Environmental Protection Department

Contract No. HY/2012/06

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

Monthly EM&A Report For August 2015

[09/2015]

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Version:	Rev. 0	Date:	15 September 2015
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Hyder-Arup-Black & Veatch Joint Venture c/o Hyder Consulting Limited 47/F Hopewell Centre 183 Queen's Road East Wanchai, Hong Kong

Dear Sir,

15 September 2015 By Fax (2805 5028) & Post

Attn: Mr. James Penny

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/C
Condition 3.3 – Submission of Monthly EM&A Report – August 2015 for the portion of Stage 2 works under Contract No. HY/2012/06

We refer to the revised Monthly EM&A Report – August 2015 received on 15 September 2015 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – August 2015 (Rev. 0) for the portion of works under Stage 2 of the captioned Project which is

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

managed under Contract No. HY/2012/06.

Terence Kong

Independent Environmental Checker

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

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EXECUTIVE SUMMARY

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

The objective of the Project "Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the The Project is a designated project and governed by an Environmental Permit (EP-324/2008) issued by the EPD on 23 December 2008. Subsequently, the EPD issued a Variation of Environmental Permit (EP-324/2008/A) (VEP) on 31 January 2012 and the VEP (EP-324/2008/B) was granted on 17 March 2014. The current valid VEP was applied on 9 March 2015 and the VEP (EP-324/2008/C) was subsequently granted on 27 March 2015.

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

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

This report documents the findings of EM&A works conducted in the period between 1 and 31 August 2015. As informed by the Contractor, construction activities in the reporting period were:

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

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

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

Breaches of Action and Limit Levels for Noise

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

Complaint, Notification of Summons and Successful Prosecution

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

Future Key Issues

Key issues to be considered in the coming month include:

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

1 INTRODUCTION

1.1 Background

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

1.2 Scope of Report

1.2.1 This is the twenty-second 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 August 2015.

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.

Table 1.1 Contact Information of Key Personnel

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	Terence Kong	2828 5919	2827 1823
Contractor (China State	Environmental	Michael Tsang	9277 4956	2672 2501
Construction Engineering (Hong Kong) Limited)	Officer	C C Chow	9679 6315	2672 2501
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.4 Summary of Construction Works

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

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

1.5 Summary of EM&A Programme Requirements

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

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

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

2.2 Monitoring Equipment

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

Table 2.1 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B)
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.
 - 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 August 2015 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)	75.9	70.6 – 80.9	317.8	500

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

Location	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AM2 (Fanling Government Secondary School)	37.8	18.0 – 65.4	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

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31 & 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
M3	Fanling Government Secondary School	1m from the exterior of the roof top façade of the school

3.4 Monitoring Parameters and Frequency

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

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

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

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) Façade measurement was made at monitoring station M3, while free-field measurement was made at monitoring station M2.
- (b) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at monitoring station M2.
- (c) The battery condition was checked to ensure the correct functioning of the meter.
- (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: $L_{eq(30\text{-minutes})}$ during non-restricted hours i.e. 07:00-1900 on normal weekdays; $L_{eq(5\text{-minutes})}$ 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} , L_{10} and L_{90} 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 August 2015 is provided in Appendix F.

3.7 Monitoring Results

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

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

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eg (30 mins)}	L _{eg (30 mins)}	L _{eg (30 mins)}
M2*	69.7	68.5 – 70.2	75
M3 [#]	63.7	62.1 - 64.2	65/70

^{*+3}dB(A) Façade correction included

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[#] 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 4, 13, 18 and 25 August 2015 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 The Contractor was reminded to cover the soil stockpile entirely for dust suppression. (Reminder)
- 4.1.5 The Contractor should water the site area frequently for dust suppression.
- 4.1.6 Mud trails were observed outside the site entrance. The Contractor should clear the mud trails, and keep the public road and site entrance clear of dusty materials.

Noise

4.1.7 No adverse observation was identified in the reporting period.

Water Quality

4.1.8 No adverse observation was identified in the reporting period.

Chemical and Waste Management

4.1.9 No adverse observation was identified in the reporting period.

Landscape and Visual Impact

4.1.10 No adverse observation was identified in the reporting period.

Miscellaneous

4.1.11 Dusty material was observed on the ground outside Area 329 site entrance. The Contractor should clean up the dusty material frequently and ensure public road is kept clear of dusty materials from the construction site.

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, 1,614 m³ of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0.15 m³ was broken concrete), while 85 m³ of general refuse was disposed of at NENT landfill. 65 kg of paper/cardboard packaging, 350 kg of plastics and 0 kg of metals were collected by recycling contractors in the reporting period. 785 m³ of inert C&D materials was reused on site. 350 m³ of inert C&D materials was reused in other projects. 329 m³ of inert C&D materials was disposed of as public fill at NENT. 0 kg of chemical wastes was collected by licensed contractors in the reporting period.
- 4.2.3 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 4.1.

Table 4.1 Summary of Waste Flow Table

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials	1,614 m ³ (of which 0 m ³	Tuen Mun 38
	was broken concrete)	
General refuse	85 m ³	NENT Landfill
Paper/cardboard packaging	65 kg	Recycling Contractors
Plastics	350 kg	Recycling Contractors
Metals	0 kg	Recycling Contractors
C&D materials reused on site	785 m ³	Site Area
C&D materials reused in other	350 m ³	Other projects
projects	330 111	Other projects
C&D materials reused in NENT	329 m ³	NENT Landfill
for backfilling	329111	INCINI Landilli
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

Statutory	License/	License or Permit	Valid	Period	License / Permit	Remarks
Reference	Permit	No.	From	То	Holder	Tromai no
EIAO	Environmental Permit	EP-324/2008/C	27/03/2015	N/A	HyD	The VEP (EP- 324/2008/C) was subsequently granted on 27 March 2015 which superseded the previous EP (EP- 324/2008/B).
WPCO	Discharge	WT00017159-2013	18/09/2013	30/09/2018	CSHK	

Statutory	License/	License or Permit	Valid	Period	License / Permit	Remarks
Reference	Permit	No.	From	То	Holder	Remarks
	License (Site)					
WDO	Chemical Waste Producer Registration	5213-722-C3822- 01	5/09/2013	N/A	CSHK	Chemical waste produced in Contract HY/2012/06
WDO	Billing Account for Disposal of Construction Waste	7009328	08/09/2009	N/A	CSHK	Waste disposal in Contract HY/2008/09
		GW-RN0119-15	26/02/2015	25/08/2015	CSHK	Zone A Grouting (SA340)
		GW-RN0149-15	15/03/2015	23/08/2015	CSHK	Zone 2 Coring of Road Pavement Samples (South Bound)
		GW-RN0293-15	19/05/2015	30/09/2015	CSHK	Zone 2 Removal of catch fence (VBP 5 & 6)
NCO	Construction Noise Permit	GW-RN0376-15	27/06/2015	29/11/2015	CSHK	Zone 4 Loading of Precast Beam (Precast Yard)
		GW-RN0408-15	04/07/2015	29/11/2015	CSHK	Zone 2 Installation of Precast Beam (South Bound)
		GW-RN0427-15	19/07/2015	30/08/2015	CSHK	Zone 4 Tree Felling (North Bound)
		GW-RN0485-15	05/08/2015	15/08/2015	CSHK	Zone 2 Installation of Catch Fence near Tai Hang Footbridge (South Bound)

4.4 Implementation Status of Environmental Mitigation Measures

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

4.5 Summary of Exceedances of the Environmental Quality Performance Limit

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

4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

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

5 FUTURE KEY ISSUES

5.1 Construction Programme for the Coming Months

- 5.1.1 The major construction works for the Contract in September 2015 will be:-
 - Site clearance
 - Ground investigation
 - Piling works
 - Pipe laying
 - Retaining wall construction
 - Noise Barrier
 - Excavation
 - Backfilling
 - Drainage
 - Temporary bridge construction
 - House Construction
 - Foot Bridge demolition
 - Bridge construction

5.2 Key Issues for the Coming Month

- 5.2.1 Key issues to be considered in September 2015:-
 - 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 September 2015 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 August 2015. 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 was recommended to cover the soil stockpile entirely to reduce dust generation.
- The Contractor was recommended to water the site area frequently for dust suppression.
- The Contractor was recommended to keep the public road and site entrance clear of dusty materials.

Construction Noise Impact

Nil

Water Quality Impact

Nil.

Chemical and Waste Management

Nil.

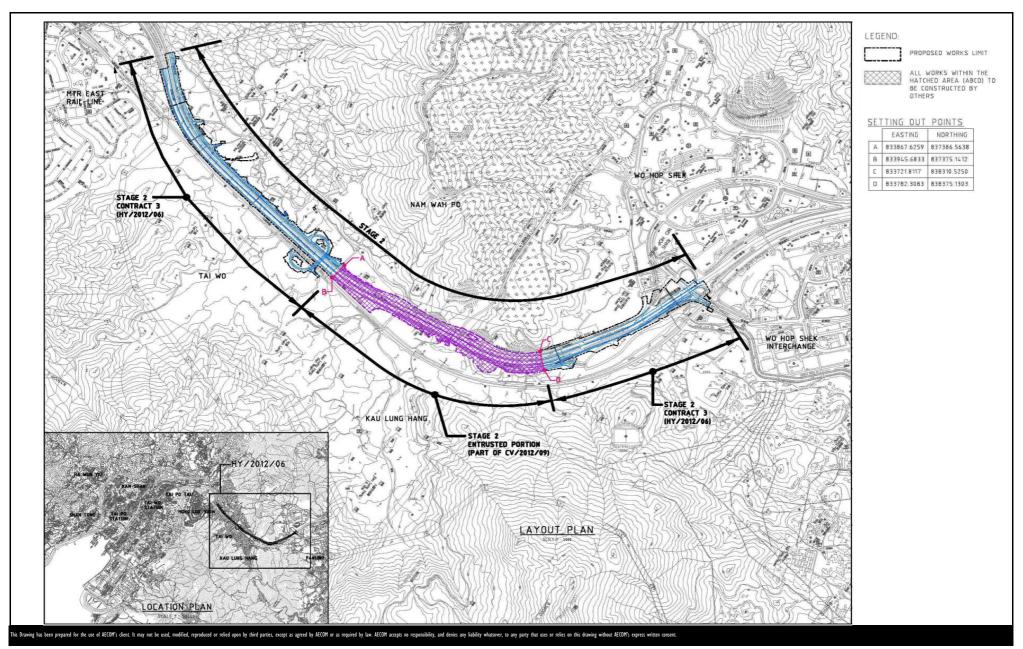
Landscape and Visual Impact

Nil.

Miscellaneous

 The Contractor was recommended to ensure public road is kept clear of dusty materials from the construction site.

FIGURES



CONTRACT NO. HY/2012/06

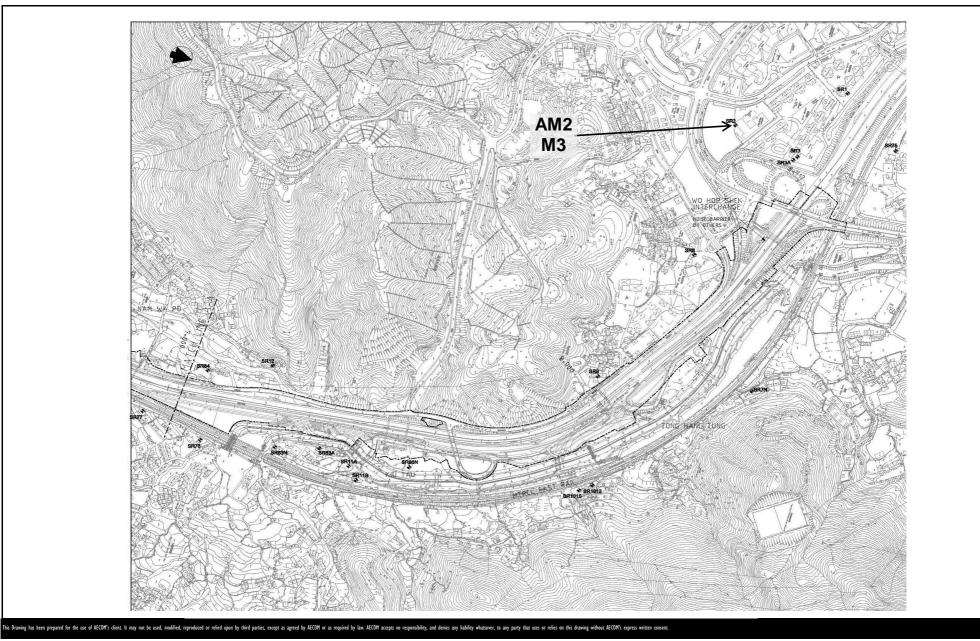
WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

