

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

Quarterly EM&A Report

Feb 2019 to Apr 2019

Submitted to

Environmental Protection Department

Prepared By

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**

Quarterly EM&A Report

(Feb 2019 to Apr 2019)

Certified by: Fredrick Leong 

Position: Environmental Team Leader

Date: 20 May 2019

Hyder-Arup-Black & Veatch Joint Venture
c/o Arcadis
17/F, Two Harbour Square,
180 Wai Yip Street,
Kwun Tong, Hong Kong
Attn: **Mr. James Penny**

Your Reference

Our Reference

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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 Quarterly EM&A Summary Report for February 2019 to April 2019 for the portion of Stage 2 works entrusted to CEDD under Contract No. CV/2012/09

20 May 2019

By Fax (2805 5028) & Hand

We refer to the revised Quarterly EM&A Summary Report for February 2019 to April 2019 for the Project received on 17 May 2019 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c.

HyD
CEDD/BCP
AECOM
Meinhardt

Mr. Chung Lok Chin
Mr. Lu Pei Yu
Mr. Alan Lee
Mr. Fredrick Leong

By Fax (2116 0714)
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Date	Revision	Prepared By	Checked By	Approved By
20 May 2019	0	WK CHIU Bobo HUI	Fredrick LEONG	Helen COCHRANE

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EXECUTIVE SUMMARY

This report documents the findings of EM&A works conducted in the quarter between 1 Nov 2018 and 31 Jan 2019.

The impact stage EM&A programme for the Project includes air quality and noise monitoring.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the civil works contractors where appropriate in the reporting quarter.

In the reporting quarter, no exceedance event was recorded. No necessary remedial actions have been taken.

No environmental non-compliance was recorded in the reporting quarter. No environmental complaint was received in the reporting quarter. No environmental related prosecution or notification of summons was received in the reporting quarter.

The box culvert works have been partially completed by the end of March 2014 except the last construction activity, installation of a base slab at Box Culvert ID4. The installation of the base slab at Box Culvert ID4 was commenced in December 2016 and has been completed in March 2017.

The 4-week post construction water quality monitoring has been commenced and completed in April 2017.

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. The EM&A monitoring and audit works will be carried until the termination proposal is approved.

1 INTRODUCTION AND PROJECT INFORMATION

1.1 Background

- 1.1.1 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.
- 1.1.2 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/D in accordance with the Updated EM&A Manual (dated March 2015) for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2. The EM&A programme commenced in 5 November 2013.
- 1.1.3 **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.

1.2 Construction Programme and Activities

- 1.2.1 The construction programme is presented in **Appendix A**. The remaining construction activities undertaken in the reporting quarter are summarized below:
- Road Pavement Works;
 - Water Main Laying Works;
 - Road Drainage Works;
 - Construction of Police Observation Platform on the Northbound Fanling Highway;
and
 - Remaining Works of Kiu Tau Footbridge.

2 Project Organisation

- 2.1.1 The project organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project, together with the general enquiry hotline, are summarised in **Table 2.1**.

Table 2.1 Contact Information of Key Personnel

Party	Role	Position	Name	Telephone	Fax
AECOM	Engineer's Representative	Senior Resident Engineer	Mr. Alan Lee	2171 3303	2171 3498
		Resident Engineer (Environmental)	Mr. Perry Yam	2171 3350	
Mott MacDonald	Independent Environmental Checker (IEC)	IEC	Mr. Steven Tang	2828 5920	2827 1823
Chun Wo	Contractor	Site Agent	Mr. Daniel Ho	2638 6144	2638 7077
		Environmental Officer	Mr. Yang Ran	26386147	
		Environmental Supervisor	Mr. Franki Leung	2638 7005	
Meinhardt	Environmental Team (ET)	ET Leader	Mr. Fredrick Leong	2859 1739	2540 1580
Enquiry Hotline	General Enquiry	--	Ms Helena Mak	6355 1731	--

2.2 Purpose of the Report

2.2.1 This is the Quarterly EM&A Report which summaries the impact monitoring results and audit findings for the Project during the reporting period between 1 Feb 2019 and 30 Apr 2019.

