

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

Monthly EM&A Report March 2020

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

(March 2020)

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Certified by:	W. K. CHIU	V

Position: <u>Environmental Team Leader</u>

Date: 9 April 2020

M MOTT MACDONALD

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T +852 2828 5757 F +852 2827 1823 mottmac.hk Environmental Monitoring and Audit (EM&A) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange) – Entrusted Works Environmental Permit No. EP-324/2008/E Condition 3.3 – Submission of Monthly EM&A Report – March 2020 for the portion of Stage 2 works entrusted to Civil Engineering and Development Department (CEDD) under Contract No. CV/2012/09

9 April 2020 By Fax (2805 5028) & Hand

We refer to the revised Monthly EM&A Report – March 2020 received on 8 April 2020 submitted by the Environmental Team via email. Pursuant to Environmental Permit Condition 3.3, I hereby verify the Monthly EM&A Report – March 2020 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. Gilbert Wong Ms. Helen Cochrane By Fax (2714 5198) By Fax (3547 1659) By Fax (2251 0698) By Fax (2540 1580)



Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 – Chun Wo Monthly EM&A Report – March2020

Date	Revision	Prepared By	Checked By	Approved By
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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 March 2020. As informed by the Contractor, the remaining activities in the reporting month were:

- Road pavement works;
- Remaining works of Kiu Tau Footbridge ;and
- Connect the permanent power supply for the lighting system.

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

- Road pavement works; and
- Connect the permanent power supply for the lighting system.



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 March 2020.

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 remaining construction activities undertaken in the reporting month are summarized below:
 - Road pavement works;
 - Remaining works of Kiu Tau Footbridge; and
 - Connect the permanent power supply for the lighting system.
- 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 Representative	Senior Resident Engineer	Mr. Alan Lee	2171 3303	2171 3498
Mott MacDonald	Independent Environmental Checker (IEC)	IEC	Mr. Steven Tang	2828 5920	2827 1823
		Site Agent	Mr. Chan	2638 6144	
Chun Wo	Contractor	Environmental Officer	Mr. Yip Yun Lam	3166 5111	2638 7077
		Environmental Supervisor	Mr. Franki Leung	2638 7005	
Meinhardt	Environmental Team (ET)	ET Leader	Ms. Helen Cochrane	2859 1734	2540 1580

 Table 2.1
 Contact Information of Key Personnel

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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**.

Table 3.1	Status of Environmental Licenses, Notific	ations and Permits
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Permit / License No. / Notification /	Valid Period		Status	Remarks	
Reference No.	From	То	Status	itemaiks	
Environmental Pern	nit	·			
EP-324/2008/E	26 Jan 2017		Granted on 26 Jan 2017		
Construction Noise	Permit				
Wastewater Discha	rge License				
WT00032188-2018	20 Sep 2018	31 Aug 2023	Valid		
Chemical Waste Pro	oducer Registra	ntion			
5113-634-C3817- 01	7 Oct 2013		Valid		
Billing Account for	Construction W	aste Disposal			
7017914	2 Aug 2013		Account Active		
Notification Under	Notification Under Air Pollution Control (Construction Dust) Regulation				
	9 Aug 2019		Notified	- Extension of notification was submitted to EPD on 9 Aug 2019	



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**.

Equipment	Brand and Model	Quantity	Serial Number
High Volume Sampler (1-hr TSP and 24-hr TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170 MFC)	1	2359
Handheld TSP meter	TSI AM520	1	5201735006

Table 4.1 **Air Quality Monitoring Equipment**

- 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.
- Calibration of the HVS (five point calibration) using Calibration Kit was carried out 4.2.3 every two months. The HVS calibration orifice will be calibrated annually.
- 4.2.4 The electricity supply of HVS at AM1(SR77) was suspended from 16 May 2019 and was no longer available. In order to have a more secure electricity supply, an alternative Handheld TSP meter was proposed to use for the temporary monitoring of 24-hr & 1hr air quality from 22 May 2019. In this regard, IEC and ER have no adverse comment on it. And Calibration certificates of the Handheld TSP meter 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.

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.

 Table 4.3
 Air Quality Monitoring Parameters, Frequency and Duration

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 As informed by the contractor, all major construction activities of the Entrusted Portion Project of Section 1A and 1B were substantially completed on 28 September 2018 and 3 October 2018 respectively. In such regard, the EM&A Programme of the captioned project, including monthly EM&A reporting and the corresponding environmental monitoring and audit works, is no longer required and we proposed to cease it by the end of December 2018 and we have submitted the termination proposal to EPD on 24 December 2018. And EPD are replied the EM&A monitoring shall only be terminated when insignificant environmental impacts of the remaining outstanding construction works are expected and agreement of EPD. After that we have submitted the termination proposal to EPD on 4 April 2019 again. EPD replied we need to provide the Final EM&A Report to facilitate their consideration for the termination on 14 May 2019. Therefore, the EM&A monitoring and audit works will be ceased upon EPD's approval for the termination proposal is approved. The tentative schedule for environmental monitoring for the reporting month is provided in **Appendix D**.
- 4.6.2 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	
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ASR ID	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AM1(SR77) *	122.8	83.9 -166.4	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	(μg/m°)		Action Level (μg/m³)	Limit Level (µg/m³)
AM1(SR77) *	71.4	50.6 – 101.7	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	34678506
Sound Level Meter	Rion (Model No. NL-52)	1	00175560

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

Ŀ	Parameter and Duration	Frequency
	30-mins measurement at between 0700 and 1900 on normal weekdays. Leq, L10 and L90 would be recorded.	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⁾	63.9	61.5 – 65.5	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 89m³ of excavated material has been generated. 89m³ of inert C&D materials was disposed of at public fill to TM Area 38. Om³ of inert C&D materials were reused on site. 25m³ 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 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, 4 weekly site inspections were carried out on 5, 12, 19 and 25 March 2020. No site inspection was conducted with the EPD. 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	
Air Quality	N/A	N/A	N/A	
Noise	N/A	N/A	N/A	
Water Quality	N/A	N/A	N/A	
Waste/ Chemical Management	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 February 2020	13 March 2020



11 ENVIRONMENTAL NON-CONFORMANCE

11.1 Summary of Monitoring Exceedances

- 11.1.1 No exceedance of Action and Limit Level were 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 remaining construction works in the coming reporting month are anticipated to include:
 - Road pavement works; and
 - Connect the permanent power supply for the lighting system.

12.2 Key Issues for the Coming Month

- 12.2.1 Key issues to be considered in the coming month are anticipated to include:
 - Properly maintain all drainage facilities and wheel washing facilities on site;
 - Good housekeeping should be maintained and general refuse should be removed regularly; and
 - Watering shall be enhanced over the construction site.

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

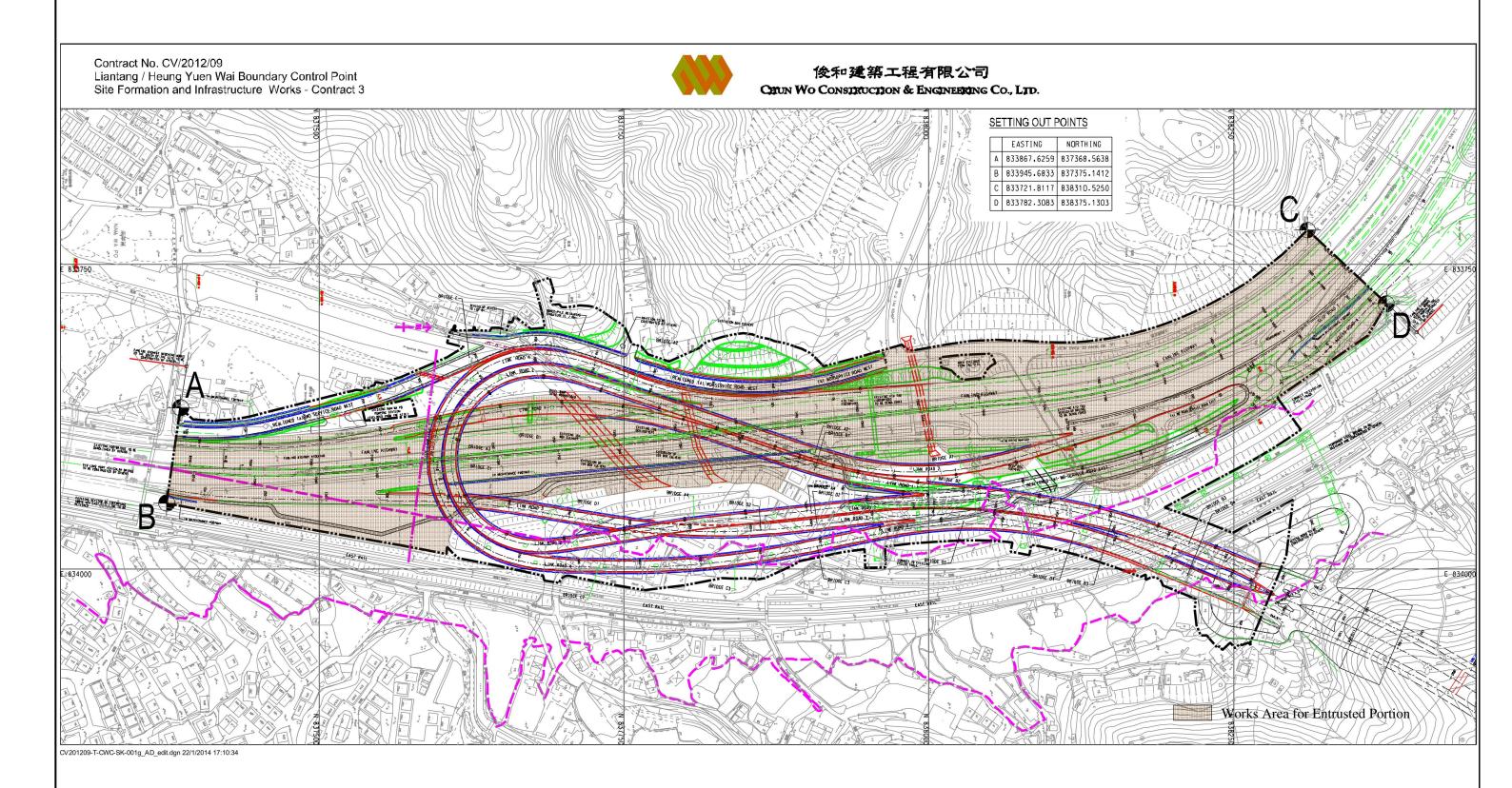
- 13.1.1 The construction phase EM&A programme of the Project commenced on 5 November 2013.
- 13.1.2 The 1-hr TSP, 24-hr TSP, noise and water quality monitoring were carried out in the reporting period.
- 13.1.3 No exceedance of Action and Limit Level was recorded for 24-hour TSP monitoring at the monitoring 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 Four (4) 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

According to the environmental site inspections performed in the reporting month, no following recommendation was provided.