AECOM

Layout Plan

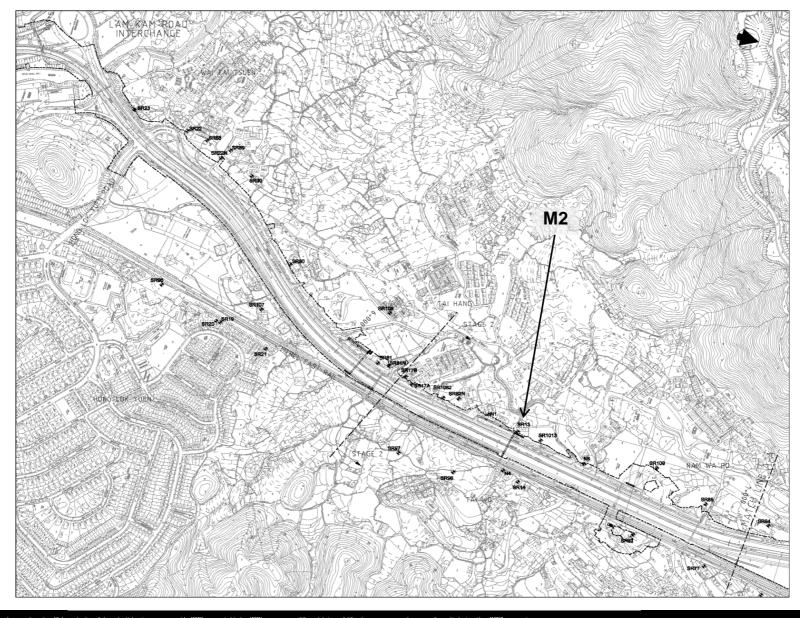
Date: Dec 2013 Figure 1.1



CONTRACT NO. HY/2012/06
WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE





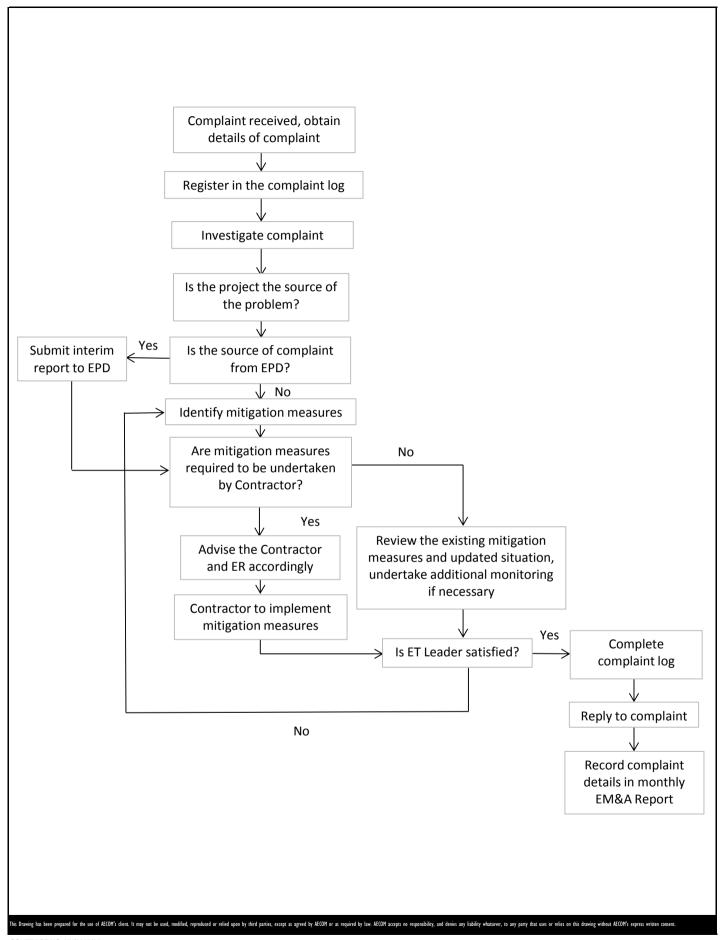
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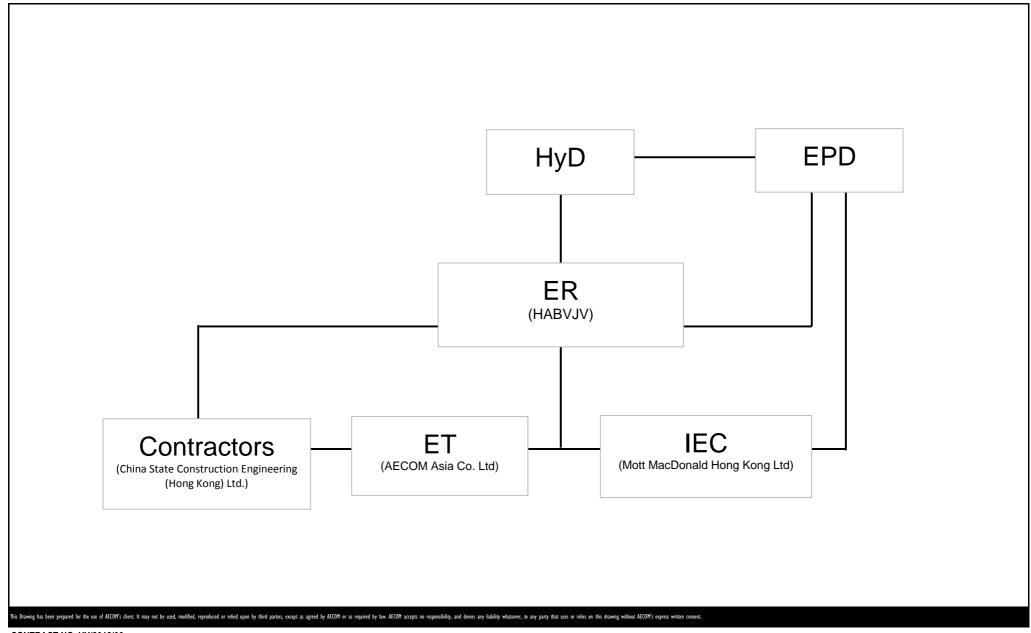
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Project No.: 60307376 Date: Dec 2013 Figure 4.1

APPENDIX A PROJECT ORGANIZATION STRUCTURE



CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE



Project No.: 60307376 Date: Dec 2013 Appendix A

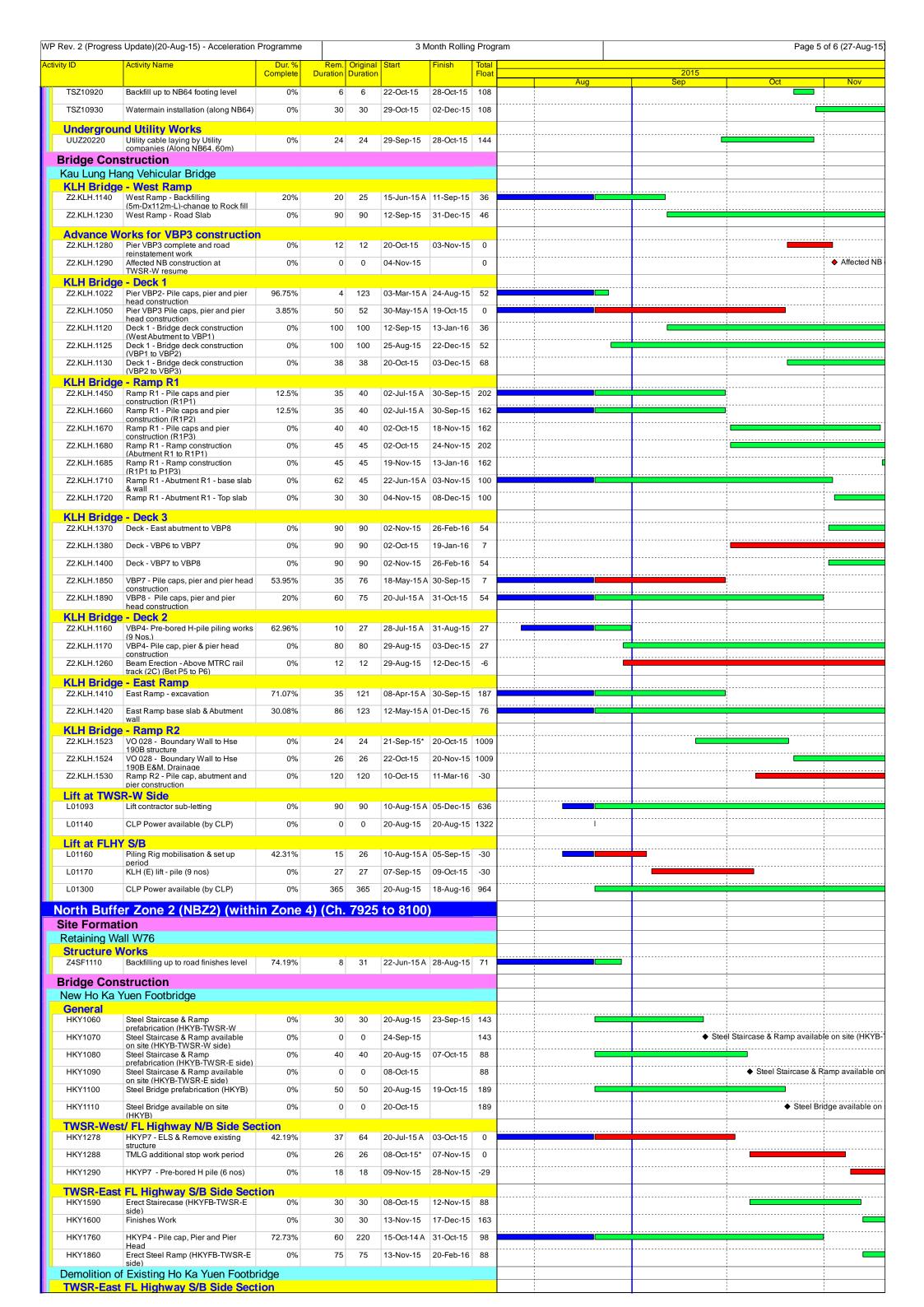
APPENDIX B CONSTRUCTION PROGRAMMES

y ID	Activity Name	Dur. % Complete	Rem. 0			Finish	Total Float		2015		
ontroot 6	Condition	- Inplote					July	Aug	Sep	Oct	
ontract C Seneral	Condition										
Contract Co	ondition									1	1
Contract C		00/		0		40.0-445*				16-Oct-15* ◆ KD-16 (883	DAI) NO
KD16	KD-16 (883d) - N2: Connection of realigned Tai Wo Service Road East		0	0	22.4	16-Oct-15*		A City A	CA202A (202d) (3a) - N2:
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Aug-15		1784		SA323A (360d) (not requi	rea) : :	
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Aug-15*		-231		SA327 (180d)		
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Aug-15*		-33	◆ Site Area	SA327A (730d)		
	h. 5640 to 5880) ier Along TWSR-West and	l Laving	New Utili	ties						1	
	640-5740)-TWSR West Side										
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure - 8 bays	70.89%	23	79	13-Feb-15 A	15-Sep-15	106				
NB00120	NB42 (Ch5640-5740) - NB	0%	45	45	16-Sep-15	30-Oct-15	1297			1	i
	nern Trunk Sewer, Water Ma		ain Work	5							
TSZ10130	Watermain installation (along NB42)	0%	30	30	16-Sep-15	23-Oct-15	106				
TSZ10140	Firemain installation (along NB42)	0%	30	30	24-Oct-15	27-Nov-15	106				1
<mark>Undergrou</mark> UUZ10100	und Utility Works Utility cable laying by Utility	0%	38	38	16 Son 15	02-Nov-15	120				<u></u>
	companies (Along NB42)		36	30	16-Sep-15	02-1100-15	120				
NB42A (Ch. <mark>Noise Barr</mark>	5750-5810)-TWSR West Side	Ð									
NB00190	NB42A (Ch5750-5810) - Footing &	64.62%	23	65	13-Apr-15 A	15-Sep-15	108			†	
NB00200	Wall Structure - 5 bays NB42A (Ch5750-5810) - NB	0%	45	45	16-Sep-15	30-Oct-15	1297			:	
DSD South	production nern Trunk Sewer, Water Ma	ain Fire M	ain Work	S							1
TSZ10150	Sheet Piling & Excavation(~5m below ground) (along NB42A)	0%	18	18	16-Sep-15	08-Oct-15	108				
TSZ10180	Watermain installation (along NB42A)	0%	20	20	09-Oct-15	02-Nov-15	108				-
TSZ10190	Firemain installation (along NB42A)	0%	20	20	03-Nov-15	25-Nov-15	108				
	ind Utility Works										
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	20	20	16-Sep-15	10-Oct-15	146				
,	5820-5880)-TWSR West Side	е									-
Noise Barr NB00230	rier Works NB47B (Ch5820-5880)- Footing &	0%	30	30	14-Jul-15 A	23-Sep-15	119			!	
NB00235	Wall Structure - 4 bays NB47B (Ch5820-5880)- backfilling	0%	12	12	13-Nov-15	26-Nov-15				 	
NB00240	NB47B (Ch5820-5880) - NB	0%	45	45	24-Sep-15	07-Nov-15					
	production				21 dop 10	07 1107 10	1200				
TSZ10230	nern Trunk Sewer, Water Ma Watermain installation (along	0%	20	20	24-Sep-15	19-Oct-15	119				
TSZ10240	NB47B) Firemain installation (along NB47B)	0%	20	20	20-Oct-15	12-Nov-15	119				
Indergrou	and Utility Works										
UUZ10120	Utility cable laying by Utility companies (Along NB47B)	0%	20	20	24-Sep-15	19-Oct-15	139			1	-
oise Barri	ier Along Fanling Highway	y S/B								 	-
•	700-5760)-FH S/B Side										-
Noise Barr NB01385	ier Works NB44 - Excavation & Footing & Wall	0%	50	50	16-Sep-15	16-Nov-15	945			1	
NB01390	Structure (1 bays) NB44 - NB production	0%	45	45	17-Nov-15	31-Dec-15				 	
IB45 (Ch 5	760-5820)-FH S/B Side										
Noise Barr											
NB01435	NB45 - Excavation & Footing & Wall Structure (2 bays)	0%	50	50	17-Nov-15	16-Jan-16	945			1	
ONE 2 (C	h. 5880 to 6930)										
	ier Along TWSR-West and		New Utili	ties							
Site Clearar Demolition	nce & Demolition of Existing S	Structure									-
Z2.P2N.1250		0%	165	165	20-Aug-15	15-Mar-16	921			1	
IB47 (Ch 5	880-5930)-TWSR West Side										
Noise Barr	ier Works									ļ	
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays	68.18%	35	110		30-Sep-15]	
NB00280	NB47 (Ch5880-5930)- NB production	0%	45	45	01-Oct-15	14-Nov-15	1257				
	nern Trunk Sewer, Water Ma				47 ^ := :	V 00 0 : :=	4.0				
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	42	18		09-Oct-15					
TSZ10270	Backfill up to NB47 footing level	0%	6	6	10-Oct-15	16-Oct-15					<u></u>
TSZ10280	Watermain installation (along NB47)		26	26	17-Oct-15	17-Nov-15					
TC740000	Firemain installation (along NB47)	0%	26	26	18-Nov-15	17-Dec-15	13				
TSZ10290	5950-5975)-TWSR West Side	Э									
IB47A (Ch.			12	12	22-Sep-15	07-Oct-15	161			1	
IB47A (Ch. <mark>Noise Barr</mark>	rier Works NB47A - backfilling	0%			22-Sep-15	07-Oct-15				ļ	
IB47A (Ch. Noise Barr NB00330	NB47A - backfilling		12	12		J. OUI-13					
IB47A (Ch. Noise Barr NB00330 NB00335	NB47A - backfilling Backfilling (Along NB47A-above ID1)	0%	12	12	·	03-004-45	1200				1
NB47A (Ch. Noise Barr NB00330 NB00335 NB00340	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production	0%	45	45	20-Aug-15	03-Oct-15					
NB47A (Ch. Noise Barr NB00330 NB00335 NB00340 NB00350	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production NB47A - NB post & panel installation	0% 0% 0%	45 5	45 5	·	03-Oct-15 13-Oct-15					
NB47A (Ch. Noise Barr NB00330 NB00335 NB00340 NB00350 DSD South	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production NB47A - NB post & panel installation nern Trunk Sewer, Water Ma	0% 0% 0% ain Fire M	45 5 ain Works	45 5	20-Aug-15 08-Oct-15	13-Oct-15	1041				
NB47A (Ch. Noise Barr NB00330 NB00335 NB00340 NB00350 DSD South TSZ10380	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production NB47A - NB post & panel installation nern Trunk Sewer, Water Ma Watermain installation (along NB47A)	0% 0% 0% ain Fire M	45 5 ain Works 14	45 5 5	20-Aug-15 08-Oct-15 24-Aug-15 A	13-Oct-15	1041				
NB47A (Ch. Noise Barr NB00330 NB00335 NB00340 NB00350 DSD South TSZ10380 TSZ10390	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production NB47A - NB post & panel installation nern Trunk Sewer, Water Ma Watermain installation (along NB47A) Firemain installation (along NB47A)	0% 0% 0% ain Fire Ma 0%	45 5 ain Works 14	45 5 S 14	20-Aug-15 08-Oct-15 24-Aug-15 A 05-Sep-15	13-Oct-15 A 04-Sep-15 21-Sep-15	1041				
NB00330 NB00335 NB00340 NB00350 NB00350 DSD South	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production NB47A - NB post & panel installation nern Trunk Sewer, Water Ma Watermain installation (along NB47A)	0% 0% 0% ain Fire M	45 5 ain Works 14	45 5 5	20-Aug-15 08-Oct-15 24-Aug-15 A 05-Sep-15	13-Oct-15	1041				
NB00335 NB00340 NB00350 NB00350 NB00350 DSD South TSZ10380 TSZ10390 TSZ10560	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production NB47A - NB post & panel installation nern Trunk Sewer, Water Ma Watermain installation (along NB47A) Firemain installation (along NB47A) Watermain & Firemain installation (Along NB47A-above ID1) well of Effort Project ID:DWP Rev 02	0% 0% 0% ain Fire Ma 0% 0% 0%	45 5 ain Works 14	45 5 S 14	20-Aug-15 08-Oct-15 24-Aug-15 A 05-Sep-15 25-Aug-15 A	13-Oct-15 A 04-Sep-15 21-Sep-15 A 21-Sep-15	1041 161 161 161	HY/2012/06		Date Revi C	Ap
NB00330 NB00335 NB00340 NB00350 DSD South TSZ10380 TSZ10390 TSZ10560	NB47A - backfilling Backfilling (Along NB47A-above ID1) NB47A - NB production NB47A - NB post & panel installation nern Trunk Sewer, Water Ma Watermain installation (along NB47A) Firemain installation (along NB47A) Watermain & Firemain installation (Along NB47A-above ID1) well of Effort Project ID:DWP Rev 02	0% 0% 0% ain Fire M 0% 0% 0%	45 5 ain Works 14 14 28	45 5 S 14 14 28	20-Aug-15 08-Oct-15 24-Aug-15 A 05-Sep-15 25-Aug-15 A	13-Oct-15 A 04-Sep-15 21-Sep-15 A 21-Sep-15 Contract	1041 161 161 No. I	HY/2012/06 Hang to Wo Hop Shek Inte	rchange	Date Revi C 22-J IWP 26 IWP	Ар

