

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Monthly EM&A Report

August 2017

Submitted to

Prepared By

Environmental Protection Department

Meinhardt Infrastructure and Environment Ltd

Meinhardt Infrastructure and Environment Limited

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Monthly EM&A Report

(August 2017)

Certified by:	Fredrick Leong
Position:	Environmental Team Leader
Date:	13 September 2017



Hyder-Arup-Black & Veatch Joint Venture c/o Arcadis 20/F, AXA Tower, Landmark East, 100 How Ming Street, Kwun Tong, Hong Kong Attn: Mr. James Penny

Your Reference

Our Reference JFP/EC/ST/pl/T329380/22 .05/L-0183

20/F AIA Kowloon Tower Landmark East 100 How Ming Street Kwun Tong Kowloon Hong Kong

T +852 2828 5757 F +852 2827 1823 mottmac.hk Environmental Monitoring and Audit (EM&A) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange) – Entrusted Works Environmental Permit No. EP-324/2008/E Condition 3.3 – Submission of Monthly EM&A Report – August 2017 for the portion of Stage 2 works entrusted to Civil Engineering and Development Department (CEDD) under Contract No. CV/2012/09

12 September 2017 By Fax (2805 5028) & Hand

We refer to the revised Monthly EM&A Report – August 2017 received on 07 September 2017 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – August 2017 (Rev. 0) for the portion of works under Stage 2 of the captioned Project which is entrusted to CEDD under Contract No. CV/2012/09.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Steven Tang Independent Environmental Checker

c.c. HyD CEDD/BCP AECOM Meinhardt

Mr. Chung Lok Chin Mr. Lu Pei Yu Mr. Alan Lee Mr. Fredrick Leong By Fax (2714 5198) By Fax (3547 1659) By Fax (3922 9797) By Fax (2559 1613)

Date	Revision	Prepared By	Checked By	Approved By
13 September 2017	0	WK CHIU Vanessa HO	Fredrick LEONG	Helen COCHRANE
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		Novena He	$\int \mathcal{N}$	10



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EXECUTIVE SUMMARY

The Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 (hereafter called "the Project") covers part of the construction of the widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling which aimed to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic. The Project covers construction activities at Yuen Leng along the existing Fanling Highway.

The impact EM&A for the Project includes air quality, noise and water quality monitoring. The EM&A programme commenced on 5 November 2013.

This report documents the findings of EM&A works conducted in August 2017. As informed by the Contractor, the major activities in the reporting month were:

- Boundary wall construction for DSD pumping station;
- Cable detection and trial trenches;
- Remaining works on new Footbridge;
- Noise barrier construction;
- Roadworks;
- Viaduct segment erection;
- Water main laying works;
- Installation of Noise barrier steel column & panel;
- Parapet Installation on bridge deck;
- Drainage Work;
- Mini-pile installation;
- Construction of profile barrier & Planter wall on Bridge deck;
- Stressing of external tendon;
- Construction of abutment wall; and
- Trenchless excavation.

Breach of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.

No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.

Breach of Action and Limit Levels for Noise

No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.



Breach of Action and Limit Levels for Water Quality

The box culvert works have been completed in the end of March 2017. The 4-week post construction water quality monitoring has been completed in the end of April 2017 in the same manner as the impact monitoring.

Complaint, Notification of Summons and Successful Prosecution

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

Future Key Issues

The major construction works in the coming reporting month are anticipated to include:

- Boundary wall for pumping station;
- Installation of noise barrier steel post & panel;
- Remaining works on new Footbridge;
- Mini-pile installation works;
- Noise barrier construction;
- Roadworks;
- Viaduct Segment erection;
- Water main laying works;
- Parapet Installation on bridge deck;
- Construction of profile barrier & Planter wall on Bridge deck;
- Drainage Work;
- Stressing of external tendon; and
- Construction of abutment wall.

Potential environmental impacts arising from the above construction activities are anticipated to be mainly associated with construction dust, noise, water quality and waste management.



1 INTRODUCTION

1.1.1 Chun Wo Construction & Engineering Co Ltd (Chun Wo) was commissioned by the Civil Engineering and Development Department (CEDD) as the Civil Contractor for the Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2. Meinhardt Infrastructure & Environment Ltd (MIEL) has been appointed by Chun Wo as the Environmental Team (ET) to fulfill the corresponding EM&A requirements pursuant to Environmental Permit No. EP-324/2008/E in accordance with the Updated EM&A Manual (dated October 2013) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2. The EM&A programme commenced on 5 November 2013.

1.2 Purpose of the Report

1.2.1 This is the monthly EM&A Report which summaries the impact monitoring results and audit findings for the Project during the reporting month of August 2017.

1.3 Report Structure

1.3.1 This monthly EM&A Report comprises the following sections:

Section 1: Introduction

Section 2: Project Information

Section 3: Status of Environmental Licenses, Notifications and Permits

Section 4: Air Quality Monitoring

Section 5: Noise Monitoring

Section 6: Water Monitoring

- Section 7: Waste Management
- Section 8: Environmental Site Inspection and Audit
- Section 9: Implementation Status of Environmental Mitigation Measures

Section 10: Summary of EP Submission in the Reporting Month

Section 11: Environmental Non-Conformance

Section 12: Future Key Issues

Section 13: Conclusions and Recommendations



2 **PROJECT INFORMATION**

2.1 Background

- 2.1.1 Tolo Highway and Fanling Highway are expressways in the North East New Territories connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 1, which links Hong Kong Island to Shenzhen. At present, this section of Route 1 is a dual 3-lane carriageway. However, at several major interchanges along this section of Route 1, the highway is only dual-2 lane. Severe congestion is a frequent occurrence during peak periods, particularly in the Kowloon bound direction.
- 2.1.2 The objective of the 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.
- 2.1.3 The construction works for the Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling are to be delivered in 2 stages:

Stage 1 – Construction works between Island House Interchange and Tai Hang; and

Stage 2 – Construction works between Tai Hang and Wo Hop Shek Interchange.

- 2.1.4 The construction works of Stage 1 under the EP commenced in November 2009 and was planned to be completed in December 2013 tentatively. The works of Stage 2 was planned to commence in November 2013 and complete by end of 2016. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) was appointed by the Highways Department (HyD) as the consultants for the design and construction assignment for the Project. Mott MacDonald Hong Kong Ltd is the Independent Environmental Checker (IEC) of both Stage 1 and Stage 2 works.
- 2.1.5 A portion of Stage 2 works of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling (hereafter called "the Project") is entrusted to the contractor of Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works Contract 3, i.e. Chun Wo. AECOM Asia Co Ltd was appointed by the CEDD as the consultant for the design and construction assignment for the Liantang development.
- 2.1.6 The Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). An Environmental Impact Assessment (EIA) Report together with an Environmental Monitoring and Audit (EM&A) Manual were approved on 14 July 2000 (Register Number: EIA-043/2000). The Project is governed by an Environmental Permit (EP) (EP-324/2008) which was granted on 23 December 2008. A variation of EP (VEP) was applied and the VEP (EP-324/2008/A) was subsequently granted on 31 January 2012. An additional VEP has been applied on 24 February 2014 and the VEP (EP-324/2008/B) was subsequently granted on 17 March 2014. Furthermore, an additional VEP has been applied on 9 March 2015 and the VEP (EP-324/2008/C) was subsequently granted on 27 March 2015. The previous VEP (EP-324/2008/D) was granted on 27 August 2015. The current VEP (EP-324/2008/E) was granted on 26 January 2017.



2.2 Site Description

2.2.1 The major construction activities under the Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 include:

At-Grade Road Works – Temporary and permanent road formation, pipe laying, road drainage, footpath and noise barrier construction;

Demolition of existing Kiu Tau Footbridge and Footbridge Reprovision; and

Box Culvert Extension – Flow diversion of existing stream, excavation, sub-base and blinding, base, wall and top slab construction.

2.2.2 **Figure 1** shows the works areas for the Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2.

2.3 Construction Programme and Activities

- 2.3.1 The major construction activities undertaken in the reporting month are summarized below:
 - Boundary wall construction for DSD pumping station;
 - Cable detection and trial trenches;
 - Remaining works on new Footbridge;
 - Noise barrier construction;
 - Roadworks;
 - Viaduct segment erection;
 - Water main laying works;
 - Installation of Noise barrier steel column & panel;
 - Parapet Installation on bridge deck;
 - Drainage Work;
 - Mini-pile installation;
 - Construction of profile barrier & Planter wall on Bridge deck;
 - Stressing of external tendon;
 - Construction of abutment wall; and
 - Trenchless excavation.
- 2.3.2 The construction programme is presented in **Appendix A**.

2.4 **Project Organisation**

2.4.1 The project organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarised in **Table 2.1**.



Party	Role	Position	Name	Telephone	Fax
AECOM Engineer's		Senior Resident Engineer	Mr. Alan Lee	2171 3303	2171 3498
AECOM	Representative	Resident Engineer (Environmental)	Mr. Perry Yam	2171 3350	2171 3496
Mott MacDonald	Independent Environmental Checker (IEC)	IEC	Mr. Steven Tang	2828 5920	2827 1823
Chun M(a	Contractor	Site Agent	Mr. Daniel Ho	2638 6144	2020 7077
Chun Wo	Contractor	Environmental Officer	Ms. Tiffany Tsang	2638 6150	2638 7077
Meinhardt	Environmental Team (ET)	ET Leader	Mr. Fredrick Leong	2859 1739	2540 1580

Table 2.1 Contact Information of Key Personnel

3 STATUS OF ENVIRONMENTAL LICENSES, NOTIFICATION AND PERMITS

3.1.1 The relevant environmental licenses, permits and/or notifications on environmental protection for this Project and valid in the reporting month are summarized in **Table 3.1**.

Permit / License No.	Valid Period		Chattan	_	
/ Notification / Reference No.	From	То	Status	Remarks	
Environmental Permi	t	1			
EP-324/2008/E	26 Jan 2017		Granted on 26 Jan 2017		
Construction Noise P	ermit				
GW-RN0040-17	25 Feb 2017	24 Aug 2017	Valid	For general works at the northward of site office	
GW-RN0069-17	15 Feb 2017	14 Aug 2017	Valid	For tractor with trailer entering the Construction Site next to MTRC's East Rail Line at Tong Hang	
GW-RN0071-17	16 Feb 2017	15 Aug 2017	Valid	For fuel delivery and tractor with trailer entering the construction site next to MTRC's East Rail Line at Tong Hang Tung	
GW-RN0115-17	2 Mar 2017	26 Aug 2017	Valid	For concreting of stitch construction between AD12 and pier AB11R	
GW-RN0161-17	1 Apr 2017	30 Sep 2017	Valid	For segment erection across Fanling Highway	
GW-RN0185-17	1 Apr 2017	30 Sep 2017	Valid	For segment erection across Fanling Highway and MTRC's East Rail Line	
GW-RN0204-17	30 Mar 2017	29 Sep 2017	Valid	For operating Water Pumping in Jacking Pit on Tai Wo Service Road West	

Table 3.1 Status of Environmental Licenses, Notifications and Permits



Permit / License No.	Valid I	Period	Ototus	Demonto
/ Notification / Reference No.	From	То	Status	Remarks
GW-RN0213-07	6 Apr 2017	9 Sep 2017	Valid	For segment erection and rectification of the missing road markings at Fanling Highway both bounds
GW-RN0219-17	31 Mar 2017	30 Sep 2017	Valid	For segment erection crossing over MTRC's Rail Track of Pier AB11 and AD12 (1900 – 2300)
GW-RN0235-17	11 Apr 2017	7 Oct 2017	Valid	For installation of parapet at AC5 to AC6
GW-RN0236-17	10 Apr 2017	16 Sep 2017	Valid	For demolition of Kiu Tau Footbridge at Fanling Highway both bounds at Tai Wo Service Road East
GW-RN0302-17	30 Apr 2017	29 Oct 2017	Valid	For segment erection and traverser stitch joints crossing above MTRC's East Rail Line
GW-RN0303-17	11 May 2017	10 Oct 2017	Valid	For segment erection crossing over MTRC's Rail Track of Pier AB11 and AD12 (0155-0500)
GW-RN0342-17	28 May 2017	20 Nov 2017	Valid	For road marking works in Fanling Highway bothbounds
GW-RN0376-17	22 Jun 2017	21 Dec 2017	Valid	For dismantling of catch fence within MTR Protection Zone at Tong Hang Tung Chuen
GW-RN0378-17	22 Jun 2017	21 Dec 2017	Valid	For general works at the southward of site office



Permit / License No.	Valid Period		_	
/ Notification / Reference No.	From	То	Status	Remarks
GW-RN0384-17	12 Jun 2017	9 Sep 2017	Valid	For segment stitches concreting and installation of parapet crossing over Fanling Highway
GW-RN0417-17	20 Jun 2017	16 Dec 2017	Valid	For road diversion and maintenance of Fanling Highway Bothbound
GW-RN0458-17	16 Jul 2017	18 Dec 2017	Valid	For lane shifting work of Fanling Highway bothbound
GW-RN0477-17	28 Jul 2017	5 Jan 2018	Valid	For loading and unloading along Fanling Highway both bounds
GW-RN0500-17	29 Aug 2017	24 Feb 2018	Valid	For concreting of stitch construction between AD12 and pier AB11R
GW-RN0501-17	25 Aug 2017	24 Feb 2018	Valid	For general works at the northward of site office
GW-RN0508-17	16 Aug 2017	15 Feb 2018	Valid	For fuel delivery and tractor with trailer entering the construction site next to MTRC's East Rail Line at Tong Hang Tung
GW-RN0510-17	10 Aug 2017	18 Nov 2017	Valid	For segment erection, stitches concreting and installation of parapet crossing over Fanling Highway and MTRC's East Rail Line
Wastewater Discharg				
WT00016832-2013	28 Aug 2013	31 Aug 2018	Valid	
Chemical Waste Prod	_	on		
5113-634-C3817-01	7 Oct 2013		Valid	
Billing Account for Co		ste Disposal		
7017914	2 Aug 2013		Account Active	



Permit / License No. / Notification /	Valid I	Period	Status	Remarks	
Reference No.	From	То	Status	Remarks	
Notification Under Air Pollution Control (Construction Dust) Regulation					
	31 Jul 2013	30 Jul 2019	Notified		



4 AIR QUALITY MONITORING

4.1 Monitoring Requirement

4.1.1 In accordance with the Updated EM&A Manual, 1-hr and 24-hr total suspended particulate (TSP) levels at the designated air quality monitoring station are required. Impact 24-hour TSP monitoring should be carried out for at least once every 6 days. For the 1-hr TSP impact monitoring, the sampling frequency of at least three times in every 6 days should be undertaken when the highest dust impact occurs.

4.2 Monitoring Equipment

4.2.1 The 1hr- TSP and 24-hr TSP air quality monitoring were performed using a High Volume Sampler (HVS), of which its location and operation satisfy, as far as practicable, all the requirements as specified in the Updated EM&A Manual. The brand and model of the equipment are given in **Table 4.1**.

 Table 4.1
 Air Quality Monitoring Equipment

Equipment	Brand and Model	Quantity	Serial Number
High Volume	Tisch Total Suspended Particulate		
Sampler	Mass Flow Controlled High Volume	1	2359
(1-hr TSP and	Air Sampler (Model No. TE-5170	I	2009
24-hr TSP)	MFC)		

- 4.2.2 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.
- 4.2.3 Calibration of the HVS (five point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix C**.

4.3 Monitoring Location

4.3.1 Air quality monitoring was conducted at the location specified in the Updated EM&A Manual. **Table 4.2** describes the details of the air quality monitoring station with its location as shown in **Figure 2**.

 Table 4.2
 Location of Air Quality Monitoring

Air Monitoring Station ID	Monitoring Location	Description	
AM1(SR77) *	Yuen Leng 2 *	Residential, Ground floor	

Remark:

Location and Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

4.4 Monitoring Parameters, Frequency and Duration

4.4.1 **Table 4.3** summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.



Parameter	Frequency and Duration
1-hour TSP	At least three times in every 6 days should be undertaken when the highest dust impact occur
24-hour TSP	Once every 6 days

4.5 Monitoring Methodology

1-hr and 24-hr TSP Monitoring

- 4.5.1 With the consideration of criteria stated in the Updated EM&A Manual, the HVS was installed in the vicinity of the air sensitive receivers.
- 4.5.2 The relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any special phenomena observed were recorded. The weather information was referenced from Hong Kong Observatory (http://www.weather.gov.hk/wxinfo/pastwx/extractc.htm).
- 4.5.3 A HOKLAS accredited laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments, to handle the 24-hr TSP samples, was employed for sample analysis.
- 4.5.4 Filter papers of size 8"x10" were labelled before sampling. They were inspected to be clean with no pin holes and conditioned in a humidity controlled chamber for over 24-hr and were pre-weighed before use for the sampling.
- 4.5.5 The 24-hr TSP levels were measured by following the standard high volume sampling method for TSP as set out in the Title 40 of the United States Code of Federal Regulations, Chapter 1 (Part 50), Appendix B. TSP was sampled by drawing air through a conditioned, pre-weighted filter paper inside the HVS at a controlled air flow rate. After 24-hr sampling, the filter papers loaded with dust were kept in a clean and tightly sealed plastic bag, and then returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with a readout down to 0.1 mg.
- 4.5.6 All the collected samples were kept in a good condition for 6 months before disposal.
- 4.5.7 For 1-hr TSP monitoring, monitoring methodology is the same as 24-hr TSP monitoring which has been presented in **Section 4.5.1** to **Section 4.5.6**, but with sampling period changed to 1 hour.

4.6 Monitoring Schedule for the Reporting month

4.6.1 The schedule for environmental monitoring for the reporting month is provided in **Appendix D**. Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix E**.

4.7 Monitoring Results

4.7.1 The monitoring results for 1-hr and 24-hr TSP are summarised in **Table 4.4** and **Table 4.5** respectively. Detailed air quality monitoring results and the graphical presentation



of air quality monitoring data for the current and past three reporting months are presented in **Appendix F**.

Table 4.4 Summary of 1-hr TSP Monitoring Results

ASR ID	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM1(SR77) *	134.3	91.2 – 167.3	292.7	500

Remark:

Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

Table 4.5 Summary of 24-hr TSP Monitoring Results

ASR ID	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM1(SR77) *	71.7	59.9 – 104.2	170.3	260

Remark:

Station / ASR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

- 4.7.2 No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 4.7.3 No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 4.7.4 The Event and Action Plan for the occurrence of non-compliance of the air quality criteria is annexed in **Appendix G**.



5 NOISE MONITORING

5.1 Monitoring Requirements

5.1.1 In accordance with the Updated EM&A Manual, the impact noise monitoring frequency shall depend on the scale of the construction activities. An initial guide on the regular monitoring frequency should be at least once per week when noise generating activities are underway.

5.2 Monitoring Equipment

5.2.1 Noise monitoring was performed using a sound level meter at the monitoring station. The sound level meter deployed complies with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. An acoustic calibrator was deployed to check the sound level meter at a known sound pressure level. The brand and model of the equipment is given in **Table 5.1**.

 Table 5.1
 Noise Monitoring Equipment

Equipment	Brand and Model	Quantity	Serial Number
Sound Level Calibrator	Rion (Model No. NC-74)	1	34857296
Sound Level Meter	B&K (Model No. 2238)	1	2694908

5.2.2 The sound level calibrator and sound level meter were verified by a certified laboratory every year. Calibration certificates of the sound level meter and acoustic calibrator are provided in **Appendix C**.

5.3 Monitoring Locations

5.3.1 Impact noise monitoring was conducted at the location specified in the Updated EM&A Manual. **Table 5.2** describes the details of the noise monitoring station with its location as shown in **Figure 2**.

NSR ID	Monitoring Location	Description
M1(SR77) *	Yuen Leng 2 *	Residential, Ground floor

Remark:

Location and Station / NSR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

5.4 Monitoring Parameters, Frequency and Duration

5.4.1 **Table 5.3** summarizes the monitoring parameters, frequency and duration of impact noise monitoring.