3 SUMMARY OF EM&A REQUIREMENTS

3.1 Monitoring Requirements

3.1.1 In accordance with the Updated EM&A Manual, environmental parameters including Air Quality and Noise have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit Levels are given in **Table 3.1** and the location of the monitoring station is shown in the **Figure 2**.

Table 3.1 Monitoring Parameter

Parameter	Unit	Action Level	Limit Level	Frequency
Air Quality				
1-hour TSP	µg/m ³	292.7	500	Three times every 6 days
24-hour TSP	µg/m ³	170.3	260	Once every 6 days
Construction Noise				
Leq 30min	dB(A)	When one documented valid complaint is received	75	Once every Week

Temporary Suspension of Box Culvert Works and Water Quality Monitoring

3.1.2 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.

3.2 Environmental Mitigation Measures

3.2.1 Environmental mitigation measures have been recommended in the EM&A Manual and are given in **Appendix C**. The implementation status for the reporting quarter is also given in the Appendix.

4 SUMMARY OF EM&A MONITORING DATA

4.1 Monitoring Data

4.1.1 Monitoring has been conducted in accordance with the specification in the EM&A Manual in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and are given in **Appendix D**. Monitoring data with graphical presentation for the reporting quarter have been given in **Appendix E**. A summary on the monitoring results has also been given in **Table 4.1**.

Table 4.1 Summary of Monitoring Data in the Reporting Quarter

Monitoring Location	Minimum	Maximum	Average
Air Quality			
1 hour Total Suspended Particulate			
SR77	78.5µg/m ³	219.3µg/m ³	152.8µg/m ³
24 hour Total Suspended Particulate			
SR77	19.1µg/m ³	69.3µg/m ³	51.1 µg/m ³
Construction Noise			
SR77	63.5dB(A)	68.0dB(A)	66.3dB(A)

4.2 Summary of Monitoring Exceedances

4.2.1 The number of exceedances event recorded in the reporting quarter is summarized in **Table 4.2**.

Table 4.2 Summary of Exceedance Events in the Reporting Quarter

Parameter	Criteria	Number of Exceedances Events	Number of Project Related Exceedance Events
Air Quality			
1-hour Total Suspended Particulates	Action Level	0	0
	Limit Level	0	0
24-hour Total Suspended Particulates	Action Level	0	0
	Limit Level	0	0
Construction Noise			
Leq 30min	Action Level	0	0
	Limit Level	0	0
	Limit Level	0	0

4.2.2 No exceedance of Action Level and Limit level for 1-hour TSP and 24-hour TSP monitoring were recorded at SR77 in the reporting quarter.

4.2.3 No exceedance of noise monitoring was recorded at SR77 in the reporting quarter.

4.2.4 The Contractor has been reminded to strengthen the mitigation measures including:

Water Quality

- All wastewater/ rainwater shall be treated properly prior to discharge in accordance with WPCO License.

5 WASTE MANAGEMENT

- 5.1.1 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.
- 5.1.2 During the reporting quarter, a total of 10592m³ of excavated material has been generated. 9232m³ of inert C&D materials was disposed of at public fill to Tuen Mun Area 38, while 0m³ of inert C&D materials was reused on site. 295m³ of general refuse was disposed of at North East New Territories (NENT) Landfill. No plastics and no paper/cardboard packaging were collected by recycling contractor in the reporting quarter. No metals were collected by recycling contractor in the reporting quarter. No chemical waste was collected by licensed contractor in the reporting quarter. Details of the waste management data are presented in **Appendix F**.