Rev. 2 (Progress	s Update)(20-Aug-15) - Acceleration	Programme				Nonth Rolling F	rogram		Page 2 of 6 (27		
vity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration			oat	Aug	2015 Sep	Oct	Nov
	nd Utility Works							Aug	Sep	OCI	NOV
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	0%	10	10	20-Aug-15	31-Aug-15 1					
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above	0%	10	10	20-Aug-15	31-Aug-15 1	79				
NB48 (Ch.59 Noise Barri	995-6120)-TWSR West Side										
NB00380	NB48 (Ch5995-6060) - Footing &	75%	23	92	18-Apr-15 A	15-Sep-15 1	01				
NB00400	Wall Structure - 4 bays NB48 (Ch5995-6060) - NB production	0%	45	45	16-Sep-15	30-Oct-15 12	272				•
NB00440	NB48 (Ch6060-6120) - Footing & Wall Structure - 5 bays	0%	45	45	16-Oct-15	08-Dec-15	77				
	ern Trunk Sewer, Water Ma	ain Fire N	lain Worl	(S							
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	20-Aug-15	09-Sep-15 1					
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	6	6	10-Sep-15	16-Sep-15 1					
TSZ10430	Watermain installation (along NB48, 0-60m)	0%	30	30	17-Sep-15		05				
TSZ10440	Firemain installation (along NB48, 0-60m)	0%	30	30	26-Oct-15		05				
TSZ10450	Sheet Piling & Excavation(~5m below ground) (along NB48.	11.54%	23	26			64			<u></u>	
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	0%	18	18	16-Sep-15		7			<u></u>	
TSZ10470	Backfill up to NB48, 60-110m footing level		6	6	09-Oct-15		7			·	
TSZ10480	Watermain installation (along NB48, 60-110m)	0%	26	26	16-Oct-15		00				
TSZ10490	Firemain installation (along NB48, 60-110m)	0%	26	26	17-Nov-15	16-Dec-15	00				
Undergroui UUZ20120	nd Utility Works Utility cable laying by Utility	0%	24	24	16-Sep-15	15-Oct-15 1	42				
	companies (Along NB48, 0-60m) 145-6215)-TWSR West Side	2,0			- 30						
Noise Barri	ier Works							<u> </u>			
NB00508	VO for using silent piler & slient piler mobilisation	27.78%	13	18		03-Sep-15					
NB00510	NB49 - Footing & Wall Structure - 5 bays	0%	54	54	04-Sep-15		:0				1
NB00530	NB49 - NB production	0%	45	45	10-Nov-15	24-Dec-15 12	17				
DSD South	ern Trunk Sewer, Water Ma Sheet Piling & Excavation(~7m	ain Fire N	<mark>lain Worl</mark>		10-Nov-15	25-Nov-15	20				
	below ground) (along NB49)		14	14	10-1100-15	25-1100-15	:0				
NB49B (Ch.6	6215-6235)-TWSR West Side	e									
NB00550	NB49B piling (0.19m -20no)- rigs 1&2	0%	21	21	07-Sep-15*	02-Oct-15	0				
NB54 (Ch.62	240-6280)-TWSR West Side										1
Noise Barri	ier Works NB54 - Footing & Wall Structure - 2	00/	00	00	00.0-4.15	40 Dec 45					
	bays	0%	60		09-Oct-15	18-Dec-15	08				
TSZ10600	ern Trunk Sewer, Water Ma Sheet Piling & Excavation(~5m	ain Fire N 0%	lain Worl 14	(S 14	20-Aug-15	04-Sep-15 6	i8				
TSZ10610	below ground) (along NB54) DSD Trunk Sewer laying (along	0%	21	21	05-Sep-15	30-Sep-15 6	68				
TSZ10620	NB54 excep ID2-1 section) Backfill up to NB54 footing level	0%	6	6	02-Oct-15	· .	68	- <u> </u>			
TSZ10630	Watermain installation (along NB54)	0%	30	30	09-Oct-15	13-Nov-15 8	8				
TSZ10640	Firemain installation (along NB54)	0%	30	30	14-Nov-15	18-Dec-15 8	8				
NB54A (Ch.6	6290-6350)-TWSR West Side	<u> </u>									
Noise Barri	ier Works										
NB00760	NB54A - Footing & Wall Structure - 6 bays	0%	40	40		07-Oct-15 1					
NB00780	NB54A - NB production	0%	45	45	08-Oct-15	21-Nov-15 12	250				
DSD South TSZ10650	ern Trunk Sewer, Water Ma Sheet Piling & Excavation(~5m	ain Fire N 38.46%	<mark>lain Worl</mark> 16		13- Jul-15 A	07-Sep-15	16				
TSZ10660	below ground) (along NB54A)	0%	18	18		·					
TSZ10660 TSZ10670	DSD Trunk Sewer laying (along NB54A) Backfill up to NB54A footing level	0%	6	18 6	08-Sep-15 30-Sep-15	29-Sep-15 8	9				
TSZ10670	Watermain installation (along	0%	30	30	30-Sep-15 08-Oct-15	12-Nov-15 8					
TSZ10680	NB54A) Firemain installation (along NB54A)	0%	30	30	13-Nov-15		19	-			
	, ,	U%	30	30	10-INOV-15	11-090-19					_
Undergroui UUZ20170	nd Utility Works Utility cable laying by Utility companies (Along NB54A, 0-60m)	0%	24	24	08-Oct-15	05-Nov-15 1	25				
	companies (Along NB54A, 0-60m) 365-6445)-TWSR West Side										
Noise Barri	ier Works										
NB00830	NB57 - Footing & Wall Structure - 7 bays	80.52%	60		15-Dec-14 A	03-Mar-16	34				
DSD South TSZ10710	ern Trunk Sewer, Water Ma	ain Fire N	<mark>lain Worl</mark> 18	(S	14-Nov-15	04-Dec-15	34				
TSZ10710	NB57) Completion NB57 Bay 1 & 2 and	71.64%	19			10-Sep-15					
TSZ10774	preparation works Wash-out chamber water pipe	71.64%		52		13-Nov-15					
	diversion at the site access for NB57	U%	52	52	11-9eh-19	10-INOV-10	,-T				
NB58 (Ch.64 Noise Barri	145-6480)-TWSR West Side ier Works										
NB00900	NB58 - Footing & Wall Structure - 3 bays	0%	50	50	10-Oct-15	08-Dec-15	7				1
	ern Trunk Sewer, Water Ma										
TSZ10750	Sheet Piling & Excavation(~5m below ground) (along NB58)	0%	21	21	20-Aug-15		0			<u></u>	
TSZ10760	DSD Trunk Sewer laying (along NB58)	0%	18	18	14-Sep-15		0			<u> </u>	_
TSZ10780	Watermain installation (along NB58)		20	20	07-Oct-15		0				<u> </u>
TSZ10790	Firemain installation (along NB58)	0%	20	20	31-Oct-15	23-Nov-15	0				
	490-6590)-TWSR West Side										
Noise Barri NB00970	ier Works NB59 - Footing & Wall Structure - 9	39.81%	62	103	02-May-15 A	03-Nov-15 8	9				
NB00990	bays NB59 - NB production	0%	45	45	-	18-Dec-15 1:					
	ern Trunk Sewer, Water Ma				1						
TSZ10810	DSD Trunk Sewer laying (along	83.52%	15		08-Apr-15 A	05-Sep-15 8	88				
TSZ10820	NB59) Backfill up to NB59 footing level	0%	6	6	07-Sep-15	12-Sep-15 8	8				
TSZ10830	Watermain installation (along NB59)	0%	30	30	14-Sep-15	20-Oct-15 8	8				
	Firemain installation (along NB59)		30	30	22-Oct-15	05 No. 45	8				
TSZ10840	Filemain installation (along ND39)	0%	30	30	22-001-15	25-Nov-15 8	00	1	1		