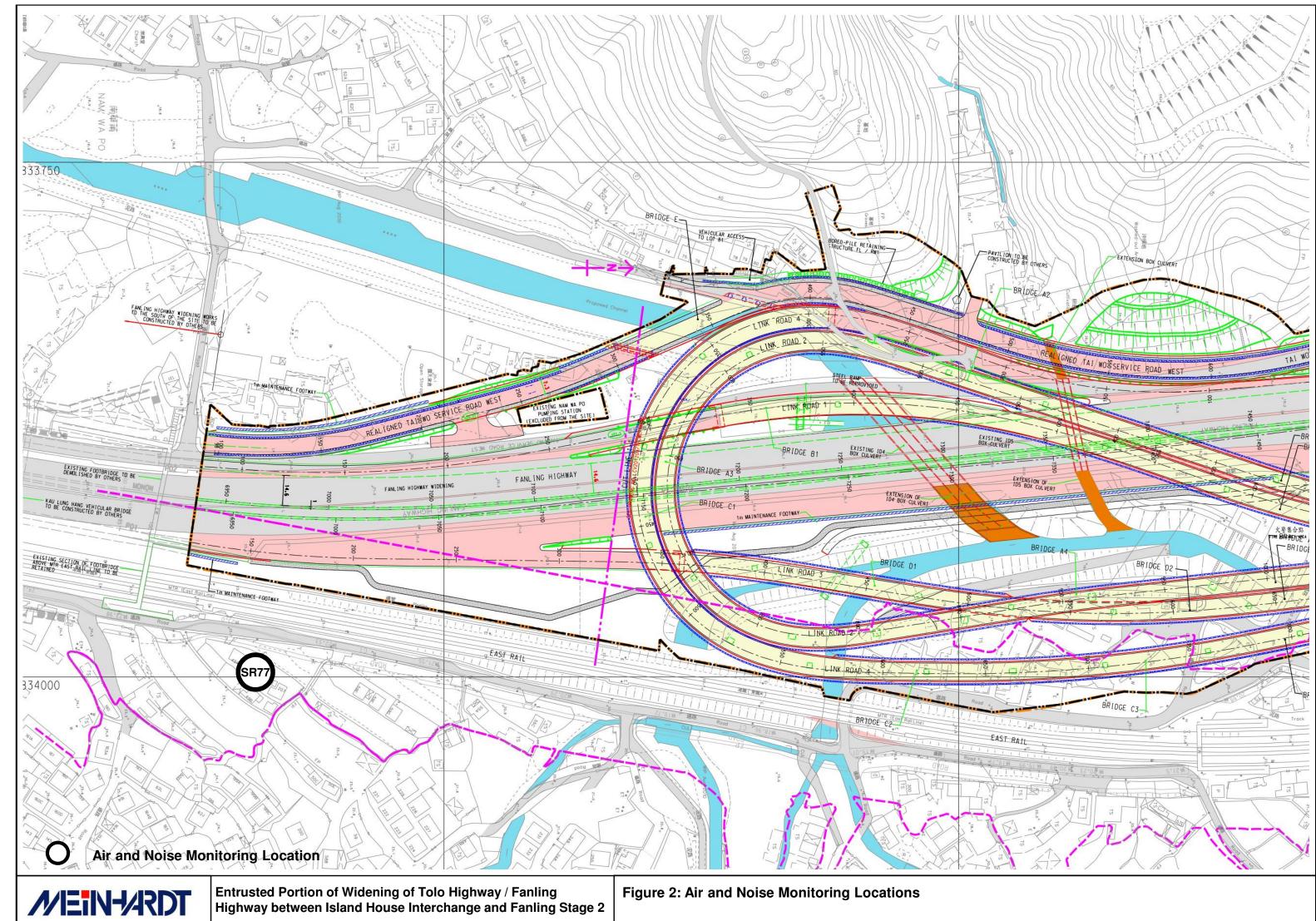
Figure





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

ctivity ID	Activity Name	OD	RD	Start	Finish	TF			2019	1			
3-Month Rol	ing Programme 2019-4-21 (Based on (UMP06C)						Mar Apr	Мау		Ju	un	Jul	A
Key Dates (C													
KD-0400a	KD4: Section 3 - Remainder of Landscape Softworks not included in Section 3A (Prel.	0	0		20-May-19*				 KD4: Section 	3 - Remainder of Land	dscape Softworks not	included in Section 3A (Prel. E)Thy Claim 56 58)
	EOT by Claim 56, 58)					0							
KD-0500	KD4A: Section 3A - Landscape Softworks in NBZ1 (Potential EOT by Inclement Weather)	0	0		20-May-19*	-213						tial EOT by Inclement Weather	
KD-0800	KD6: Section 5 - Preservation and Protection of Trees (Potential EOT by Inclement Weather)	0	0		20-May-19*	-110			KD6: Section	5 - Preservation and P	Protection of Trees (Pol	ential EOT by Inclement Weatl	ier)
Key Dates (F	orecast)												
KD-0405	KD4: Section 3 - Remainder of Landscape Softworks not included in Section 3A	0	0		20-May-19	1			KD4: Section	3 - Remainder of Land	dscape Softworks not	included in Section 3A	
KD-0505	KD4A: Section 3A - Landscape Softworks in NBZ1	0	0		20-May-19	-213			KD4A: Section	3A - Landscape Soft	tworks in NBZ1		
KD-0805	KD6: Section 5 - Preservation and Protection of Trees	0	0		20-May-19	-110			KD6: Section	5 - Preservation and P	Protection of Trees		
	IB - Fanling Highway Widening (KD-1 & KD-2)	Ů	Ū		Lo may to								
Fanling High	vay South Portion between CH6935 and CH7470												
Fanling Higl	way Zone 1 between CH6935 and CH7130 (within SBZ2)												
Noise Barr	ler												
FHW-1110	Noise Barrier NB6 and NB7 - Remaining Stem Wall (28m, maintain access for	30	0	16-Aug-18 A	30-Apr-19 A			Noise Barrier NB6 and NB	7 - Remaining Ste	am Wall (28m, mainta	in access for extensioi	n of NB 70, VO199)	
FHW-114	extension of NB 70, VO199) Dc Noise Barrier NB70 - Footing (extended 10m under VO199)	153	0	20-Feb-19 A	30-Apr-19 A			-					
At-Grade F	Roadworks (195m)												
		100	0	00.14 40.4	00.14								
	0b Road Pavement (FLH NB 1st lane and Hard Shoulder)	138	0	20-Mar-19 A	20-May-19 A								
Fanling Higl	way Zone 2 between CH7130 and CH7290												
Noise Barr	ler -												
FHW-234	Db Noise Barrier NB67-2 - Cap ID4-1A_1 and Cap ID4-1A_2 head beam (affected by Tau Pass, VO 191)	15	0	23-Apr-19 A	10-May-19 A			Noise Barr	ier NB67-2 - Cap	D4-1A_1 and Cap ID4	4-1A_2 head beam (a	ffected by Tau Pass, VO 191)	
FHW-237	Dc Access Ramp at Tau Pass - Additional Mini-Piling (3 nos.) (under VO191)	34	0	20-Feb-19 A	28-Apr-19 A			•			/	ccess Ramp at Tau Pass - Ado	litional Mini-Piling (3
FHW-237	Dd Access Ramp at Tau Pass - Pile caps and other structures (under VO191)	48	0	07-Mar-19 A	03-May-19 A	_		Access Ramp a	at Tau Pass - Pile	baps and other structu	ures (under VO191)		
At-Grade F	Roadworks (160m)												
	Permanent Street Light Installation (due to Claim No. 63)	21	0	20-Jun-18 A	13-Mar-19 A	_	Permanent Street Light Installation (due to Claim No. 63)						
							Permanent Street Light installation (due to Claim No. 65)						
	0 Road Pavement on FLH SB 4th lane after Removal of Temp. Street Light (due to Claim No. 63)	11	0	20-Mar-19 A	10-Apr-19 A					1		Removal of Temp. Street Ligh	
FHW-235	Da Road Drainage and Pavement (near NB67-2, MN7.9 to MN7.11)	58	0	29-Mar-18 A	18-May-19 A				Road Drainage a	nd Pavement (near NE	367-2, MN7.9 to MN7.	11)	
FHW-235	0b Installation of Drain pipe and Manholes (MN7.12 & MN7.12A) (affected by Tau Pass under VO191)	29	0	26-Nov-18 A	23-Apr-19 A		Inst	allation of Drain pipe and Manho	oles (MN7.12 & M	N7.12A) (affected by	Tau Pass under VO19	1)	
FHW-235	Dc Road Drainage and Pavement (near NB67-2, MN7.12 & MN7.12A) (affected by Tau	46	0	20-Jan-19 A	13-May-19 A							Road Drai	nage and Pavement
Fanling Higl	Pass, VO not yet issed) way Zone 3 between CH7290 and CH7380												
Noise Barr	ler												
	Noise Barrier NB69 - Pile cap/ Footing and Stem Wall adjacent to NB lane (108m)	77	0	16-Oct-17 A	30-Apr-19 A			Noise Barrier NB69 - Pile c	an/ Footing and	Stem Wall adjacent to	NB lane (108m)		
			Ū	10 000 11 1	00 Apr. 10 A				ap, i ooung dilu				
	Roadworks (130m)												
	0 Road Pavement on FLH SB 4th lane after Removal of Temp. Street Light (due to Claim No. 63)	10	10		30-May-19							Removal of Temp. Street Light	due to Claim No. 63
FHW-335	Da Road Drainage (FLH NB hard shoulder, next to NB69)	61	0	26-Feb-18 A	18-May-19 A				Road Drainage (F	LH NB hard shoulder,	next to NB69)		
					-					1			
			Ac	ctual Work			CEDD Contract No. CV/2	2012/09				th Rolling Programme	A
			Re	emaining Work			Liantang / Heung Yuen Wai BCP - S		n &	Date	Revisi		
			S	ummary Bar			Infrastructure Works, Co			20-May-19	Revision 0	FC	DH
				itical Remainin	ng Work								
			_	ilestone	J		3-Month Rolling Progra	amme					
		*	•				3MPR070Page 1 of 5	20-Ma	y-19				
			· Pr	oject Baseline B	∋ar								

