 20 *** 28.8 24.9 22.6 *** *** 0.5 120 14.3 20 *** 28.8 24.9 22.6 *** *** 0.5 120 14.3 21 *** 29.1 26.2 23.8 *** *** 0.0 110 16.9 21 *** 29.1 26.2 23.8 *** *** 0.0 110 16.9 21 *** 29.7 26.8 25.2 *** *** 0.0 100 16.4 22 *** 32.3 27.8 25.8 *** *** 0.0 100 16.4 25<	Communities		***				***	***			
World Weather Image: Climate of the			***				***	***			
Climatological Information Services 20 **** 28.8 24.9 22.6 **** **** 62.0 120 9.6 20 **** 29.1 26.2 23.8 **** 62.0 120 9.6 21 **** 29.1 26.2 23.8 **** **** 0.5 120 14.3 22 **** 28.4 26.5 24.9 **** 0.0 110 16.9 23 **** 29.7 26.8 25.2 **** **** 0.0 100 16.4 25 **** 32.3 27.8 25.6 **** **** 0.0 120 9.8 26 **** 32.1 28.4 25.7 **** 0.0 160 4.7 27 **** 34.7 30.8 26.8 **** **** 0.0 290 6.6 28 **** 31.5 29.8 28.0 **** **** 0.0 290 18.6 29 **** 28.2 25.8 23.4	World Weather										
Services 21 *** 29.1 26.2 23.8 *** *** 0.5 120 14.3 > Climate Statistics 22 *** 28.4 26.5 24.9 *** *** 0.0 110 16.9 > Climate Prediction 23 *** 29.7 26.8 25.2 *** 0.0 070 15.7 24 *** 29.4 27.1 25.6 *** *** 0.0 100 16.4 25 *** 32.3 27.8 25.8 **** 0.0 120 9.8 26 *** 32.1 28.4 25.7 **** 0.0 160 4.7 27 *** 34.7 30.8 26.8 **** 0.0 290 6.6 28 **** 31.5 29.8 28.0 **** 0.0 290 18.6 29 **** 27.9 25.0 22.8 **** **** 0.0	Climatological Information										
> Climate Watch 22 *** 28.4 26.5 24.9 *** *** 0.0 110 16.9 > Climate Statistics 23 *** 29.7 26.8 25.2 *** 0.0 000 110 16.9 > Climate Prediction 24 *** 29.4 27.1 25.6 *** *** 0.0 100 16.4 25 *** 32.3 27.8 25.8 *** *** 0.0 100 16.4 26 *** 32.1 28.4 25.7 *** 0.0 160 4.7 26 *** 32.1 28.4 25.7 *** 0.0 290 6.6 28 *** 31.5 29.8 26.8 *** *** 0.0 290 6.6 28 *** 31.5 29.8 28.0 *** *** 0.0 290 18.6 29 *** 27.9 25.0 22.8 *** 0.0 250 250 25.8 30 **** 27.9 <td>Services</td> <td></td>	Services										
> Climate Statistics 23 **** 29.7 26.8 25.2 **** **** 0.0 070 15.7 24 **** 29.4 27.1 25.6 **** **** 0.0 100 16.4 25 **** 32.3 27.8 25.8 **** **** 0.0 120 9.8 26 **** 32.1 28.4 25.7 **** **** 0.0 160 4.7 26 **** 34.7 30.8 26.8 **** 0.0 290 6.6 28 **** 31.5 29.8 28.0 **** 0.0 290 18.6 29 **** 28.2 25.8 23.4 **** 0.0 350 9.9 > Other Useful Links 30 **** 27.9 25.0 22.8 **** 0.0 250 250 25.8	> Climate Watch										
> Climate Prediction > Climate Knowledge > Need More Information? > Global Climate Services > Other Useful Links	> Climate Statistics										
> Climate Knowledge 25 *** 32.3 27.8 25.8 *** *** 0.0 120 9.8 > Need More Information? 26 *** 32.1 28.4 25.7 *** *** 0.0 160 4.7 > Global Climate Services 26 *** 31.5 29.8 26.8 *** *** 0.0 290 6.6 28 *** 31.5 29.8 28.0 *** *** 0.0 350 9.9 > Other Useful Links 30 *** 27.9 25.0 22.8 *** *** 0.0 250 2.5	> Climate Prediction										
> Need More Information? 26 *** 32.1 28.4 25.7 *** *** 0.0 160 4.7 > Global Climate Services 27 *** 34.7 30.8 26.8 *** *** 0.0 290 6.6 28 *** 31.5 29.8 28.0 *** *** 0.0 290 18.6 29 *** 28.2 25.8 23.4 *** *** 0.0 350 9.9 30 *** 27.9 25.0 22.8 *** *** 0.0 250 2.5	> Climate Knowledge										
Information? 27 *** 34.7 30.8 26.8 *** *** 0.0 290 6.6 Services 28 *** 31.5 29.8 28.0 *** *** 0.0 290 18.6 > Other Useful Links 30 *** 27.9 25.0 22.8 *** *** 0.0 250 2.5	> Need More										
> Global Climate 28 *** 31.5 29.8 28.0 *** *** 0.0 290 18.6 > Other Useful Links 30 *** 27.9 25.0 22.8 *** 0.0 250 25.0 25.8	Information?										
Services 29 *** 28.2 25.8 23.4 *** *** 0.0 350 9.9 30 *** 27.9 25.0 22.8 *** *** 0.0 250 2.5	> Global Climate										
> Other Useful Links 30 *** 27.9 25.0 22.8 *** *** 0.0 250 25	Services		***	31.5	29.8	28.0	***	***	0.0	290	18.6
	> Other Useful Links		***	28.2	25.8	23.4	***	***	0.0	350	9.9
		30	***	27.9	25.0	22.8	***	***	0.0	250	2.5