UUZ20200 NB63 (Ch.661	Activity Name	Dur. % Complete	Rem. Duration	Original Duration		Finish	Total			
NB63 (Ch.661							Float		Oct	Nov
NB63 (Ch.661	Utility cable laying by Utility companies (Along NB59, 0-95m)	0%	38	38	04-Nov-15	17-Dec-15	89	, and Sep		1400
Noise Barrie	10-6700)-TWSR West Side									-
	er Works NB63 - NB production	00/	45	45	00 Aug 45	00.0-4.5	4000			
	·	0%	45	45	20-Aug-15	03-Oct-15	1299			
	ern Trunk Sewer, Water Ma Sheet Piling & Excavation(~7m	in Fire Ma 0%	in Work 12		20-Jul-15 A	02-Sep-15	99			
	below ground) (along NB63) DSD Trunk Sewer laying (along	0%	18	18	03-Sep-15	23-Sep-15				
	NB63) Watermain installation (along NB63)	0%	30	30	24-Sep-15	31-Oct-15	99			
	Firemain installation (along NB63)	0%	30	30	02-Nov-15	05-Dec-15				
					02 1101 10	00 200 10				
TSZ10960	ern Trunk Sewer - Trenchle DSD Trunk Sewer laying (along	ss Constr 75%	uction 10	40	22-Jun-15 A	31-Aug-15	117			
	NB63 - ID3-1)-Trenchless Both end manholes construction &	0%	60	60	01-Sep-15	12-Nov-15	117			
	trench sewer connection Backfilling of jacking pits	0%	32	32	13-Nov-15	19-Dec-15	135			
TSZ11025	Town gas pipe jacking work	0%	101	101	31-Aug-15*	31-Dec-15	77			
TSZ11035	DSD trunk sewer along NB63	83.33%	10	60		31-Aug-15				
	ū	00.0070			10 00. 1071	3.7.mg .0				
UUZ20230	d Utility Works Utility cable laying by Utility	91.95%	12	149	27-Dec-14 A	02-Sep-15	177			
Bridge Cons	companies (Along NB63~100m)									
New Tai Hang										
General		0.7.1.1			0.1 =	00.5	4.5			
	Structure steel Shop drawing approval (THFB)	83.78%	30	185		23-Sep-15				<u></u>
	Structure steel procurement (THFB)	0%	150	150	24-Sep-15	20-Feb-16	227			
	/ FL Highway N/B Side Sec THP5 - Pile cap, Pier and Pier Head	ction 0%	45	45	20-Aug-15	13-Oct-15	404			
	THP8, THP9 - Pile cap, Pier and Pier Head	0%	62	30		03-Nov-15				
	THAB3 - pile cap & abutment wall	0%	30	30	20-Aug-15	23-Sep-15				
	THAB3 - Backfilling (~4m)	0%	27	27	24-Sep-15	28-Oct-15				
	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		03-Nov-15	447		03-Nov-15 ◆	Steel Sta
	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	20-Aug-15	23-Sep-15	389			
	THAB2 - pile cap & abutment wall	0%	30	30	20-Aug-15	23-Sep-15	369			
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	24-Sep-15	19-Oct-15	369			
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		19-Oct-15	369	19-	Oct-15 ♦ Steel Ramp re	eady for
TWSR-East	FL Highway S/B Side Sect	ion								
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	01-Sep-15	14-Sep-15	22			
THBF0460	THAB1 - Pile Test	0%	28	28	15-Sep-15	12-Oct-15	62		_	
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	29-Sep-15	04-Nov-15	51		:	
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	05-Nov-15	27-Nov-15	51		Γ	
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	15-Sep-15	14-Oct-15	22			
THBF0510	THP2 - Pile Test	0%	28	28	15-Oct-15	11-Nov-15	93			
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	15-Oct-15	03-Nov-15	22			
THBF0720	THP3 - Pile Test	0%	28	28	04-Nov-15	01-Dec-15	414		•	
THBF0730	THP3 - Pile cap, Pier and Pier Head	0%	45	45	18-Nov-15	12-Jan-16	330			
THBF0750	THP4 - Pre-bored H pile (4 nos)	0%	16	16	04-Nov-15	21-Nov-15	22			
Lift at TWSF	R-W Side									
	Lift contractor sub-letting	0%	90	90	20-Aug-15	05-Dec-15	71			
L1600	CLP Power available (by CLP)	0%	365	365	20-Aug-15	18-Aug-16	267			
Lift at FLHY	S/B									
	CLP Power available (by CLP)	0%	365	365	20-Aug-15	18-Aug-16	271			
New Tai Wo F	Footbridge									
General TWFB1030	Structure steel Shop drawing	83.78%	30	185	04-Dec-14 A	23-Sep-15	1400			
	approval (TWFB) Structure steel procurement (TWFB)	0%	150	150		16-Jan-16				
	. , ,		130	100	/\ug-15 A	. 10 Jan-10	00			
	/ FL Highway N/B Side Sec TWP1 - Pile Test	otion 0%	28	28	20-Aug-15	16-Sep-15	106			
	TWP1 - Pile cap, Pier and Pier Head	0%	45	45	03-Sep-15	28-Oct-15				
	TWAB2 - Pile Test	0%	28	28	20-Aug-15	16-Sep-15				
	TWAB2 - Pile lest TWAB2 - pile cap & abutment wall	0%	30	30	03-Sep-15	09-Oct-15				
-				27	10-Oct-15					
	TWAB2 - Backfilling (~4m)	0%	27		10-00-15	11-Nov-15			44 %1:	
	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0	00.1	11-Nov-15			11-Nov-	⁄-15 ♦ S
	TWP4, TWP5 - Pile Test	0%	28	28	20-Aug-15	16-Sep-15				
	TWP4, TWP5 - Pile cap, Pier and Pier Head	0%	30	30	03-Sep-15	09-Oct-15				
	TWAB1 - Pile Test	0%	28	28	20-Aug-15	16-Sep-15				
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	03-Sep-15	09-Oct-15	147			
TWFB1350	TWAB1 - Backfilling (~3m)	0%	20	20	10-Oct-15	03-Nov-15	158			
	Steel Ramp ready for erection (TWFB-TWSR-W side)	0%	0	0		03-Nov-15	158		03-Nov-15 ◆	Steel Ra
TWSR-East	FL Highway S/B Side Sect	ion								
	Precautionary work for MTRC I&P area	0%	45	45	20-Aug-15	13-Oct-15	836			
	TWP3 - Predrilling	0%	12	12	14-Oct-15	28-Oct-15	836			
Lift at TWSF										
	TWB (W) - Pre-bored H pile (4 nos)	44.44%	10			31-Aug-15				
	Pile test	0%	30	30	01-Sep-15	07-Oct-15				
L1650	Temp work & Pile cap	0%	45	45	08-Oct-15	30-Nov-15	739			

rity ID	s Update)(20-Aug-15) - Acceleration Activity Name		Pow	Original		Nonth Rolling Pro				Га	age 4 of 6 (27-Au
ity ID	Activity Name	Dur. % Complete	Duration			Finish Tota		Aug	2015 Sep	Oct	Nov
L1780	CLP Power available (by CLP)	0%	700	700	20-Aug-15	19-Jul-17 606	6				
Temporary Table Design Work	ai Wo Footbridge										
TWFB-T1010	Design preparation	41.67%	35	60	20-Jul-15 A	30-Sep-15 93				•	
TWFB-T1020	Engineer Comment	0%	26	26	02-Oct-15	02-Nov-15 93					
TWFB-T1030	Design amendment	0%	26	26	03-Nov-15	02-Dec-15 93					
Construction	on Works Erect Temp Ramp	51.11%	44	90	18-Jul-15 A	12-Oct-15 11	-				
	of Existing Tai Wo Footbridge			30	10 001 1071	12 000 10					
TWSR-Wes	st/ FL Highway N/B Side Se										
TWFB-T1130	Demolish existing ramp & staircase at TWSR-W	0%	30	30	13-Oct-15	17-Nov-15 11					
TWFB-T1230	Watermain & Firemain at NB58 & backfill	0%	52	52	07-Oct-15	07-Dec-15 0				V	
	<mark>er Along Fanling Highwa</mark> y 935-6055)-FH S/B Side	y S/B									
Noise Barri	ier Works										
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	20-Aug-15	05-Dec-15 608	3				1
NB53 (Ch.61 Noise Barri	125-6300) -FH S/B Side (MTF	RC I&P Area	a)								
NB02430	Precautionary Measure installation	0%	26	26	20-Aug-15	18-Sep-15 793	3				
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	19-Sep-15	22-Oct-15 793	3				
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	23-Oct-15	04-Jan-16 793					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	05-Oct-15	15-Oct-15 876					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	16-Oct-15	17-Nov-15 876					
NB02510 NB02590	NB53 ID2-3 (100-125m) - Sheet piling & Excavation NB53 (125-180m) - NB production	0%	21 45	21 45	18-Nov-15 20-Aug-15	11-Dec-15 876 03-Oct-15 129				<u> </u>	
NB02590 NB02600	NB53 (125-180m) - NB production NB53 (125-180m) - NB post & panel	0%	5	45 5	20-Aug-15 05-Oct-15	03-Oct-15 129 09-Oct-15 104					
	installation 800-6360)-FH S/B Side (MTR				23. 10	3. 230 104					
Noise Barri	ier Works				la. :						
NB02640	NB55 - Footing & Wall Structure	88.12%	24	202		16-Sep-15 876				ļ 	
NB02650 NB02660	NB55- backfilling NB55 - NB production	0%	50 45	50 45	17-Sep-15	17-Nov-15 876 31-Oct-15 127					
NB02670	NB55 - NB post & panel installation	0%	5	5	02-Nov-15	06-Nov-15 102					
	360-6400)-FH S/B Side (MTR			<u> </u>	02 1101 10	00 100 10 102	•				
Noise Barri		C IOF AIG)								
NB02730	NB56 - NB production	0%	45	45	20-Aug-15	03-Oct-15 129					
NB02740	NB56 - NB post & panel installation	0%	5	5	05-Oct-15	09-Oct-15 104	4				
NB61 (Ch.64 Noise Barri	400-6560)-FH S/B Side (MTR	RC I&P Area	1)								
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Aug-15	09-Sep-15 968	3				
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	10-Sep-15	10-Nov-15 968	3				
NB02790	NB61 (0-50m)- backfilling	0%	50	50	11-Nov-15	11-Jan-16 968	3				
NB02800	NB61 (0-50m) - NB production	0%	45	45	11-Nov-15	25-Dec-15 121					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Aug-15	03-Oct-15 129					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	05-Oct-15	09-Oct-15 104	4				
NB61A (Ch.6 Noise Barri	6560-6745)-FH S/B Side (MT	RC I&P Are	ea)								
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Aug-15	03-Oct-15 129	9				
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	05-Oct-15	09-Oct-15 104	4				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	66.67%	32	96	01-Apr-15 A	25-Sep-15 101	4				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	26-Sep-15	22-Oct-15 102					
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	26-Sep-15	09-Nov-15 126					
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	10-Nov-15	14-Nov-15 101					
NB03040	NB61A (75-190m) - NB production	0%	45	45 5	20-Aug-15	03-Oct-15 129 09-Oct-15 104					
NB03050	NB61A (75-190m) - NB post & panel installation	U%	5	5	05-Oct-15	09-001-15 104	-				
Other Work Site Clearan	Sce & Demolition of Existing S	Structure									
Contract Co	ondition			^	20. 4	20 4: 35					
MCLT1050	Apply cert for exemption by DLO by Engineer		0	0	20-Aug-15	20-Aug-15 143					
MCLT1080 MCLT1090	Construct New MCLT (Structure) New MCLT - finishes works	30%	63 90	90	21-Jul-15 A 05-Nov-15	04-Nov-15 16 01-Mar-16 16					
TCSS Works		070	90	30	00-NUV-15	O : - IVIAI - 10 16					
G54											
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		20-Aug-15 936	6 2	20-Aug-15 ♦ Slow lan	e footing - G54 (NB61)		
	er Zone 1 (SBZ1) (with				to 6930)						
	er Along TWSR-West and 6710-6840)-TWSR West Side		ew Util	ities							
Noise Barri	ier Works	5								 	
NB01090	NB63A-1 - NB production	0%	45	45	20-Aug-15	03-Oct-15 695	5				
	ern Trunk Sewer, Water Ma				04-Nov 45	03-Doc 45					
TSZ10850	Sheet Piling & Excavation(~6m below ground) (along NB63A)	0%	26	26	04-Nov-15	03-Dec-15 0				 	
NB64 & NB6	64A (Ch.6860-6920)-TWSR W ier Works	vest Side									
NB001030	NB64 & NB64A -Footing & Wall Structure - 7 bays	45%	33	60	19-May-15 A	26-Sep-15 108	3				
NB001050	NB64 & NB64A -NB production	0%	45	45	26-Sep-15	10-Nov-15 657	7			- †	:
DSD South	ern Trunk Sewer, Water Ma	ain Fire Mai	n Work	S	1						
TSZ10910	DSD Trunk Sewer laying (along	0%	18	18	29-Sep-15	20-Oct-15 108				· <u>-+</u>	