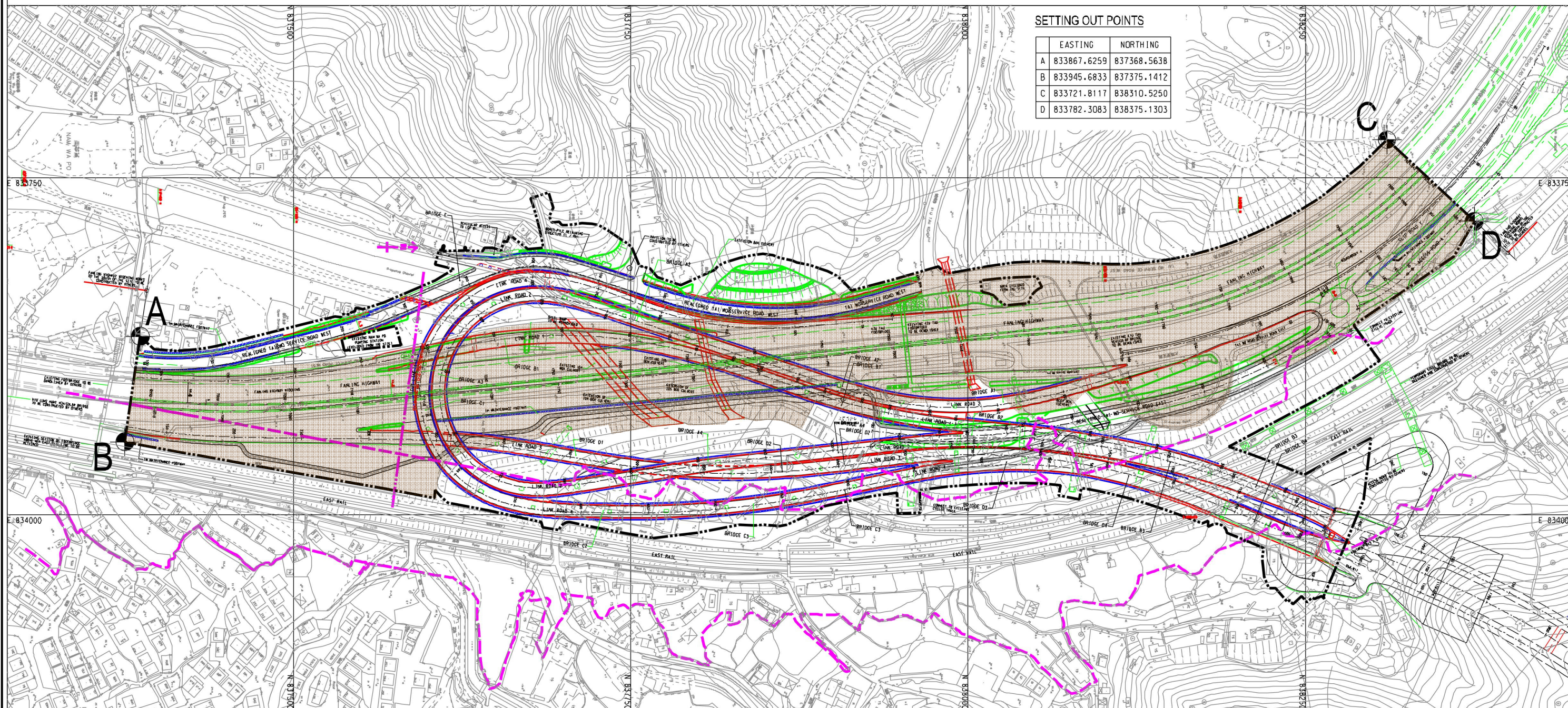
6 ENVIRONMENTAL NON-CONFORMANCE

- 6.1.1 No environmental non-compliance was recorded in the reporting quarter. No environmental complaint was received. No environmental related prosecution or notification of summons was received in the reporting quarter. The summary for the non-compliance, complaints and prosecutions is provided in **Appendix G**.

7 CONCLUSION, COMMENTS AND RECOMMENDATIONS

- 7.1.1 The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the civil works contractors where appropriate in the reporting quarter.
- 7.1.2 In the reporting quarter, no exceedance event was recorded.
- 7.1.3 No environmental non-compliance was recorded in the reporting quarter. No environmental complaints were received in the reporting quarter. No environmental related prosecution or notification of summons was received in the reporting quarter.
- 7.1.4 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.