*** unavailable

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

Tsunamis

Astronomy, Space Weather and

Climate Change

El Nino and La Nina Earthquakes and

Geomagnetism

Time and Calendar

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

Appendix I Impact Daytime Construction Noise Monitoring Results

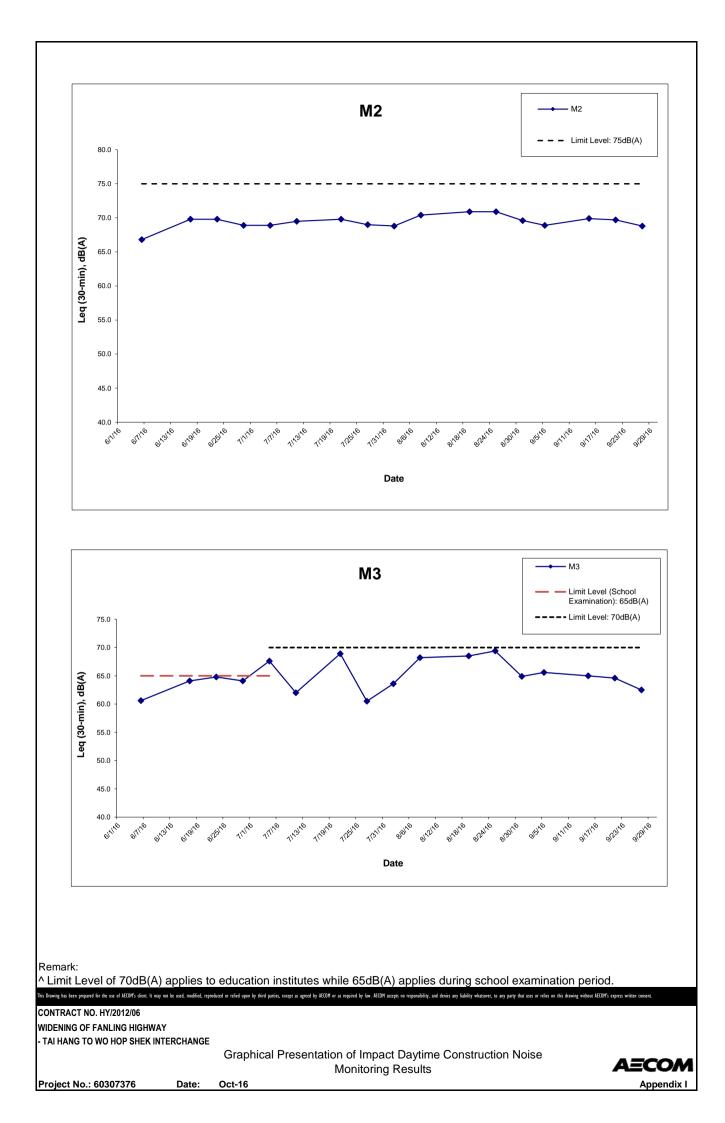
Location : M2 (West Tai Wo - Free Field) Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Meas	ured Noise Lev	dB(A)	Limit Level,	Exceedance	
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
5-Sep-16	10:03	68.9	70.0	65.9	75	N
15-Sep-16	14:30	69.9	71.5	63.0	75	N
21-Sep-16	13:00	69.7	71.1	66.8	75	N
27-Sep-16	14:20	68.8	70.5	66.0	75	N
	Min	68.8	70.0	63.0		
	Max	69.9	71.5	66.8		
	Average	69.4	70.8	65.6		

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

	Meas	ured Noise Lev	dB(A)	Limit Level,	Exceedance	
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
5-Sep-16	10:49	65.6	66.2	62.1	70	N
15-Sep-16	13:30	65.0	67.5	61.0	70	N
21-Sep-16	13:50	64.6	66.1	62.0	70	N
27-Sep-16	14:00	62.5	63.5	60.0	70	N
	Min	62.5	63.5	60.0		
	Max	65.6	67.5	62.1		
	Average	64.6	66.0	61.4		