HKY1970 1 lane of slip road Y space at TWSR-East Construction Drainage & Road Works TWSR-East FL Highway S/B Sid TWSRE1000 Road work for New TWSR-E CONE 4 (Ch. 7925 to 8700) Bridge Construction New Wo Hop Shek Pedstrian & Cygeneral WHS1040 Steel Ramp prefabrication (WHS1050 Steel Ramp available on site (WHS8) WHS1050 Steel Staircase prefabrication (WHS8) WHS1060 Steel Staircase available on site (WHS8) WHS1070 Steel Staircase available on (WHS8) WHS1080 Steel Staircase available on (WHS8) WHS1080 Steel Staircase available on (WHS8) WHS1080 WHS96-Pile cap, Pier and Head WHS1220 WHS96-Pile cap, Pier and Head WHS1220 WHS96-Pile cap, Pier and Head WHS1220 WHS98-Pile cap, Pier and Head WHS1270 WHSAB1 - pile cap, Pier and Head WHS1280 WHS93-Pile cap, Pier and Head WHS1930 WHS94-Pile cap, Pier and Head WHS1930 Steel Staircase available on (WHS8) WHS97-Pile cap, Pier and Head WHS1980 Staff		Complete 37.84%	Duration 23				Float		Aug	2015 Sep	Oct	Nov
Ramp HKY1970 I lane of slip road Y space at Indeed Slip Road Yorks TWSR-East FL Highway S/B Sid TWSR-E1000 Road work for New TWSR-E Start Slip Road Y Construction New Wo Hop Shek Pedstrian & Cygeneral WHS1040 WHS1040 Steel Ramp prefabrication (WHS1050) WHS1050 Steel Ramp available on site (WHS1070) WHS1070 Steel Staircase prefabrication (WHS80) WHS1070 Steel Staircase available on site (WHS80) WHS1070 WHS1080 WHS1080 Steel Staircase available on site (WHS80) WHS1080 WHS		01.0170		37	05-Aug-15 A	15-Sep-15	1			СОР		INOV
WSR-East Construction Drainage & Road Works TWSR-East FL. Highway S/B Sid TWSRE1000 Road work for New TWSR-E TWSR-WORK ROAD ROAD ROAD ROAD ROAD ROAD ROAD ROAD		0%	0	0	00-Aug-10 A	15-Sep-15	1			15-Sen-15 🛕 1 lane of s	lip road Y space available	
Drainage & Road Works TWSR-East FL Highway S/B Sid TWSRE1000 Road work for New TWSR-E ONE 4 (Ch. 7925 to 8700) Bridge Construction New Wo Hop Shek Pedstrian & Cy General WHS1040 Structure steel procurement WHS1050 Steel Ramp prefabrication (WHSB) WHS1070 Steel Ramp available on site (WHSB) WHS1080 Steel Staircase prefabrication (WHSB) WHS1080 Steel Staircase available on (WHSB) WHS1080 Steel Staircase available on (WHSB) WHS1180 WHSP2 - Pile cap, Pier and Head WHS1220 WHSP6 - Pile cap, Pier and Head WHS1240 WHSP6 - Pile cap, Pier and Head WHS1250 WHSAB1 - pile cap, Pier and Head WHS1270 WHSAB1 - pile cap, Pier and Head WHS1970 WHSAB1 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1930 WHSP5 - Pile cap, Pier and Head WHS1930 WHSP5 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1930 WHSP5 - Pile cap, Pier and Head WHS1930 WHSP5 - Pile cap, Pier and Head WHS1930 WHSP6 - Pile cap, Pier and Head WHS1940 Crostruct Sip Rd Y (Ch8100-8250)(SA340) (Z4 (Ch8100-8250)(SA340) (Z4 (Ch8100-8250)(SA340) (Z4 (Ch8100-8250)(SA340) (Z4 (Ch8100-8250)(SA340) (Z4 (Ch8100-8250)(SA346)) - 1 WGRAPA - WHSP6 - Pile cap, Pier and Head WHS1990 WATER - WHSP6 - Pile cap, Pier and Head WHS1990 WATER - WHSP6 - Pile cap, Pier and Head WHS1990 WATER - WHSP6 - Pile cap, Pier and Head WHS1990 WHSP6 -	•	076	U	U		15-3ep-15	ı			10-0ep-10 V 1 lane 013	ip road i space available	1
TWSR-East FL Highway S/B Sid TWSRE1000 Road work for New TWSR-E ONE 4 (Ch. 7925 to 8700) Bridge Construction New Wo Hop Shek Pedstrian & Cy General WHS1040 Structure steel procurement of WHS1040 Steel Ramp prefabrication (WHS1050 Steel Ramp prefabrication (WHS1060 Steel Ramp prefabrication (WHS1070 Steel Staircase available on site (WHS1070 Steel Staircase available on Steel	n											<u> </u>
ONE 4 (Ch. 7925 to 8700) Gridge Construction New Wo Hop Shek Pedstrian & Cy General WHS1040 Structure steel procurement of the WHS1050 Steel Ramp prefabrication (WHS8) WHS1070 Steel Staircase prefabrication (WHS8) WHS1080 Steel Staircase available on site (WHS8) WHS1080 Steel Staircase available on (WHS8) WHS1180 WHSP2- Pile cap, Pier and Head WHS1220 WHSP6- Pile cap, Pier and Head WHS1220 WHSP6- Pile cap, Pier and Head WHS1220 WHSP6- Pile cap, Pier and Head WHS1230 WHSP7- Pile cap, Pier and Head WHS1240 WHSP7- Pile cap, Pier and Head WHS1250 WHSP8- Pile cap, Pier and Head WHS1270 WHSAB1 - Backfilling (-4m) WHS1898 WHSP3- Pile cap, Pier and Head WHS1930 WHSP4- Pile cap, Pier and Head WHS1930 WHSP4- Pile cap, Pier and Head WHS1930 WHSP5- Pile cap, Pier and Head WHS1930 WHSP4- Pile cap, Pier and Head WHS1940 Ist half Steel Ramp ready for erection (WHS-TWSR-W side Erect WHS bridge Structure is fanling highway Section (WHS-TWSR-W side Erect WHS bridge Structure is fanling highway Section (WHS2090) North Abutment Wall (AW1) Backfilling (-6m) Grainage & Road Works TWSR-East FL Highway S/B Side (Ch8250-8370)(SA340) (Z4 (Ch8100-8250)(SA342) (Z4 (Ch8100-8250)(SA340) (Z4 (Ch8100-8250)(SA342) (Z4 (Ch8100-8250)(SA340) (Z4 (Ch8100-8250)(S/B Side Sec	tion										
Ridge Construction New Wo Hop Shek Pedstrian & Cy General WHS1040 Structure steel procurement of WHS1050 Steel Ramp prefabrication (WHS1050 Steel Staircase prefabrication (WHS1070 Steel Staircase prefabrication (WHS1070 Steel Staircase available on site (WHS1070 Steel Staircase available on (WHS1070 WHS1070 WHS1070 Steel Staircase available on (WHS1070 WHS1070 WHS1070 WHS1070 WHS1070 WHS1070 WHS1070 Pille cap, Pier and I Head WHS1220 WHSP6 - Pille cap, Pier and I Head WHS1220 WHSP7 - Pille cap, Pier and I Head WHS1220 WHSP8 - Pille cap, Pier and I Head WHS1270 WHSAB1 - Backfilling (~4m) WHS1270 WHSAB1 - Backfilling (~4m) WHS1930 WHSP3 - Pile cap, Pier and I Head WHS1930 WHSP4 - Pile cap, Pier and I Head WHS1930 Ist half Steel Ramp ready for erection (WHS-TWSR-W side section (WHS-TWSR-W	v TWSR-East	68.83%	48	154	15-May-15 A	16-Oct-15	52					
New Wo Hop Shek Pedstrian & Cy General WHS1040 Structure steel procurement of WHS1050 Steel Ramp prefabrication (WHS1050 Steel Staircase prefabrication (WHS1070 Steel Staircase prefabrication (WHS1070 Steel Staircase available on site (WHS1070 Steel Staircase available on (WHS1070 Steel Staircase available on (WHS1070 WHS1070 Steel Staircase available on (WHS1070 WHS1070 WHS1070 WHS1070 WHS1070 Pile cap, Pier and Head WHS1220 WHSP6 - Pile cap, Pier and Head WHS1228 WHSP7 - Pile cap, Pier and Head WHS1240 WHS1250 WHSP6 - Pile cap, Pier and Head WHS1270 WHSAB1 - pile cap, Pier and Head WHS1930 WHSP3 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1930 The Stair Steel Ramp ready for erection (WHS-TWSR-W side section (WHS-TWSR-E) unction (WHS-TWSR-E) (WHS-TWSR	700)											
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WHS1060 Steel Ramp available on site (WHSB) WHS1070 Steel Staircase prefabrication (WHSB) WHS1080 Steel Staircase available on (WHSB) WHS1080 Steel Staircase available on (WHSB) WHS1180 WHSP2 - Pile cap, Pier and Head WHS1120 WHSP6 - Pile cap, Pier and Head WHS1228 WHSP7 - Pile cap, Pier and Head WHS1220 WHSP6 - Pile cap, Pier and Head WHS1270 WHSAB1 - Backfilling (~4m) WHS1270 WHSAB1 - Backfilling (~4m) WHS1930 WHSP3 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1970 WHSP5 - Pile cap, Pier and Head WHS1980 Ist half Steel Ramp ready for erection (WHS-TWSR-W sid Erect 1st half ramp Crossing Fanling Highway Section (WHS-TWSR-W sid Erect WHS bridge Structure at fanling highway WHS2900 North Abutment Wall (AW1) Backfilling (~6m) Ilip Road Y Construction Drainage & Road Works TWSR-East FL Highway S/B Sid (Ch8250-8370)(SA340) (Z4 (Construct Slip Rd Y (Ch8250-8370)(SA342) (Z4 (Construct Slip Rd Y (Ch8250-8370)(SA342) (Z4 (Construct Slip Rd Y (Ch8250-8370)(SA346)) - 1 JInderground Utility Works DN600 and DN900 Watermain DN1040 DN600 & DN900 watermain laving (Ch8370-8650)(SA346) - 1 JInderground Utility Works DN600 and DN900 Watermain (DN9001/200) changeover for DN600 work on the property of the property	orication (WHSB)	0%	50	50	24-Aug-15	23-Oct-15	22					
WHS1070 Steel Staircase prefabrication (WHSB) WHS1080 Steel Staircase available on (WHSB) WHS1080 Steel Staircase available on (WHSB) WHS180 WHSP2 - Pile cap, Pier and Head WHS1220 WHSP6 - Pile cap, Pier and Head WHS1228 WHSP7 - Pile cap, Pier and Head WHS1228 WHSP7 - Pile cap, Pier and Head WHS1260 WHSAB1 - pile cap & abutme WHS1270 WHSAB1 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1930 State Ramp ready for erection (WHS-TWSR-W side rection (WHS-TWSR-E side rection (WHS-TW		0%	0	0	24-Oct-15		22	 			♦ Stee	l Ramp avail
WHS1080 Steel Staircase available on (WHSB) TWSR-West/ FL Highway N/B Si WHS1180 WHSP2 - Pile cap, Pier and I Head WHS1220 WHSP6 - Pile cap, Pier and I Head WHS1220 WHSP7 - Pile cap, Pier and I Head WHS1228 WHSP7 - Pile cap, Pier and I Head WHS1260 WHSAB1 - pile cap & abutme WHS1270 WHSAB1 - pile cap & abutme WHS1270 WHSAB1 - Pile cap, Pier and I Head WHS1930 WHSP4 - Pile cap, Pier and I Head WHS1930 WHSP5 - Pile cap, Pier and I Head WHS1930 Head WHSP5 - Pile cap, Pier and I Head WHS1980 Istalf Steel Ramp ready for erection (WHS-TWSR-W side Frect WHS bridge Structure at fanling highway Section (WHS-TWSR-W side Frect WHS bridge Structure at fanling highway Section (WHS2090 North Abutment Wall (AW1) - Backfilling (-6m) Silip Road Y Construction Orainage & Road Works TWSR-East FL Highway S/B Side RDZ41000 Construct Slip Rd Y (Ch8250-8370)(SA342) (Z4 Construct Slip Rd Y @ existin TWSR-E lunction RDZ41082 Construct Slip Rd Y @ existin TWSR-E lunction Complete (except DN600 lab DN900 watermain laving (Ch8370-8650)(SA3460) - 1 Jnderground Utility Works DN600 and DN900 Watermain DN1050 DN600 & DN900 watermain laving (Ch8370-8650)(SA3460) - 1 DN1050 DN600 & DN900 watermain laving (Ch8370-8650)(SA3460) - 1 DN1054 Watermain (DN900/1200) chanaeover for DN600 Work DN1056 Laying DN600 section after Chanaeover Works O - Wall 76A Construction Retaining Wall W76A TWSR-East FL Highway S/B Side HKY1412 Construct temp road for TWS First Hybrash Lane 1,2 (Ch8250-8370)(SA342) (Z4 Construct temp road for TWS First Hybrash Lane 1,2 (Ch8100-8250)(SA342) (Z4 Construct Hybrash Lane 1,2 (Ch8250-8370)(SA342) (Z4 Construct Hybrash Lane 1,2 (Ch8100-8250)(SA342) (Z4 Construct Hybrash Lane 1,2 (Ch8100-8250)(SA342) (Z4 RDZ41015 Construct Hybrash Lane 1,2 (Ch8100-8250)(SA342) (Z4		0%	40	40	24-Aug-15	10-Oct-15	107					
TWSR-West/ FL Highway N/B Si WHS1180 WHSP2 - Pile cap, Pier and Head WHS1220 WHSP6 - Pile cap, Pier and Head WHS1228 WHSP7 - Pile cap, Pier and Head WHS1260 WHSAB1 - pile cap & abutmu WHS1270 WHSAB1 - Backfilling (~4m) WHS1280 WHSAB1 - Pile cap, Pier and Head WHS1930 WHSP3 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1930 WHSP5 - Pile cap, Pier and Head WHS1980 Ist half Steel Ramp ready for erection (WHS-TWSR-W side erection (WHS-TWSR-East FL Highway S/B side erection (WHS-W side ere			0	0	12-Oct-15	10-001-15	107				◆ Steel Staircase	byoilable on
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Head WHS1220 WHSP6 - Pile cap, Pier and Head WHS1228 WHSP7 - Pile cap, Pier and Head WHS1260 WHSAB1 - pile cap, Pier and I Head WHS1270 WHSAB1 - pile cap, Pier and I Head WHS1270 WHSAB1 - Pile cap, Pier and I Head WHS1270 WHSAB1 - Pile cap, Pier and I Head WHS1930 WHSP3 - Pile cap, Pier and I Head WHS1930 WHSP4 - Pile cap, Pier and I Head WHS1980 Ist half Steel Ramp ready for erection (WHS-TWSR-W side erection) WHS1990 Erect 1st half ramp Crossing Fanling Highway Sect farling highway WHS1990 North Abutment Wall (AW1) - Backfilling (-6m) Ilip Road Y Construction Orainage & Road Works TWSR-East FL Highway S/B Side (Ch8250-8370)(SA340) (Z4 (Ch8250-8370)(SA342) (Z4 (Ch8250-8370)(SA342) (Z4 (Ch8250-8370)(SA342) (Z4 (Ch8250-8370)(SA3460) - 1 (Ch7925-8050)(SA3460) -		ction 0%	45	45	17-Aug-15 A	13-Oct-15	0					
Head WHS128 WHSP7 - Pile cap, Pier and Head WHS1260 WHSAB1 - pile cap & abutmon WHS1270 WHSAB1 - Backfilling (~4m) WHS1270 WHSAB1 - Backfilling (~4m) WHS1898 WHSP3 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1970 WHSP5 - Pile cap, Pier and Head WHS1980 Ist half Steel Ramp ready for erection (WHS-TWSR-W side Frect 1st half ramp Crossing Fanling Highway Section (WHS-1980 WHS1990 Erect 1st half ramp Crossing Fanling Highway Section (WHS2090 North Abutment Wall (AW1) - Backfilling (~6m) Ilip Road Y Construction Orainage & Road Works TWSR-East FL Highway S/B Side (Ch8250-8370)(SA340) (Z4 Construct Slip Rd Y (Ch8250-8370)(SA342) (Z4 Construct Slip Rd Y @ existin TWSR-E junction RD241082 Construct Slip Rd Y @ (Ch8100-8250)(SA3460) - 1 Jnderground Utility Works DN600 and DN900 Watermain Laving(Ch8370-8650)(SA3460) - 1 DN1040 DN600 & DN900 watermain Laving(Ch8370-8650)(SA3460) - 1 DN1050 DN600 & DN900 watermain Laving(Ch8370-8650)(SA3460) - 1 DN1054 Watermain (DN900/1200) changeover for DN600 Work Laying DN600 & DN900 watermain complete (except DN600 lap Watermain (DN900/1200) changeover for DN600 Work Laying DN600 & DN900 Work Changeover Works O - Wall 76A Construction Retaining Wall W76A TWSR-East FL Highway S/B Side W76A1030 W76A construction (bay 9) W76A1030 W76A backfilling work (bay 4 W76A1050 Drainage work for Caltex accroad anling Highway Construction RD241005 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 Ch8250-8370)(SA340)					24-Sep-15	18-Nov-15	0					
Head WHS1260 WHSAB1 - pile cap & abutme WHS1270 WHSAB1 - Backfilling (-4m) WHS1270 WHSAB1 - Backfilling (-4m) WHS1898 WHSP3 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1970 WHSP5 - Pile cap, Pier and Head WHS1980 1st half Steel Ramp ready for erection (WHS-TWSR-W sid Erect 1st half ramp Crossing Fanling Highway Sect WHS1990 Erect 1st half ramp Crossing Fanling Highway Sect WHS1480 Erect WHS bridge Structure a fanling highway TWSR-East FL Highway S/B Sid WHS2090 North Abutment Wall (AW1) Backfilling (-6m) Ilip Road Y Construction Orainage & Road Works TWSR-East FL Highway S/B Sid RD241000 Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4 RD241010 Construct Slip Rd Y (Ch8250-8370)(SA342) (Z4 RD241020 Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4 RD241082 Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 Jnderground Utility Works DN600 and DN900 Watermain DN1040 DN600 & DN900 watermain alvina(Ch8370-8650)(SA3460) - 1 Jnderground Utility Works DN600 and DN900 Watermain DN1040 DN600 & DN900 watermain complete (except DN600 lap Watermain (DN900/1200) changeover for DN600 Work DN1056 Laying DN600 section after I changeover Works O - Wall 76A Construction Retaining Wall W76A TWSR-East FL Highway S/B Sid W76A1020 W76A construction (bay 9) W76A1030 W76A backfilling work (bay 4) W76A1050 Drainage work for Caltex acc road anling Highway Construction Orainage & Road Works TWSR-East FL Highway S/B Sid HKY1412 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 RDZ41015 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 RDZ41015 Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 RDZ41020 Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 RDZ41030 Realing Temp Road for TWS & FH S/B diversion Realing Temp Road for TWS & FH S/B diversion Realing Temp Road for TWS & FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 RDZ41030 Realing Temp Road for TWS & FH S/B Gid Sase slab & Wall (0-3m high RW77A (Ch.50-130) RWZ4.1070 Backfilling (0-3m high RW77B (Ch 0-40)		0%	45	45	·		_					
WHS1270 WHSAB1 - Backfilling (-4m) WHS1898 WHSP3 - Pile cap, Pier and I Head WHS1970 WHSP4 - Pile cap, Pier and I Head WHS1970 WHSP5 - Pile cap, Pier and I Head WHS1980 1st half Steel Ramp ready for erection (WHS-TWSR-W sid erection (WHS-TWSR-E sid erection (WHS-TWSR-E sid erection (Part erection (WHS-TWSR-E sid erection (Part erection (Pa		0%	45	45		13-Oct-15	30					ļ
WHS1898 WHSP3 - Pile cap, Pier and Head WHS1930 WHSP4 - Pile cap, Pier and Head WHS1970 WHSP5 - Pile cap, Pier and Head WHS1980 1st half Steel Ramp ready for erection (WHS-TWSR-W side of the steel of	•	0%	30	30	14-Oct-15	18-Nov-15	48					
WHS1930 WHSP4 - Pile cap, Pier and Head WHS1970 WHSP5 - Pile cap, Pier and Head WHS1980 1st half Steel Ramp ready for erection (WHS-TWSR-W sid) WHS1980 Erect 1st half ramp Crossing Fanling Highway Sect WHS1480 Erect WHS bridge Structure and Indihavay TWSR-East FL Highway S/B Sid WHS2090 North Abutment Wall (AW1) Backfilling (-6m) Ilip Road Y Construction Orainage & Road Works TWSR-East FL Highway S/B Sid RDZ41000 Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4 RDZ41010 Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4 RDZ41020 Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4 RDZ41082 Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 Jnderground Utility Works DN600 and DN900 Watermain DN1040 DN600 & DN900 watermain laying(Ch8370-8650)(SA346) DN1050 DN600 & DN900 watermain complete (except DN600 lap) DN1054 Watermain (DN900/1200) changeover for DN600 Work DN1056 Laying DN600 section after Echangeover Works O - Wall 76A Construction Retaining Wall W76A TWSR-East FL Highway S/B Sid W76A1020 W76A construction (bay 9) W76A1030 W76A backfilling work (bay 4) W76A1030 W76A backfilling work (bay 4) W76A1030 W76A backfilling work (bay 4) W76A1030 Prainage work for Caltex accordad anling Highway Construction Orainage & Road Works TWSR-East FL Highway S/B Sid HKY1412 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 RDZ41015 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 RDZ41025 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 RDZ41030 Realign Temp Road from TW to Petrol station (Z4 TTA-Stac WTSR-East FL Highway S/B Sid RWZ4.1070 Realign Temp Road from TW to Petrol station (Z4 TTA-Stac WTSR-East FL Highway S/B Sid RWZ4.1070 Backfilling (0-3m) - RW77A (Ch.50-130)		0%	27	27	19-Nov-15	19-Dec-15						
WHS1930 WHSP4 - Pile cap, Pier and Head WHS1970 WHSP5 - Pile cap, Pier and Head WHS1980 1st half Steel Ramp ready for erection (WHS-TWSR-W side Erect 1st half ramp Crossing Fanling Highway Section Section Section Section (WHS-TWSR-W side Erect 1st half ramp Crossing Fanling Highway Section S	, Pier and Pier	0%	35	30	02-Jul-15 A	30-Sep-15	10					
WHS1970 WHSP5 - Pile cap, Pier and Head WHS1980 1st half Steel Ramp ready for erection (WHS-TWSR-W sid WHS1990 Erect 1st half ramp Crossing Fanling Highway Sect WHS1480 Erect WHS bridge Structure of fanling highway TWSR-East FL Highway S/B Sid WHS2090 North Abutment Wall (AW1) - Backfilling (-6m) Ilip Road Y Construction Orainage & Road Works TWSR-East FL Highway S/B Sid RDZ41000 Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4 Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4 RDZ41010 Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4 RDZ41082 Construct Slip Rd Y @ existin TWSR-E iunction RDZ41082 Construct Slip Rd Y @ existin TWSR-E iunction RDZ41082 Construct Slip Rd Y @ existin TWSR-E iunction RDM00 and DN900 Watermain DN1040 DN600 & DN900 watermain laving(Ch8370-8650)(SA3460) - 1 JINDROW WATERMAIN DN600 & DN900 watermain complete (except DN600 lap Watermain (DN900/1200) changeover for DN600 Work DN1056 Laying DN600 section after Echangeover Works O - Wall 76A Construction Retaining Wall W76A TWSR-East FL Highway S/B Sid W76A1020 W76A construction (bay 9) W76A1030 W76A backfilling work (bay 4 W76A1050 Drainage & Road Works TWSR-East FL Highway S/B Sid HKY1412 Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 Construct	, Pier and Pier	0%	35	30	02-Jul-15 A	30-Sep-15	10					
WHS1980	, Pier and Pier	0%	30	30	02-Oct-15	06-Nov-15	10			-		
Crossing Fanling Highway Section WHS1480 Erect WHS bridge Structure of fanling highway TWSR-East FL Highway S/B Side WHS2090 North Abutment Wall (AW1) Backfilling (-6m) Ilip Road Y Construction Orainage & Road Works TWSR-East FL Highway S/B Side RDZ41000 Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4 RDZ41010 Construct Slip Rd Y (Ch8250-8370)(SA342) (Z4 RDZ41020 Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4 RDZ41082 Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 JInderground Utility Works DN600 and DN900 Watermain DN1040 DN600 & DN900 watermain laving (Ch8370-8650)(SA346) DN1050 DN600 & DN900 watermain complete (except DN600) lap DN1054 Watermain (DN900/1200) changeover for DN600 Work DN1056 Laying DN600 section after Echangeover Works O - Wall 76A Construction Retaining Wall W76A TWSR-East FL Highway S/B Side W76A1020 W76A construction (bay 9) W76A1030 W76A backfilling work (bay 40 W76A1050 Drainage work for Caltex accordad anling Highway Construction Orainage & Road Works TWSR-East FL Highway S/B Side HKY1412 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 RDZ41005 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA342) (Z4 RDZ41015 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA342) (Z4 RDZ41025 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA342) (Z4 RDZ41025 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA342) (Z4 RDZ41030 Realign Temp Road from TW to Petrol station (Z4 TTA-State Other Works Retaining Wall W77A TWSR-East FL Highway S/B Side RWZ4.1070 Backfilling (0-3m) - RW77A TWSR-East FL Highway S/B Side RWZ4.1070 Backfilling (0-3m) - RW77A TWSR-East FL Highway S/B Side RWZ4.1070 Backfilling (0-3m) - RW77A Retaining Wall W77B TWSR-East FL Highway S/B Side RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40)		0%	0	0		18-Nov-15	0					18-Nov-
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Backfilling (-6m)	S/B Side Sec	tion										
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anling Highway Construction Drainage & Road Works TWSR-East FL Highway S/B Sid HKY1412 Construct temp road for TWS & FH S/B diversion RDZ41005 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 RDZ41025 Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 RDZ41030 Realign Temp Road from TW to Petrol station (Z4 TTA-State Other Works Retaining Wall W77A TWSR-East FL Highway S/B Sid RWZ4.1060 Base slab & Wall (0-3m high RW77A (Ch.50-130) Retaining Wall W77B TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch.0-40) Base slab & Wall (0-3m high RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch.0-40)	vork (bay 4,5,9)	0%	7	7	03-Sep-15	10-Sep-15	27					
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Drainage & Road Works TWSR-East FL Highway S/B Sid HKY1412 Construct temp road for TWS & FH S/B diversion RDZ41005 Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4 COnstruct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4 RDZ41025 Construct FH S/B Lane 1,2 (Enstruct FH S/B Lan	uction									+		
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(Ch8250-8370)(SA340) (Z4 RDZ41015	1	0%	21	21		22-Sep-15						
(Ch8100-8250)(SA342) (Z4 RDZ41025	A340) (Z4	75%	30	120	02-Mar-15 A	·						
RDZ41025 Construct FH S/B Lane 1,2 (existing TWSR-E junction) Realign Temp Road from TW to Petrol station (Z4 TTA-State Petrol) Retaining Wall W77A TWSR-East FL Highway S/B Sid RWZ4.1060 Base slab & Wall (0-3m high RW77A (Ch.50-130)) RWZ4.1070 Backfilling (0-3m) - RW77A (Ch.50-130) Retaining Wall W77B TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40))	_ane 1,2 4342) (Z4	58.33%	30	72	12-May-15 A	•						
RDZ41030 Realign Temp Road from TW to Petrol station (Z4 TTA-State Petrol Station (Z4 TTA-Station	_ane 1,2 @	0%	60	60	23-Sep-15	04-Dec-15	81					
Retaining Wall W77A TWSR-East FL Highway S/B Sid RWZ4.1060 Base slab & Wall (0-3m high RWZ4.1070 Backfilling (0-3m) - RW77A (Ch.50-130) Retaining Wall W77B TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40)	d from TWSR-E	0%	45	45	05-Oct-15	26-Nov-15	15					:
Retaining Wall W77A TWSR-East FL Highway S/B Sid RWZ4.1060 Base slab & Wall (0-3m high RW77A (Ch.50-130) RWZ4.1070 Backfilling (0-3m) - RW77A (Ch.50-130) Retaining Wall W77B TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40))	, (Claye 3)									1		
RWZ4.1060 Base slab & Wall (0-3m high RW77A (Ch.50-130) RWZ4.1070 Backfilling (0-3m) - RW77A (Ch.50-130) Retaining Wall W77B TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40)												
RW77A (Ch.50-130) RWZ4.1070 Backfilling (0-3m) - RW77A (Ch.50-130) Retaining Wall W77B TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40)		tion 85.82%	19	134	27-Feb-15 A	10 Son 45	222			<u></u>		<u>.</u>
(Ch.50-130) Retaining Wall W77B TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40)	0)					·						
TWSR-East FL Highway S/B Sid RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40)	- KVV//A	0%	30	30	11-Sep-15	17-Oct-15	30/					
RWZ4.1100 Base slab & Wall (0-3m high RW77B (Ch 0-40)	C/D Cirl. C	tion.										
RW77B (Ch 0-40)	0-3m high)-	tion 0%	60	60	11-Sep-15	23-Nov-15	232					
	<u> </u>											
TCSS Pre-Construction Works	Vorks							1		+	 	
TCSS0100 Acquire Design Criteria from	iteria from	58.05%	86	205	27-Feb-15 A	01-Dec-15	356					
Drawing & procurement DS50	anient											
TCSS1590 Slow lane footing -DS50 (NB	-DS50 (NB74)	0%	0	0		20-Aug-15	816		20-Aug-15 ♦ Slow la	ne footing -DS50 (NB74)		
FADS8												
TCSS1620 Slow lane footing - FADS8 (C S/B)	FADS8 (CH8220,	0%	30	30	24-Sep-15	31-Oct-15	786					