Table 5.3 Noise Monitoring Parameters, Frequency and Duration

Parameter and Duration	Frequency
30-mins measurement at between 0700 and 1900 on norr weekdays. Leq, L10 and L90 would be recorded.	nal At least once per week

5.5 Monitoring Methodology

- 5.5.1 The monitoring procedures are summarised as follows:
 - 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 SR77;
 - The battery condition was checked to ensure good functioning of the meter;
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Parameters: Leq, L10 and L90
 - Time measurement: Leq(30-minutes) during non-restricted hours i.e. 07:00 19:00 hrs on normal weekdays
 - 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 1dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
 - At the end of the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
 - A façade correction of +3dB (A) shall be made to the noise parameter obtained by free field measurement.

5.6 Monitoring Schedule for the Reporting Month

5.6.1 The schedule for environmental monitoring for the reporting month is provided in **Appendix D**. Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix E**.

5.7 Monitoring Results

5.7.1 The monitoring results for noise are summarized in **Table 5.4** and the monitoring results and the graphical presentation of noise level for the current and past three reporting months are presented in **Appendix H**.



 Table 5.4
 Summary of Noise Monitoring Results

Noise Monitoring Station ID	Average, dB(A), Leq (30min) ⁽²⁾	Range, dB(A), Leq (30min) ⁽²⁾	Action Level	Limit Level, dB(A)
M1(SR77) ⁽¹⁾	66.8	64.0 - 68.5	When one documented valid complaint is received	75

Remark:

(1) Station / NSR ID as identified in Updated EM&A Manual / EIA Report for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

(2) +3dB(A) façade correction included

- 5.7.2 Major noise sources during the noise monitoring included construction activities of the Project and that along Tai Wo Service Road East, and nearby traffic noise.
- 5.7.3 No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.
- 5.7.4 The Event and Action Plan for the occurrence of non-compliance of the noise criteria is annexed in **Appendix G**.



6 WATER MONITORING

6.1.1 The box culvert works had been completed in March 2017. The 4-week postconstruction water quality monitoring at I5 was completed in 28 April 2017.



7 WASTE MANAGEMENT

- 7.1.1 The Contractor has registered as a chemical waste producer of the Project. The C&D materials and waste sorting were carried out on-site. Receptacles were provided for general refuse collection.
- 7.1.2 As advised by the Contractor, a total of 1,297m³ of excavated material has been generated. 1,059m³ of inert C&D materials was disposed of at public fill to Tuen Mun Area 38. 120m³ inert C&D materials were reused on site. 130m³ of general refuse was disposed of at North East New Territories (NENT) Landfill. No plastic was collected by recycling contractor in the reporting month. No paper/cardboard packaging was collected by recycling contractor in the reporting month. No metal was collected by recycling contractor in the reporting month. No metal was collected by recycling contractor in the reporting month. No chemical waste was collected by licensed contractor in the reporting period. Details of the waste management data are presented in **Appendix K**.



8 ENVIRONMENTAL SITE INSPECTION AND AUDIT

8.1 Site Inspection

- 8.1.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the site inspection is provided in **Appendix L**.
- 8.1.2 In the reporting month, 5 site inspections were carried out on 3, 10, 16, 24 and 31 August 2017. The one held on 31 August 2017 was a joint inspection with the IEC, ER, ET and Contractor. No site inspection was conducted by the EPD during the reporting month. No non-compliance was recorded during the site inspection. A summary of the reminders and observations recorded during the site inspections are presented in **Table 8.1**.

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	N/A	N/A
Air Quality	31 Aug 2017	Contractor is reminded to cover stockpiling to prevent dust generation.	The follow up action will be reviewed in next monthly report.
Noise	N/A	N/A	N/A
Water Quality	3 Aug 2017	Sand residue is observed at the trench along the site boundary near Fanling Highway. Contractor is reminded to clear the trench to avoid muddy water discharge.	The trench along the site boundary near Fanling Highway has been cleared during site inspection on 10 Aug 2017.
Waste / Chemical Managem- ent	N/A	N/A	N/A
Landscape & Visual	N/A	N/A	N/A
Permits / Licenses	N/A	N/A	N/A

Table 8.1 Observations and Recommendations of Site Audit



9 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

9.1.1 The Contractor has implemented the relevant environmental mitigation measures as specified in the EIA Reports, EPs and updated EM&A Manual. The implementation status of environmental mitigation measures during the reporting period is summarized in **Appendix L**.



10 SUMMARY OF EP SUBMISSION IN THE REPORTING MONTH

10.1.1 The status of the required submission under the EP during the reporting period is summarized in **Table 10.1**.

Table 10.1 Status of Required Submission under Environmental Permit

EP Condition	Submission	Submission Date
Condition 3.3	Monthly EM&A Report for July 2017	11 August 2017

10.1.2 The Quarterly EM&A Report (May 2017 – July 2017) was prepared and submitted on 15 August 2017 in accordance to Section 8.3.4 of the EM&A Manual.



11 ENVIRONMENTAL NON-CONFORMANCE

11.1 Summary of Monitoring Exceedances

- 11.1.1 No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 11.1.2 No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 11.1.3 No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.
- 11.1.4 The 4-week post-construction water quality monitoring at I5 was completed in April 2017.

11.2 Summary of Environmental Non-Compliance

11.2.1 No environmental non-compliance was recorded in the reporting month. The cumulative statistics are provided in **Appendix N**.

11.3 Summary of Environmental Complaints

11.3.1 No environmental complaints were received in the reporting month. The cumulative statistics are provided in **Appendix N**.

11.4 Summary of Environmental Summon and Successful Prosecutions

11.4.1 No environmental related prosecution or notification of summons was received in the reporting month. The cumulative statistics are provided in **Appendix N**.



12 FUTURE KEY ISSUES

12.1 Construction Programme for the Next Month

- 12.1.1 The major construction works in the coming reporting month are anticipated to include:
 - Boundary wall for pumping station;
 - Installation of noise barrier steel post & panel;
 - Remaining works on new Footbridge;
 - Mini-pile installation works;
 - Noise barrier construction;
 - Roadworks;
 - Viaduct Segment erection;
 - Water main laying works;
 - Parapet Installation on bridge deck;
 - Construction of profile barrier & Planter wall on Bridge deck;
 - Drainage Work;
 - Stressing of external tendon; and
 - Construction of abutment wall.

12.2 Key Issues for the Coming Month

- 12.2.1 Key issues to be considered in the coming month are anticipated to include:
 - Site discharges should be properly collected and treated prior to discharge;
 - Properly maintain all drainage facilities and wheel washing facilities on site;
 - Expose slopes and dusty stockpile should be covered up properly if no work will be conducted;
 - Good housekeeping should be maintained and general refuse should be removed regularly;
 - Chemical waste should be stored, handled and disposed of properly;
 - Properly store and label oils and chemicals on site; and
 - A spill response procedure shall be in place and absorption material available for minor spillages.
- 12.3 Monitoring Schedule for the Next Month
- 12.3.1 The tentative schedule for environmental monitoring for the coming month is provided in **Appendix D**.



13 CONCLUSIONS AND RECOMMENDATIONS

13.1 Conclusions

- 13.1.1 The construction phase EM&A programme of the Project commenced on 5 November 2013.
- 13.1.2 The 1-hr TSP, 24-hr TSP, noise and water quality monitoring were carried out in the reporting period.
- 13.1.3 No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 13.1.4 No exceedance of Action and Limit Level was recorded for 1-hour TSP monitoring at the monitoring location AM1(SR77) in the reporting month.
- 13.1.5 No noise complaint was received in the reporting month, so no Action Level exceedance was recorded. Also, no Limit Level exceedance of noise monitoring was recorded in the reporting month.
- 13.1.6 The 4-week post-construction water quality monitoring at I5 was completed in April 2017.
- 13.1.7 Five (5) environmental site inspections were carried out in the reporting month. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audit.

13.2 Recommendations

13.2.1 According to the environmental site inspections performed in the reporting month, the following recommendation was provided:

Air Quality

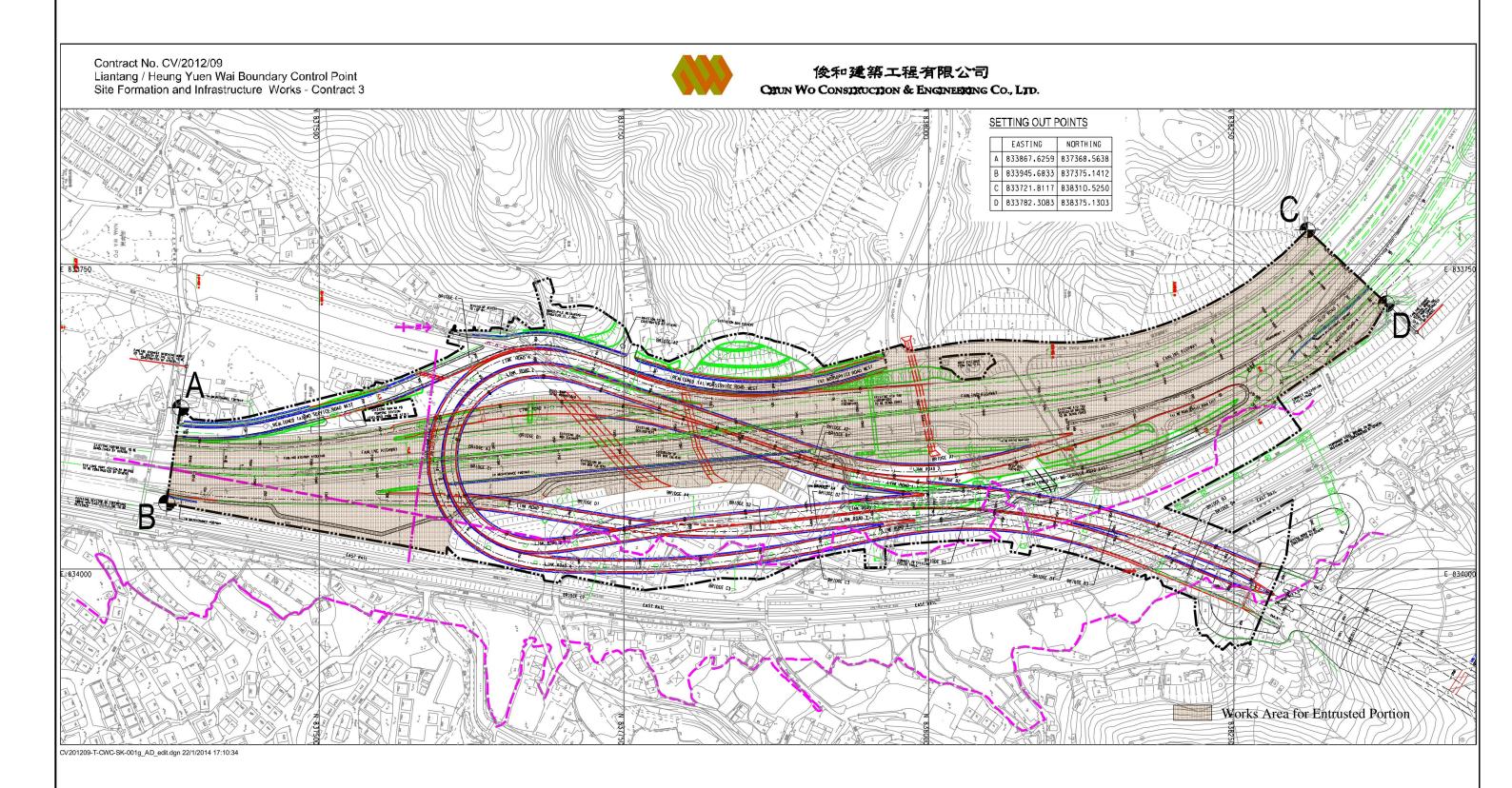
• Stockpiling shall be covered to avoid dust generation

Water Quality

• Implement sufficient mitigation measures to avoid runoff leakage from road works areas and divert site effluent to wastewater treatment facilities



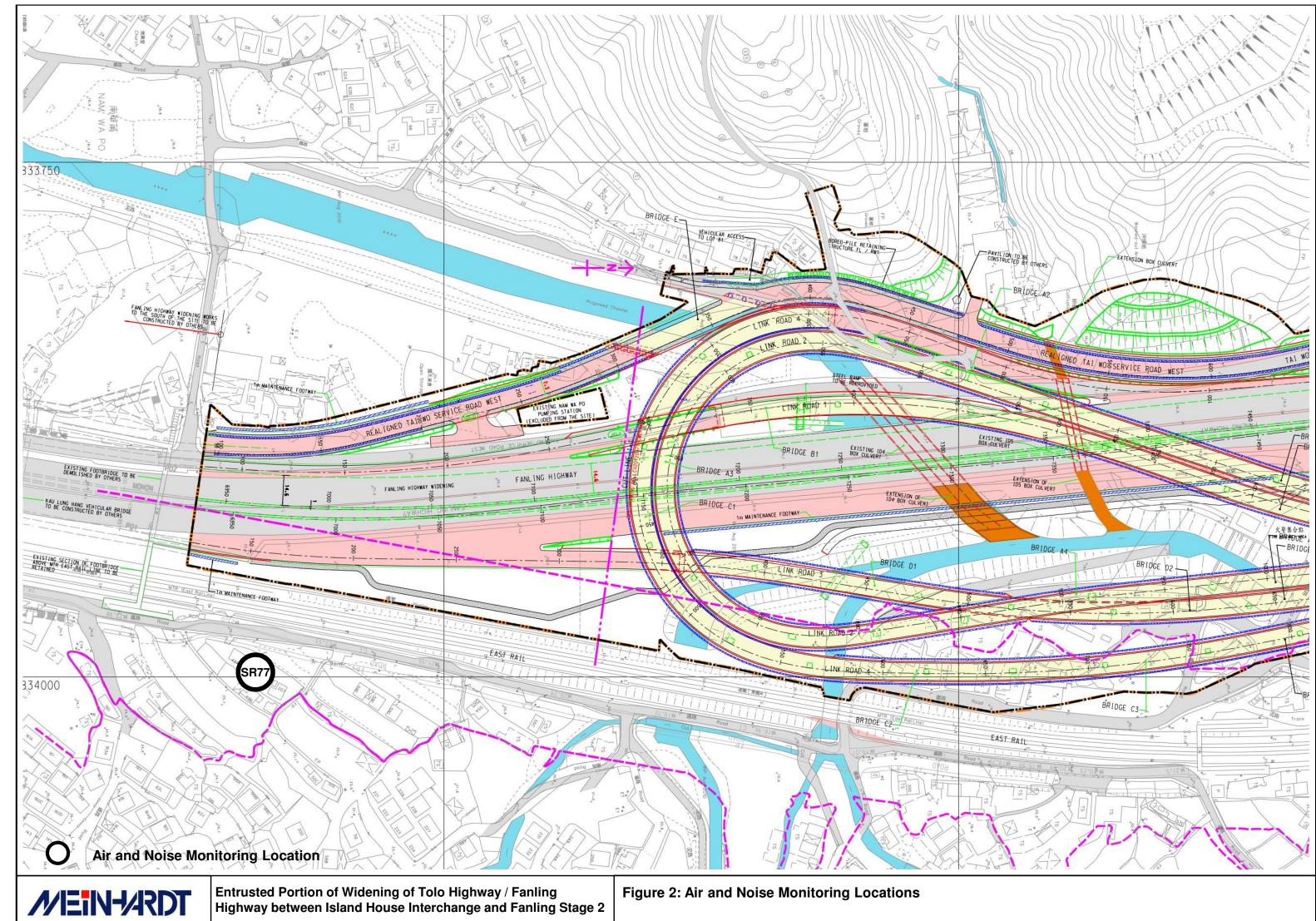
Figure





Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2

Figure 1: Demarcation of Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling – Stage 2





Appendix A Construction Programme

Activity ID	Activity Name	OD	RD	Start	Finish	키	Aug Sep	017 Oct	Nov	Dec
3-Month Rolling	Programme 2017-08-21 (Based on UMP05E)								1107	
Key Dates (Con	itractual)					_				
KD-1200	KD9: Stage 1C - Completion of viaduct structures and associated civil provisions for TCSS and allow access for other	0	0		20-Aug-17*	-8	KD9: Stage 1C - Completion of viaduct st	ructures and associated civil provisior	s for TCSS and allow access f	for other
KD-1300	KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and allow access for HY/2012/06	0	0		20-Aug-17*	-261	KD10: Stage S4 - Completion of road wid	ening of Fanling Highway within SBZ	and allow access for HY/201	2/06
KD-0900	KD6A: Section 6 - All works in Portion FH9 of the Ste but excluding works on the deck surfaces	0	0		20-Aug-17*	-29	KD6A: Section 6 - All works in Portion FH	9 of the Site but excluding works on th	e deck surfaœs	
KD-1400	KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and allow access for HY/2012/06	0	0		12-Sep-17*	0	♦ KD11: Stage N	4 - Completion of road widening of Fa	hling Highway within NBZ1 an	nd allow access
Key Dates (For	ecast)									
KD-1405	KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and allow access for HY/2012/06	0	0		21-Aug-17*	-6	♦ KD11: Stage N4 - Completion of road with the stage	dening of Fanling Highway within NB2	1 and allow access for HY/20	12/06
KD-0905	KD6A: Section 6 - All works in Portion FH9 of the Ste but excluding works on the deck surfaces	0	0		15-Sep-17	-56	♦ KD6A: Secti	on 6 - All works in Portion FH9 of the	Site but excluding works on th	e deck surfaœ
KD-1205	KD9: Stage 1C - Completion of viaduct structures and associated civil provisions for TCSS and allow access for other	0	0		09-Oct-17	-59		♦ KD9: Stage 1C - Com	letion of viaduct structures an	nd associated o
KD-1305	KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and allow access for HY/2012/06	0	0		04-Nov-17*	0			♦ KD10: Stage S4 - Com	pletion of road
Tentative Hande	over Schedule to TCSS contractor									
HS-C	Allow access for TCSS contractor to carry out TCSS installation works on Bridge C	0	0		20-Sep-17*	0	♦ Allow a	access for TCSS contractor to carry o	t TCSS installation works on E	Bridge C
HS-D1	Allow access for TCSS contractor to carry out TCSS installation works on Bridge D (from AD1 to AD10)	0	0		30-Sep-17*	0		 Allow access for TCSS contracto 	to carry out TCSS installation	works on Brid
Dependent Mile	stones from Other Contracts									
Related to North	n Buffer Zone									
MS-NBZ140	Shift existing FLHN SB Fast Lane to future FLH 4th Lane by FHW3 Contractor	0	0	30-Sep-17*		0		Shift existing FLHN SB Fast Land	to future FLH 4th Lane by FI	HW3 Contract
Related to South	h Buffer Zone									
MS-SBZ220	Shift existing TWSRW SB to permanent alignment by FHW3 Contractor	0	0	16-Aug-17 A			◆ Shift existing TWSRW SB to permanent alignment	nent by FHW3 Contractor		
MS-SBZ120	Shift existing FLHS SB Fast Lane to future FLH 4th Lane by FHW3 Contractor	0	0	20-Aug-17*		-9	Shift existing FLHS SB Fast Lane to future	e FLH 4th Lane by FHW3 Contractor		
MS-SBZ150	Shift existing FLHS NB 3 lanes westward by FHW3 Contractor	0	0	20-Aug-17*		-7	Shift existing FLHS NB 3 lanes westward	by FHW3 Contractor		
MS-SBZ130	Shift existing FLHS SB Middle Lane to future FLH 3rd Lane by FHW3 Contractor	0	0	16-Sep-17*		0	♦ Shift existin	g FLHS SB Middle Lane to future FLH	3rd Lane by FHW3 Contract	tor
MS-SBZ160	Shift existing FLHS NB Fast Lane to future FLH 4th Lane by FHW3 Contractor	0	0	10-Oct-17*		0		Shift existing FLHS N	Fast Lane to future FLH 4th	Lane by FHW
MS-SBZ170	Shift existing FLHS NB Middle Lane to future FLH 3rd Lane by FHW3 Contractor	0	0	10-Nov-17*		0			 Shift existing FLH 	IS NB Middle I
MS-SBZ140	Shift existing FLHS SB Slow Lane to future FLH 2nd Lane by FHW3 Contractor	0	0	12-Nov-17*		0			 Shift existing F 	LHS SB Slow
Major Milestone	s and Events									
MS-1060d	T6d: TTA to shift FLH SB eastward (shift 3 Lanes) (South Portion)	1	1	27-Aug-17	27-Aug-17	58	T6d: TTA to shift FLH SB eastwar	d (shift 3 Lanes) (South Portion)		
MS-1090a	T9a: TTA to shift FLHS NB westward (shift 3 lanes), within SBZ	1	1	03-Sep-17	03-Sep-17	0	T9a: TTA to shift FLHS NE	3 westward (shift 3 lanes), within SBZ		
MS-1060c	T6c: TTA to shift FLH SB Fast Lane eastward (North Portion)	1	1	21-Sep-17	21-Sep-17	6		TTA to shift FLH SB Fast Lane eastwa		
	Vo Construction & Engineering Co., Ltd. Milesto	ning W ary Bai Rema ne		'ork 3MF	.iantang /	Heu Infra	D Contract No. CV/2012/09 g Yuen Wai BCP - Site Formation & tructure Works, Contract 3 onth Rolling Programme Page 1 of 1230-Aug-17	Date Revision	amme updated to 2017- Checked	Approved