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

Event / Action Plan for Air Quality

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

Event / Action Plan for Noise Impact

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

APPENDIX K SITE INSPECTION SUMMARIES



Inspection Information	ation
Contract No.	HY/2012/06
Date:	6 September 2016
Time:	14:00
Inspection No.:	147

Non-compliance

Nil

Observations

Follow-up Observation(s)

1. Stagnant water was removed at SA340. (Closed)

- 2. Chemical containers at SA340 were provided with a secondary containment. (Closed)
- 3. Mud trails were removed on the road at SA342. (Closed)

New Observation(s)

- 4. Construction wastes were observed at SA328. The Contractor should clean up the wastes to maintain the site clean and tidy.
- 5. Mud trails were observed on the road at SA328. The Contractor should clean up the mud trails for dust suppression.
- 6. Surface runoff of muddy water was observed at SA328. The Contractor should remove the muddy water and implement preventive measures to prevent sand from being flushed to public road.

Reminder (s)

Nil.

Remarks

Nil

	Name	Signature	Date
Prepared by	David Tsang	David	6 September 2016
Checked by	Y W Fung		6 September 2016

AECOM

Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06	
Date:	15 September 2016	
Time:	14:00	
Inspection No.:	148	

Non-compliance

Nil	

Observations

Follow-up Observation(s)

- 1. Construction wastes at SA328 were covered by tarpaulin temporarily and will be removed when the access road is reopened. (Closed)
- 2. Mud trails on the pedestrian road and site entrance of SA328 were cleared. (Closed)
- 3. Surface runoff of muddy water to public road at SA328 was avoided by sealing off gaps under waterfilled barriers, the public road was also washed to keep clear of muddy water. (Closed)

New Observation(s)

- 4. Poor housekeeping was found at SA340 and SA341. The Contractor should clear the construction wastes properly.
- 5. Retained water was found at SA341. The Contractor should clear the water to prevent mosquito breeding.
- 6. Rubbish was found in drip tray of machine at AW1. The Contractor should remove the rubbish properly.

Reminder (s) Nil.

Remarks

Nil

	Name	Signature	Date
Prepared by	Candy Chung	Church /	15 September 2016
Checked by	Y W Fung		15 September 2016



Inspection I	Information
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Contract No.	HY/2012/06
Date:	20 September 2016
Time:	14:00
Inspection No.:	149

Non-compliance

Nil

Observations

	Follow-up Observation(s)
1.	Poor housekeeping observed at SA340 and SA341 was improved. (Closed)
2.	Ground opening at SA341 was covered to prevent mosquito breeding. (Closed)
3.	Rubbish found in drip tray of machine at AW1 was removed. (Closed)
	New Observation(s)
4.	Mud trail was observed at site entrance of SA310 and pedestrian road at NB49. The Contractor should clean up the mud trails for dust suppression and implement measures to prevent exposed earth from being carried to the road.
5.	Poor housekeeping was observed at NB64. The Contractor should improve the condition to keep the site clean and tidy.
6.	The newly constructed drainage at NB64 was too shallow and not steep enough that surface runoff of muddy water may potentially flow towards the public road. The Contractor should implement measures to prevent surface runoff from flowing away from the site.
	<u>Reminder (s)</u> Nil.

Remarks

Nil

	Name	Signature	Date
Prepared by	Candy Chung	Chuyhot	20 September 2016
Checked by	Y W Fung		20 September 2016

AECOM



1	Inspec	tion	Inform	ation
,	nopeu	ion	monn	auon

Contract No.	HY/2012/06
Contract No.	11/2012/00
Date:	28 September 2016
Time:	14:00
Inspection No.:	150

Non-compliance

Nil

Observations

Follow-up Observation(s)

- 1. Mud trail observed at site entrance of SA310 was cleared. Additional reclaimed asphalt material was laid to cover the mud at SA310 to prevent exposed earth from being carried to the road. Mud trail on pedestrian road at NB49 was also cleared. (Closed)
- 2. Poor housekeeping observed at NB64 was improved. (Closed)
- 3. Additional intercepting channels were constructed at NB64 to collect surface runoff and prevent muddy water from flowing to the public road. (Closed)

New Observation(s)

- 4. Public access road at SA328 was observed dusty. The Contractor should provide sufficient measures to keep the public access road clear of dusty material.
- 5. Excessive accumulation of construction wastes were observed at SA328. The Contractor should remove the wastes and maintain the site clean and tidy.
- 6. Mud trails and dusty materials were observed at haul road of SA328. The Contractor should spray water to maintain the road surface wet, clean up the mud trails for dust suppression and provide wheel washing at vehicle entrance/exit.

Reminder	<u>(s)</u>
Nil.	

Remarks

Nil

	Name	Signature	Date
Prepared by	Oscar Yip	TA	28 September 2016
Checked by	Y W Fung	<i>I</i> ,	28 September 2016

 $\Delta = CO$

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

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

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