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 50m³ shall be enclosed, covered or dampened during dry or windy conditions.		@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@
	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).		#
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		#
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		#
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		#
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		#
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		#
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		#
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		#

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. 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. 		V

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. 		V
	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
Municipal Wastes 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 – Action and Limit Levels for 1-hour TSP

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

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

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

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

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

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

APPENDIX E
CALIBRATION CERTIFICATES OF
MONITORING EQUIPMENTS

Total Suspended Particulates (TSP) Sampler Field Calibration Report

Station	Fanling Governm	ent Secondary	School (AM2)		Operator:	Shum Kan	n Yuen
Date:	27-Jul-15	1-15 Next Due Date:		Next Due Date: 27-Sep-15		-15	
Model No:	TE-5170			Verified Against:			988
Equipment No.:	A-001-74T				Expiration Date:	28-May-	2015
			Ambient (Condition			
Temperat	ture, Ta	303.0	Kelvin	Pressu	ıre, Pa	757.3	mmHg
			·C	1 17 6			
Γ	T		rifice Transfer Sta	l .	Market Co.	Totalian by	0.01229
Equipme		843	Slope, mc	1.99	924	Intercept, bc	-0.01238
Last Calibra		9-Dec-14	1	mc x Qstd + bc =	$= [H \times (Pa/760)]$	$x (298/Ta)]^{1/2}$	
Next Calibra	ation Date:	9-Dec-15					
		· · · · · · · · · · · · · · · · · · ·	Calibration of	TSP Sampler			
Calibration Point	H in. of water	[H x (Pa/7	60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X - axis	W in. of oil	[ΔW x (Pa/760) x (298/Ta) Y-axis	
1	7.0		2.62	1.32	4.5	2.10)
2	5.8		2.38	1.20	3.7	1.90)
3	4.5		2.10	1.06	3.1	1.74	1
4	3.5		1.85		2.4	1.53	3
5	2.3		1.50	0.76	1.6	1.25	5
By Linear Regr		X					
Slope, mw =		_		Intercept, bw =		0.132	20
Correlation C	oefficient* =	0	.9982				