SBZ SBZ <th></th> <th></th> <th>17</th> <th>20</th> <th></th> <th>TF</th> <th>Finish</th> <th>Start</th> <th>RD</th> <th>OD</th> <th>Activity Name</th> <th>ctivity ID</th>			17	20		TF	Finish	Start	RD	OD	Activity Name	ctivity ID
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Section IA & IB - Fanling Highway Widening (KD-1 & KD-2) Fanling Highway South Portion between CH6935 and CH7720 Fanling Highway Zouth Portion between CH6935 and CH7730 FHW-1120 FHW-1120 FHW-1140 Noise Barrier NB70 - Footing adjacent to SB lane (30m) 50 50 21-Aug-17 19-Oct-17 0 FHW-1310 FHW-1310 FHW-1310 Femporary Road Pavement (FLH NB 1 st lane) FHW-1310 Femporary Road Pavement (FLH NB 1 st l	ı for lighting of Kiu	, Submission of E&M design for li	n for lighting of Kiu Tau Footbridge,	Submission of E&M desig		12	05-Sep-17	05-Sep-16 A	14	60	2030 Submission of E&M design for lighting of Kiu Tau Footbridge	PRE-2030
Earling Highway South Portion between CH6935 and CH7130 (within SB22) Ar-Grade Roadworks (195m) FHW-1220b Noise Barrier NB88 - Footing at central median (Bay 1 - 3, 63m) 68 0 09-Dec-16 Å 12-Aug-17A 19 FHW-1160 Road Drainage, Road Formation & Pavement (FLH SB 4th lane) 90 28 21-Apr-17A 21-Sep-17 18 FHW-1140b Noise Barrier NB70 - Footing adjacent to SB lane (30m) 60 50 21-Aug-177 19-Oct-17 0 Noise Barrier NB70 - Footing adjacent (FLH NB 1 st lane) Noise Barrier NB70 - Footing adjacent to SB lane (30m) 60 50 21-Aug-177 0 Noise Barrier NB70 - Footing adjacent to SB lane (30m) Noise Barrier NB70 - Footing adjacent to SB lane (30m) 12 12 12 12 12 12 21-Aug-17 0 Noise Barrier NB70 - Footing adjacent (FLH NB 1 st lane) Noise Barrier NB70 - Footing adjacent (FLH NB 1 st lane) 12 12 12 12 12 21-Aug-17 0 Summary Bar Noise Barrier NB70 - Footing adjacent (FLH NB 1 st lane) Noise Barrier NB70 - Footing adjacent (FLH NB 1 st lane) 12 12 12 12 12 12 12 12 12 12 12 12 1											n IA & IB - Fanling Highway Widening (KD-1 & KD-2)	Section IA & IB
Fanling Highway Zone 1 between CH6935 and CH7130 (within SBZ2) At-Grade Roadworks (15m) FHW-1220b Noise Barrier NB68 - Footing at central median (Bay 1 - 3, 63m) 68 0 05-Dec-16 A 12-Aug-17 A 10 Noise Barrier NB68 - Footing at central median (Bay 1 - 3, 63m) Road Drainage, Road FHW-1160 Road Drainage, Road Formation & Pavement (FLH SB 4th lane) 90 28 21-Apr-17A 21-Sep-17 18 FHW-1100 Noise Barrier NB70 - Footing adjacent to SB lane (30m) 50 50 21-Aug-17 02-Sep-17 0 Temporary Road Pavement (FLH NB 1 st lane) Noise Barrier NB70 - Footing adjacent (FLH NB 1 st lane) FHW-1310 Temporary Road Pavement (FLH NB 1 st lane) 12 12 21-Aug-17 02-Sep-17 0 3-Month Rolling Programme updated to 201' FHW-1310 Temporary Road Pavement (FLH NB 1 st lane) 12 12 21-Aug-17 02-Sep-17 0 3-Month Rolling Programme updated to 201' CHD Construct No. CV/2012/09 Actual Work Remaining Work Summary Bar Summary Bar Infrastructure Works, Contract 3 3-Month Rolling Programme 10 10 10 10 10 10 10 10 10												
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FHW-1140b Noise Barrier NB70 - Footing adjacent to SB lane (30m) 50 50 21-Aug-17* 19-Oct-17 0 Noise Barrier NB70 - Footing adjacent FHW-11310 Temporary Road Pavement (FLH NB 1 st lane) 12 12 21-Aug-17 02-Sep-17 0 Image: Temporary Road Pavement (FLH NB 1 st lane) Summary Road Pavement (FLH NB 1 st lane) 3-Month Rolling Programme updated to 201* Moise Barrier NB70 - Footing adjacent Actual Work Remaining Work 3-Month Rolling Programme updated to 201* Date Revision Checked Date Date<			y 1 - 3, 63m)	er NB68 - Footing at central median (Bay	Noise Ba				-			
FHW-1310 Temporary Road Pavement (FLH NB 1 st lane) 12 <th12< th=""> 12 12<td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></th12<>							-					
後 和 建	to SB lane (30m)	ier NB70 - Footing adjacent to SF	Noise Barri					-				
後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO. LTD.			(FLH NB 1 st lane)	Temporary Road Pavement		0	02-Sep-17	21-Aug-17	12	12	V-1310 Temporary Road Pavement (FLH NB 1 st lane)	FHW-1310
後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD 後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD	17-08-20	gramme updated to 2017-0	3-Month Rolling Prog	12/00	D Contract No. CV/	CEL				al Work	Actua	
後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD. ◆ Milestone Critical Remaining Work ◆ Miles	Approved	n Checked	Date Revisior						/ork			
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CHUN WO CONSTRUCTION & ENGINEERING CO., LTD. Milestone				ŀ			I	rk			俊和建築工程有限公司 Critics	
3MPR049 Page 2 of 12 30-Aug-17				nme	onth Rolling Progra	3-N		in a state of the			CHUN WO CONSTRUCTION & ENGINEERING CO. LTD.	CHUN V
Project Baseline Bar	_			30-Aug-17	Page 2 of 12		R049	3MP				
	<u> </u>			-					ine Bar	ct Baseli	Project	

Activity ID	Activity Name	OD	RD	Start	Finish	TF			201	7			
							Aug		Sep	Oct		Nov	Dec
FHW-1320	Road Formation & Pavement, Central Barrier (FLH NB 4th lane)	29	29	04-Sep-17	09-Oct-17	0		_		Road Fo	rmation & Pavement, Ce	ntral Barrier (FLH I	IB 4th lane)
FHW-1170	Road Pavement (FLH SB 3rd lane) by re-surfacing	30	30	23-Sep-17	31-Oct-17	17					Road Pav	vement (FLH SB 3	
FHW-1330	Road Pavement (FLH NB 3rd lane) by re-surfacing	25	25	11-Oct-17	09-Nov-17	0						Road Pavement (
FHW-1110B	Noise Barrier NB6 and NB7 - Remaining Stem Wal adjacent to SB lane (28m)	28	28	20-Oct-17	22-Nov-17	0						Noi	e Barrier NB6 a
FHW-1140a	Watermain diversion for construction of NB70	25	25	20-Oct-17	18-Nov-17	17						Waterm	ain dive rsion for
FHW-1180	Road Pavement (FLH SB 2nd lane) by re-surfacing	30	30	02-Nov-17	06-Dec-17	17							Roa
FHW-1340	Road Pavement (FLH NB 2nd lane) by re-surfacing	25	25	11-Nov-17	09-Dec-17	0							F
Fanling Highw	ay Zone 2 between CH7130 and CH7290												
At-Grade Roa	dworks (160m)												
FHW-2330B	Noise Barrier NB67 - Mini-Piling adjacent to NB lane (Cap 33, 34 & L: 32 nos)	63	36	29-Jul-17 A	30-Sep-17	0					Noise	e Barrier NB67 - M	ni-Piling adjacen
FHW-2330A	Noise Barrier NB67 - Mini-Piling adjacent to NB lane within WSD Restriction Zone	63	36	09-Aug-17 A	30-Sep-17	0				1	Noise	e Barrier NB67 - M	ni-Piling adjacen
FHW-2340	(Type ID4-1A: 36 nos) Noise Barrier NB67 - Footing adjacent to NB lane (84m)	85	85	11-Sep-17	21-Dec-17	0							
FHW-2240	Road Pavement (Middle Part: FLH SB 4th lanes)	30	30	25-Sep-17	01-Nov-17	24					Road D	avement (Middle Pa	rt: El LI CD 4th I
FHW-2350	Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder)	65	65	17-Nov-17	03-Feb-18						KOAU Pa		
	-	05	00	17-100-17	03-1 65-10	0							
	ay Zone 3 between CH7290 and CH7380												
At-Grade Roa	dworks (130m)												
FHW-3330b	Noise Barrier NB69 - Mini-Piling adjacent to NB lane (32nos)	69	37	12-Jun-17 A	03-Oct-17	10	1			Noise B	arrier NB69 - Mini-Piling a	adjacent to NB lane	(32nos), Noise
FHW-3340	Noise Barrier NB69 - Footing adjacent to NB lane (108m)	77	77	08-Sep-17	09-Dec-17	10							N
FHW-3240	Road Pavement (Middle Part: FLH SB 4th lanes)	30	30	25-Sep-17	01-Nov-17	24					Road Pa	avement (Middle Pa	rt: FLH SB 4th I
FHW-3350	Road Drainage, Road Formation & Pavement (FLH NB 1st lane & hard shoulder)	65	65	17-Nov-17	03-Feb-18	0							
Fanling Highwa	y North Portion between CH7470 and CH7925												
Fanling Highwa	ay Zone 4 between CH7380 and CH7470												
At-Grade Road	dworks (90m)												
FHW-4210a	Noise Barrier NB68A - Footing at central median (Bay 19 - 21)	50	0	02-Jun-17 A	15-Aug-17 A				Noise Barrier	NB68A - Footing at ce	entral median (Bay 19 - 2	1)	
FHW-4210b	Road Pavement, and Central Barrier (Middle Part: FLH NB 4th lane)	29	16	18-Jul-17 A	07-Sep-17	8	-		Road Pavement, and C	entral Barrier (Middle	Part: FLH NB 4th lane),	Road Pavement, a	nd Central Barri
FHW-4220a	Noise Barrier NB68A - Footing at central median (Bay 22 - 23)	50	30	24-Jul-17 A	23-Sep-17	24					Noise Barrier NB68A -	Footing at central r	nedian (Bay 22
FHW-4100A	Noise Barrier NB72 - Footing adjacent to SB lane (90m)	60	60	12-Sep-17	23-Nov-17	5						No	ise Barrier NB72
FHW-4240	Demolition of existing central divider	7	7	21-Sep-17	28-Sep-17	0				Demolition of existing			
FHW-4220b	Road Pavement, and Central Barrier (Middle Part: FLH SB 4th lanes)	30	30	25-Sep-17	01-Nov-17	24					Road Pa	avement, and Cent	al Barrier (Midd
										2 Month B		dated to 2017	19.20
	P 建	one	ning Wc	ork	Liantang / H	leu nfra	DD Contract No. CV Ing Yuen Wai BCP - astructure Works, C Month Rolling Prog Page 3 of 12	Site Form ontract 3	nation &	Date	kolling Programme up	Checked	Approved
	Projec	ct Baseli	ne Bar										

Activity ID	Activity Name	OD	RD	Start	Finish	TF				20	017			
								Aug		Sep	(Oct	Nov	Dec
FHW-4250	Road Pavement (FLH NB 4th lane) by re-surfacing	18	18	29-Sep-17	21-Oct-17	0				ł		Road Paveme	nt (FLH NB 4th lane) by	re-surfacing
FHW-4310	Road Pavement (FLH NB 3rd lane) by re-surfacing	18	18	23-Oct-17	13-Nov-17	0							Road Paven	nent (FLH NB 3rd
FHW-4120A	Road Drainage, Road Formation & Pavement (FLH SB Merging lane)	65	65	11-Nov-17	29-Jan-18	5								
FHW-4320	Road Pavement (FLH NB 2nd lane) by re-surfacing	18	18	15-Nov-17	05-Dec-17	0								Road
Fanling Highw	ay Zone 5 between CH7470 and CH7600 (Provision of Kiu Tau Footbridge)													
Kiu Tau Footl	bridge Reprovision (East)													
FHW-5070b	Installation of Drainage Pipe	30	30	21-Aug-17*	* 23-Sep-17	-4				Insta	allation of Drainage	e Pipe		
FHW-5070a	Installation of Lighting Facilities	45	45	25-Sep-17	18-Nov-17	-4							Installa	tion of Lighting Fa
FHW-5070d	Installation of Suspended Ceiling	45	45	25-Sep-17	18-Nov-17	-4							Installa	tion of Suspended
Provision of	BFA Facilities (Lift)													
FHW-L-1000	RC Works for Lift Shaft	38	21	15-Jun-17 A	A 13-Sep-17	-13				RC Works for L	.ift Shaft, RC Work	ks for Lift Shaft		
FHW-L-1010	0 Glazing & Louvre Installation	38	38	14-Sep-17	31-Oct-17	-13						Gla	zing & Louvre Installatio	n
FHW-L-1050	0 E&M Works including T&C	60	60	14-Sep-17	25-Nov-17	35								E&M Works inclu
FHW-L-1020	0 Metal Roof	20	20	01-Nov-17	23-Nov-17	-13							M	letal Roof
Works at exis	ting TWSRE													
FHW-5480	Noise Barrier NB72 & NB73 (Stage 1) - Footing adjacent to SB lane (97m)	85	83	18-Aug-17 A	A 28-Nov-17	1								Noise Barri
FHW-5480B	Noise Barrier NB73 - Mini-Piling adjacent to SB lane (CSD: 12 nos)	44	44	03-Oct-17*	24-Nov-17	35								Noise Barrier NB7
FHW-5490	Road Drainage, Road Formation & Pavement (FLH SB Merging lane)	75	75	04-Nov-17	02-Feb-18	1								
FHW-5480C	Noise Barrier NB72 & NB73 (Stage 2)- Footing adjacent to SB lane (13m)	35	35	11-Nov-17	21-Dec-17	35								
At-Grade Roa	nd Works (130m)													
FHW-5230	Demolition of existing central divider	7	7	21-Sep-17	28-Sep-17	0					Demolition of exi	sting central divider		
FHW-5240	Road Pavement (FLH NB 4th lane) by re-surfacing	18	18	29-Sep-17	21-Oct-17	0				I		Road Paveme	nt (FLH NB 4th lane) by	re-surfacing
FHW-5100	Road Pavement (FLH SB 1st lane) by re-surfacing	14	14	17-Oct-17	02-Nov-17	0						R	toad Pavement (FLH SI	B 1st lane) by re-s
FHW-5310	Road Pavement (FLH NB 3rd lane) by re-surfacing	18	18	23-Oct-17	13-Nov-17	0							Road Paven	nent (FLH NB 3rd
FHW-5210	Road Formation & Pavement, Central Barrier (South Side) (FLH SB 4th lane)	22	22	04-Nov-17	29-Nov-17	0								Road Forma
FHW-5320	Road Pavement (FLH NB 2nd lane) by re-surfacing	18	18	15-Nov-17	05-Dec-17	0								Road
Fanling Highw	ay Zone 6 between CH7600 and CH7660 (Existing Vehicular Bridge)													
At-Grade Roa	dworks (60m)													
FHW-6210	Road Drainage, Road Formation & Pavement and Central Barrier (South Side) (FLH SB 4th Iane)	99	27	24-Apr-17 A	A 20-Sep-17	0							Road I	Drainage, Road F
	Actual	Work				~~			1/204.2/04	D	3-Mon	th Rolling Program	ne updated to 2017	-08-20
	P 建築工程有限公司 Wo Construction & Engineering Co., Ltd. ◆ ◆ Milesto	ining W hary Bai I Rema	r ining W	′ork 3N	Liantang /	Heu nfra	ing Yu Istruct Month	ntract No. C\ en Wai BCP ure Works, C Rolling Prog Page 4 of 12	- Site Fo Contract ramme	rmation &		Revision	Checked	Approved