ID Activity Name	OD	RD	Start	Finish	1	Mar Apr	May	2019	Jun	Jul	Au
FHW-3350b Road Formation and Pavement (FLH NB 1st lane and HS next to NB69, due to Tau	25	0	19-Mar-19 A	16-May-19 A		ivitat right					
Pass under VO191) anling Highway North Portion between CH7470 and CH7925											
Fanling Highway Zone 4 between CH7380 and CH7470											
At-Grade Roadworks (90m)											
FHW-4150 Road Pavement (FLH SB 1st lane) by re-surfacing (due to Claim No. 63)	15	0	10-Sep-18 A	27-Apr-19 A			Road Pavement (FLH SB 1st		nida (duo to Claim No. 62)		
			· ·								
FHW-4150a Road Drainage and Road Pavement (FLH H.S., Merging Lane)(due to Claim No. 63)	48	0		16-Apr-19 A			and Road Pavement (FLH H.)(due to Claim No. 63)		
FHW-4330c Construction of FL/RW2 (mass concrete wall, VO not yet received)	38	0	27-Aug-18 A	04-Apr-19 A		Construction of FL/RW2 (mass	concrete wall, VO not yet receiv	ved)			
FHW-4330d Remaining Gullies and Road Pavement after Construction of FL/RW2 (VO not yet received)	25	0	11-Feb-19 A	18-May-19 A	۱ I					Remaining Gullies a	and Road Pave
FHW-4330e Road Drainage MN9.1 - MN9.3	24	0	23-Aug-18 A	20-May-19 A	۱			Road Draina	ge MN9.1 - MN9.3		
Fanling Highway Zone 5 between CH7470 and CH7600 (Provision of Kiu Tau Footbridge)											
Kiu Tau Footbridge Reprovision (East)											
FHW-5070 Installation of Lighting Facilities (affect by design change which is under VO)	21	46	20-Jun-18 A	13-Jul-19	26					Installation of L	ighting Facilitie
FHW-5090 Erection of Pillar Box (affect by design change which is under VO)	30	0	28-Feb-19 A	29-Mar-19 A					Erection of Pillar Box (affect I	y design change which is under VO)
FHW-5100 Power Cable Laying Works (affect by design change which is under VO)	36	36	20-May-19*	02-Jul-19	23					Power Cable Laying Works (af	fect by design of
FHW-5110 Permanent Power Supply Connection (affect by design change which is under VO)	10	10	03-Jul-19	13-Jul-19	26					Permanent Pov	wer Supply Con
FHW-5110a Installation of Drainage Pipe	32	22	10-Sep-18 A	14-Jun-19	284				Installation of Draina	ge Pipe, Installation of Drainage Pip	
FHW-5110b Laying of Floor Tiles (affect by design change which is under VO)	72	12		01-Jun-19	29						
FHW-5110c Installation of Suspended Ceiling (affect by design change which is under VO)	104			01-Jun-19	29				Installation of Suspended Ceiling (affect		
	104	12	21-Way-10A	01-001-19	2.5				Thistaliation of Suspended Celling (anec	a by design change which is under v	O), Instaliation
Provision of BFA Facilities (Lift)											
FHW-L-104 Permanent Power Supply (affect by design change which is under VO)	10	10		13-Jul-19	23					Permanent Pov	wer Supply (af
FHW-L-106 Testing & Commissioning (affect by design change which is under VO)	27	27	15-Jul-19*	14-Aug-19	23						i
Works at existing TWSRE											
FHW-5490 Road Drainage, Pavement and TCSS duct laying (Merging lane next to NB72)(due to claim)	2	2	25-May-19*	27-May-19	299			🔲 Ro	ad Drainage, Pavement and TCSS duct lay	ng (Merging lane next to NB72)(due	to claim)
FHW-5500 Road Drainage (MS10.1-10.3A), Road Pavement and TCSS duct laying (Merging lane next to NB73)	31	44	21-Apr-18 A	11-Jul-19	26					Road Drainage (M	IS10.1-10.3A)
At-Grade Road Works (130m)											
FHW-5130 Road Pavement (FLH SB 1st lane) by re-surfacing (due to claim 63)	15	18	10-Sep-18 A	10-Jun-19	28				Road Pavement (FLH SB	1st lane) by re-surfacing (due to claim	1 63), Road Pa
FHW-5330a Road Drainage (MN10.1-10.3A, gullies affected by Slope F18)	60	15	16-Dec-17 A	05-Jun-19	29				Road Drainage (MN10.1-10.3A, g	ullies affected by Slope F18), Road I	Drainage (MN1
FHW-5330c Fill Replacement Works 3SW-D/F18 next to FLH NB (further modified by VO not yet	73	24	01-Aug-18 A	17-Jun-19	28				Fill Replacement	Works 3SW-D/F18 next to FLH NB	(further modifie
received) FHW-5330d Remaining Gullies, road formation and TCSS duct laying (log on effect by Slope F18	25	0	23-Jan-19 A	26-Mar-19 A					Remaining	Gullies, road formation and TCSS d	luct laving (log
under VO) FHW-5330e Road Pavement (log on effect by Slope F18 under VO)	14	14	20-May-19*	04-Jun-19	292				Road Pavement (log on effect by S		
Fanling Highway Zone 6 between CH7600 and CH7660 (Existing Vehicular Bridge)			, .								
At-Grade Roadworks (60m)											
FHW-6330a Road Drainage and Road Formation (FLH NB hard shoulder)	60	18	16-Dec-17 A	10-Jun-19	28						
	00	10	TO-Dec-17 A	10-5011-13	200				Hoad Drainage and Hoad	Formation (FLH NB hard shoulder), F	Hoad Drainage
anling Highway Zone 7 between CH7660 and CH7925 at NBZ (Section 1B)											
		_							3.Mon	th Rolling Programme	
		_	ctual Work			CEDD Contract No. CV/2	012/09		Date Revisi		Appro
			emaining Work			Liantang / Heung Yuen Wai BCP - S	ite Formatio	n &	20-May-19 Revision 0	FC	DH
			ummary Bar			Infrastructure Works, Co				-	
		Cr	itical Remainin	g Work		3-Month Rolling Progra					
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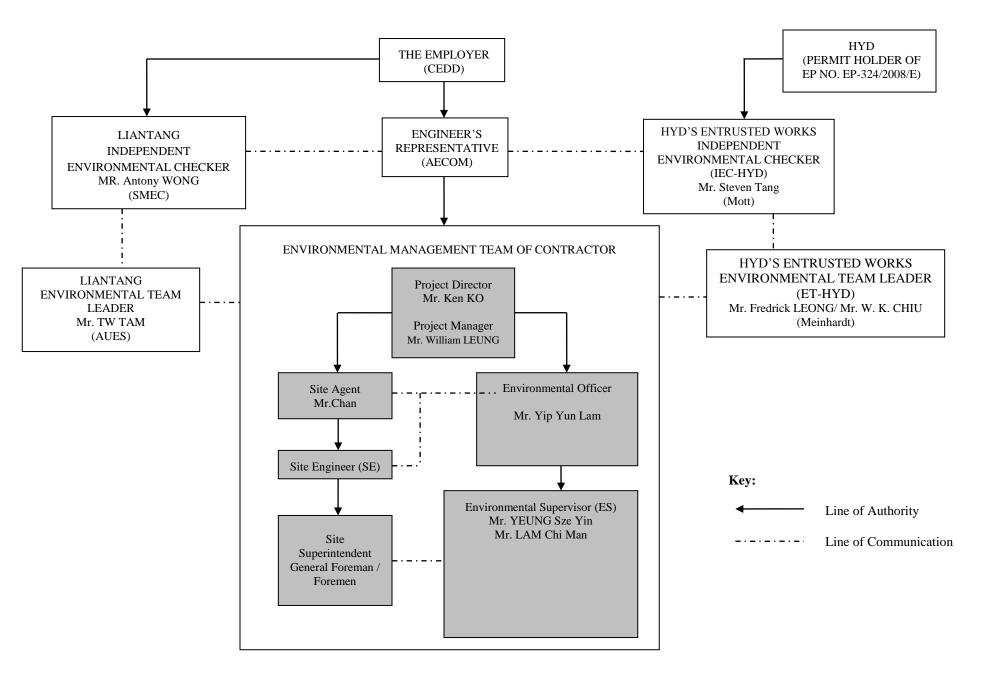
FHW-7340 Road Remaining Works for FHW-NB-150 Insta at Zo FHW-NB-320 Insta	ks (265m) d Pavement (FLH NB 3rd lane at NBZ joint with CSHK) by resurfacing d Pavement, Central Barrier (FLH NB 4th lane) by resurfacing	24	35	20-Aug-18 A			Mar Apr May		Jun	Jul	Aug
FHW-7340 Road Remaining Works for FHW-NB-150 Insta at Zo FHW-NB-320 Insta		24	35	00 Aug 10 A				:			
FHW-7340 Road Remaining Works for FHW-NB-150 Insta at Zo FHW-NB-320 Insta					29-Jun-19	271				Road Pavement (FLH NB 3rd lane at NE	37 ioint with (
Remaining Works for FHW-NB-150 Insta at Zo FHW-NB-320 Insta	a Faverierit, Central Daniel (i Er i ND 4til idne) by resultating	24	24		17-Jun-19	282			Decid Douement		
FHW-NB-150 Insta at Zo FHW-NB-320 Insta		24	24	20-Aug-18 A	17-001-19	2.02			Hoad Pavenien	Central Barrier (FLH NB 4th lane) by re-s	sunacing, no
At Zo FHW-NB-320 Insta	Noise Barrier along widened Fanling Highway										
FHW-NB-320 Insta Zone	allation of Steelworks & Panel for NB72 & NB73 (248m), adjacent to FLH SB lanes ones 4, 5 & 6	16	16	20-May-19	06-Jun-19	290			Installation of Steelworks & Pan	el for NB72 & NB73 (248m), adjacent to	FLH SB lan
	allation of Steelworks & Panel for NB67-2 (85m), adjacent to FLH NB lanes at as 2 & 3	14	14	20-May-19*	04-Jun-19	274			Installation of Steelworks & Panel	or NB67-2 (85m), adjacent to FLH NB la	nes at Zone
FHW-NB-330 Insta	allation of Steelworks & Panel for NB69 (109m), adjacent to FLH NB lanes near at Zone 3	18	18	05-Jun-19*	26-Jun-19	274			Ins	allation of Steelworks & Panel for NB69	(109m), ad
	ler of the Works (KD-3)										
At Grade Link Road a	at Fanling Highway Interchange										
Link Road 1 (near A	Ibutment AB1)										
FHI-LR1-1020 Back	filling works of abutment, Gully and Profile Barrier at Abutment AB1	20	0	28-May-18 A	03-Apr-19 A		Backfilling works of abutment, Gully and Profile Barrier at Abutme	nt AB1			
Noise Barrier											
	e Barrier NB67-1 - Remaining ground beam of Bay 3 (allow access from TWSRW)	7	0	21-Jan-19 A	27-Apr-19 A			Noiée	e Barrier NB67-1 - Remaining ground bear	of Bay 3 (allow access from TWSBW)	
Link Road 2 (near A		'	0	21001107	2/ 40/13 4				e bane NB67-1 - Henaining ground bear	I OF Day 3 (allow access from Two Shwy)	
	/-D/FR32 Bay 3213 (including temporary works)	35	0	11-Mar-19 A	20-Mar-19 A		3SW-D/FR32 Bay 3	213 (including teh	nporary works)		
	d Pavement and Drainage next to Abutment (after completion of NB73 Bay 12&13 n Wall)	20	0	23-Mar-19 A	12-Apr-19 A			oad Pavement an	nd Drainage next to Abutment (after comple	tion of NB73 Bay 12&13 Stem Wall)	
FHI-LR2-2050 Road	d Formation, Road Drainage and Pavement (SMH1302 - 1303 & MY2.4 - 2.5) at le	72	0	01-Mar-18 A	13-May-19 A		Road F	mation, Road Dr	rainage and Pavement (SMH1302 - 1303		
FHW-SG-103(Fabri	ication and Delivery of Sign Gantry DS11	99	0	28-Dec-17 A	18-May-19 A			abrication and De	elivery of Sign Gantry DS11		
FHW-SG-104(Erect	tion of Sign Gantry FADS11 and DS64 (include On-site Fabrication)	15	0	20-Apr-19 A	20-May-19 A	_			Erection of Sign Gantry FADS11 a	nd DS64 (include On-site Fabrication)	
Link Road 3 (near A	lbutment AD1)										
FHI-LR3-3020 Perm	nanent Fill Slope, Construction of Gullies and Profile Barriers	48	0	25-Apr-18 A	18-May-19 A			ermanent Fill Sldp	pe, Construction of Gullies and Profile Barr	ers	
FHI-LR3-3030 Road	d Pavement	1	0	02-Mar-19 A	04-Mar-19 A					 Road Pavement 	
	ar Civil Works for TCSS duct laying - along Link Road 3	25	0	02-Apr-19 A	30-Apr-19 A	_					- Other
		20	Ű	027071071	007011071						
Link Road 4 (near Al					1						
	d Formation, Road Drainage, TCSS ducting and Pavement	55	0	27-Nov-17 A	29-Apr-19 A		Road Formation, Road Dra	hage, TCSS ductir	ng and Pavement		
FHI-LR4-4040 Rema	aining Section of Carriageway connect to FLH	44	0	20-Mar-19 A	30-Apr-19 A					Remaining Section of	Carriagewa
/iaduct - Pavement, /	Street Furnitures, Lighting inside Internal Voids and Others										
	ar Street Furniture including Sign Gantry, NB, Handrail, traffic signs, etc, for Bridge A, and D	112	0	26-Feb-18 A	20-Apr-19 A		Other Street Furniture including Sign Ga				
	Pavement and Road Marking	12	0	01-Mar-19 A	19-Apr-19 A		Final Pavemen	and Road Markin	ng		
WSD Works											
DN450 Fire Mains (C	CHA)										
WA-1010c Pipe	Laying - CHA 38 - 1 13 (DN450) near Ext. TW SRW, 20m	11	102	16-Apr-18 A	18-Sep-19	106					_
WA-1020 Pipe	Laying - CHA 113 - 135 (DN450) near Ext. TW SRW, 20m	102	102	20-May-19*	18-Sep-19	191					
	Laying - CHA 135 - 160 (DN450) near Ext. TWSRW, 25m	19	102	18-Apr-18 A	18-Sep-19*	204					
			Act	ual Work					3-Mon	h Rolling Programme	
				maining Work			CEDD Contract No. CV/2012/09		Date Revisi	on Checked	Approv
				· ·			ang / Heung Yuen Wai BCP - Site Formatior	&	20-May-19 Revision 0	FC [ЭН
				nmary Bar tical Remaining	n Mort		Infrastructure Works, Contract 3				
			-		J VVOIK		3-Month Rolling Programme				
		•	♥ Mil	estone			R070Page 3 of 520-Ma	. 10	1 1	1	
				ject Baseline B			1070Page 3 01 520-Ma	y-19			