			Set Point C				
			$std = 1.21 \text{ m}^3/\text{min}$ (4)	43 CFM)			
From the Regress	sion Equation, t	he "Y" value a	ccording to				
		m x	$\mathbf{Qstd} + \mathbf{b} = [\mathbf{W} \ \mathbf{x} \ (\mathbf{b} \ \mathbf{x} \ (\mathbf{b} \ \mathbf{x} \ \mathbf{x} \ (\mathbf{x} \ \mathbf{x} \ $	Pa/760) x (298/T	[a]] ^{1/2}		
Therefore, S	Set Point W = (m x Ostd + b)	² x (760 / Pa) x ([*]	Ta / 298) =	3	3.83	
380	*			58			•
*If Correlation C	Coefficient < 0.9	90, check and	recalibrate again.				
Remarks:		12.10					
					93.19		
Santana and	15 0 1	,				77/7	1
QCReviewer: 上	US CHAN	<u> </u>	Signature:			Date: 2 // /	115



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 - De Operator	ec 09, 2014 Tisch	Rootsmeter Orifice I.I		438320 0843	Ta (K) - Pa (mm) -	293 - 755.65
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.4010 0.9950 0.8830 0.8420 0.6960	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0069 1.0027 1.0006 0.9994 0.9942	0.7187 1.0077 1.1332 1.1870 1.4285	1.4221 2.0112 2.2486 2.3584 2.8443		0.9957 0.9915 0.9894 0.9883 0.9831	0.7107 0.9965 1.1206 1.1738 1.4126	0.8806 1.2454 1.3924 1.4603 1.7612
Qstd slop intercept coefficient y axis =	t (b) = ent (r) =	1.99924 -0.01238 0.99990 	 Ta)	Qa slope intercept coefficie v axis =	z (b) =	1.25189 -0.00766 0.99990

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

EQUIPMENT CALIBRATION RECORD

Type:				Laser Di	ust Moni	tor				
	facturer/Brand:		-	SIBATA	act mom					
Model	l No.:		-	LD-3						
	ment No.:			A.005.07a						
Sensi	tivity Adjustment	Scale Sett	ing:	557 CPM						
Opera	ator:		_	Mike She	ek (MSKN	M)				
Standa	rd Equipment									
		_								
Equip			precht & Pa	and the same of th		, ,				
Venue			erport (Pui \	ring Seco	ondary So	chool)				
Model Serial			es 1400AB	0400400	00000					
Serial	NO.	Con		DAB2198		V . 40500	\ <u>\</u>			
Last C	Calibration Date*:	Sens	ay 2015	00C1436	59803	K _o : <u>12500</u>				
						11.0				
*Remar	ks: Recommend	ed interval	for hardwa	re calibra	tion is 1 y	year				
Calibra	tion Result				- W-					
Sonsi	tivity Adjustment	Scala Satt	ina (Poforo	Calibratic	n).	557 CF	OM			
	tivity Adjustment tivity Adjustment					557 CF 557 CF				
0011011	avity / tajastiniont	ocale octi	ing (Aiter O	andration).	01	IVI			
Hour	Date	Ti	ime	Aml	pient	Concentration ¹	Total	Count/		
	(dd-mm-yy)			Con	dition	(mg/m ³)	Count ²	Minute ³		
				Temp	R.H.	Y-axis		X-axis		
				(°C)	(%)					
1	08-05-15	09:15	- 10.15	26.9	76	0.04417	1763	29.38		
2	08-05-15	10:15	- 11:15	26.9	76	0.04625	1851	30.85		
3	08-05-15	11:15	- 12:15	26.9	77	0.04513	1805	30.08		
4	08-05-15	12:15	- 13:15	27.1	77	0.04828	1926	32.10		
Note:						shnick TEOM®				
	Total CountCount/minut									
	o. oddrienima	o was care	diated by (otal oou	11000)					
By Line	ar Regression of	Y or X								
	(K-factor):		0.0015							
Correl	lation coefficient:		0.9983							
Validit	y of Calibration F	Record:	8 May 20	16						
Remark	ks:									
				,		731, 31, 32, 43, 44				
L										
					1.					
QC Re	eviewer: YW F	ung	Signa	ture:	1	Date	e: _11 Ma	y 2015		

EQUIPMENT CALIBRATION RECORD

Model Equipr	acturer/Brand: No.: ment No.: ivity Adjustment	Scale Setting	_	Laser Dust Monitor SIBATA LD-3B A.005.16a 521 CPM					
Opera	tor:		_	Mike She	k (MSKN	1)			
Standa	rd Equipment				TO MILE TO SEE OF 10				
Equipment: Venue: Model No.: Serial No: Control: Sensor: Last Calibration Date*: Rupprecht & Cyberport (F Series 1400) Series 1400 Sensor: 7 May 2015					ndary So 99803	chool) K _o : _1250	00		
*Remarl	ks: Recommend	ed interval for	r hardwar	e calibrat	tion is 1 y	/ear			
	tion Result		80.00	4.507					
	ivity Adjustment ivity Adjustment				,		CPM CPM		
Hour	Date (dd-mm-yy)	Time	•	Ambient Condition Temp R.H. (°C) (%)		Concentration ¹ (mg/m³) Y-axis	Total Count ²	Count/ Minute ³ X-axis	
1	18-07-15	09:30 -	10:30	29.8	75	0.05032	2014	33.57	
2	18-07-15	10:45 -	11:45	30.1	76	0.05117	2047	34.12	
3	18-07-15	12:15 -	13:15	30.4	77	0.05363	2141	35.68	
4	18-07-15	13:40 -	14:40	30.5	78	0.05465	2179	36.32	
Slope Correla	1. Monitoring of 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient:	was logged be was calcular Y or X	y Laser [Oust Moni otal Cour	itor	shnick TEOM [®]			
Remarks			o daily 20	,,,,	>				
QC Re	eviewer: YW F	ung	Signat	ure:	7	Da	ate: 20 Jul	y 2015	



綜合試驗有限公司 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.:

15CA0317 03

Page

of

Item tested

Description: Manufacturer: Sound Level Meter (Type 1) B & K Microphone B & K 4188

Type/Model No.: Serial/Equipment No.: 2238 2285692

2791211

Adaptors used:

-

-

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer: Request No.:

ř

Date of receipt:

17-Mar-2015

Date of test:

18-Mar-2015

Reference equipment used in the calibration

Description:

Multi function sound calibrator Signal generator Model: B&K 4226 Serial No. 2288444 Expiry Date: 20-Jun-2015

CIGISMEC CEPREI CEPREI

Traceable to:

Signal generator

DS 360 DS 360 33873 61227 09-Apr-2015 09-Apr-2015

Ambient conditions

Temperature: Relative humidity:

Air pressure:

21 ± 1 °C 60 ± 10 % 1010 ± 5 hPa

Test specifications

 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.

Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

19-Mar-2015

Company Chop:

SENGINEGRAS COMMERCE OF STREET OF S

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

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



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



CERTIFICATE OF CALIBRATION

Certificate No.:

14CA1106 04-01

Page

of

2

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer: Type/Model No.: Rion Co., Ltd. **NL-31**

Rion Co., Ltd.

Serial/Equipment No.:

00320528 / N.007.03A

UC-53A 90565

Adaptors used:

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No.

06-Nov-2014

Date of receipt:

Date of test:

07-Nov-2014

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226 Serial No.

Expiry Date:

Traceable to:

Signal generator

DS 360

2288444

15-Jun-2015

CIGISMEC

Signal generator

DS 360

33873 61227 09-Apr-2015 09-Apr-2015 CEPREI CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity: Air pressure:

65 ± 10 % 1010 ± 10 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.

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets

Approved Signatory:

Date:

08-Nov-2014

Company Chop:

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

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



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



CERTIFICATE OF CALIBRATION

Certificate No.:

14CA1106 04-02

Page:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Rion Co., Ltd.

Type/Model No .:

NC-73

Serial/Equipment No.:

10307223 / N.004.08

Adaptors used:

Item submitted by

Curstomer:

AECOM ASIA CO., LTD.

Address of Customer:

Request No.: Date of receipt:

06-Nov-2014

Date of test:

07-Nov-2014

Reference equipment used in the calibration

Description: Lab standard microphone Preamplifier	Model:	Serial No.	Expiry Date:	Traceable to:
	B&K 4180	2412857	13-May-2015	SCL
	B&K 2673	2239857	10-Apr-2015	CEPREI
Measuring amplifier Signal generator	B&K 2610	2346941	08-Apr-2015	CEPREI
	DS 360	61227	09-Apr-2015	CEPREI
Digital multi-meter Audio analyzer Universal counter	34401A 8903B 53132A	US36087050 GB41300350 MY40003662	17-Dec-2014 07-Apr-2015 11-Apr-2015	CEPREI CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

65 ± 10 %

Air pressure:

1010 ± 10 hPa

Test specifications

- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156
- 2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 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

Approved Signatory:

Date:

08-Nov-2014

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.

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

APPENDIX F EM&A MONITORING SCHEDULES

Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Impact Monitoring and Audit Schedule for August 2015

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

Contract No. HY/2012/06 Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange Tentative Impact Monitoring and Audit Schedule for September 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Sep	2-Sep	3-Sep	4-Sep	5-Sep
		1-hr TSP				1-hr TSP
		24-hr TSP				24-hr TSP
		Noise				
6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep
			1-hr TSP		1	1
			24-hr TSP			
			Noise			
13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep
		1-hr TSP				
		24-hr TSP				
		Noise				
20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep
	1-hr TSP					1-hr TSP
	24-hr TSP					24-hr TSP
	Noise					
27-Sep	28-Sep	29-Sep	30-Sep			
			1-hr TSP			
			24-hr TSP			
			Noise			

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

APPENDIX G
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION

Appendix G Impact Air Quality Monitoring Results

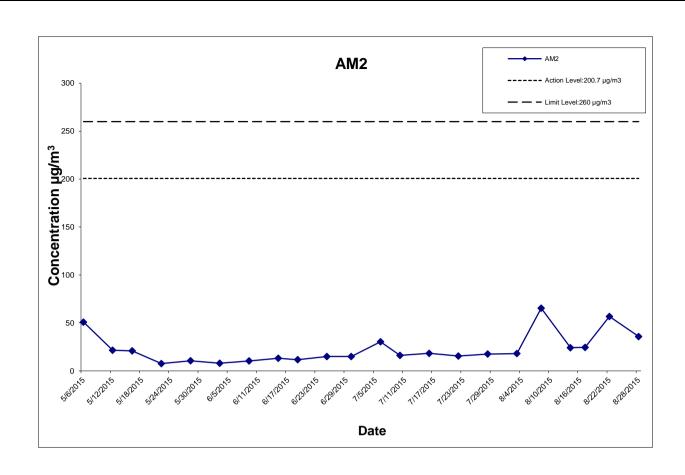
24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather	Air	Atmospheric	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	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)
3-Aug-15	Sunny	29.5	1010.6	1.314	1.314	1.314	1892.2	2.7729	2.8070	0.0341	5882.03	5906.03	24.00	18.0	200.7	260
8-Aug-15	Sunny	32.4	998.5	1.314	1.314	1.314	1892.2	2.8132	2.9369	0.1237	5906.03	5930.03	24.00	65.4	200.7	260
14-Aug-15	Rainy	26.9	1007.4	1.314	1.314	1.314	1892.2	2.8313	2.8771	0.0458	5930.03	5954.03	24.00	24.2	200.7	260
17-Aug-15	Sunny	29.9	1008.2	1.314	1.314	1.314	1892.2	2.7388	2.7852	0.0464	5954.03	5978.03	24.00	24.5	200.7	260
22-Aug-15	Sunny	30.2	1000.1	1.314	1.314	1.314	1892.2	2.8148	2.9221	0.1073	5978.03	6002.03	24.00	56.7	200.7	260
28-Aug-15	Fine	28.3	1006.5	1.314	1.314	1.314	1892.2	2.8182	2.8859	0.0677	6002.03	6026.03	24.00	35.8	200.7	260

 Average
 37.8

 Min
 18.0

 Max
 65.4



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

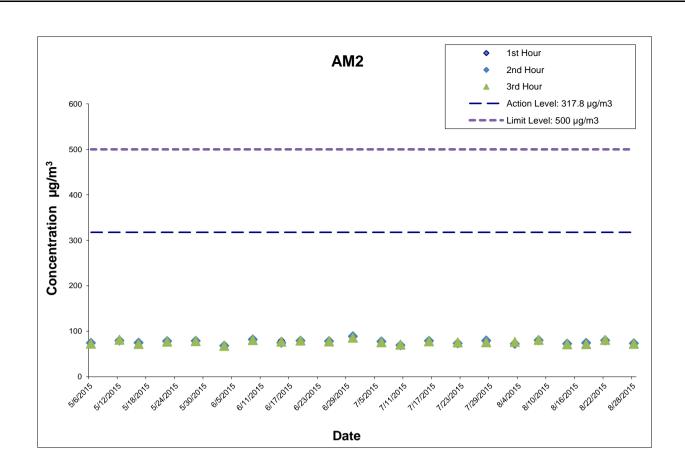


Project No.: 60307376 Date: Sep-15 Appendix G

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/m³)	(µg/m³)	(µg/m³)
3-Aug-15	13:00	75.1	72.4	76.3
8-Aug-15	13:05	79.7	80.4	80.9
14-Aug-15	10:50	70.6	72.6	71.4
18-Aug-15	13:00	72.6	74.3	71.5
22-Aug-15	13:15	80.3	79.8	80.9
28-Aug-15	14:10	71.6	73.4	72.4
			Average	75.9
			Min	70.6
			Max	80.9



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WIDENING OF FANLING HIGHWAY
- TAI HANG TO WO HOP SHEK INTERCHANGE



Project No.: 60307376 Date: Sep-15 Appendix G

APPENDIX H
METEOROLOGICAL DATA FOR THE
REPORTING MONTH





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Daily Extract of Meteorological Observations , August 2015 - Tai Mei Tuk