	Activity Name	OD	RD	Start	Finish	TF			2	017		1	
EUW/ 64.40	Noise Partier NP72 Easting adjacent to SP Ises (05m)	75	50	02 1 47 4	21 Oct 17		Aug		Sep		Oct	Nov	Dec
FHW-6140	Noise Barrier NB73 - Footing adjacent to SB lane (95m)	75	59	03-Jun-17 A	31-Oct-17	4						Noise Barrier NB73	Footing adjacent to
FHW-6120	Road Formation & Pavement (FLH SB 1st lanes)	35	35	04-Sep-17	16-Oct-17	0					Road Formatio	h & Pavement (FLH S	B 1st lanes)
FHW-6230a	Demolition of existing central divider	7	7	21-Sep-17	28-Sep-17	0				Demolition of	existing central divide	L L	
FHW-6240	Road Pavement (FLH NB 4th lane) by re-surfacing	18	18	29-Sep-17	21-Oct-17	0					Road Pav	vement (FLH NB 4th la	ne) by re-surfacing
FHW-6310	Road Pavement (FLH NB 3rd lane) by re-surfacing	18	18	23-Oct-17	13-Nov-17	0						Road	Pavement (FLH NB
FHW-6150	Road Formation & Pavement (FLH SB Merging lane)	75	75	04-Nov-17	02-Feb-18	1							
FHW-6320	Road Pavement (FLH NB 2nd lane) by re-surfacing	18	18	15-Nov-17	05-Dec-17	0						_	R
Fanling Highwa	y Zone 7 between CH7660 and CH7925												
At-Grade Road	lworks (265m)												
FHW-7130	Road Pavement (FLH SB 3rd lane) by re-surfacing	40	40	03-Oct-17	20-Nov-17	29							Road Pavement (F
Remaining Work	s for Noise Barrier along widened Fanling Highway												
											_		
FHW-NB-230	Noise Barrier Steelworks & Panel for NB68A (225m), Fanling Highway central median at Zones 2 & 3	12	46	02-Mar-17 A	14-Oct-17	92					Noise Barrier Ste	elworks & Panel for NE	868A (225m), Fanling
FHW-NB-240	Noise Barrier Steelworks & Panel for NB68A (50m), Fanling Highway central median at Zones 4	6	6	21-Aug-17	26-Aug-17	47		Noise Bar	rrier Steelworks & Panel fe	or NB68A (50m)	n), Fanling Highway ce	htral median at Zones	4
FHW-NB-220	Noise Barrier Steelworks & Panel for NB68 (63m), Fanling Highway central median at Zones 1	13	13	21-Aug-17	04-Sep-17	33			Noise Barrier Steelworks	& Panel for NB	68 (63m), Fanling Hig	hway central median a	t Zones 1
Erection of Sign	Gantry											i	
			-	12 Cap 17	19-Sep-17	112		1	Exaction 1	of Sign Gantry	G53 (i.e. Steel Portal	Frame)	
FHW-SG-1020	Erection of Sign Gantry G53 (i.e. Steel Portal Frame)	7	7	12-Sep-17					Erection		000 (1.0. 010011 01101	(lano)	
	Erection of Sign Gantry G53 (i.e. Steel Portal Frame) Erection of Sign Gantry DS1 (i.e. Steel Portal Frame)	7	7	27-Oct-17	04-Nov-17	75			Erection				Gantry DS1 (i.e. Ste
FHW-SG-1000		7	7			75			Erection				Gantry DS1 (i.e. Ste
FHW-SG-1000 Section II - Rema	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame)	7	7			75			Erection				Gantry DS1 (i.e. Ste
FHW-SG-1000 Section II - Rema At Grade Link Ro	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) oad at Fanling Highway Interchange	7	7			75			Erection				Gantry DS1 (i.e. Ste
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) Dad at Fanling Highway Interchange par Abut ment AB1)			27-Oct-17	04-Nov-17	75			Erection				Gantry DS1 (i.e. Ste
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) oad at Fanling Highway Interchange	7 7 90	7 7 0			75		66 - Foộting a	Erection		·		Gantry DS1 (i.e. Ste
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1030	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) Dad at Fanling Highway Interchange par Abut ment AB1)			27-Oct-17	04-Nov-17	75		66 - Fo¢ting a			·	Erection of Sign	Gantry DS1 (i.e. Ster
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1030 FHI-LR1-1040a	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) oad at Fanling Highway Interchange ear Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4)	90	0	27-Oct-17	04-Nov-17			56 - Footing a			4)	Erection of Sign	rrier NB66 - Pre-dril
FHW-SG-1000 Section II - Rema At Grade Link Rod Link Road 1 (ne FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange ar Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles)	90 54	0	27-Oct-17 02-Mar-17 A 07-Apr-17 A	04-Nov-17 05-Aug-17 A 05-Sep-17		Noise Barrier NB			ig, Bay 1 - Bay 4	4)	Erection of Sign	rrier NB66 - Pre-dril
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1210	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) oad at Fanling Highway Interchange ear Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9)	90 54 80	0 14 30	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17		Noise Barrier NB		adjacent NB lane (38m lon	ig, Bay 1 - Bay 4	4)	Erection of Sign	rrier NB66 - Pre-dril
FHW-SG-1000 Section II - Rema At Grade Link Roa FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1210 FHI-LR1-1220	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange bar Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB lane (38m long, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining TWSR West and divert traffic onto the new carriageway	90 54 80 14	0 14 30 0	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A	16	Noise Barrier NB	avement Wor	adjacent NB lane (38m lon	g, Bay 1 - Bay 4	4) Noise E	Erection of Sign Noise Ba	rrier NB66 - Pre-dril
FHW-SG-1000 Section II - Rema At Grade Link Ro FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1210 FHI-LR1-1020 FHI-LR1-1000	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) pad at Fanling Highway Interchange par Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB lane (38m long, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work	90 54 80 14 115	0 14 30 0 115	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18	16 0 -71	Noise Barrier NB	avement Wor	adjacent NB lane (38m lor	g, Bay 1 - Bay 4	4) Noise E	Erection of Sign Noise Ba	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1040a FHI-LR1-1040a FHI-LR1-1040a FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange bar Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB lane (38m long, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retailigned TWSR West and divert traffic onto the new carriageway (Stage S13)	90 54 80 14 115 0	0 14 30 0 115 0	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17	-71 22	Noise Barrier NB	avement Wor	adjacent NB lane (38m lor	g, Bay 1 - Bay 4 RW d divert traffic or	4) Onto the new carriagev	Erection of Sign Noise Barrier NB67 - Footing way (Stage S13)	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1
FHW-SG-1000 Section II - Rema At Grade Link Ro FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1000 FHI-LR1-1320 FHI-LR1-1040b	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange Par Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB lane (38m long, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining TWSR West and divert traffic onto the new carriageway (Stage S13) Construction of Footing of sign gantry DS1	90 54 80 14 115 0 56	0 14 30 0 115 0 56	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17	04-Nov-17 04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17 26-Oct-17	-71 22 75	Road F	avement Wor	adjacent NB lane (38m lor	g, Bay 1 - Bay 4	4) Onto the new carriagew Conto the new carriagew Conto the new carriagew	Erection of Sign Noise Barrier NB67 - Footing way (Stage S13) tetruction of Footing of	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - B
FHW-SG-1000 Section II - Rema At Grade Link Ro FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1000 FHI-LR1-1320 FHI-LR1-1040b	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange ear Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB66 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Construction of Footing of sign gantry DS1 Noise Barrier NB66 - Footing adjacent NB Iane (24m Iong, Bay 5 - Bay 7)	90 54 80 14 115 0 56 40	0 14 30 0 115 0 56 40	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17	04-Nov-17 04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17 26-Oct-17 07-Oct-17	116 0 -71 22 75 0	Road F	avement Wor	adjacent NB lane (38m lor	d divert traffic or	4) onto the new carriagev corrise Barrier NB66 - Foo loise Barrier NB67 - F	Erection of Sign Noise Ba arrier NB67 - Footing vay (Stage S13) struction of Footing of ting adjacent NB Iane re-drilling & Mini-Piling	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - B (Cap 1-9 for raking j
FHW-SG-1000 Section II - Rema At Grade Link Ro FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1000 FHI-LR1-1320 FHI-LR1-1040b	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange ear Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB66 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Construction of Footing of sign gantry DS1 Noise Barrier NB66 - Footing adjacent NB Iane (24m Iong, Bay 5 - Bay 7)	90 54 80 14 115 0 56 40 28	0 14 30 0 115 56 40 28	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17	04-Nov-17 04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17 26-Oct-17 07-Oct-17 09-Oct-17	16 0 -71 22 75 0 10	Road F	avement Wor	adjacent NB lane (38m lor	d divert traffic or	4) Anto the new carriagev Corr ise Barrier NB66 - Foo Noise Barrier NB67 - F	Erection of Sign Noise Ba arrier NB67 - Footing vay (Stage S13) struction of Footing of ting adjacent NB lane re-drilling & Mini-Piling ramme updated to	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - B (Cap 1-9 for raking) 2017-08-20
FHW-SG-1000 Section II - Rema At Grade Link Ro FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1000 FHI-LR1-1320 FHI-LR1-1040b	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange bar Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Construction of Footing of sign gantry DS1 Noise Barrier NB66 - Footing adjacent NB Iane (24m Iong, Bay 5 - Bay 7) Noise Barrier NB67 - Pre-drilling & Mini-Piling (Cap 1-9 for raking piles, 18no.)	90 54 80 14 115 0 56 40 28	0 14 30 0 115 0 56 40 28	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17 21-Aug-17 05-Sep-17	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17 26-Oct-17 07-Oct-17 09-Oct-17	-71 22 75 0 10	Noise Barrier NB Road F ← C	avement Wor	adjacent NB lane (38m lor rks for Future SB of TWS Realigned TWSR West an	d divert traffic or	4) onto the new carriagev corrise Barrier NB66 - Foo loise Barrier NB67 - F	Erection of Sign Noise Ba arrier NB67 - Footing vay (Stage S13) struction of Footing of ting adjacent NB lane re-drilling & Mini-Piling ramme updated to	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - B (Cap 1-9 for raking) 2017-08-20
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1040b FHI-LR1-1050	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange bar Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Construction of Footing of sign gantry DS1 Noise Barrier NB66 - Footing adjacent NB Iane (24m Iong, Bay 5 - Bay 7) Noise Barrier NB67 - Pre-drilling & Mini-Piling (Cap 1-9 for raking piles, 18no.)	90 54 80 14 115 0 56 40 28 Work	0 14 30 0 115 0 56 40 28 Vork	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17 21-Aug-17 05-Sep-17	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17 26-Oct-17 07-Oct-17 09-Oct-17	16 0 -71 22 75 0 10 CEI Heu	Noise Barrier NE	avement Wor ompletion of R 12/09 te Form	adjacent NB lane (38m lor rks for Future SB of TWS Realigned TWSR West an	d divert traffic or	4) Anto the new carriagev Corr ise Barrier NB66 - Foo Noise Barrier NB67 - F	Erection of Sign Noise Ba arrier NB67 - Footing vay (Stage S13) struction of Footing of ting adjacent NB lane re-drilling & Mini-Piling ramme updated to	rrier NB66 - Pre-dri (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - E (Cap 1-9 for raking 2017-08-20
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1050	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange bar Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB Iane (38m Iong, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Construction of Footing of sign gantry DS1 Noise Barrier NB66 - Footing adjacent NB Iane (24m Iong, Bay 5 - Bay 7) Noise Barrier NB66 - Fore-drilling & Mini-Piling (Cap 1-9 for raking piles, 18no.) 建築二程有限公司	90 54 80 14 115 0 56 40 28 Work ning W	0 14 30 0 115 0 56 40 28 Vork r	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17 05-Sep-17	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17 26-Oct-17 07-Oct-17 09-Oct-17	16 0 -71 22 75 0 10 CEI Heu nfra	DD Contract No. CV/20 ung Yuen Wai BCP - Si astructure Works, Con	avement Wor ompletion of R 12/09 te Form tract 3	adjacent NB lane (38m lor rks for Future SB of TWS Realigned TWSR West an	d divert traffic or	4) Anto the new carriagev Corr ise Barrier NB66 - Foo Noise Barrier NB67 - F	Erection of Sign Noise Ba arrier NB67 - Footing vay (Stage S13) struction of Footing of ting adjacent NB lane re-drilling & Mini-Piling ramme updated to	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - B (Cap 1-9 for raking) 2017-08-20
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1050	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) pad at Fanling Highway Interchange par Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB lane (38m long, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Completion of Retaining Wall beside Abutment AB1 and filling work Construction of Footing of sign gantry DS1 Noise Barrier NB66 - Footing adjacent NB lane (24m long, Bay 5 - Bay 7) Noise Barrier NB67 - Pre-drilling & Mini-Piling (Cap 1-9 for raking piles, 18no.) Actual Remai Summ	90 54 80 14 115 0 56 40 28 Work ning W wary Ba	0 14 30 0 115 0 56 40 28 Vork r	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17 05-Sep-17 05-Sep-17	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 24-Not-17 23-Sep-17 24-Not-17 23-Sep-17 24-Not-17 24-Sep-17	16 0 -71 22 75 0 10 CEI Heu nfra	DD Contract No. CV/20 Jung Yuen Wai BCP - Si astructure Works, Con Month Rolling Program	avement Wor ompletion of R 12/09 te Form tract 3	adjacent NB lane (38m lon rks for Future SB of TWS Realigned TWSR West an	d divert traffic or	4) Anto the new carriagev Corr ise Barrier NB66 - Foo Noise Barrier NB67 - F	Erection of Sign Noise Ba arrier NB67 - Footing vay (Stage S13) struction of Footing of ting adjacent NB lane re-drilling & Mini-Piling ramme updated to	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - B (Cap 1-9 for raking) 2017-08-20
FHW-SG-1000 Section II - Rema At Grade Link Ro Link Road 1 (ne FHI-LR1-1030 FHI-LR1-1040a FHI-LR1-1080 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1020 FHI-LR1-1050	Erection of Sign Gantry DS1 (i.e. Steel Portal Frame) ainder of the Works (KD-3) bad at Fanling Highway Interchange bar Abut ment AB1) Noise Barrier NB66 - Footing adjacent NB lane (38m long, Bay 1 - Bay 4) Noise Barrier NB66 - Pre-drilling & Mini-Piling (Cap 1-9 with 18 piles) Noise Barrier NB67 - Footing (96m) (Bay 6 - Bay 9) Road Pavement Works for Future SB of TWSRW Construction of Retaining Wall beside Abutment AB1 and filling work Completion of Retailigned TWSR West and divert traffic onto the new carriageway (Stage S13) Construction of Footing of sign gantry DS1 Noise Barrier NB66 - Footing adjacent NB lane (24m long, Bay 5 - Bay 7) Noise Barrier NB66 - Fore-drilling & Mini-Piling (Cap 1-9 for raking piles, 18no.) 建築空工程有限公司 Construction & Engineering Co. Ltra	90 54 80 14 115 0 56 40 28 Work Ning W wary Ba I Rema	0 14 30 0 115 0 56 40 28 Vork r r sining V	27-Oct-17 02-Mar-17 A 07-Apr-17 A 30-Jun-17 A 15-Jul-17 A 21-Aug-17 21-Aug-17 05-Sep-17 Vork	04-Nov-17 05-Aug-17 A 05-Sep-17 23-Sep-17 15-Aug-17 A 08-Jan-18 21-Aug-17 26-Oct-17 07-Oct-17 09-Oct-17	16 0 -71 22 75 0 10 CEI Heu nfra	DD Contract No. CV/20 ung Yuen Wai BCP - Si astructure Works, Con	avement Wor ompletion of R 12/09 te Form tract 3	adjacent NB lane (38m lor rks for Future SB of TWS Realigned TWSR West an	d divert traffic or	4) Anto the new carriagev Corr ise Barrier NB66 - Foo Noise Barrier NB67 - F	Erection of Sign Noise Ba arrier NB67 - Footing vay (Stage S13) struction of Footing of ting adjacent NB lane re-drilling & Mini-Piling ramme updated to	rrier NB66 - Pre-dril (96m) (Bay 6 - Bay sign gantry DS1 (24m long, Bay 5 - B (Cap 1-9 for raking) 2017-08-20

Activity ID	Activity Name	OD	RD	Start	Finish	TF	Aug	20 Sep	17 Oct	Nov	Dec
FHI-LR1-1060	Noise Barrier NB67 - Footing (37.6m) (Bay 1 - Bay 3)	44	44	13-Sep-17	06-Nov-17	10	Aug	Sep	- Oc	Noise Barrier NB67 -	
EHI-LR1-1310	Installation of Steelwork & Transparent Panel - Noise Barrier 66 (76m)	20	20	09-Oct-17	01-Nov-17	48				Installation of Steelwork &	
	 Road Formation, Road Drainage, TCSS ducting, Kerb and Pavement (CH 80 - CH 	45	45	09-Oct-17	30-Nov-17	0					_
	240)										Road Forr
FHI-LR1-1300	0 Installation of Steelwork & Transparent Panel - Noise Barrier 67 (132m)	30	30	07-Nov-17	11-Dec-17	44					
Link Road 2 (I	near Abut ment AA1)										
FHI-LR2-2040	Dc Footing of Sign Gantry DS11	12	12	21-Aug-17*	02-Sep-17	0	Footi	ing of Sign Gantry DS11			
FHI-LR2-2040	Db Road Formation, Road Drainage, Kerb (SMH1302 - 1303 & MY2.4 - 2.5)	45	45	04-Sep-17	27-Oct-17	548			F	Road Formation, Road Drainage	e, Kerb (SMH13
FHI-LR2-2030	Construction of Retaining Wall (3SW-D/FR32)	55	55	02-Nov-17*	08-Jan-18	364					
Link Road 4 (I	near Abut ment AC1)					<u> </u>					
FHI-LR4-4020	Construction of Retaining Wall beside Abutment AC1	120	38	15-May-17 A	04-Oct-17	0					
FHI-LR4-4030	Road Formation, Road Drainage, TCSS ducting, Kerb and Pavement	55	55	25-Sep-17	30-Nov-17	0					Road For
		00		20 000 11		Ŭ					- Koau For
WSD Works											
DN450 Fire Ma	ains (CHA)										
WA-2010	Pipe Laying - CHA 460 - 508 (DN450) along Ext. TWSR West NB, 48m	188	13	01-Sep-16 A	04-Sep-17	0	Pip	e Laying - CHA 460 - 5	08 (DN450) along Ext. TWSR We	st NB, 48m, Pipe Laying - CHA	460 - 508 (DN4
WA-3010b	Pipe Laying - CHA 705 - 720 (DN450) (saw-cut) along Ext. TWSR West SB, 15m	60	10	14-Jun-17 A	31-Aug-17	3			Pipe Laying - CHA 705 - 720 (DN4	150) (saw-cut) along Ext. TWSR	West SB, 15m,
WA-1120	Pipe Laying - CHA 270 - 315 (DN450) near Ext. TWSR West, 45m	25	0	24-Jul-17 A	15-Aug-17 A					Pipe Laying - CHA 270 -	315 (DN450) n
WA-1130	Pipe Laying - CHA 315 - 385 (DN450) near Ext. TWSR West, 70m	32	32	24-Jul-17 A	26-Sep-17	58		P	ipe Laying - CHA 315 - 385 (DN45	50) near Ext. TWSR West, 70m	, Pipe Laying - C
WA-1110	Pipe Laying - CHA 155 - 270 (DN450) near Ext. TWSR West, 115m	44	44	24-Aug-17 A	12-Oct-17	30					
WA-1010c	Pipe Laying - CHA 35 - 55 (DN450) near Ext. TWSR West, 20m	28	28	30-Aug-17	30-Sep-17	56			Pipe Laying - CHA 35 - 55 (DN	450) near Ext. TWSR West, 20	m
WA-2020	Pipe Laying - CHA 508 - 540 (DN450) along Ext. TWSR West SB, 32m	65	65	05-Sep-17	22-Nov-17	0				Pin	e Laying - CHA
WA-1010a	Pipe Laying - CHA 0 - 20 (DN450) near Ext. TWSR West, 20m	28	28	03-Oct-17	06-Nov-17	56					
										Pipe Laying - CHA 0	
WA-1020	Pipe Laying - CHA 55 - 155 (DN450) near Ext. TWSR West, 100m	45	45	13-Oct-17	05-Dec-17	30					Pipe
DN600 Water I	Mains (CHB)										
WB-1030B	Pipe Laying - CHB 360 - 410 (DN600), 50m, from TWSRE to Pier AA4	21	0	18-Jul-17 A	08-Aug-17 A			Pipe Laying - Cl	HB 360 - 410 (DN600), 50m, from	TWSRE to Pier AA4	
WB-1060B	Pipe Laying - CHB 577 - 585 (DN600) near J-Bridge, 8m	16	16	21-Aug-17*	07-Sep-17	33		Pipe Laying - CHB 577	585 (DN600) near J-Bridge, 8m	1	
WB-1050	Pipe Laying - CHB 455 - 510 (DN600), 55m, from combined valve chamber to Realigned TWSR East	18	18	08-Sep-17	28-Sep-17	33			Pipe Laying - CHB 455 - 510 (DN	1600), 55m, from combined valv	e chamber to R
WB-1040	Pipe Laying - CHB 430 - 455 (DN600), 25m, from Pier AB7 to combined valve	18	18	29-Sep-17	21-Oct-17	33		Ę	Pipe La	ying - CHB 430 - 455 (DN600),	25m, from Pier
WB-1030C	chamber Pipe Laying - CHB 410 - 430 (DN600), 20m, from Pier AA4 to Pier AB7	18	18	23-Oct-17	13-Nov-17	33				Pipe Laving -	CHB 410 - 430
WB-4000	Pressure Test for CHB (CHB 360 - 570)	14	14	14-Nov-17	29-Nov-17	33					_
		14	17		20110111						Pressure Te
	Actual					CE	DD Contract No. CV/2012/09		3-Month Rolling Pro Date Revisio	gramme updated to 2017- on Checked	08-20 Approved
	Remain	•		1	_iantang /	Неι	ing Yuen Wai BCP - Site Forma	tion &		Checked	Approved
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	Wo Construction & Engineering Co. Ltd.		ining W	ork		3-	Month Rolling Programme				
	◆ Milesto		ine Bar	3MI	PR049		Page 6 of 12	30-Aug-17			
	Project	Dasel	nie Dal								
									I		