Activity ID	Activity Name	OD	RD Start	Finish	T	2019						
				17.1.10		Mar Apr May		Jun		Jul	Aug	
WA-1110a	Pipe Laying - CHA 185 - 228 (DN450) near Ext. TWSRW, 43m	24	24 20-May-19*	17-Jun-19	282			Pipe Laying - C	CHA 185-228 (DN	450) near Ext. TWSP	W, 43m	
WA-1130b	Pipe Laying - CHA 373 - 380 (DN450) near Ext. TWSRW, 7m	18	18 20-May-19*	10-Jun-19	275			Pipe Laying - CHA 373 -	380 (DN450) n ear	Ext. TWSRW, 7m		
WA-1130c	Pipe Laying - CHA 380 - 388 (DN450) near Ext. TW SRW, 8m	12	12 20-May-19*	01-Jun-19	281		Pipe Layi	ng - CHA 380 - 388 (DN450)	near Ext. TWSRV	V, 8m		
WA-3040	Pipe Laying - CHA 81 0 - 835 (DN450) along Ext. TWSRW SB, 25m (NBZ)	74	74 20-May-19*	15-Aug-19	219							
WA-3050	Pipe Laying - CHA 835 - 880 (DN450) along Ext. TWSRW SB, 45m (NBZ)	74	74 20-May-19*	15-Aug-19	219							
WA-3060	Pipe Laying - CHA 880 - 925 (DN450) along Ext. TWSRW SB, 45m (NBZ)	68	68 20-May-19*	08-Aug-19	123							
WA-3080	Pipe Laying - CHA 925 - 972 (DN450) along Ext. TWSRW SB (Stage 2), 47m (NBZ)	102	102 09-Aug-19*	09-Dec-19	123							
					281				for CHA (CHA 380			
WA-4200	Pressure Test for CHA (CHA 380 - 810)	13	13 03-Jun-19*	18-Jun-19	20			Pressure lest				
DN1200 Wate	er Mains (CHC)											
WC-1030	Construction of IT inspection tee chamber(s) near the Jacking Pits	47	47 10-May-18 A	15-Jul-19	259					Construction of	of IT inspection tee	
DN2200 Wate	r Mains (CHF)											
WF-4000	Modification of Existing DN2200 DAV Chamber at FLH NB near Kiu Tau Footbridge	35	35 20-May-19*	29-Jun-19	271				Modification of	Existing DN2200 DAV	Chamber at FLH N	
Existing Nam	(covered by VO no.50) Va Po Trunk Sewage Pumping Station (PST3)											
PS-1010	Construction of New Boundary Wall for Pumping Station (PST3)	80	74 25-Nov-16 A	15-Aug-19	232						<u> </u>	
		00	20100107	13740913	2.02							
	lignment of Tai Wo Service Road West (KD-7)											
TWSRW Zone	5 betweeen CH376 and CH520											
Construction	of Retaining Structures											
TWSRW-512	Kemaining works incl. railing, u-channel on top of Bored Pile Wall (wait for VO)	22	22 25-Jun-18 A	14-Jun-19	284			Remaining works in	nd railing, u-chani	nel on top of Bored Pi	e Wall (wait for VO)	
TWSRW-515	(Slope Works and Retaining Wall of FL-C2 (covered by VO183)	60	25 01-Dec-17 A	18-Jun-19	281			Slope Works		II of FL-C2 (covered b		
At-Grade Roa									J		,	
		45		10 1	0.00							
	¢ Retaining Wall RW9 - Bay 9002 & 9003 (covered by VO No.116)	45	26 05-Feb-16 A	19-Jun-19	280			Retaining W		02 & 9003 (covered b)		
TWSRW-512	20 Filling Works between Retaining Wall RW7 and RW8	192	39 07-Jun-16 A	05-Jul-19	267				Filling	Works between Retain	ing Wall RW7 and I	
TWSRW-512	CRoad Pavement and remaining works of Vehicular Access to Lot 81	27	27 12-Jul-18 A	20-Jun-19	264			Road Pav	ement and remain	ing works of Vehicular	Access to Lot 81, F	
TWSRW-516	Construction of Extended Podium near RW7 incl. filling works & slope protection	85	48 27-Oct-16 A	16-Jul-19	258				·	Construction	of Extended Podiu	
TWSRW-517	(covered by VO No.100) Construction of Pavilion (covered by VO No.137)	49	49 10-Aug-18 A	17-Jul-19	257					Constructio	n of Pavilion (cover	
TWSRW Zone	7 betweeen CH530 and CH640											
At-Grade Roa												
TWSRW-719	Remaining Road Drainage, Road Formation, Road Pavement and Footpath (incl. Zone 6 & Zone 7)	9 44	44 20-May-19*	11-Jul-19	246					Remaining Road Dr	ainage, Road Form	
TWSRW Zone	8 betweeen CH640 and CH695											
At-Grade Roa	dworks											
TWSRW-812	Remaining Road Drainage, Road Formation, Road Pavement and Footpath	60	60 20-May-19*	30-Jul-19	246						Remaining I	
Remainder of	the Works											
TW SRW-902	Filling Works to the abandoned section of TWSRW and modify existing sewerage	75	75 20-May-19*	16-Aug-19	231							
Utilities Laying	manhole											
ounies Layin												
				<u> </u>				3-Month Rolling Programme				
		Actual Work				CEDD Contract No. CV/2012/09	Dat		vision Checked		Approved	
Remaining Work					Liantang / Heung Yuen Wai BCP - Site Formation &	20-May			FC	DH		
Summary Bar					Infrastructure Works, Contract 3	Londy						
Critical Remaining Work			ng Work		3-Month Rolling Programme							
		• •	Milestone									
			Project Baseline B	Bar		3MPR070Page 4 of 520-May-19						
								1				