Our Services				ear 2015	Month €	B ▼ Go				
Visitors Figures			Air '	Tempera	ture	Moon	Mean		Prevailing	Maan
Press releases	Day	Mean Pressure	Absolute	Mean	Absolute	Mean Dew	Relative	Total Rainfall	Wind	Mean Wind
Today's Weather	Day	(hPa)	Daily Max	(deg.	Daily Min	Point (deg. C)	Humidity (%)	(mm)	Direction (degrees)	Speed (km/h)
Warnings			(deg. C)	(C)	(deg. C)	(ueg. c)	(70)		(uegrees)	(KIII/II)
Local Weather	01	***	31.9	28.2	26.2	***	***	0.0	070	9.2
Observations	02	***	33.2	28.9	25.7	***	***	0.0	050	7.0
Weather Forecast	03	***	33.6	29.4	26.2	***	***	0.0	060	5.1
Weather Monitoring	04	***	34.0	29.7	26.2	***	***	0.0	140	5.0
Imagery	05	***	34.9	30.2	26.7	***	***	0.0	140	4.9
Computer Forecast	06	***	35.0	30.7	27.2	***	***	0.0	140	4.0
Products	07	***	36.0	31.9	27.6	***	***	0.0	270	5.8
MyObservatory	08	***	36.6	33.2	29.4	***	***	0.0	270	13.1
Tropical Cyclones	09	***	36.3	31.5	26.4	***	***	0.0	270	18.5
Aviation Weather Services	10	***	30.7	28.7	26.5	***	***	0.5	240	12.0
Marine Meteorological	11	***	32.2	28.7	25.9	***	***	4.5	050	8.6
Services	12	***	34.4	30.0	27.2	***	***	1.5	060	7.5
Weather Information for	13	***	31.0	27.9	26.6	***	***	5.0	220	9.5
Sports	14	***	28.4	26.5	24.5	***	***	13.5	270	6.3
Weather Information for	15	***	27.2	25.7	24.7	***	***	85.0	050	7.4
Communities China Weather	16	***	31.3	27.7	25.8	***	***	13.0	270	4.8
China Weather World Weather	17	***	33.1	29.6	26.6	***	***	0.5	230	10.0
	18	***	34.4	30.2	27.6	***	***	0.0	230	8.5
Climatological Information Services	19	***	35.1	30.5	26.8	***	***	0.0	240	6.1
> Climate Watch	20	***	30.6	29.0	27.6	***	***	2.0	270	4.0
> Climate Statistics	21	***	33.3	30.7	27.5	***	***	0.0	280	10.3
> Climate Statistics > Climate Prediction	22	***	34.1	31.2	27.9	***	***	0.0	030	8.0
	23	***	35.6	31.6	27.9	***	***	0.0	280	7.3
> Climate Knowledge	24	***	35.3	30.9	28.4	***	***	0.0	140	6.8
> Need More Information?	25	***	34.8	30.3	27.1	***	***	0.0	050	7.2
	26	***	33.5	28.8	27.1	***	***	0.0	040	11.3
> Global Climate Services	27	***	34.2	29.3	26.4	***	***	0.0	150	6.7
> Other Useful Links	28	***	32.8	27.9	26.1	***	***	4.5	120	6.7
Climate Forecast	29	***	32.1	27.3	25.8	***	***	10.5	260	4.7
	30	***	29.7	27.1	26.2	***	***	4.0	150	4.0
Climate Change	31	***	29.7	27.3	25.7	***	***	0.5	040	6.5

*** unavailable

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

Earthquakes and Tsunamis

Astronomy, Space

Weather and Geomagnetism

Time and Calendar

Radiation Monitoring, Assessment and

Destantion

9/9/2015
Educational Resources
Publications
Media and Information
Services
Audio/Video Webpage
Electronic services
World Meteorological Day
World Meteorological
Organization-Official City
Weather Forecasts
World Meteorological
Organization-Global
Severe Weather
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繁體版 简体版

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Daily Extract of Meteorological Observations, August 2015 -Tai Po

HKO Side Lights				7 0045	M41. [.					
Our Services			1		Month \	B ▼ Go				
Visitors Figures		M		Tempera	1	Mean	Mean		Prevailing	Mean
Press releases	Day	Mean Pressure	Absolute Daily	Mean	Absolute Daily	Dew Point	Relative	Total Rainfall	Wind Direction	Wind
Today's Weather		(hPa)	Max	(deg. C)	Min	(deg. C)	Humidity (%)	(mm)	(degrees)	Speed (km/h)
Warnings			(deg. C)	()	(deg. C)				_	
Local Weather	01	1010.9	30.7	27.9	25.6	24.3	82	***	***	***
Observations	02	1011.3	31.6	28.1	24.5	23.8	78	***	***	***
Weather Forecast	03	1010.2	32.1	28.6	25.3	24.2	78	***	***	***
Weather Monitoring	04	1007.9	32.8	28.8	25.0	23.6	74	***	***	***
Imagery	05	1005.7	32.7	29.1	25.5	24.0	75	***	***	***
Computer Forecast	06	1004.9	33.1	29.5	26.3	24.1	74	***	***	***
Products	07	1003.0	35.8	31.1	26.9	23.7	66	***	***	***
MyObservatory	08	998.0	36.1	33.1	29.7	22.7	55	***	***	***
Tropical Cyclones	09	997.8	36.5	31.4	24.8	23.8	66	***	***	***
Aviation Weather Services	10	1003.9	30.0	27.8	25.6	25.0	85	***	***	***
Marine Meteorological	11	1006.8	33.5	28.5	25.6	25.6	85	***	***	***
Services	12	1007.3#	31.0	28.6#	26.7	26.3#	87#	***	***	***
Weather Information for	13	1007.4#	28.1	27.4#	26.5	25.1#	88#	***	***	***
Sports	14	1007.1	28.0	26.1	24.6	25.1	95	***	***	***
Weather Information for	15	1008.1	26.8	25.3	24.4	24.7	96	***	***	***
Communities	16	1008.1	30.7	26.9	25.3	26.0	95	***	***	***
China Weather	17	1007.6	32.3	29.1	26.0	25.7	83	***	***	***
World Weather	18	1007.4	33.7	29.9	27.1	25.4	78	***	***	***
Climatological Information	19	1007.1	34.6	29.9	26.7	25.6	78	***	***	***
Services Watala	20	1005.9	30.9	28.5	26.9	25.9	86	***	***	***
> Climate Watch	21	1001.8	33.0	29.7	28.1	25.3	78	***	***	***
> Climate Statistics	22	999.7	33.6	30.2	27.2	24.4	72	***	***	***
> Climate Prediction	23	999.6	33.4	30.5	27.8	24.3	70	***	***	***
> Climate Knowledge	24	1002.1	33.6	30.3	27.6	24.1	71	***	***	***
> Need More	25							***	***	***
Information?	26	1005.3	33.1	29.7	26.1	22.8	67	***	***	***
> Global Climate	\vdash	1007.8	31.6	28.4	26.8	25.1	83		***	
Services	27	1007.7	31.7	28.8	26.6	25.1	81	***		***
> Other Useful Links	28	1006.2	29.8	27.2	25.9	24.7	86	***	***	***
Climate Forecast	29	1006.0	29.2	26.5	25.2	25.2	93	***	***	***
Climate Change	30	1006.4	27.8	26.3	25.4	25.2	94	***	***	***
El Nino and La Nina	31	1007.1	29.4	27.1	25.5	25.4	91	***	***	***

*** unavailable

data incomplete

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

Astronomy, Space

Weather and

Earthquakes and Tsunamis

Geomagnetism

Time and Calendar

Radiation Monitoring, Assessment and

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Publications
Media and Information
Services
Audio/Video Webpage
Electronic services
World Meteorological Day
World Meteorological
Organization-Official City
Weather Forecasts
World Meteorological
Organization-Global
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Links
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Last revision date: <24 Jun 2015>

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

Appendix I Impact Daytime Construction Noise Monitoring Results

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

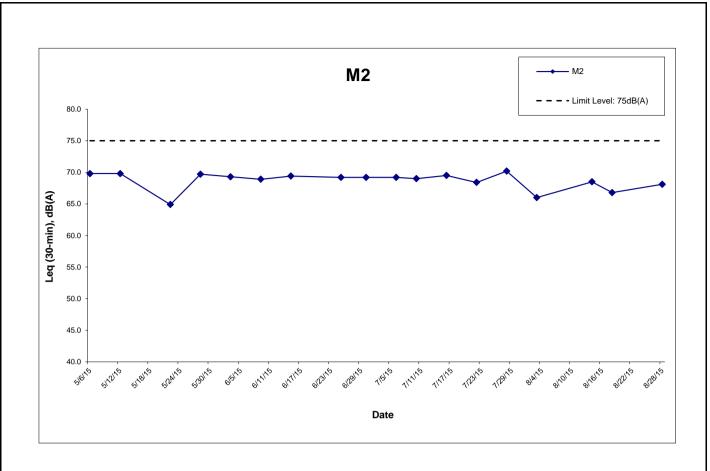
	Measured Noise Level for 30-min, dB(A)				Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	dB(A)	(Y/N)
3-Aug-15	13:25	68.5	69.5	66.0	75	N
14-Aug-15	10:00	70.2	73.6	68.5	75	N
18-Aug-15	14:00	69.6	73.2	66.8	75	N
28-Aug-15	14:00	70.2	73.6	68.1	75	N
	Min	68.5	69.5	66.0		
	Max	70.2	73.6	68.5		
	Average	69.7	72.8	67.5		

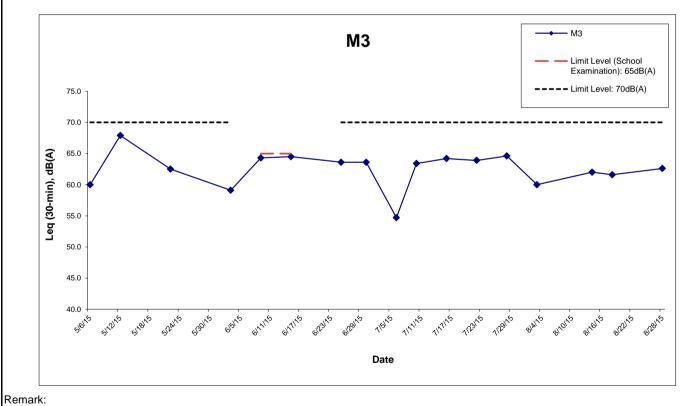
Location: M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

	Measured Noise Level for 30-min, dB(A)				Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	dB(A)^	(Y/N)
3-Aug-15	13:00	62.1	63.5	60.0	70	N
14-Aug-15	10:50	64.1	67.3	62.0	70	N
18-Aug-15	13:00	64.2	66.8	61.6	70	N
28-Aug-15	14:10	64.1	67.3	62.6	70	N
	Min	62.1	63.5	60.0		
	Max	64.2	67.3	62.6		
	Average	63.7	66.5	61.7		

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





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

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CONTRACT NO. HY/2012/06

WIDENING OF FANLING HIGHWAY

- TAI HANG TO WO HOP SHEK INTERCHANGE

AECOM

Graphical Presentation of Impact Daytime Construction Noise Monitoring Results

Project No.: 60307376 Date: Sep-15 Appendix I

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		Action	1	
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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by ER until the exceedance is abated.

Event / Action Plan for Noise Impact

Event	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. 		 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. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	 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 J – Event Action Plan

Event / Action Plan for Air Quality

Event		Action	1	
	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		Action	1	
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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by ER until the exceedance is abated.

Event / Action Plan for Noise Impact

Event	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. 		 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. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	 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







Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06	
Date:	4 August 2015	
Time:	14:00	
Inspection No.:	90	

Non-compliance	2 1 2 2 2 2 2 2 2				
Nil					

Observations

Follow-up Observation(s)

- 1. Stagnant water and general refuse was cleared. (Closed)
- Stagnant water was cleared. (Closed)

New Observation(s)

Mud trails were observed outside the site entrance. The Contractor should clear the mud trails, and keep the public road and site entrance clear of dusty materials.

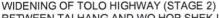
Reminder(s)

Nil.

Remarks

	Name	Signature	Date
Prepared by	Joanne Ko	Magnetalan	5 August 2015
Checked by	Y W Fung		5 August 2015

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





Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06
Date:	13 August 2015
Time:	14:00
Inspection No.:	91

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1 V	UII	-co	1111	JII	all	して

Nil

Observations

Follow-up Observation(s)

The site entrance has been cleaned. (Closed)

New Observation(s)

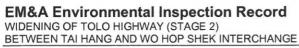
Dusty material was observed on the ground outside Area 329 site entrance. The Contractor should clean up the dusty material frequently and ensure public road is kept clear of dusty materials from the construction site.

Reminder(s)

Nil.

Remarks

	Name	Signature	Date
Prepared by	Joanne Ko	gando.	13 August 2015
Checked by	Y W Fung	1/	13 August 2015





Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06
Date:	18 August 2015
Time:	14:00
Inspection No.:	92

Non-compliance Nil

Observations

Follow-up Observation(s)

1. Pubic road outside SA329 has been cleaned. (Closed)

New Observation(s)

Nil.

Reminder(s)

The Contractor was reminded to cover the soil stockpile entirely for dust suppression.

Remarks

	Name	Signature	Date
Prepared by	Joanne Ko	litable.	19 August 2015
Checked by	Y W Fung	4/	19 August 2015
-		1/	-1



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

Site Inspection Summary

Inspection Information

Contract No.	HY/2012/06	
Date:	25 August 2015	
Time:	14:00	
Inspection No.:	93	

Date.	25 August 2015
Time:	14:00
Inspection No.:	93
Non-compliance	
Nil	
Observations	
Follow-up C	Observation(s)
Nil.	
New Observ	vation(s)
The Contract	ctor should water the site area frequently for dust suppression.
Reminder(s	
Nil.	

Remarks

	Name	Signature	Date
Prepared by	Joanne Ko	18ktorge.	26 August 2015
Checked by	Y W Fung	1/	26 August 2015

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
		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			
	23 October	have piled up high stockpiles, causing serious dust nuisance to his	Closed		
	2014	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.			
		EPD referred a water complaint on 31 December 2014.			
	31	The complainant complained about the muddy river outside Tai Hang			
	December 2014	Village Office on 29 December 2014. It was suspected that the muddy	Closed		
		water was discharged from the construction works of the Project.			
		He required the EPD to follow up.			

	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