	Activity Name			Start	Finish		201 Aug Sep	Oct	Nov	Dec
DN1200 Water	Mains (CHC)				1					
WC-1000B	Pipe Laying - CHC 8 - 70 (DN1200) near Realigned TWSR West (TWSRW:	25	0 1	4-Jun-17 A	02-Aug-17 A		Pipe Laying - CHC 8 - 70 (DN1200) near Reali	gned TWSR West (TWSRW: CH1		
WC-1090B	CH100-155), 70m long & 3m depth Pipe Laying - CHC 615 - 655 (DN1200), 40m, from TWSRE to Pier AA4	21	0	18-Jul-17 A	08-Aug-17 A		Pipe Laying - CHC 615 - 655 (DN1200), 40m, from T	WSRE to Pier AA4		
WC-1090C2	Pipe Laying - CHC 625 - 670 (DN1200), 45m, from Pier AB7 to combined valve	30	30 0	3-Aug-17 A	23-Sep-17	21	Pipe I	aying - CHC 625 - 670 (DN1200)	45m. from Pier AB7 to combine	d valve cha
WC-1120B	chamber Pipe Laying - CHC 835 - 850 (DN1200), underneath J-Bridge, 15m	14		6-Aug-17 A	05-Sep-17	112				
				-					<u> </u>	
WC-1010	Pipe Laying CHC 70 - 100 (DN1200) along existing TWSRW, 20m long & 3m depth	56	56	30-Aug-17	06-Nov-17	12			Pipe Laying CHC 70 - 1	100 (DN120
WC-1030	Construction of IT inspection tee chamber(s) near the Jacking Pits	50	50 0	07-Nov-17	06-Jan-18	12				
Twin DN1400 W	Vater Mains (CHE & CHG)									
WE-1080	Construction of combined valve chamber with MBV installation	109	59 2	5-Jan-17 A	31-Oct-17	0			Construction of combined valv	ve chamber
WE-1060b	Pipe Laying - CHE 280 - 325 (Twin DN1400) from Portal AB7/AD9/AC12 to	38	0 0	6-Apr-17 A	19-Aug-17 A		Pipe Laying CHE 280 - 325 (Twin DN1400) f	rom Portal AB7/AD9/AC12 to com	bined valve chamber	
WE-4010	combined valve chamber Exposure of watermain connection point near NB3	61	0 0	8-May-17 A	28-Jul-17 A			Exposure of watermain connecti	on point near NB3	
WE-1040	Pipe Laying - CHE & CHG 220 - 260 (Twin DN 1400) near Pier AA4	45	36 0	17-Jun-17 A	30-Sep-17	6		Pipe Laving - CHE & CHG 220 -	260 (Twin DN 1400) near Pier A	A4. Pipe La
WE-4020	Exposure of watermain connection point near NB71	14	14	21-Aug-17	05-Sep-17	11	Exposure of watermain co			
				-			- Exposure of watermain of	· · · · · · · · · · · · · · · · · · ·		
WE-3010A	Pipe Cleaning for CHE (Stage 2 Diversion)	17		03-Oct-17	23-Oct-17	6		Pipe C	leaning for CHE (Stage 2 Divers	
WE-3020A	Pressure Test for CHE (Stage 2 Diversion)	6	6 (01-Nov-17	07-Nov-17	0			Pressure Test for CHE	(Stage 21
WE-3010B	Pipe Cleaning for CHG (Stage 2 Diversion)	17	17 (08-Nov-17	27-Nov-17	0				Pipe Clear
WE-3040A	CCTV Inspection and Sterilization for CHE (Stage 2 Diversion)	6	6 (08-Nov-17	14-Nov-17	0			CCTV Inspecti	ion and Ste
WE-3050A	Connection to Existing Mains (CHE) (Stage 2 Diversion)	2	2	15-Nov-17	16-Nov-17	5			Connection	to Existing
WE-3030A	Installation of Connecting Pipe at ID5 (CHG)	4	4	17-Nov-17	21-Nov-17	5			Installa	ation of Cor
DN2200 Water	Mains (CHF)									
WF-1050 B	Construction of Receiving Pit (Pit 4) for DN2200 (CHF), Section 3 (near FLH NB)	30	0 2	5-Mar-17 A	22-Jul-17 A		Construction of Receiving Pit (Pit 4) for DN2200 (CHF), Section 3 (near FLH	NB)		
WF-1000A	Construction of Receiving Pit (Pit 1) for DN2200 (CHF), Section 1 (near Pier AA8)	21	0 2	7-Mar-17 A	22-Jul-17 A		Construction of Receiving Pit (Pit 1) for DN2200 (CHF), Section 1 (near Pier			
WF-1010	Excavation - CHF 9 - 54 (DN2200) across ext. TWSRW by Trenchless Method, 45m			6-May-17 A	20-Jul-17 A			,	aut TMCDW by Transblass Mat	the d 45 m
	long			-				on - CHF 9 - 54 (DN2200) across	ext. TWSRVV by Trenchiess Met	tnoa, 45m i
WF-1060	Excavation - CHF 73 - 91 (DN2200) across Box Culvert BC01 by Trenchless Method, 18m long	42	5 1	15-Jul-17 A	25-Aug-17	36			E>	xcavation -
WF-1070	Pipe Laying - CHF 73 - 91 (DN2200) across Box Culvert BC01 & associated Grouting Works, 18m long	38	38	26-Aug-17	11-Oct-17	36		Pipe Laying - CHF	3 - 91 (DN2200) across Box Cu	Ivert BC01
WF-1020	Pipe Laying - CHF 9 - 54 (DN2200) across ext. TWSRW & associated Grouting Works, 45m long	54	54 (04-Sep-17*	08-Nov-17	4			Pipe Laying - CHF 9	
WF-1100	Expose existing DN2200 bend block	30	30	08-Sep-17	14-Oct-17	8			DN2200 bend block	
WF-1080	Trench Excavation from Pit 4 to Connection Point near FLH NB, Section 4	36	36	25-Sep-17	08-Nov-17	13			Trench Excavation fro	om Pit 4 to
WF-1030	Trench Excavation and Temporary Works to Support 132kV Cables, Section 2	28	28	10-Oct-17	11-Nov-17	4			Trench Excavation	n and Tem
									1	
	Actual				(CE	DD Contract No. CV/2012/09	Date Revision	ramme updated to 2017-08	8-20 Approve
	Remain	ning W	ork	L	Liantang / H	leι	ung Yuen Wai BCP - Site Formation &			Арргочес
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	建築工程有限公司 Wo Construction & Engineering Co., Ltd.	Remai	ning Worl	ĸ			Month Rolling Programme			
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rity ID	Activity Name	OD	RD	Start	Finish	TF			20		· · · ·		
WF-1110	Triaming wisting hard black	25	25	16-Oct-17	14 Nov 17	8	Aug		Sep	Oct		Nov	Dec
VVF-1110	Trimming existing bend block	25	25	16-Oct-17	14-Nov-17	8						Trimming exi	isting bend blo
WF-1090	Pipe Laying - CHF 91 - 105 (DN2200), Section 4	12	12	09-Nov-17	22-Nov-17	13					ſ	Pip	e Laying - CHI
WF-1040	Pipe Laying - CHF 54 - 73 (DN2200), Section 2	18	18	13-Nov-17	02-Dec-17	4							Pipe L
WF-1120	Fabrication of DN2200 fitting for connection	48	48	15-Nov-17	12-Jan-18	8							
Existing Nam Wa	a Po Trunk Sewage Pumping Station (PST3)												
PS-1010	Construction of New Boundary Wall for Pumping Station (PST3)	80	126	25-Nov-16 A	A 20-Jan-18	12							
Stage 1A - Real	ignment of Tai Wo Service Road West (KD-7)												
TWSRW Zone 4	betweeen CH315 and CH376												
Construction o	f Bridge E												
	Construction of Gabion Wall and Remaining Slope Reinstatement Works	68	0	03-Jan-17 A	05-Aug-17 A		Construction	Gabion Wall and	Remaining Slope Reinstate	ment Works			
	betweeen CH376 and CH520						Construction						
	f Retaining Structures												
TWSRW-5150	Slope Works for FL-C2 near Retaining Wall FL/RW4	60	60	21-Aug-17	01-Nov-17	3					Slope \	Vorks for FL-C2 nea	ar Retaining W
At-Grade Road	works												
TWSRW-5120A	Filling Works between Retaining Wall RW7 and RW8	192	37	07-Jun-16 A	03-Oct-17	1				Filling Works bet	ween Retaining Wall R	W7 and RW8, Filling	g Works betw
TWSRW-5160	Construction of Extended Podium near RW7 incl. filling works & slope protection (covered by VO No.100)	85	137	27-Oct-16 A	02-Feb-18	1							
TWSRW-5120E	Permanent Vehicular Access to Lot 81 (incl. filling works behind retaining wall RW8)	50	50	04-Oct-17	02-Dec-17	1							Perma
TWSRW-5170b	Construction of Pavilion (covered by VO No.137)	75	75	02-Nov-17	31-Jan-18	3							·i
Remainder of th	e Works												
TWSRW-9020	Filling Works to the abandoned section of TWSRW and modify existing sewerage manhole	48	48	13-Oct-17	08-Dec-17	46							
Utilities Laying													
UU-1040A	Utilities Duct Laying in Area 4, Phase 2, Towngas - DN600 & DN400, approx. 50m	121	83	15-Sep-16 A	28-Nov-17*	-7							Utilities Du
UU-1030A	(by their own TTA) Utilities Duct Laying in Area 3, Phase 2, CLP - 132kV(150mVA), approx. 30m	27	27	21-Aug-17*	20-Sep-17*	82			Litilities [Juct Laving in Area 3.1	hase 2, CLP- 132kV(1	50mVA) approx 30)m
UU-1010A	Utilities Duct Laving in Area 1, Phase 2, CLP - 132kV(150mVA), approx.30m at	16	16	03-Oct-17	21-Oct-17*	44			Otinitos				
	interface section											in Area 1, Phase 2,	
UU-1010B	Utilities Duct Laying in Area 1, Phase 2, Towngas - DN600, approx.20m at interface section	13	13	23-Oct-17	07-Nov-17*	44						Utilities Duct Laying i	in Area 1, Pha
Switch-Over of	Existing Utilitiess												
UU-SO-1010	Cabling Works for telecom utilities	42	42	20-Aug-17*	30-Sep-17	53				Cabling Works for t	elecom utilities		
UU-SO-2520	Switch-over Works (CLP 11kV)	16	16	20-Aug-17*	04-Sep-17	11			Switch-over Works (CLP	11kV)			
UU-SO-1500	Switch-over Works (Telecom)	0	0		30-Sep-17	42				Switch-over Works	(Telecom)		
										2 Month P	olling Programme u	indated to 2017	09.20
	建築工程有限公司 Wo Construction & Engineering Co., Ltd. ◆ ◆ Milesto	ning W ary Ba I Rema	r	Vork	Liantang /	Heu nfra	DD Contract No. CV Ing Yuen Wai BCP - Instructure Works, C Month Rolling Prog Page 8 of 12	Site Forn ontract 3	nation & 30-Aug-17	Date	Revision	Checked	Approved

Activ	ity ID	Activity Name	OD	RD	Start	Finish	TF		2017		
								Aug Sep	Oct	Nov	Dec
	Stage N4A & N4	B - Realignment of Tai Wo Service Road East (KD-13 & KD-14)									
	TWSPE Zono 1 h	etween CH100 and CH270									
	At-Grade Roadw	vorks									
	TWORE 1190	Road Formation, Kerb and Pavement (Ind. FL/F8A, FL/F9)	44	44	21 Aug 1	7 12-Oct-17	3		De el Ferrer d'an	Khata and David and L	
	1W3RE-1180	Road Formation, Reib and Favement (Ind. FDF6A, FDF9)	44	44	21-Aug-1	12-00-17	3		Road Formation,	Kerb and Pavement (Incl. F	L/F8A, FL/F9)
	TWSRE-1170	Road Drainage	44	44	21-Aug-1	7 12-Oct-17	3		Road Drainage		
	THODE 4400		05	05	40.0 4	7 40.0-1.47	0				
	TWSRE-1160	Remaining Noise Barrier NB3 Stem Wall (a total of 24m long)	25	25	12-Sep-1	7 12-Oct-17	3		Remaining Noise	Barrier NB3 Stem Wall (a to	tal of 24m long)
	TWSRE Zone 2 b	etween CH270 and CH380									
	At-Grade Roadw	vorks									
ПГ	TWSRE-2100	Road Formation, Kerb and Pavement	35	35	31-Aug-1	7 12-Oct-17	3		Road Formation,	Kerb and Pavement	
						_				f Realigned TWSR East	
	IWSRE-2070	Commissioning of Realigned TWSR East	0	0	13-Oct-17	7	3			kealighed TWOK East	
	TWSRE Zone 3 b	etween CH380 and CH456									
	At-Grade Roadw	vorks									
Шг	TWSRE-3040	Road Formation, Kerb and Pavement (Ind. FL/F10)	35	35	31-Aug-1	7 12-Oct-17	3		Boad Formation	Kerb and Pavement (Incl. F	L/F10)
											2,
	Remaining Work	s for Noise Barrier along realigned TWSR East									
	TWSRE-NB-120	Installation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m)	35	35	09-Jun-17	A 29-Sep-17	103		_		Installation of Steel
					00 000 11	20 000 11					Installation of Steel
	Stage 1C - Viadu	ct Structure & TCSS Civil Provisions (KD-9)									
	Pier Table Const	arction									
	Bridge D										
	PD-1110	Pier Table Construction at Portal AD11 (4 nos.)	27	0	14 hup 17	04 101 47 4					
	PD-1110	Pler Table Construction at Portal ADTT (4 hos.)	27	0	14-Jun-17	'A 24-Jul-17 A		Pier Table Construction at Portal AD11 (4	nosi)		
	Viadu ct Bridge S	egement Election									
	Buidero D										
	Bridge D										
ШГ		Bridge Deck Construction at Pier AD 12 by Special Lifting Frame (50 nos in which 21	82	4	09-Mar-17	7A 24-Aug-17	-104	Bridge Deck Construction at Pier A	012 by Special Lifting Frame (50 nosi	n which 21 nos above MTR	Railway), Bridge De
		nos above MTR Railway)	0		00 4 47	04 4	-24				
	ED-1130	Bridge Deck Construction at Pier AD13 by Crane (12 nos)	2	4	03-Aug-17	7 A 24-Aug-17	-24	Bridge Deck Construction at	Pier AD 13 by Crane (12 nos), Bridge	Deck Construction at Pier A	D13 by Crane (12 n
	ED-1140D	Bridge Deck Construction at Abutment AD14E (End span) by Falsework & Crane (6	1	0	14-Aug-17	7 A 14-Aug-17 A		 Bridge Deck C 	onstruction at Abutment AD14E (End :	span) by Falsework & Crane	e (6 nos)
		nos)									
	ED-1140C	Bridge Deck Construction at Abutment AD14W (End span) by Falsework & Crane (7 nos)	1	0	15-Aug-17	7 A 15-Aug-17 A		 Bridge Deck Construction a 	Abutment AD14W (End span) by Fa	sework & Crane (7 nos)	
	ED-1110	Bridge Deck Construction at Portal AD11 by Special Lifting Frame (54 nos in which	65	65	02-Sep-1	7 20-Nov-17	-104			B'	ridge Deck Construct
		12 nos above MTR Railway)									-g
	Key Segment Er	rection and Stitch Casting (Narrow-box Section)									
	KS-B-1110A	Stitching Works between AB11W and AB12W End Span & stressing tendon	14	0	26-Jul-17	A 01-Aug-17 A		Stitching Works between AB11W and AB12W End Span	stressing tendon		
									· · · · · · · · · · · · · · · · · · ·		
	KS-D-1130A	Stitching Works between AD13W and AD14W End Span	14	2	18-Aug-17	7A 22-Aug-17	-13	Stitching	Vorks between AD13W and AD14W	End Span, Stitching Works I	between AD13W and
		Actual	Work				CE	DD Contract No. CV/2012/09		gramme updated to 201	
		Remai	nina W	/ork					Date Revisio	on Checked	Approved
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ivity ID	Activity Name	OD	RD	Start	Finish	TF	2017			-
KD-B-2000	Construction of longitudinal stitch at Bridge B2	49	49	29-Aug-1	7 26-Oct-17	35	Aug Sep	Oct Co	Nov	Dec It Bridge B2
KS-D-1130B	Stitching Works between AD13E and AD14E End Span	14	14	08-Sep-1		-24				
							Stitching Stitching	ng Works between AD13E and AE		
KS-D-1110B	Stitching Works between AD11E and AD12E	24	24	21-Oct-1	7 18-Nov-17	-103			Stitching	Works betwe
Major Works on	Deck Surfaces									
Permanent Exte	ernal Ten don Stressing Works									
PP-A-1010	Permanent Prestressing for Bridge A (AA1-AA5)	7	0	26-Jul-17	A 04-Aug-17 A		Permanent Prestressing for Bridge A (AA1-AA5)			
PP-A-1020	Permanent Prestressing for Bridge A (AA5-AA9)	7	0	10-Aug-17	'A 16-Aug-17 A		Permanent Prestressing for Bridge	A (AA5-AA9)		
PP-A-1060	Permanent Prestressing for Bridge A (AB10E-AB12E)	7	7	21-Aug-1	7 28-Aug-17	2	Permanent Prestressing for Bridge	A (AB10E-AB12E)		
PP-B-1030	Permanent Prestressing for Bridge B (AB10W-AB12W)	7	7	21-Aug-1	7 28-Aug-17	0	Permanent Prestressing for Bridge	B (AB10W-AB12W)		
Parapet Installa	tion									
Bridge A										
PI-A-1040L	Parapet Installation, Profile Barrier & Planter for Bridge A (AA13-AA18), LHS	98	74	21-Jun-17	A 17-Nov-17	2			Baranat	nstallation, Pr
						~				
PI-A-1030L	Parapet Installation, Profile Barrier & Planter for Bridge A (AA9-AA13), LHS	83	42	04-Jul-17		34		Pa	rapet Installation, Profile Barrie	& Planter for
PI-A-1030R	Parapet Installation, Profile Barrier & Planter for Bridge A (AA9-AA13), RHS	87	46	04-Jul-17	A 14-Oct-17	30			Parapet Installation, Profile	Barrier & Plai
PI-A-1010L	Parapet Installation, Profile Barrier for Bridge A (AA1-AA5), LHS	78	78	21-Aug-1	7 22-Nov-17	-2			Par	apet Installati
PI-A-1050L	Parapet Installation, Profile Barrier for Bridge A (AA18-AB10E), LHS	59	59	21-Aug-1	7 31-Oct-17	17			Parapet Installation, Profile I	arrier for Brid
PI-A-1010R	Parapet Installation, Profile Barrier & Planter for Bridge A (AA1-AA5), RHS	68	68	21-Aug-1	7 10-Nov-17	0			Parapet Installati	on, Profile Bar
PI-A-1040R	Parapet Installation, Profile Barrier & Planter for Bridge A (AA13-AA18), RHS	76	76	21-Aug-1	7 20-Nov-17	0			Parap	et Installation
PI-A-1050R	Parapet Installation, Profile Barrier for Bridge A (AA18-AB10E), RHS	16	16	21-Aug-1	7 07-Sep-17	60	Parapet Installation, Prof	ile Barrier for Bridge A (AA18-AB	10E), RHS	
PI-A-1060R	Parapet Installation, Profile Barrier & Planter for Bridge A (AB10E-AB12E), RHS remaining	67	67	29-Aug-1	7 17-Nov-17	2			Parapet	nstallation, Pr
PI-A-1060RM	5	31	31	06-Sep-1	7 13-Oct-17	31		Parapet Installation	nh for Bridge A (AB10E-AB12E)	, RHS above
PI-A-1020L	Parapet Installation, Profile Barrier & Planter for Bridge A (AA5-AA9), LHS	60	60	08-Sep-1	7 20-Nov-17	0			Parap	et Installation,
PI-A-1020R	Parapet Installation, Profile Barrier & Planter for Bridge A (AA5-AA9), RHS	60	60	08-Sep-1	7 20-Nov-17	0			Parap	et Installation,
Bridge B										
PI-B-1010R	Parapet Installation, Profile Barrier & Planter for Bridge B (AB1-AB6), RHS	103	60	01-Aug-17	'A 01-Nov-17	0				
PI-B-1010L	Parapet Installation, Profile Barrier for Bridge B (AB1-AB6), LHS	103	60	04-Aug-17		0				
						0				Pa
PI-B-1020L	Parapet Installation, Profile Barrier for Bridge B (AB6-AB10W), LHS	100	100	21-Aug-1		-40				
PI-B-1020R	Parapet Installation, Profile Barrier for Bridge B (AB6-AB10W), RHS	16	16	21-Aug-1	7 07-Sep-17	44	Parapet Installation, Prof	ile Barrier for Bridge B (AB6-AB1	0W), RHS	
PI-B-1030LM	Parapet Installation for Bridge B (AB10W-AB12W), LHS above MTRC railway	31	31	06-Sep-1	7 13-Oct-17	15		Parapet Installation	n for Bridge B (AB10W-AB12V	/), LHS abov
	Actual	Work					DD Contract No. CV/2012/09	3-Month Rolling Proc	ramme updated to 2017-	08-20
		ining W	ork					Date Revisio		Approved
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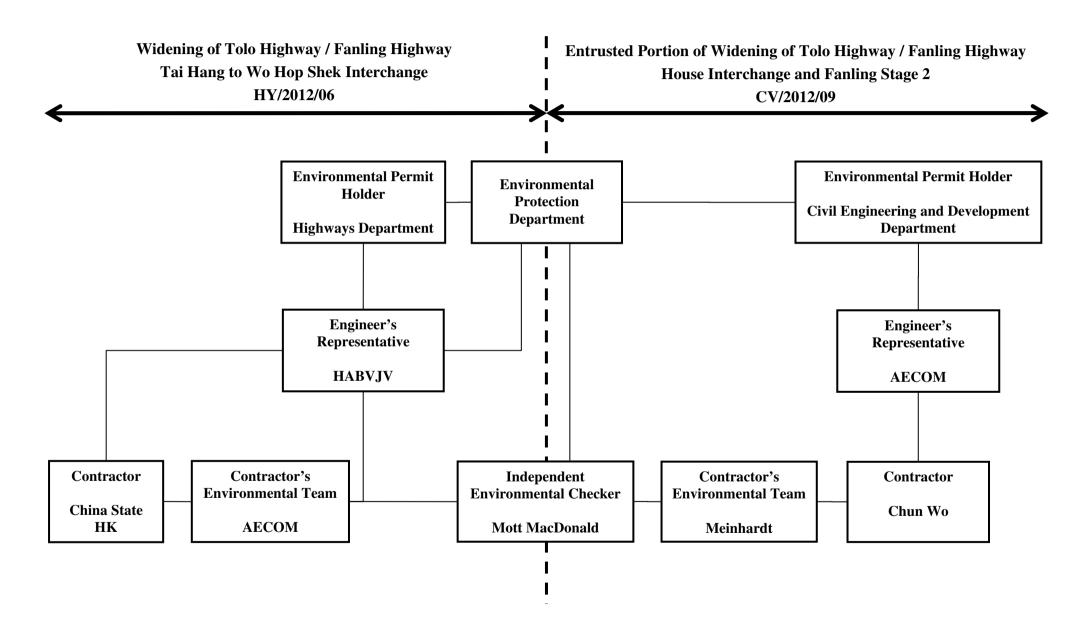
vity ID	Activity Name	OD	RD	Start	Finish	TF	F 2017
PI-B-1030L	Parapet Installation, Profile Barrier & Planter for Bridge B (AB10W-AB12W), LHS	46	46	06-Sep-17	7 01-Nov-17		Aug Sep Oct Nov [
	remaining	40	40	00-3ep-17	01-110-17	0	0 Parapet Installation, Profile Barrier &
Bridge C							
PI-C-1020L	Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), LHS	121	15	15-Feb-17	A 06-Sep-17	-36	Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), LHS, Parapet Installation
PI-C-1030L	Parapet Installation, Profile Barrier & Planter for Bridge C (AC8-AC11), LHS	119	0	20-Feb-17	A 25-Jul-17 A		
PI-C-1030R	Parapet Installation, Profile Barrier & Planter for Bridge C (AC8-AC11), RHS	126	0	07-Mar-17	A 20-Jul-17 A		
PI-C-1020R	Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), RHS	110	14	09-Mar-17	A 05-Sep-17	-35	35 Parapet Installation, Profile Barrier & Planter for Bridge C (AC5-AC8), RHS, Parapet Installation, Pr
PI-C-1010L	Parapet Installation, Profile Barrier for Bridge C (AC1-AC5), LHS	54	27	12-Jul-17 /		-48	
					· · ·		
PI-C-1010R	Parapet Installation, Profile Barrier & Planter for Bridge C (AC1-AC5), RHS	84	27	12-Jul-17 /	A 20-Sep-17	-48	48 Parapet Installation, Profile Barrier & Plan
PI-C-1050RM1	1 Other Civil Works on Bridge Deck for TCSS duct laying - Bridge C	14	14	21-Sep-17	7 09-Oct-17	-48	48 Other Civil Works on Bridge Deck for TCSS duct laying - Bridge
Bridge D					i i i		
PI-D-1020R	Parapet Installation, Profile Barrier & Planter for Bridge D (AD5-AD8W), RHS	78	32	09-May-17	A 26-Sep-17	4	4 Parapet Installation, Profile Barrier & Planter for E
PI-D-1020L	Parapet Installation, Profile Barrier for Bridge D (AD5-AD8W), LHS	90	32	11-May-17	A 26-Sep-17	4	4 Parapet Installation, Profile Barri
PI-D-1010R	Parapet Installation, Profile Barrier & Planter for Bridge D (AD1-AD5), RHS	83	36	16-Jun-177	A 30-Sep-17	0	0 Parapet Installation, Profile Barrier & Plant
PI-D-1010L	Parapet Installation, Profile Barrier & Planter for Bridge D (AD1-AD5), LHS	52	36	03-Jul-17 A	A 30-Sep-17	0	0 Parapet Installation, Profile Barrier & Plante
Roadworks, Ro	ad Facilities and Miscellaneous inside Viaduct Internal Voids						
RS-1030	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge D (AD1 to AD8)	80	80	06-Sep-17	7 11-Dec-17	6	6
RS-1000	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Man for Bridge A (AA1 to AB12)	140	140	06-Sep-17	7 01-Mar-18	-33	33
RS-1020	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge C (AC1 to AD10)	100	100	06-Sep-17	7 06-Jan-18	-14	14
RS-1010	Movement Joints and Road Furniture incl. Deck Drainage, Lightings, Steel Rails,NB, Water Main for Bridge B (AB1 to AB12)	120	120	19-Sep-17	7 12-Feb-18	-24	24
Section VI - Wor	rks in Portion FH9 (KD-6A)						
Major Works							
S6-3000	Removal of Temp Road, Facilities and restatement the Portion FH9 to the condition	18	23	21-Jul-17 /	A 15-Sep-17	-48	Removal of Temp Road, Facilities and restatement the Portion FH9 to the condition bas t
S6-4000	as taking possession Falsework Erection for Installation of Bridge Deck at Abutment AD14W	9	0	25-Jul-17 A	A 14-Aug-17 A		Falsework Erection for Installation of Bridge Deck at Abutment AD14W
S6-4010	Falsework Erection for Installation of Bridge Deck at Abutment AD14E	9	0	25-Jul-17 A			
30-4010	Taisework Erection for Installation of Bridge Deck at Abuttlent AD 14E	3					Falsework Erection for Installation of Bridge Deck at Abutment AD14E
S6-5020	Removal of Falsework near Abutment AB12W	6	0	07-Aug-17	A 14-Aug-17 A		Removal of Falsework near Abutment AB12W
S6-5020 S6-5030	Removal of Falsework near Abutment AB12W Removal of Falsework near Abutment AB12E	6 6	0	07-Aug-17			Removal of Falsework near Abutment AB12W Removal of Falsework near Abutment AB12E
				-	A 14-Aug-17 A	597	Rerhoval of Falsework near Abutment AB12E
S6-5030	Removal of Falsework near Abutment AB12E	6		07-Aug-17	A 14-Aug-17 A 7 29-Aug-17	597	Removal of Falsework near Abutment AB12E
S6-5030 S6-5000 S6-5010	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E	6	0	07-Aug-17	A 14-Aug-17 A 7 29-Aug-17		Removal of Falsework near Abutment AB12E
S6-5030 S6-5000 S6-5010	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W	6	0	07-Aug-17	A 14-Aug-17 A 7 29-Aug-17		A Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E
S6-5030 S6-5000 S6-5010	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Establishment Works (KD-4, 4A, 5, 5A, 6)	6	0	07-Aug-17	A 14-Aug-17A 7 29-Aug-17 7 30-Sep-17	569	A Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Removal of Falsework near Abutment AD14E Section 2.20 Sectio
S6-5030 S6-5000 S6-5010	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Establishment Works (KD-4, 4A, 5, 5A, 6)	6 6	0	07-Aug-17	A 14-Aug-17A 7 29-Aug-17 7 30-Sep-17	569 CEI	AB12E Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E EDD Contract No. CV/2012/09 Automatic Structure St
S6-5030 S6-5000 S6-5010 Landscaping &	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Establishment Works (KD-4, 4A, 5, 5A, 6) Actual Rema	6 6 6 I Work	0 6 6 /ork	07-Aug-17	A 14-Aug-17A 7 29-Aug-17 7 30-Sep-17 Liantang /	569 CEI Heu	37 Image: Constract No. CV/2012/09 Image: Constract No. CV/2012/09 Image: Constract No. CV/2012/09 Being Yuen Wai BCP - Site Formation & Image: Constract No. CV/2012/09 Image: Constract No. CV/2012/09
S6-5030 S6-5000 S6-5010 Landscaping &	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Establishment Works (KD-4, 4A, 5, 5A, 6) 建築工程有限公司	6 6 I Work	0 6 6 /ork	07-Aug-17, 23-Aug-17 25-Sep-17	A 14-Aug-17A 7 29-Aug-17 7 30-Sep-17 Liantang /	569 CEI Heu Infra	Provide of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Section 2. CV/2012/09 Pung Yuen Wai BCP - Site Formation & rastructure Works, Contract 3
S6-5030 S6-5000 S6-5010 Landscaping &	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Establishment Works (KD-4, 4A, 5, 5A, 6) 建築工程有限公司 Vo Construction & Engineering Co. Ltp.	6 6 I Work ining W hary Ba	0 6 6 /ork	07-Aug-17 23-Aug-17 25-Sep-17	A 14-Aug-17A 7 29-Aug-17 7 30-Sep-17 Liantang /	569 CEI Heu Infra	Provide of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Section 2017-08-20 Date Revision Checked Appro- programme Works, Contract 3 -Month Rolling Programme
S6-5030 S6-5000 S6-5010 Landscaping &	Removal of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Establishment Works (KD-4, 4A, 5, 5A, 6) 建築工程有限公司 Vo Construction & Engineering Co., Ltd. ◆ ◆ Milest	6 6 I Work ining W hary Ba	0 6 /ork r ining V	07-Aug-17, 23-Aug-17 25-Sep-17 /ork	A 14-Aug-17A 7 29-Aug-17 7 30-Sep-17 Liantang /	569 CEI Heu Infra	Provide of Falsework near Abutment AB12E Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14W Removal of Falsework near Abutment AD14E Section 2. CV/2012/09 Pung Yuen Wai BCP - Site Formation & rastructure Works, Contract 3