Activity ID	Activity Name	OD	RD	Start	Finish	TF			2019					
UU-1010A	Utilities Duct Laying in Area 1, Phase 2, CLP - 132kV(150mVA), approx.30m at interface	0 16	12	10-Jan-18 A	01-Jun-19	171	Mar Apr	Мау			lun		Jul	Aug
	section									Utilities Duct Layir	ng in Area 1, Phase 2,	GLP - 132kV(150r	mVA), approx.30m a	at interface section, L
UU-1010B	Utilities Duct Laying in Area 1, Phase 2, Towngas - DN600, approx.20m at interface section	58	58	22-Jul-19	27-Sep-19	171								
UU-1030	Utilities Duct Laying in Area 3, Phase 1 (along existing TWSRW, Approx. 150m) (by utilities undertakers)	7	7	20-May-19*	26-May-19	246			Utiliti	es Duct Laying in Area	a 3, Phase 1 (along ex	dsting TWSRW, Ap	oprox. 150m) (by uti	lities undertakers)
UU-1030A	Utilities Duct Laying in Area 3, Phase 2, CLP - 132kV(150mVA), approx. 30m	27	49	10-Jan-18 A	17-Jul-19	161							Utilities Duc	t Laying in Area 3, P
UU-1040A	Utilities Duct Laying in Area 4, Phase 2, Towngas - DN600 & DN400, approx. 50m (by their own TTA)	121	50	15-Sep-16 A	18-Jul-19	127							Utilities Du	ict Laying in Area 4,
UU-1040B	Utilities Duct Laying in Area 4, Phase 2, CLP - 132kV(150mVA), approx. 50m (by their own TTA)	33	33	19-Jul-19	26-Aug-19	127								
Switch-Over of	of Existing Utilitiess													
UU-SO-2520	Switch-over Works (CLP 11 kV)	16	16	20-May-19*	04-Jun-19	349				Switch-over V	Vorks (CLP 11 kV)			
UU-SO-3500	Switch-over Works (Towngas, DN4 00)	30	30	19-Jul-19*	17-Aug-19	275								
	ks for Noise Barrier along realigned TWSRW													
	Noise Barrier Steelworks & Panel for NB2 at Zone 5	15	15	21-Jun-19*	09-Jul-19	264						Net	ise Barrier Steelwork:	8 Daniel fax NDO a
		15	15	21-0011-19	09-00-19	204							ISE Damer Steework:	
	4B - Realignment of Tai Wo Service Road East (KD-13& KD-14)													
TWSRE Zone 1	between CH100 and CH270													
At-Grade Roa	dworks													
TWSRE-1190	Drainage Works on Permanent Cycle Track (under VO159)	80	0	15-Jan-18 A	20-Mar-19 A		Drainage Works on Permanent Cycle Track (under VO1	9)						
TWSRE Zone 2	between CH270 and CH380													
At-Grade Roa	dworks													
TWSRE-2120	Road Pavement on Permanent Cycle Track	33	0	22-Mar-19 A	12-Apr-19 A						_			
TWSRE Zone 3	between CH380 and CH456													
At-Grade Roa														
					1	_								
	Road Pavement on Permanent Cycle Track	40	0	21-Mar-19 A	19-Apr-19 A					Roa	ad Pavement on Perm	nanent Cycle Track		
Remaining Wol	rks for Noise Barrier along realigned TWSR East													
TWSRE-NB-12	2 Installation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m)	35	0	09-Jun-17 A	10-Apr-19 A		Installation of Steelwork 8	Transparent Panel - Noise Ba	arrier NB3 (254m)					
Landscaping &	& Establishment Works (KD-4, 4A, 5, 5A, 6)													
Secton 3A - La	ndscaping Softworks in NBZ1													
S3A-1000	Transplant and Landscaping Softworks in NBZ1	50	0	14-Feb-19 A	29-Mar-19 A						Transpla	nt and Landscapin	ig Softworks in NBZ	1
Secton 3 - Ren	ainder of Landscaping Softworks Not Included in Secton 3A													
S3-1000	Transplant and Landscaping Softworks on At grade Road	131	0	26-Mar-18 A	14-May-19 A			Trans	ant and Lands	aping Softworks on A	t grade Boad			
	tablishment Works for Landscape Softworks under Section 3A							haite			a glado i load			
		005	005	00.14	40.14-000	000								
S4A-1000	Establishment Works at NBZ1	365	365	23-Mar-19 A	18-May-20	-260								
	blishment Works for Landscape Softworks under Section 3													
S4-1000	Establishment Works for Remaining Part of Site	365	365	13-Mar-19 A	18-May-20	-258								
Section 5: Pres	ervation and Protection of Trees													
S5-1000	Preservation and Protection of Trees	0	0		20-May-19	-82			Preservation a	nd Protection of Trees	S			
		1						i	I			I		:
		Actual Work					CEDD Contract No. CV/20		3-Mon	Month Rolling Programme				
		Remaining Work Summary Bar Critical Remaining Work Milestone					Liantang / Heung Yuen Wai BCP - Si	Date	Revisi		Checked	Approved		
								20-May-19	Revision 0		FC	DH		
					na Work		Infrastructure Works, Contract 3 3-Month Rolling Programme							
					J									
		-		ject Baseline E	Bar		3MPR070Page 5 of 5	20-Ma	y-19					
			FIQ											<u> </u>
										I				



Appendix B Project Organization Structure





Appendix C Calibration Certificates of Monitoring Equipment



Enovative Environmental Service Limited

REPORT OF EQUIPMENT CALIBRATION

INSTRUMENT DESCRIPTION

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler and the filter paper is weighted by HOKLAS laboratory.

Instrument:Handheld TSP meterBrand Name:TSIModel No.:AM520Serial No.:5201735006Date of Calibration:01 August, 2019Date of Next Calibration : 01 August, 2020

ISSUING ORGANISATION

Phone:

Email:

Fax:

Address

Enovative Environmental Service Limited

Flat 23, 6/F, Block C, Goldfield Industrial Centre 1 Sui Wo Road Shatin, N.T. Hong Kong 852-2242 1020 852-3691 9240 info@eno.com.hk

homas

Mr Wong Siu Ho, Thomas Manager

Page 1 of 2

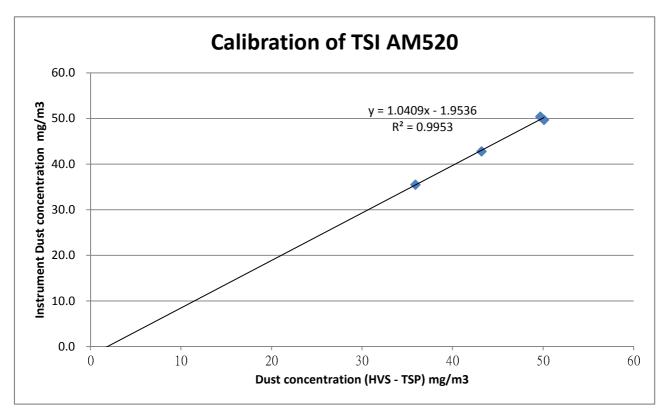


Enovative Environmental Service Limited

Brand Name:	TSI
Model No.:	AM520
Serial No.:	5201735006
HVS No.:	A12-TSP-102
HVS Calibration Kit No.:	Tisch 1612
Date of Calibration:	01 August, 2019
Date of next Calibration:	01 August, 2020

Calibration Record

HVS - TSP mg/m3	35.9	43.2	50.1	49.7
TSI AM520	35.5	42.8	49.7	50.4



*** Filter paper being used in the calibration : 203475, 203476, 206020, 206603 Those filter papers are weighted by HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.)

homas

Mr Wong Siu Ho, Thomas Manager

Page 2 of 2



.

Calibration Certificate

Certificate No.	903414		Page	1 of 2	Pages
Customer :	Enovative Environmental Service	e Limited			
Address :	Flat 6, 3/F, Block E, Wah Lok Indust	trial Centre, 31-35 Sha	an Mei Street, Shat	tin, N.T., Hong	Kong.
Order No. :	Q91328		Date of receipt	:	4-Apr-19
Item Tested					
Manufacturer :	Sound Level Calibrator Rion NC-74		l.D. Serial No.	: 217656 : 3467850	06
Test Conditi	ons				
Date of Test : Ambient Temp	11-Apr-19		Supply Voltage Relative Humid) %
Test Specific	cations				
Calibration chec Ref. Document/	k. Procedure : F21, Z02.				
Test Results	3				
All results were	within the IEC 60942 Class 1 spe	ecifications.			
	shown in the attached page(s).				
Main Test equip	ment used:				
Equipment No.		Cert. No.		Traceable to	-
S014	Spectrum Analyzer	805025		NIM-PRC &	SCL-HKSAR
S240	Sound Level Calibrator	803357		NIM-PRC &	SCL-HKSAR
S041	Universal Counter	902477		SCL-HKSAF	2
S206	Sound Level Meter	805027		SCL-HKSAF	2
will not include allow overloading, mis-ha for any loss or dam The test equipment	this Calibration Certificate only relate to wance for the equipment long term drift, v andling, or the capability of any other labor age resulting from the use of the equipm to used for calibration are traceable to Inter only to the above Unit-Under-Test only Elva Chong	variations with environme oratory to repeat the mea ent. rnational System of Unit	ental changes, vibrations vibrations (SI), or by references (SI), or	on and shock dung Calibration Lto	ring transportation, d. shall not be liable
Hong Kong Calibration Lt	d.	vai Chung, NT Hong Kong			

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. 903414

Page 2 of 2 Pages

Results :

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94.0	94.1	\pm 0.4 dB

Uncertainty : $\pm 0.2 \text{ dB}$

 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	1.001	± 1 %

Uncertainty : \pm 3.6 x 10 ⁻⁶

 Total Distortion : < 1.1 % IEC 60942 Class 1 Spec. : < 4 % 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 : 996 hPa.