Sector III - Randbarder of Landscaping Schrwerks Nat Included in Sector IIIA EVALUATION Control (Control (C			2017	20				TF	Finish	Start	RD	OD		Activity Name	Activity ID
Secton III - Remainder of Landscaping Softworks Not Included in Secton IIIA 60 60 04-Oct-17 14-Dec-17 6<	Nov De	Oct	(Sep		Aug									
S3-1000 Transplanting along Realigned TWSR West 60 60 04-Oct-17 14-Dec-17 6													ton IIIA	Remainder of Landscaping Softworks Not Included in Sec	Secton III - R
83-1010 Transplanting along Fanting Highway 70 70 70 70 94-Jan-18 21								6	14-Dec-17	04-Oct-17	60	60		Transplanting along Realigned TWSR West	S3-1000
	<u> </u>							21	04-Jan-18	11-Oct-17	70	70		Transplanting along Fanling Highway	S3-1010
														······································	
後 和 建 築 工 程 有 限 公 司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD. ● Milestone Project Baseline Bar	updated to 2017-08-20 Checked Approv				- Site For Contract 3 gramme	n Wai BCP re Works, C colling Prog Page 12 of 12_	ing Yuei Istructui Month R	' Heu Infra	iantang /	rk	ining W	naining W nmary Bar cal Remai stone	Remaining Summar Critical R Milestone	和建築工程有限公司 UN WO CONSTRUCTION & ENGINEERING CO., LTD	後 ジ Chun



Appendix B Project Organization Structure







Appendix C Calibration Certificates of Monitoring Equipment



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 - Fe Operator		Rootsmeter Orifice I.I		438320 1941	Ta (K) - Pa (mm) -	294 - 750.57
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	======================================	METER DIFF Hg (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 1.00	1.4600 1.0410 0.9280 0.8840 0.7290	3.2 6.4 7.9 8.7 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Oa	(y axis)
				va	Qa 	
0.9967	0.6827	1.4149		0.9957	0.6820	0.8851
0.9925	0.9534	2.0010 2.2372	CONCEPTION OF	0.9915	0.9524	1.2517
0.9894	1.1192	2.3464		0.9894	1.0661	1.3995
0.9840	1.3499	2.8299		0.9830	1.3485	1.7702
Qstd slop intercept coefficie	t (b) =	2.11965 -0.02696 0.99991	ner	Qa slope intercept coefficie	z (b) =	1.32729 -0.01686 0.99991
y axis =	SQRT [H2O (I	Pa/760) (298/5	 Ta)]	y axis =	SQRT [H2O (7	Га/Ра)]

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

TSP Sampler Calibration

	SITE		
Location: Lian	Tang 3	Date:	July 6, 2017
Sampler: TE-51	70 MFC (Serial # : 2359)	Tech:	Sam Wong

Barometric Pressure (in Hg)	39.68	Corrected Pressure	(mm Ha):	1008
Temperature (deg F)	80	Temperature	(deg K):	300
Average Press. (in Hg) Average Temp. (deg F)		Corrected Average Average Temp.		1008 300

	CALIBRATION ORIFICE				
Make:	Tisch	Qstd Slope:	2.11965		
Model:	TE-5025A	Qstd Intercept:	-0.02696		
Serial#:	1941	Date Certified:	February 28, 2017		

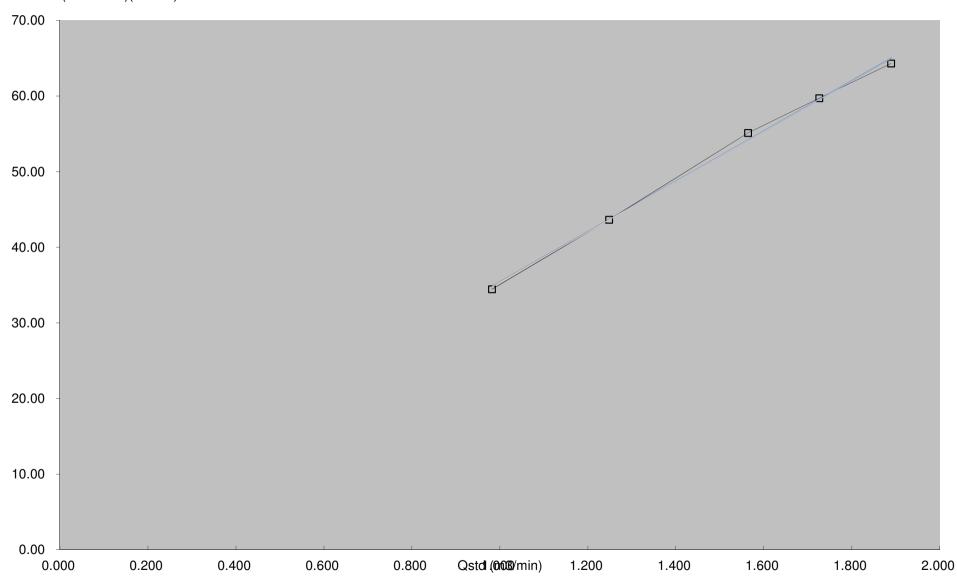
	CALIBRATIONS						
Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION		
1	12.00	1.889	56.0	64.31	Slope =	33.3004	
2	10.00	1.726	52.0	59.72	Intercept =	2.0985	
3	8.20	1.564	48.0	55.12	Corr. coeff.=	0.9987	
4	5.20	1.248	38.0	43.64			
5	3.20	0.982	30.0	34.45	<pre># of Observations:</pre>	5	

Calculations

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]
Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure



IC (Corrected)(ft3/min)



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No.	607984		Page	1 of 2 Pages
Customer :	Enovative Environmental Service	Limited		
Address :	Flat 6, 3/F, Block E, Wah Lok Inc	lustrial Centre, 31-3	35 Shan Mei Stree	et, Shatin, N.T., Hong Kong.
Order No. :	Q63261		Date of receipt	: 6-Sep-16
Item Tested				
Description :	Sound Level Calibrator			
Manufacturer :	Rion		I.D.	: 215901
Model :	NC-74		Serial No.	: 34857296
Test Conditi	ons			
Date of Test :	23-Sep-16		Supply Voltage	:
Ambient Temp			Relative Humid	ity: (50 ± 25) %
Test Specifi	cations			
Calibration chee	ak			
	/Procedure : F21, Z02, IEC 60942			
Her. Boodinent	11000dulo : 1 2 1, 202, 120 000 1			
Test Results	5			
All results were	within the IEC 60942 Class 1 spe	ecification.		
	shown in the attached page(s).			
Main Test equi	pment used:			
Equipment No.	Description	Cert. No.		Traceable to
S014	Spectrum Analyzer	605758		NIM-PRC & SCL-HKSAR
S240	Sound Level Calibrator	601604		NIM-PRC & SCL-HKSAR
S041	Universal Counter	607883		SCL-HKSAR
S206	Sound Level Meter	605757		SCL-HKSAR
will not include allo overloading, mis-h for any loss or dan The test equipmer	n this Calibration Certificate only relate to owance for the equipment long term drift, andling, or the capability of any other labor nage resulting from the use of the equipm at used for calibration are traceable to Inter oply to the above Unit-Under-Test only	variations with environm pratory to repeat the me lent.	iental changes, vibrati asurement. Hong Kor	on and shock during transportation, ng Calibration Ltd. shall not be liable
	(Λο
Calibrated by		Ар	proved by :	Hen
This Certificate is issued Hong Kong Calibration I		Dat	e: 23-Sep-16	

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Calibration Certificate

Certificate No. 607984

Page 2 of 2 Pages

Results :

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94	94.1	± 0.4 dB

Uncertainty : $\pm 0.1 \text{ dB}$

2. Short-term Level Fluctuation : 0.0 dB IEC 60942 Class 1 Spec. : ± 0.1 dB Uncertainty : ± 0.01 dB

3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 60942 Class 1 Spec.
1	1.002 1	± 1 %

Uncertainty : \pm 3.6 x 10 ⁻⁶

4. Total Distortion : < 1.3 % IEC 60942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1018 hPa.

----- END -----



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No.	608737		Page	1 of 3 Pages
Customer :	Enovative Environmental Serv	ice Limited		
Address :	Flat 6, 3/F, Block E, Wah Lok	Industrial Centre, 31-	35 Shan Mei Stre	eet, Shatin, N.T., Hong Kong.
Order No. :	Q63459		Date of receipt	t : 22-Sep-16
Item Tested				
Description :	Sound Level Meter			
Manufacturer :	B&K		I.D.	:
Model :	2238		Serial No.	: 2694908
Test Conditi	ons			
Date of Test :	3-Oct-16		Supply Voltag	e :
Ambient Temp	erature : (23 ± 3)°C			dity: (50 ± 25) %
Test Specifi	cations			
Calibration chec Ref. Document/	ck. /Procedure: Z01, IEC 651 and	IEC 804.		
Test Results	6			
	within the IEC 651 Type1 and I shown in the attached page(s).		ication.	
Main Test equip	oment used:			
Equipment No.	Description	Cert. No.		Traceable to
S017	Multi-Function Generator	C147450		SCL-HKSAR
S240	Sound Level Calibrator	601604		NIM-PRC & SCL-HKSAR
will not include allow	this Calibration Certificate only relate wance for the equipment long term drift andling, or the capability of any other la	t, variations with environme	ental changes, vibrati	on and shock during transportation

for any loss or damage resulting from the use of the equipment. The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant.