----- END -----

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Calibration Certificate

Certificate No.	903412		Page	1 of 3	Pages
Customer :	Enovative Environmental Service	Limited			
Address : F	Flat 6, 3/F, Block E, Wah Lok Industr	rial Centre, 31-35 Sha	an Mei Street, Shat	in, N.T., Hong	g Kong.
Order No. :	Q91328		Date of receipt	:	4-Apr-19
Item Tested					
Description :	Sound Level Meter				
Manufacturer :	Rion		I.D.	: 217524	
Model :	NL-52		Serial No.	: 001755	60
Test Conditio	ons				
Date of Test :	11-Apr-19		Supply Voltage	:	
Ambient Tempe			Relative Humid	ity: (50 ± 2	5) %
Test Specific	ations				
Calibration checl Ref. Document/F	k. Procedure: Z01, IEC 61672.				
Test Results					
	within the IEC 61672 Type 1 or m shown in the attached page(s).	anufacturer's spec	ification.		
Main Test equip	ment used:				•
Equipment No.		<u>Cert. No.</u>		Traceable t	<u>o</u>
	Multi-Function Generator	C190926		SCL-HKSA	R
S240	Sound Level Calibrator	803357		NIM-PRC 8	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable 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

~ 1			\square	,
Calibrated by :	Appro	ved by :	(AA)	
Elva Chong			Kin Wong	
This Certificate is issued by:	Date:	11-Apr-19		
Hong Kong Calibration Ltd.				
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong K	ong.			
Tel: 2425 8801 Fax: 2425 8646				



Calibration Certificate

Certificate No. 903412

Page 2 of 3 Pages

Results :

.

Acoustical signal test

1. Self-generated noise: 16.2 dBA (Mfr's Spec \leq 17 dBA)

2. Reference Sound Pressure Level

	UUT S				
	Frequency	Time	Octave	Applied	UUT
Range (dB)	Weighting	Weighting	Filter	Value (dB)	Reading (dB)
20~130	A	F	OFF	94.0	94.1
		S	OFF		94.1
С		F	OFF		94.1
	Z	F	OFF		94.2
	A	F	OFF	114.0	114.1
C		S	OFF		114.1
		F	OFF		114.1
	Z	F	OFF		114.2

IEC 61672 Type 1 Spec. : \pm 1.1 dB Uncertainty : \pm 0.1 dB

Electrical signal tests

3. Electrical signal tests of frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.6	- 39.4 dB, ± 2 dB
63 Hz	-26.1	- 26.2 dB, ± 1.5 dB
125 Hz	-16.1	- 16.1 dB, ± 1.5 dB
250 Hz	-8.6	- 8.6 dB, ± 1 dB
500 Hz	-3.2	- $3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.1	$+$ 1.2 dB, \pm 1.6 dB
4 kHz	+0.7	$+$ 1.0 dB, \pm 1.6 dB
8 kHz	-1.1	- 1.1 dB , + $2.1 \text{ dB} \sim -3.1 \text{ dB}$
16 kHz	-8.5	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

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

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Calibration Certificate

Certificate No. 903412

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

III IIoquonoj				
UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
A	94.0	94.0 (Ref.)		± 0.4 dB
С	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
Fast	94.0	94.0 (Ref.)		$\pm 0.3 \text{ dB}$
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

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

1

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 996 hPa.
- 4. Preamplifier model : NH-25, S/N : 65662
- 5. Firmware Version: 1.8
- 6. Power Supply Check: OK
- 7. The UUT was adjusted with the supplied 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 March 2020

	March 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
1	2	3	4 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	5 ET Site Walk(09:30am – 11:00am)	6	7	
8	9	10 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	11	12 ET Site Walk(09:30am – 11:00am)	13	14	
15	16 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	17	18	19 ET Site Walk(09:30am – 11:00am)	20 24-hour TSP + 3 x 1-hour TSP	21	
22	23	24	25 ET Site Walk(09:30 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC	26 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	27	28	
29	30	31		1	I	1	

Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling Stage 2 Impact Monitoring & Site Auditing Schedule for April 2020

	April 2020									
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
			1	2 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	3 ET Site Walk(1:30pm – 3:30pm)	4 Ching Ming Festival				
5	6	7	8	9 ET Site Walk(1:30pm – 3:30pm) 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	10 Good Friday	11 The Day Following Good Friday				
12	13 Easter Monday	14	15	16 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	17 ET Site Walk(1:30pm – 3:30pm)	18				
19	20	21	22 ET Site Walk(09:45 am – 11:00 am) with Liantang Project-wide ET and IEC + SSEMC	23 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)	24	25				
26	27	28	29	30 ET Site Walk(1:30pm – 3:30pm) 24-hour TSP + 3 x 1-hour TSP, Noise (SR77)						



Appendix E Meteorological Data Extracted from Hong Kong Observatory

Daliy Extract of Meteorological Observations, March 2020

Date March	Number of hours of Reduced Visibility [#] (hours)	Total Bright Sunshine (hours)	Daily Global Solar Radiation (MJ/m ²)	Total Evaporation (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
1	0	10.0	20.07	3.8	220	7.1
2	0	-	2.29	2.0	070	36.6
3	0	0.4	8.57	2.0	060	30.8
4	0	-	5.16	1.2	040	23.5
5	0	3.4	10.41	2.3	060	36.2
6	0	1.8	10.88	1.7	070	33.5
7	0	2.2	13.69	1.8	030	13.4
8	0	0.4	6.91	1.3	050	15.5
9	0	1.3	9.06	1.7	050	10.1
10	0	8.5	17.91	5.9	360	28.6
11	0	0.9	7.67	1.9	060	37.3
12	1	-	6.54	0.9	040	23.4
13	0	3.4	14.25	2.5	020	13.6
14	0	7.3	17.53	4.3	360	25.0
15	0	5.4	13.55	3.5	080	23.2
16	0	8.1	19.29	3.8	060	33.2
17	0	0.6	5.84	1.8	040	24.8
18	0	-	3.65	0.6	030	18.1
19	0	0.3	4.92	0.6	020	13.5
20	0	0.2	7.22	1.2	020	17.5
21	0	0.4	5.35	0.6	010	14.9
22	0	9.7	22.25	3.3	020	8.6
23	0	10.7	23.50	5.0	230	15.3
24	0	6.3	18.07	3.9	080	27.1
25	0	4.3	14.15	2.4	070	22.6
26	0	2.9	10.34	1.7	050	15.1
27	0	5.9	15.84	2.1	030	12.0
28	0	1.6	6.47	1.6	070	18.1
29	0	0.2	4.77	0.8	080	43.5
30	1	-	2.94	0.7	030	25.4
31	3	-	3.21	0.6	030	22.0
Mean/Total	5	96.2	10.72	67.5	060	22.2
Normal*	104.1§	90.8	9.96	70.5	060	23.0
Station	Hong Kong International Airport		King's Park	Waglan	Island^	

EXTRACT OF METEOROLOGICAL OBSERVATIONS FOR HONG KONG, MARCH 2020 (Table 2)



Appendix F Air Quality Monitoring Results and their Graphical Presentation

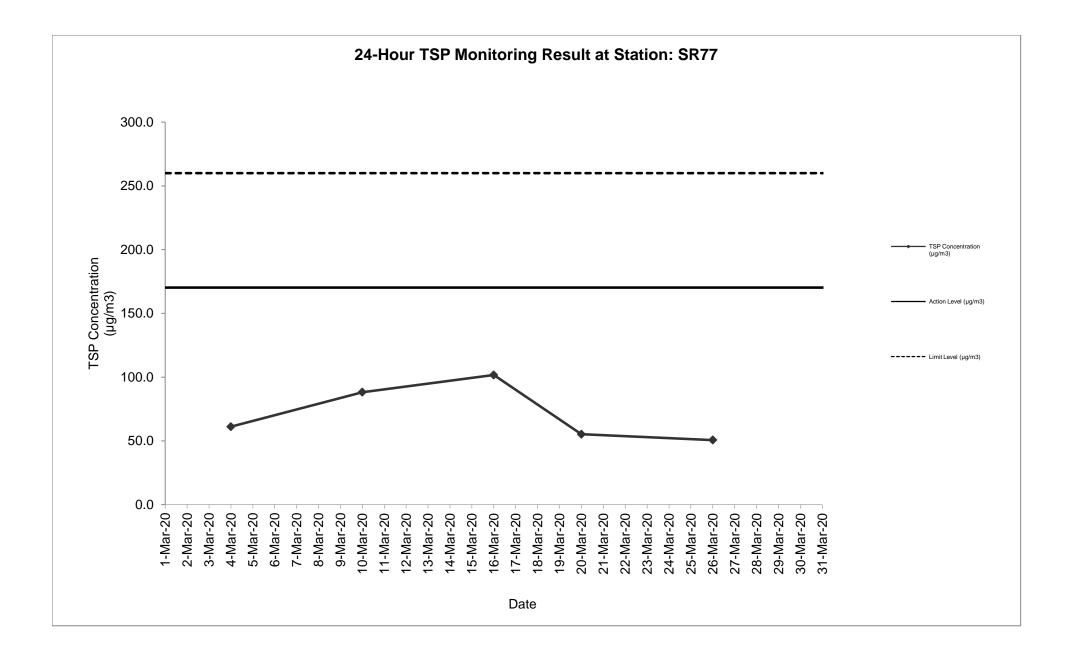
Sampling Date	Weather Condition	Starting Time	Paper No.		Wt. of paper	. (g)		Elapse Ti	me	Flo	ow Rate (C	FM)	Flov	w Rate (m ³	/min)	Total Volume	TSP Concentration	Action Level	Limit Level	Wind speed	Wind direction	NOE	IR
Date	Condition	Time		Initial W	t. Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(µg/m³)	(µg/m3)	(µg/m3)	m/s	direction		
4-Mar-20	Cloudy	13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61.1	170.3	260.0	<5	N		
10-Mar-20	Sunny	13:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88.2	170.3	260.0	<5	N		
16-Mar-20	Sunny	13:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101.7	170.3	260.0	<5	N		
20-Mar-20	Fine	13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55.2	170.3	260.0	<5	N		
26-Mar-20	Cloudy	13:45	-	-	-	-	-	-	-	-	-	-	-	-	-		50.6	170.3	260.0	<5	N		
																Average	71.4						
																Min	50.6						
																Max	101.7						