The test results apply to the above Unit-Under-Test only				
Calibrated by :	Appro	ved by :	Alan Chu	-
This Certificate is issued by: Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chu Tel: 2425 8801 Fax: 2425 8646	Date:	3-Oct-16		

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Calibration Certificate

Certificate No. 608737

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Results :

1. SPL Accuracy

UUT Setting		UUT Setting Applied Value		Applied Value	UUT
Range	Freq. Wgt.	Bandwith	Center Freq.	(dB)	Reading (dB)
$20 \sim 100$	A	BB/F		94.0	94.0
	A	BB/S			94.0
С	BB/F			94.0	
$40 \sim 120$	A	BB/F		94.0	94.0
	A	BB/F		114.0	114.2

IEC 60651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

Level Stability : 0.0 dB
 IEC 60651 Type 1 Spec. : ± 0.3 dB
 Uncertainty : ± 0.1 dB

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 60651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.0	0.0	± 0.7 dB
130	104.0	104.0	0.0	
120	94.0	94.0 (Ref.)		
110	84.0	84.0	0.0	
100	74.0	74.0	0.0	
90	64.0	64.0	0.0	
80	54.0	54.0	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 60651 Type 1 Spec.
120	84.0	84.1	+0.1	± 0.4 dB
	94.0	93.9 (Ref.)		
	95.0	95.0	0.0	± 0.2 dB

Uncertainty : $\pm 0.1 \text{ dB}$



Calibration Certificate

Certificate No. 608737

Page 3 of 3 Pages

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 60651 Type 1 Spec.
31.5 Hz	-39.3	- 39.4 dB, ± 1.5 dB
63 Hz	-26.2	- 26.2 dB, ± 1.5 dB
125 Hz	-16.2	- 16.1 dB, ± 1 dB
250 Hz	-8.7	- $8.6 dB, \pm 1 dB$
500 Hz	-3.2	$- 3.2 \text{ dB}, \pm 1 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.2	$+ 1.2 \text{ dB}, \pm 1 \text{ dB}$
4 kHz	+1.0	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-6.7	- 6.6 dB, $+3 \text{ dB} \sim -\infty$

Uncertainty : $\pm 0.1 \text{ dB}$

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 60804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	± 0.5 dB
$1/10^{2}$	40.0	39.9	-
$1/10^{3}$	40.0	39.9	± 1.0 dB
$1/10^4$	40.0	39.5	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks: 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1013 hPa
- 4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----

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Appendix D EM&A Monitoring Schedules

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 Impact Monitoring & Site Auditing Schedule for August 2017

			August 2017			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	3 ET Site Walk(09:30am – 11:00am)	4	5
6	7	8 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	9	10 ET Site Walk(09:30am – 11:00am)	11	12
13	14 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	15	16 ET Site Walk(09:30 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC	17	18 24-hour TSP + 3 x 1-hour TSP	19
20	21	22	23	24 ET Site Walk(09:30am – 11:00am) 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	25	26
27	28	29	30 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	31 ET Site Walk(09:30am – 11:00 am) with Fanling Stage 2 IEC & Liantang Project-wide ET and IEC		

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 Impact Monitoring & Site Auditing Schedule for September 2017

	September 2017									
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
					1	2				
3	4	5 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	6	7 ET Site Walk(09:30am – 11:00am)	8	9				
10	11 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	12	13	14 ET Site Walk(09:30am – 11:00am)	15 24-hour TSP + 3 x 1-hour TSP	16				
17	18	19	20 ET Site Walk(09:30 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC (To be confirmed)	21 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	22	23				
24	25	26	27 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	28 ET Site Walk(09:30am – 11:00 am) with Fanling Stage 2 IEC & Liantang Project-wide ET and IEC (To be confirmed)	29	30				



Appendix E Meteorological Data Extracted from Hong Kong Observatory

Daily Extract of Meteorological Observations, August 2017

			Но	ng Kong O	bserva	atory			King's Park	Waglan Is	/aglan Island^	
Day	Mean Pressure (hPa)	Air T Absolute Daily Max (deg. C)	empera Mean (deg. C)	Absolute Daily Min (deg. C)	Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)	Total Bright Sunshine (hours)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)	
01	1001.4	33.2	30.5	28.3	26.7	80	88	5.9	4.6			
02	1002.2	31.0	29.3	27.3	26.0	83	88	14.8	1.9			
03	1001.8	29.8	27.8	25.3	25.6	88	90	66.7	0.9			
04	1003.0	29.3	27.6	25.9	25.5	89	79	19.3	1.4			
05	1005.5	34.0	30.0	27.1	26.1	80	46	0.9	8.9			
06	1006.4	32.9	30.3	28.5	26.0	78	61	0.0	11.0			
07	1006.3	33.0	30.5	27.3	25.9	77	66	6.9	10.3			
08	1006.6	32.8	30.4	28.4	26.1	78	74	1.9	8.3			
09	1006.1	31.0	29.6	26.3	25.9	81	85	14.3	1.6			
10	1006.1	31.4	29.6	27.6	26.0	81	88	11.1	2.5			
11	1007.6	31.6	30.0	28.9	26.1	79	82	3.5	5.0			
12	1008.7	32.5	30.0	29.0	25.4	76	72	0.0	9.9			
13	1009.1	32.4	29.8	28.6	25.1	76	59	0.0	8.6			
14	1008.8	32.5	29.9	28.8	25.0	75	58	Trace	9.4			
15	1008.4	32.9	29.8	28.1	24.6	74	66	0.2	9.6			
16	1008.3	31.2	29.3	28.2	24.4	75	81	Trace	7.3			
17	1009.1	33.0	29.9	27.9	24.5	73	71	0.0	10.3			
18	1010.3	34.3	30.4	28.1	25.5	76	60	0.0	7.9			
19	1009.8	34.0	30.6	28.4	24.5	71	61	0.0	10.2			
20	1007.1	33.4	30.5	28.5	25.3	75	29	0.0	10.2			
21	1003.2	34.5	31.3	28.6	25.5	72	42	0.0	10.1			
22	999.7	36.6	30.9	28.0	26.1	76	74	2.0	7.3			
23	996.9	29.5	26.9	25.4	24.8	89	93	67.1	0.1			
24	1007.8	31.5	29.1	27.3	26.4	86	85	Trace	7.0			
25	1008.3	32.7	29.2	27.8	25.6	81	81	0.1	5.9			
26	1006.4	34.3	29.8	26.2	24.3	73	65	6.3	9.9			
27	1004.3	26.9	25.6	24.0	24.6	95	89	165.3	0.0			
28	1010.2	26.3	25.2	24.5	24.6	96	90	98.3	0.0			
29	1010.1	31.4	28.2	24.6	24.0	79	34	0.0	11.1			
30	1008.3	31.6	28.9	27.0	24.8	79	49	0.4	7.3			
31	1007.3	32.8	28.9	26.2	24.3	77	80	4.1	6.9			
Mean/Total	1006.3	32.1	29.3	27.3	25.3	80	70	489.1	205.4			
Normal§	1005.2	31.1	28.6	26.6	25.0	81	69	432.2	188.9	230	19.4	

*** unavailable

^ Information of wind direction and wind speed for Waglan Island are based on automatic weather station data since January 1989

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal, unless otherwise specified



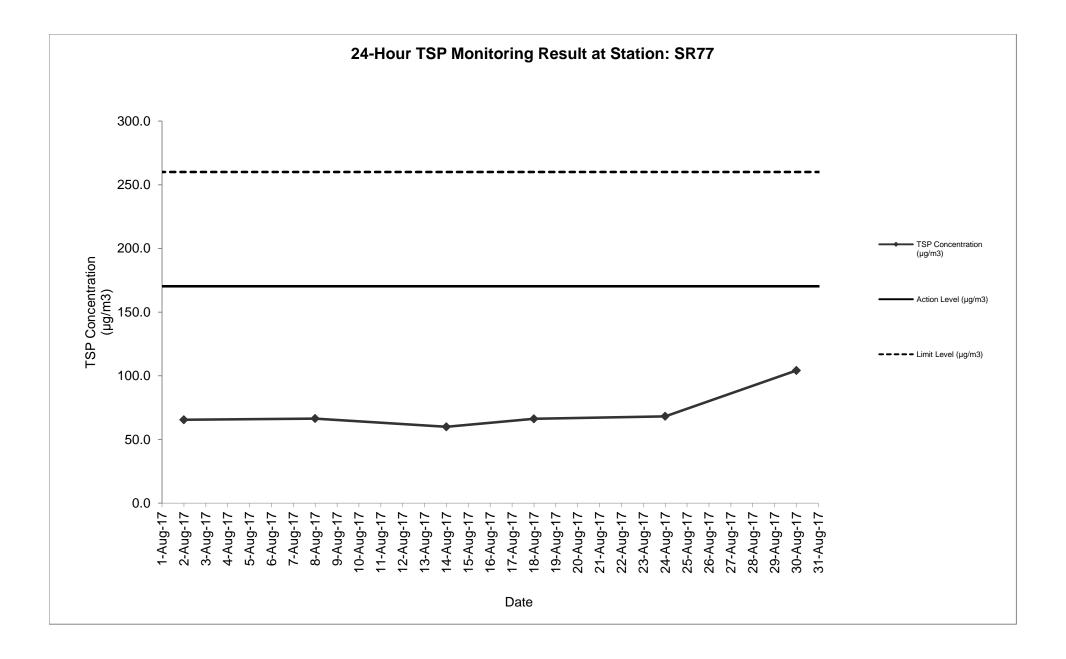
Appendix F Air Quality Monitoring Results and their Graphical Presentation

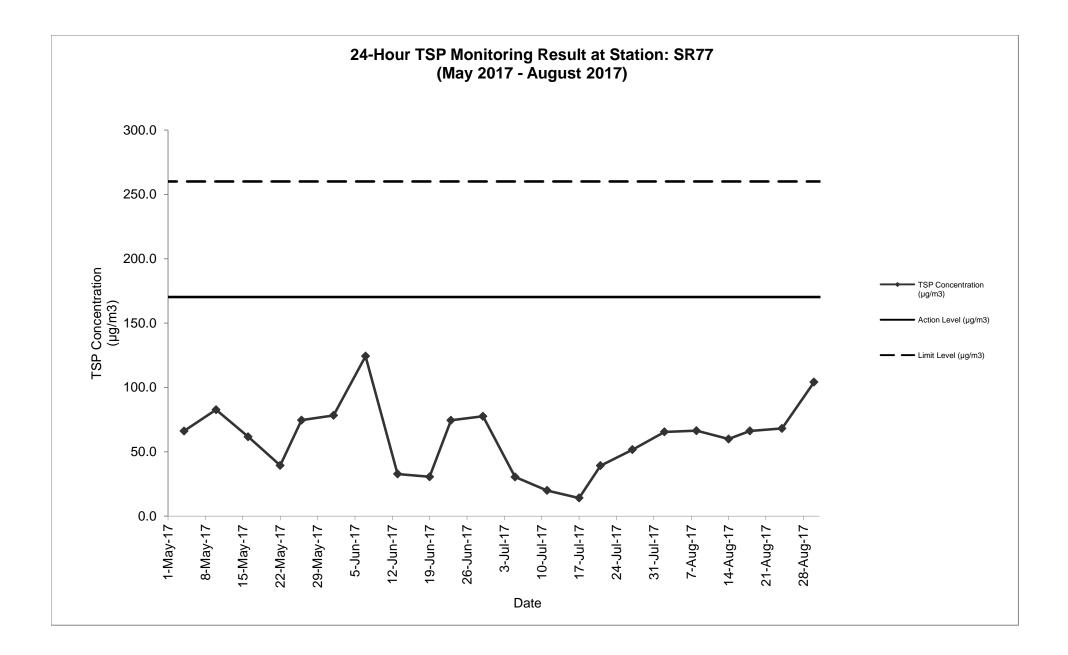
Sampling Date			Paper No.	w	/t. of paper	(g)	E	Elapse Tim	ne	Flo	w Rate (C	FM)	Flow	v Rate (m ³	/min)	Total Volume	TSP Concentration	Action Level	Limit Level	Wind speed	Wind direction	NOE	IR
Date	Condition	Time		Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(µg/m³)	(µg/m3)	(µg/m3)	m/s	unection		
2-Aug-17	Fine	12:11	CC72	2.8640	3.0001	0.1361	6871.67	6895.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	65.4	170.3	260.0	<5	N		
8-Aug-17	Sunny	12:10	CC74	2.8523	2.9904	0.1381	6898.67	6922.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	66.4	170.3	260.0	<5	N		
14-Aug-17	Sunny	12:10	CC76	2.8575	2.9821	0.1246	6925.67	6949.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	59.9	170.3	260.0	<5	N		
18-Aug-17	Sunny	12:09	CC78	2.8599	2.9976	0.1377	6952.67	6976.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	66.2	170.3	260.0	<5	N		
24-Aug-17	Sunny	12:09	CC80	2.8262	2.9679	0.1417	6979.67	7003.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.1	170.3	260.0	<5	N		
30-Aug-17	Fine	12:10	CC82	2.8299	3.0465	0.2166	7006.67	7030.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	104.2	170.3	260.0	<5	N		
																Average	71.7						
																Min	59.9						
																Max	104.2						

24-Hour TSP Monitoring Result at Station: SR77

Note:

No major dust source observed during the monitoring period Data in **Bold** denotes exceedanece of respective Action Level Data in **Bold Underline** denotes exceedance of respective Limit Level

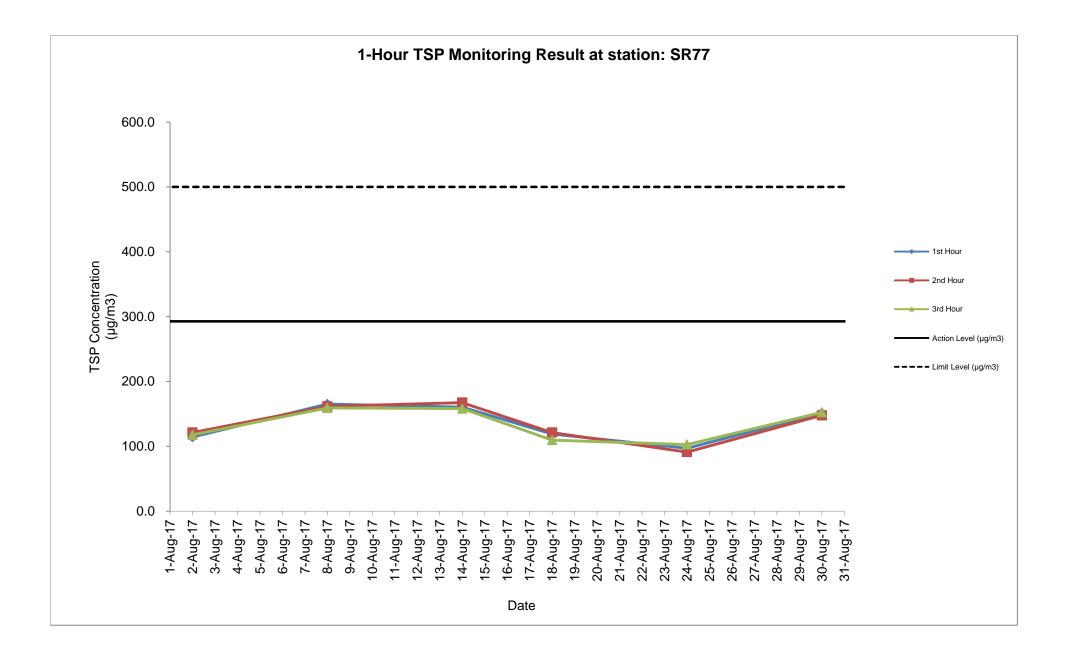


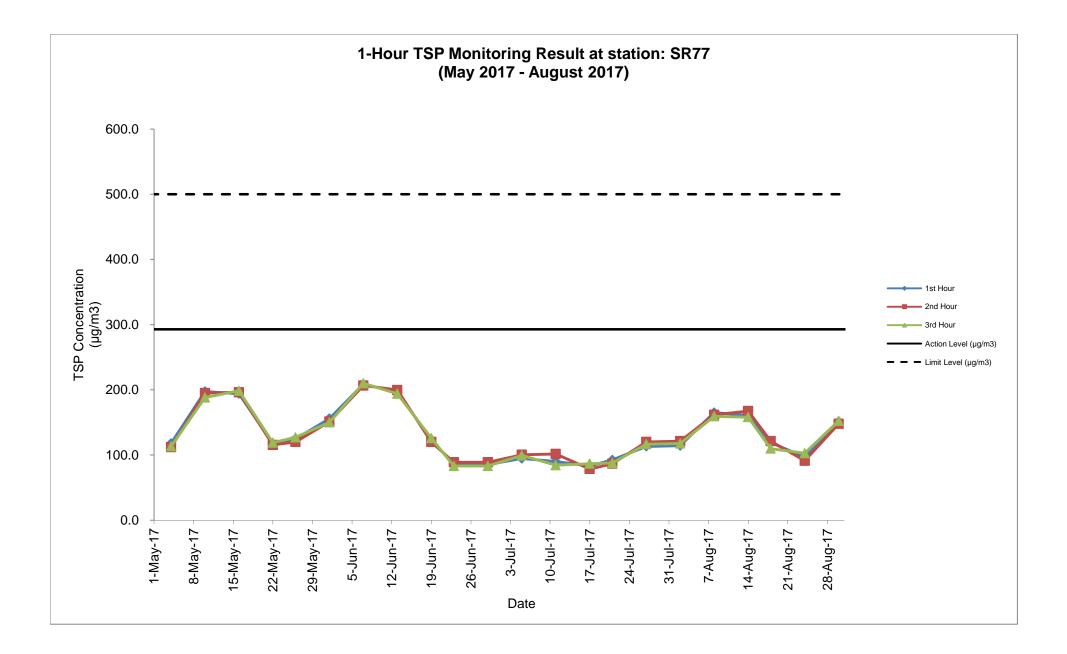


Sampling Date			Paper No.	Wt. of paper (g)		Elapse Time			Flow Rate (CFM)		Flow Rate (m ³ /min)		Total Volume	TSP Concentratio n	Action Level	Limit Level	Wind speed	Wind direction			
Date	Condition	Time		Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	 (μg/m³)	(µg/m3)	(µg/m3)	m/s	
2-Aug-17	Fine	09:00	CC73A	2.8606	2.8705	0.0099	6868.67	6869.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	114.3	292.7	500.0	<5	N
	Fine	10:03	CC73B	2.8549	2.8654	0.0105	6869.67	6870.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	121.2	292.7	500.0	<5	N
	Fine	11:07	CC73C	2.8287	2.8389	0.0102	6870.67	6871.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	117.7	292.7	500.0	<5	N
8-Aug-17	Sunny	09:00	CC75A	2.8546	2.8689	0.0143	6895.67	6896.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	165.0	292.7	500.0	<5	N
	Sunny	10:04	CC75B	2.8461	2.8601	0.0140	6896.67	6897.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	161.6	292.7	500.0	<5	N
	Sunny	11:07	CC75C	2.8601	2.8739	0.0138	6897.67	6898.67		51	51	51.0	1.44	1.44	1.44	86.65	159.3	292.7	500.0	<5	N
14-Aug-17	Sunny	09:00	CC77A	2.8505	2.8644	0.0139	6922.67	6923.67		51	51	51.0	1.44	1.44	1.44	86.65	160.4	292.7	500.0	<5	N
	Sunny	10:04	CC77B	2.8371	2.8516	0.0145	6923.67	6924.67		51	51	51.0	1.44	1.44	1.44	86.65	167.3	292.7	500.0	<5	N
	Sunny	11:08	CC77C	2.8394	2.8531	0.0137	6924.67	6925.67		51	51	51.0	1.44	1.44	1.44	86.65	158.1	292.7	500.0	<5	N
18-Aug-17	Sunny	09:00	CC79A	2.8566	2.8669	0.0103	6949.67	6950.67		51	51	51.0	1.44	1.44	1.44	86.65	118.9	292.7	500.0	<5	N
	Sunny	10:03	CC79B	2.8446	2.8551	0.0105	6950.67	6951.67		51	51	51.0	1.44	1.44	1.44	86.65	121.2	292.7	500.0	<5	N
	Sunny	11:07	CC79C	2.8471	2.8566	0.0095	6951.67	6952.67		51	51	51.0	1.44	1.44	1.44	86.65	109.6	292.7	500.0	<5	N
24-Aug-17	Sunny	09:00	CC81A	2.8522	2.8606	0.0084	6976.67	6977.67		51	51	51.0	1.44	1.44	1.44	86.65	96.9	292.7	500.0	<5	N
	Sunny	10:02	CC81B	2.8392	2.8471	0.0079	6977.67	6978.67		51	51	51.0	1.44	1.44	1.44	86.65	91.2	292.7	500.0	<5	N
	Sunny	11:05	CC81C	2.8417	2.8506	0.0089	6978.67	6979.67		51	51	51.0	1.44	1.44	1.44	86.65	102.7	292.7	500.0	<5	N
30-Aug-17	Fine	09:00	CC83A	2.8585	2.8716	0.0131	7003.67	7004.67		51	51	51.0	1.44	1.44	1.44	86.65	151.2	292.7	500.0	<5	N
	Fine	10:03	CC83B	2.8319	2.8447	0.0128	7004.67	7005.67		51	51	51.0	1.44	1.44	1.44	86.65	147.7	292.7	500.0	<5	N
	Fine	11:07	CC83C	2.8299	2.8431	0.0132	7005.67	7006.67	1.00	51	51	51.0	1.44	1.44	1.44	86.65	152.3	292.7	500.0	<5	N
																Average	134.3				
																Min	91.2				
																Max	167.3				

Detailed Calculation of 1-Hour TSP Monitoring Result at Station: SR77

Note:No major dust source observed during the monitoring periodData in Bold denotes exceedanece of respective Action LevelData in Bold Underlinedenotes exceedance of respective Limit Level







Appendix G Summary of Event and Action Plan



Event and Action Plan for Air Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action level being exceeded by one	 Identify source; Inform IEC and ER; 	1. Check monitoring data submitted by ET;	1. Notify Contractor.	1. Rectify any unacceptable practice;
sampling day	3. Repeat measurement to confirm finding;	2. Check Contractor's working method.		2. Amend working methods if appropriate.
	 Increase monitoring frequency to daily. 			
Action level being	1. Identify source;	1. Check monitoring data submitted	1. Confirm receipt of notification of	1. Submit proposals for remedial
exceeded by two or more consecutive	2. Inform IEC and ER;	by ET;	failure in writing;	actions to IEC within 3 working
sampling days	3. Repeat measurements to confirm	2. Check Contractor's working	2. Notify Contractor;	days of notification;
	findings;	method;	3. Ensure remedial measures	2. Implement the agreed proposals;
	 Increase monitoring frequency to daily; 	3. Discuss with ET and Contractor on possible remedial measures;	properly implemented.	3. Amend proposal if appropriate.
	 Discuss with IEC and Contractor on remedial actions required; 	 Advise the ER on the effectiveness of the proposed remedial measures; 		
	 If exceedance continues, arrange meeting with IEC and ER; 	 Supervise Implementation of remedial measures. 		
	 If exceedance stops, cease additional monitoring. 			