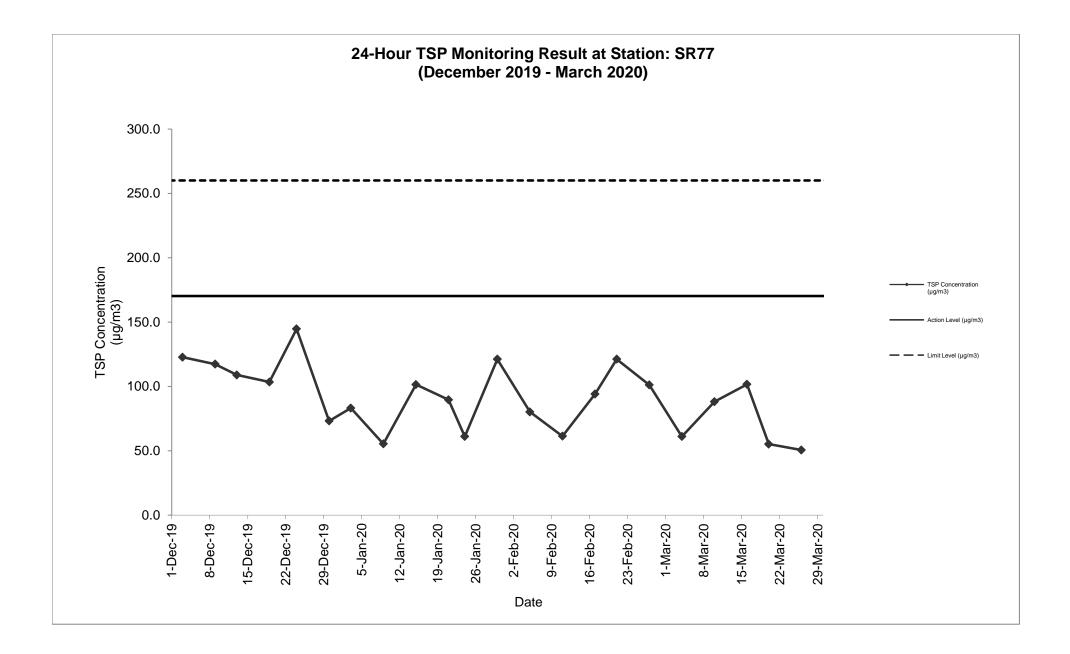
24-Hour TSP Monitoring Result at Station: SR77

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 The electricity supply of HVS at AM1(SR77) was suspended from 16 May 2019 and was no longer available. In order to have a more secure electricity supply, an alternative Handheld TSP meter was proposed to use for the temporary monitoring of 24-hr & 1hr air quality from 22 May 2019.





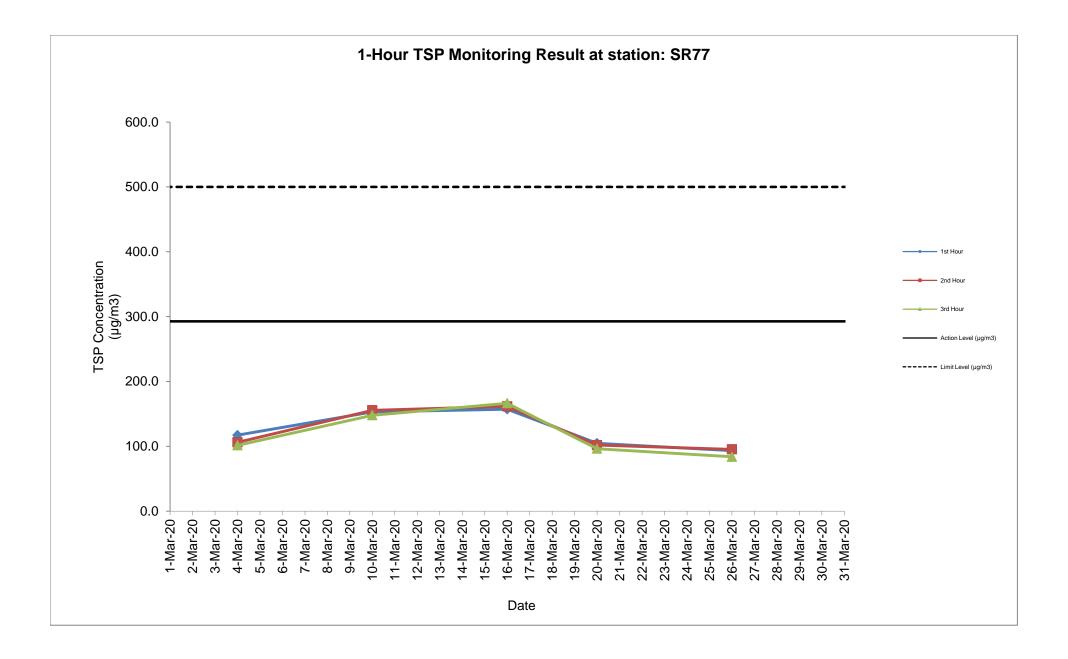
Appendix E

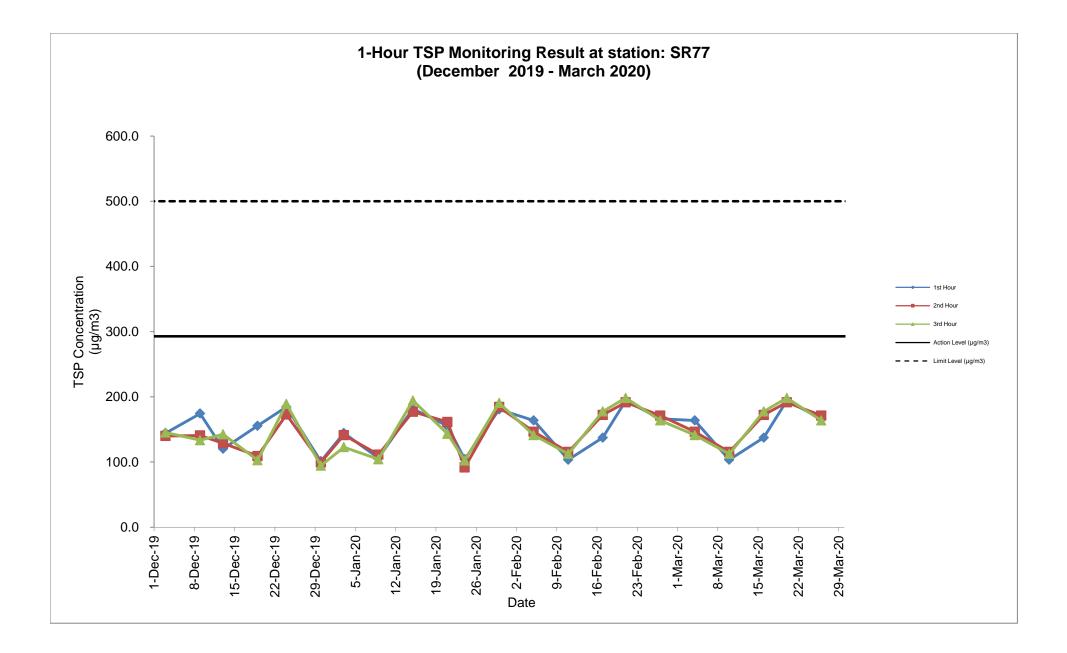
Air Quality Monitoring Results and their Graphical Presentation

Date	Weather	Weather Time				Conc.(µg/m ³	Action Level	Limit Level		
Dale	Condition		Time		1 st Hour	1 st Hour 2 nd Hour		(µg/m3)	(µg/m3)	
4-Mar-20	Cloudy	10:00	-	13:30	117.2	106.2	101.4	292.7	500.0	
10-Mar-20	Sunny	10:30	-	13:30	153.0	155.5	147.9	292.7	500.0	
16-Mar-20	Sunny	10:30	-	13:00	157.1	161.5	166.4	292.7	500.0	
20-Mar-20	Fine	10:00	-	13:30	104.7	101.8	96.4	292.7	500.0	
26-Mar-20	Cloudy	10:45	-	13:30	93.3	95.3	83.9	292.7	500.0	
						Average	122.8			
						Min	83.9			
						Max	166.4			

1-Hour TSP Monitoring Result at Station: SR77

Note:No major dust source observed during the monitoring periodData in Bold denotes exceedance 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 sampling day	 Identify source; Inform IEC and ER; 	 Check monitoring data submitted by ET; 	1. Notify Contractor.	1. Rectify any unacceptable practice;
Sampling day	 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	 Repeat measurements to confirm findings; 	 Check Contractor's working method; 	 Notify Contractor; Ensure remedial measures 	days of notification;2. Implement the agreed proposals;
	 Increase monitoring frequency to daily; 	 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 netification; 										
	 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.	days of notification;3. Implement the agreed proposals;4. 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by ER until the exceedance is abated. 										