Event	Action			
	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	 Identify source; Inform IEC, ER, Contractor and EPD; Repeat measurement to confirm 	 Check monitoring data submitted by ET; Check Contractor's working method; 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification;
	 finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Discuss with ET and Contractor on possible remedial measures; Advise ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	properly implemented.	 Implement the agreed proposals; Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling days	 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. 	 Discus 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. 	 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

Event and Action Plan for Noise

Event	Action										
	ET Leader	IEC	ER	Contractor							
Action Level	 Notify IEC and the Contractor. Carry out investigation. 	1. Review with analysed results submitted by ET.	1. Confirm receipt of notification of failure in writing.	1. Submit noise mitigation proposals to IEC.							
	 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 the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures. 	 Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	2. 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 	 Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. 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. 							



Event and Action Plan for Water Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action level being exceeded by one sampling day	 Repeat in-situ measurement on next day of exceedance to confirm findings; 		1. Confirm receipt of notification of failure in writing; Notify, Contractor	 Inform the ER & confirm notification of the non-compliance in writing;
	2. Identify source(s) of impact;			2. Rectify unacceptable practice;
	3. Inform IEC, Contractor & ER;			3. Amend working methods if
	 Check monitoring data, all plant, equipment & contractor's working methods; 			appropriate.
Action level being exceeded by two or more consecutive sampling days	 Repeat measurement on next day of exceedance to confirm findings; 	 Checking monitoring data submitted by ET & Contractor's working method; 	 Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures 	 Inform the Engineer & confirm notification of the non-compliance in writing;
sampling days	Identify source(s) of impact;	2. Discuss with ET & Contractor on	properly implemented;	2. Rectify unacceptable practice;
	3. Inform IEC, Contractor, ER & EPD;	3. Review the proposed mitigation	3. Assess the effectiveness of the implemented mitigation	3. Check all plant & equipment & consider changes of working
	4. Check monitoring data, all plant, equipment & Contractor's working methods;	measures.	 methods; 4. Submit proposal of mitigation measures to ER within 3 working down of patitionation 2 discuss with 	
5	5. Discuss mitigation measures with IEC, ER & Contractor;	4. Supervise the implementation of mitigation measures.		days of notification & discuss with ET, IEC & ER;
	 Ensure mitigation measures are implemented; 			 Implement the agreed mitigation measures.
	 Increase monitoring to daily until no exceedance of Action level. 			

Event	Action			
	ET Leader	IEC	ER	Contractor
Limit level being exceeded by one sampling day	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER & EPD; Check monitoring data, all plant, equipment & contractor's working methods; Discuss mitigation measures with IEC, Contractor & ER. 	 Checking monitoring data submitted by ET & Contractor's working method; Discuss with ET & Contractor on the possible mitigation measures; Review the proposed mitigation measures submitted by Contractor & advise the ER accordingly. 	 Confirm receipt of notification of failure in writing; Discuss with IEC, ET & Contractor on the proposed mitigation measures; Request Contractor to review the working methods. 	 Inform the ER & confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant & equipment & consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification & discuss with ET, IEC & ER.
Limit level being exceeded by two or more consecutive sampling days	 Repeat measurement on the next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, Contractor, ER & EPD; Check monitoring data, all plant, equipment & Contractor's working methods; Discuss mitigation measures within IEC, Contractor & ER; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	 Checking monitoring data submitted by ET & Contractor's working method; Discuss with ET & Contractor on potential remedial actions; Review Contractor's mitigation measures whenever necessary to assure their effectiveness & advise the ER accordingly; Supervise the implementation of mitigation measures. 	review the working methods;	 further exceedance; Submit proposal of mitigation measures to ER within 3 working days of notification & discuss with ET, IEC & ER; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control;



Appendix H Noise Monitoring Results and their Graphical Presentation

Appendix H Noise Monitoring Results and their Graphical Presentation

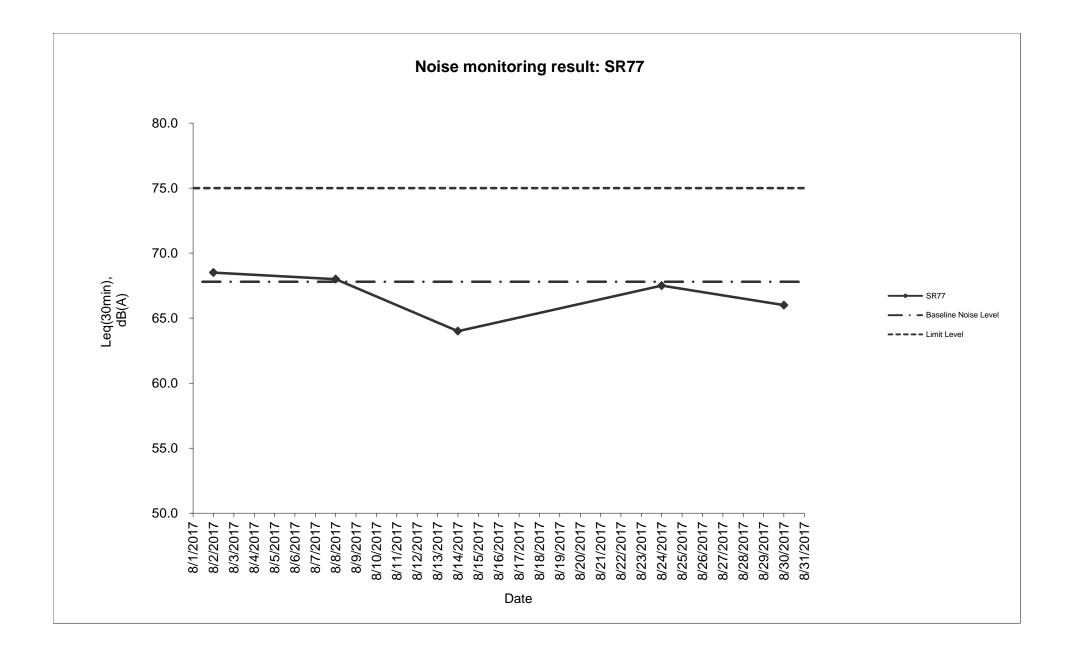
Noise Monitoring Result at SR77

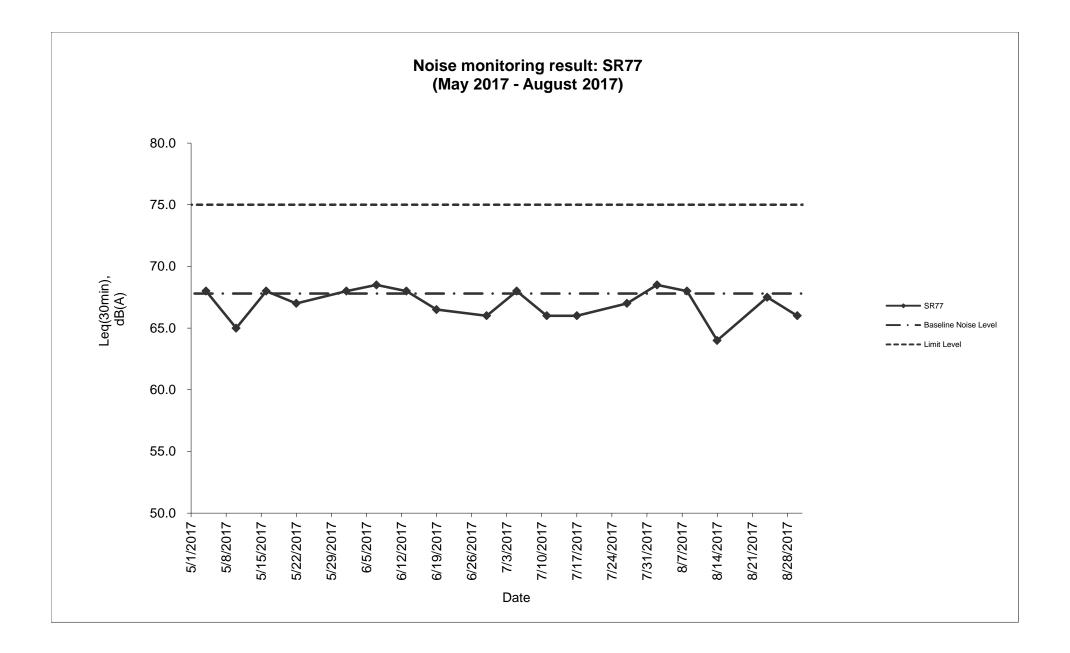
Date	Weather	Start	End	Measured Noise Level (dB(A))*		(dB(A))*	Baseline Corrected	Baseline Noise Level	Limit Level	Exceedance
	Condition	Time	Time	L10(30min)	L90(30min)	Leq(30min)	Level, dB(A)**	(dB(A)), Leq(30min)	dB(A)	(Y / N)
2017/08/02	Fine	11:30	12:00	97.0	61.0	68.5	-	67.8	75.0	Ν
2017/08/08	Sunny	11:00	11:30	95.0	56.0	68.0	-	67.8	75.0	Ν
2017/08/14	Sunny	11:30	12:00	95.0	55.0	64.0	-	67.8	75.0	Ν
2017/08/24	Sunny	11:30	12:00	92.5	56.5	67.5	-	67.8	75.0	Ν
2017/08/30	Fine	11:30	12:00	99.0	58.0	66.0	-	67.8	75.0	Ν
					Average	66.8				
					Minimum	64.0				
					Maximum	68.5				

Remarks

* +3dB(A) Façade effect correction included

** Baseline corrected level is only calculated when measured noise level (Leq) > limit level.







Appendix K Waste Flow Table

Monthly Summary Waste Flow Table

	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
		Hard Rock							Paper/			
	Total	and Large		Soil Reused	Soil Reused				cardboard			General
	Quantity	Broken		in the	in other	Soil Disposed			packaging		Chemical	Refuse
Month	Generated	Concrete	Soil	Contract	Projects	as Public Fill	Imported Fill	Metals	(Note 3)	Plastics	Waste	(Note 2)
Unit	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in m ³)	(in '000m ³)
Jan-17	1.150	0.204	0.946	0.150	-	0.796	1.150	-	-	0.001	-	0.170
Feb-17	1.160	0.308	0.852	0.192	-	0.660	0.926	-	-	0.001	-	0.140
Mar-17	2.287	0.565	1.722	0.060	-	1.662	1.055	-	-	-	-	0.115
Apr-17	1.003	0.064	0.939	0.036	-	0.903	0.463	-	-	0.004	-	0.075
May-17	0.497	0.005	0.492	0.120	-	0.372	0.050	0.767	-	-	-	0.105
Jun-17	1.248	0.150	1.098	0.150		0.948	0.008	-	-	-	-	0.135
Sub-Total	7.345	1.296	6.049	0.708	-	5.341	3.652	0.767	-	0.006	-	0.740
Jul-17	1.917	0.180	1.737	0.120	-	1.617	0.542	-	-	-	-	0.065
Aug-17	1.297	0.118	1.179	0.120	-	1.059	0.099	-	-	-	-	0.130
Sep-17	-		-									
Oct-17	-		-									
Nov-17	-		-									
Dec-17	-		-									
Total	10.559	1.594	8.965	0.948	-	8.017	4.293	0.767	-	0.006	-	0.935

Note: 1. Assume the density of soil fill is 2 ton/m^3 .

2. Assume the density of rock and broken concrete is 2.5 ton/m³.

3. Assume each truck of C&D wastes is $5m^3$.

4. The inert C&D materials except slurry and bentonite are disposed at Tuen Mun 38.

5. The slurry and bentonite are disposed at Tseung Kwun O 137.

6. The non-inert C&D wastes are disposed at NENT.

7. Assume the density of metal is $7,850 \text{ kg/m}^3$.



Appendix L Implementation Schedule of Environmental Mitigation Measures (EMIS)



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
Air Quality				
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	Contractor	✓
	• All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.			Rem
	• 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.			\checkmark
	• 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.			✓
	 Materials shall be dampened, if necessary, before transportation. 			\checkmark
	• Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.			✓
	• Vehicle washing facilities shall be provided to minimise the quantity of material deposited on public roads.			\checkmark
Air Quality during Operation	Not required	N/A	N/A	N/A
Noise				
Noise during Construction	• Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During Construction	Contractor	\checkmark
	 Reduce the number of equipment and their percentage on-time. 			\checkmark
Noise during Operation	Not required	N/A	N/A	N/A
Water Quality				
Water Quality during	Road Widening Works, Earthworks and Culvert Extension Works			
Construction	• 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.	During Construction	Contractor	✓



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• 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 is required to ensure that sediment is not conveyed into the existing drainage system.			Obs
	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.			✓
Water Quality during Operation	Not required	N/A	N/A	N/A
Waste Management		1		
Waste Management during Construction	General Waste			
	 Transport of wastes off site as soon as possible. 	During Construction	Contractor	\checkmark
	Maintenance of accurate waste records.			\checkmark
	• Minimisation of waste generation for disposal (via reduction/recycling/re-use).			\checkmark
	 No on-site burning will be permitted. 			\checkmark
	 Use of re-useable metal hoardings/signboards. 			✓
	Vegetation from site clearance			
	 Segregation of materials to facilitate disposal. 	During Construction	Contractor	✓
	• Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.			✓



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	Demolition Wastes			
	 Segregation of materials to facilitate disposal. 	During Construction	Contractor	\checkmark
	Appropriate stockpile management.			\checkmark
	Excavated Materials			
	Segregation of materials to facilitate disposal / reuse.	During Construction	Contractor	\checkmark
	Appropriate stockpile management.			\checkmark
	• Re-use of excavated material on or off site (where possible).			\checkmark
	• Special handling and disposal procedures in the event that contaminated materials are excavated.			N/A
	Construction Wastes			
	• Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).	During Construction	Contractor	✓
	Appropriate stockpile management.			\checkmark
	 Planning to reduce over ordering and waste generation. 			\checkmark
	• Recycling and re-use of materials where possible (e.g. metal, wood from formwork)			~
	• For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.			~
	Bentonite Slurries			
	Bentonite slurries should be reused as far as possible.	During Construction	Contractor	N/A
	• Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.			N/A
	Chemical Wastes			
	 Storage within locked, covered and bunded area. 	During Construction	Contractor	✓
	• The storage area shall not be located adjacent to sensitive receivers e.g. drains.			~
	 Minimise waste production and recycle oils/solvents where possible. 			\checkmark

Notes ([#]): \checkmark – Compliance; Rem – Reminder; Obs – Observation; N/C – Non Compliance; N/A – Not Applicable



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• A spill response procedure shall be in place and absorption material available for minor spillages.			\checkmark
	 Use appropriate and labelled containers. 			\checkmark
	• Educate site workers on site cleanliness/waste management procedures.			\checkmark
	• 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.			✓
	Municipal Wastes			
	• Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.	During Construction	Contractor	✓
	 Regular, daily collections are required by an approved waste collector. 			\checkmark
Waste Management during Operation	Not required.	N/A	N/A	N/A
Ecology				
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.	During Construction	Contractor	*
	• Individual trees which fall within the works areas but which work plans show do not require removal are to be retained and fenced off to maximise protection.			*
	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; 	During Construction	Contractor	✓



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• 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			\checkmark
	• all debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.			\checkmark
	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 stockpiles to avoid run-off; 	During Construction	Contractor	\checkmark
	• 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			1
	• Maximise vegetation retention on-site to maximise absorption (minimise transport).			✓
Ecology during Operation	• To conduct compensatory ecological planting as specified in the latest landscape plans approved by EPD (Clause 2.6 of the Environmental Permit refers).	During Construction and operation	Contractor (during construction) / LCSD* (during operation) (Note: * The division of vegetation planting and maintenance responsibilities shall follow the guidelines stipulated in ETWB TCW No. 2/2004.)	N/A
Landscape and Visual				
Landscape and Visual during Construction	Preservation of Existing Vegetation			
	• Trees identified for retention within the project limit would be protected during the works	During Construction	Contractor	√
	• The tree transplanting and planting works shall be implemented by approved Landscape Contractors			\checkmark



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]	
	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.	During Construction	Contractor	*	
	Hoarding				
	A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.	During Construction	Contractor	~	
	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.	During Construction	Contractor	N/A	
	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.	During Construction	Contractor	N/A	
Landscape and Visual during Operation	Not required.	N/A	N/A	N/A	



Appendix N Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions



Cumulative Complaint Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
C131126	26, November, 2013	Mr. Tony Hung from WWF	Mat Wat River (works sites for box culvert extension)	Suspected unauthorised discharge of water from a construction site to Ma Wat River, Tai Wo Service Road East, Tai Po	It was found that the water leaving the end of the steel pipes was the diverted water from the upstream of the existing box culverts, instead of being discharged from the construction works sites. An EM&A Programme is being undertaken to monitoring the environmental performance of the construction works, and the Contractor has also implemented appropriate mitigation measures to avoid silt-laden runoff discharging from the works sites into the river. The complaint is considered an invalid complaint under this Project.	Completed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
C141120	20 November, 2014	EPD	Ng Tung River and Ma Wat River nearby the site of the Liantang/ Heung Yuen Wai BCP Project (Contract Number CV/2012/09)	At Bridge NF426 in Fanling, the whole Ng Tung River showed milky and suspected illegal discharge by nearby factory has undertaken. (粉嶺近天橋編號 NF426 梧桐河整條河 河水呈奶白色懷疑附 近有工廠非法排放污 水)	 Water Supplies Department (WSD) conducted a washout procedure on 20 November 2014 at about 9:30am to flush the newly installed water pipe of diameter of 1400mm which has recently finished disinfection. It is understood that the procedure has lasted for about 1 hour and large amount of freshwater has been discharged into the Ma Wat River through a washout port. Although water was observed seeping from the gantry switch and flew into the works sites, the area is a sump pit and the water was unlikely to run off and entered the river directly. As such, it is anticipated that only freshwater has been discharged into Ma Wat River through the washout port. Both site inspections conducted by the ET before the complaint (19 November 2014), and after the complaint (24 November 2014) did not identify any deficiencies on environmental mitigation measures. Also, there were no rains during the period and the risk of construction site run-off is considered minimal. 	Completed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					The water from the Ma Wat Channel adjoins the Ng Tung River before passing through the complaint location, so other pollution sources may also occur at upstream of Ng Tung River	
					The complaint is considered unlikely due to the construction works of this project.	



Meinhardt Infrastructure and Environment Ltd 邁進基建環保工程顧問有限公司

10/F Genesis 33-35 Wong Chuk Hang Road Hong Kong 香港黃竹坑道33-35號 創協坊10樓

Tel 電話: +852 2858 0738 Fax 傳真: +852 2540 1580

mail@meinhardt.com.hk www.meinhardt-china.com www.meinhardtgroup.com