Event 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
	 Check monitoring data, all plant, equipment & Contractor's working methods; 	accordingly;	measures.	 methods; 4. Submit proposal of mitigation measures to ER within 3 working down of patitionation 2 discuss with
	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;	 measures; 4. 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

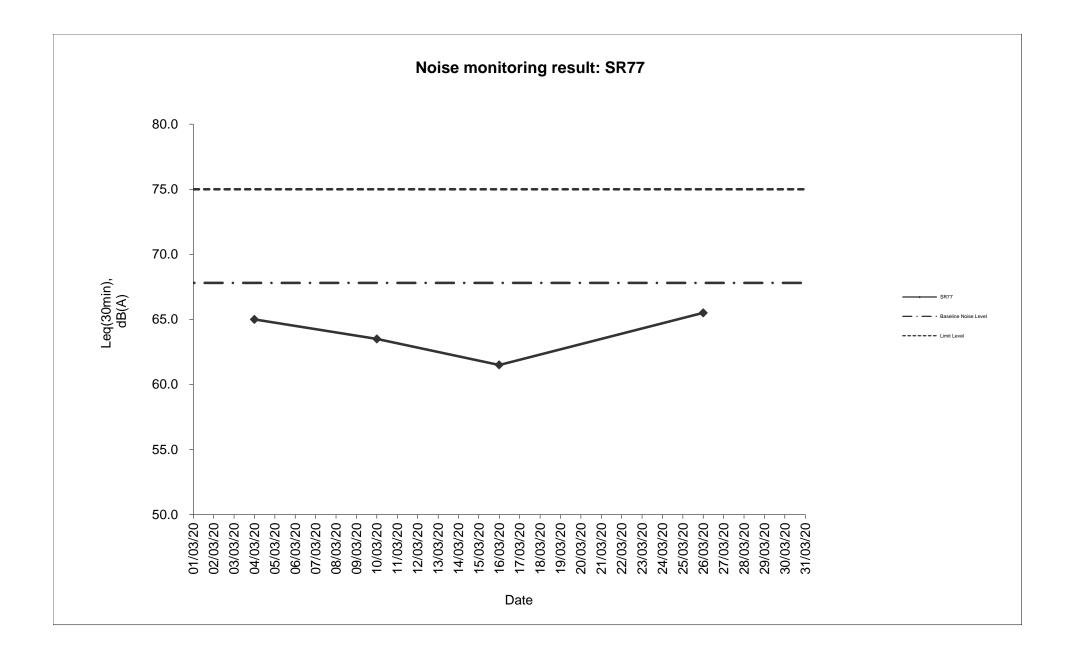
Date	Weather	Start	End	Measured Noise Level (dB(/		(dB(A))*	Baseline Corrected	Baseline Noise Level	Limit Level
	Condition	Time	Time	L10(30min)	L90(30min)	Leq(30min)	Level, dB(A)**	(dB(A)), Leq(30min)	dB(A)
2020-03-04	Cloudy	11:15	11:45	91.5	61.5	65.0	-	67.8	75.0
2020-03-10	Sunny	11:15	11:45	92.0	58.5	63.5	-	67.8	75.0
2020-03-16	Sunny	11:15	11:45	98.5	56.5	61.5	-	67.8	75.0
2020-03-26	Cloudy	11:15	11:45	93.0	57.5	65.5	-	67.8	75.0
					Average	63.9			
					Minimum	61.5			
					Maximum	65.5			

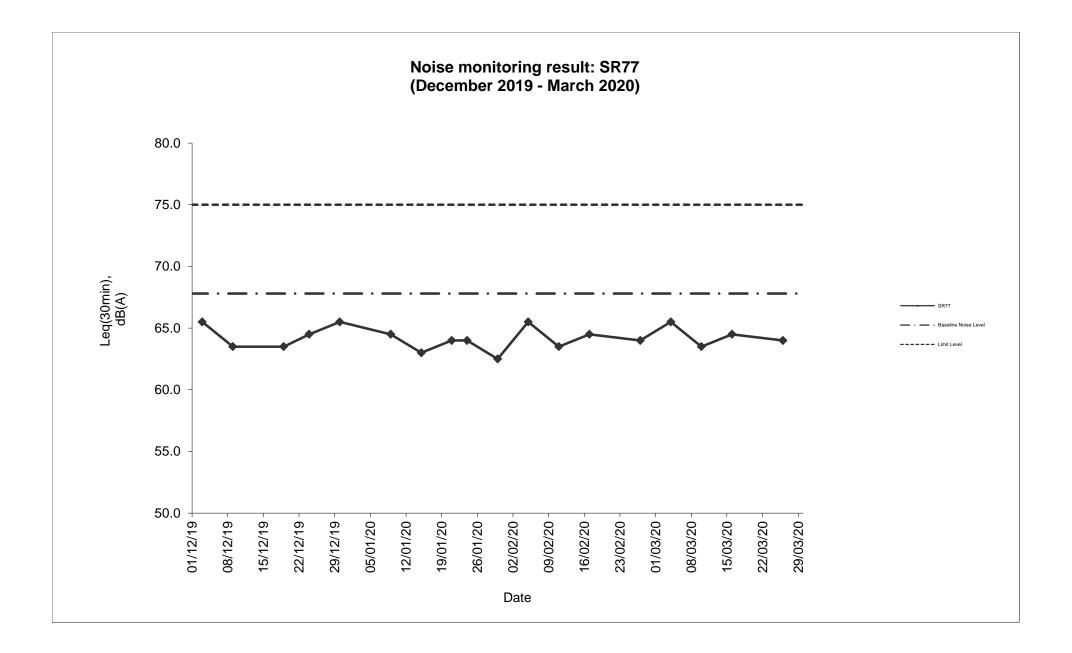
Remarks

* +3dB(A) Façade effect correction included

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

*** Data in **Bold Underline** denotes exceedance of respective Limit Level







Appendix K Waste Flow Table

Monthly Summary Waste Flow Table for Year 2020

		Actual C	Quantities of In-	ert C&D Materi	als 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 m ³)	(in '000m ³)							
Jan-19	0.280	-	0.280	-	-	0.280	-	-	-	-	-	0.015
Feb-19	0.069	-	0.069	-	-	0.069	-	-	-	-	-	0.020
Mar-19	0.089	-	0.089	-	-	0.089	-	-	-	-	-	0.025
Apr-19												
May-19												
Jun-19												
Sub-Total	0.438	-	0.438	-	-	0.438	-	-	-	-	-	0.060
Jul-19												
Aug-19												
Sep-19												
Oct-19												
Nov-19												
Dec-19												
Total	-	-	-	-	-	-	-	-	-	-	-	-

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 $7,850 \text{ kg/m}^3$.

8. Assume the density of plastic is 941 kg/m³.

9. Assume the density of paper is 800 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.			\checkmark
	• 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.			✓
	• Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.			\checkmark
	• 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			I	
Noise during Construction	• Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During Construction	Contractor	 ✓
	Reduce the number of equipment and their percentage on-time.			\checkmark
Noise during Operation	Not required	N/A	N/A	N/A
Water Quality			I	
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	✓



	• Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.			\checkmark
	• 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.			✓
	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				
Waste Management during Construction	General Waste			
Construction	Transport of wastes off site as soon as possible.	During Construction	Contractor	~
	Maintenance of accurate waste records.			✓
	• Minimisation of waste generation for disposal (via reduction/recycling/re-use).			✓
	No on-site burning will be permitted.			\checkmark
	Use of re-useable metal hoardings/signboards.			\checkmark
	Vegetation from site clearance			
	 Segregation of materials to facilitate disposal. 	During Construction	Contractor	\checkmark
	• Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.			✓
	Demolition Wastes			
	Segregation of materials to facilitate disposal.	During Construction	Contractor	*



Appropriate stockpile management.			√
Excavated Materials			
 Segregation of materials to facilitate disposal / reuse. 	During Construction	Contractor	~
Appropriate stockpile management.			~
 Re-use of excavated material on or off site (where possible). 			✓
• Special handling and disposal procedures in the event that contaminated materials are excavated.			N/A
Construction Wastes			
• Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).	During Construction	Contractor	✓
Appropriate stockpile management.			~
 Planning to reduce over ordering and waste generation. 			✓
 Recycling and re-use of materials where possible (e.g. metal, wood from formwork) 			✓
• For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.			✓
Bentonite Slurries			
 Bentonite slurries should be reused as far as possible. 	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.			✓
• A spill response procedure shall be in place and absorption material available for minor spillages.			×
 Use appropriate and labelled containers. 			\checkmark

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



	 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.			\checkmark
	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.			✓
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	✓
	• all temporary site access roads shall be sprayed with water to suppress dust as necessary;			✓
	 all dusty materials should be sprayed with water immediately prior to any handling; and 			✓
	• all debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.			✓



	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 			\checkmark
	• 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		1	I	
Landscape and Visual during Construction	Preservation of Existing Vegetation			
Construction	• 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			✓
	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.	
C171228	28 December, 2017	1823	Kau Lung Hang and Hong Lok Yuen	Air quality issue nearby Kau Lung Hang and Hong Lok Yuen area. Stockpiling within the Project area was observed to be uncovered, causing dust dispersion within the area. (大埔 九龍坑附近的空氣污 染問題嚴重。吐露港 公路蓮塘口岸隧道工 程經常見到沙泥沒有 覆蓋,導致沙土飛揚 散佈九龍坑,康樂園 一帶,造成極大困擾 與明顯健康風險。要 求立即改善,懲罰相	The Environmental Team (ET) was informed of the complaint through Chun Wo and CEDD via 1823 online- enquiry/ complaint form received on 28 December 2017 at 9:04am. Investigation was triggered in accordance with the procedures as specified in Section 7.3 of the EM&A Manual. A joint investigation by the ET and the IEC was conducted on 28 December 2017. As advised by the Contractor, no construction works were carried out during the public holiday. No exceedance of TSP level at the air monitoring station under this Contract was recorded in the past six months except 8 December 2017.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				關建築商。附圖是該 區狀況。昨日洗車, 一日已經沙塵滿佈。)	Exceedance on 8 December 2017 was considered not project related as no major excavation works located close to the monitoring location at SR77. Based on the routine environmental site inspection and information provided by the Contractor, it is considered that dust suppression measures have been implemented to minimize dust nuisance arising from the works areas. Nonetheless, the ET and IEC will continue the auditing and reviewing of the Contractor's implementation of mitigation measures during the construction period.	



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