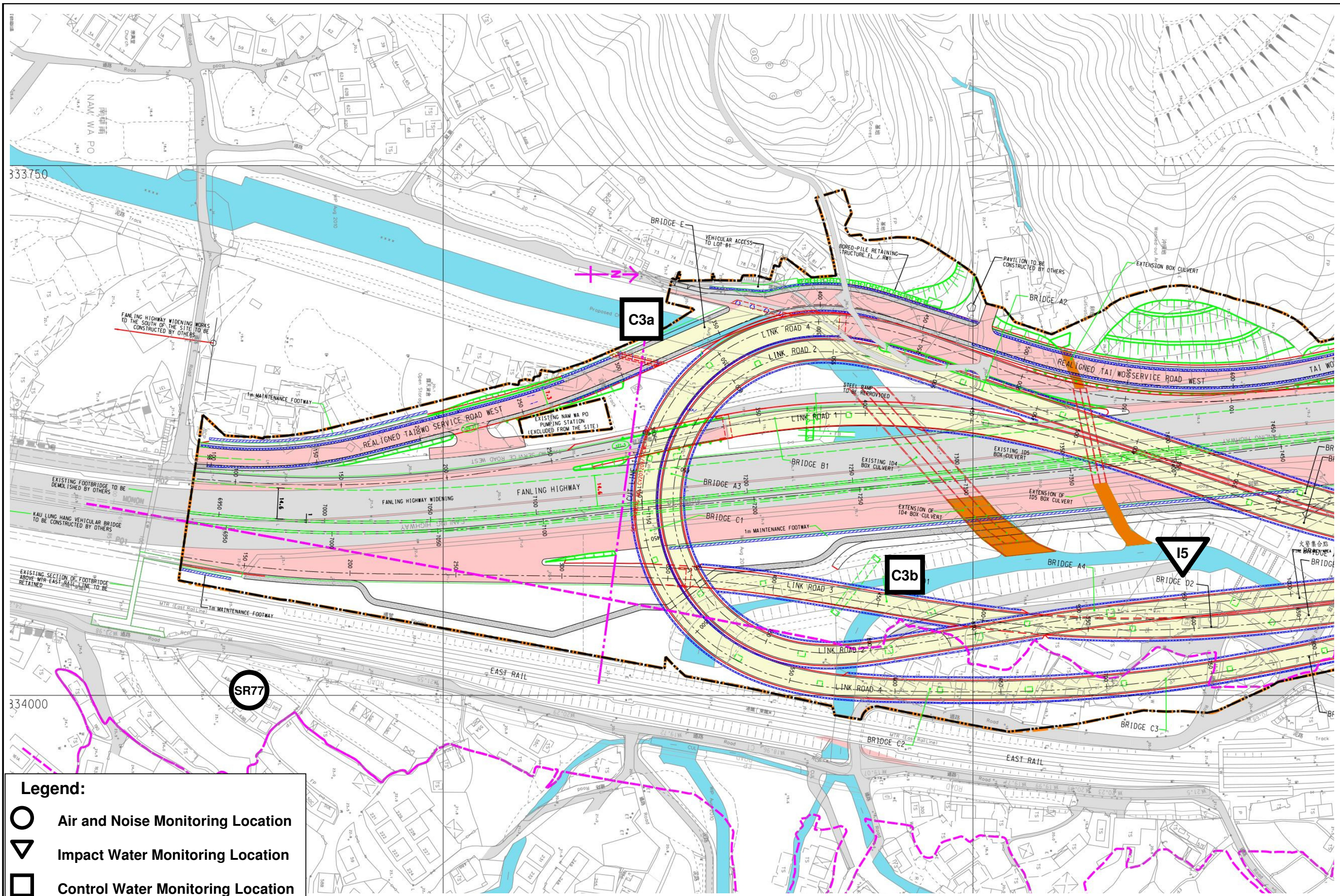
Figure



CV/201209-T-CWC-SK-001g_AD_edit.dgn 22/1/2014 17:10:34

Legend:

 Works Area for Entrusted Portion



- Legend:**
- Air and Noise Monitoring Location
 - ▽ Impact Water Monitoring Location
 - Control Water Monitoring Location

Figure 2: Environmental Monitoring Locations

Appendix A Construction Programme

Activity ID	Activity Name	UD	RD	Start	Finish	2014					2015					2016					2017					2018					2019																
						Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Link Road 4 (near Abutment AC1)						460	290	14-Sep-16 A		16-Apr-18																																					
FHI-LR4-4000	Completion of Connection Works DN2200 CHF	0	0	30-Dec-17																																											
FHI-LR4-4010	Completion of Abutment AC1	0	0	14-Sep-16 A																																											
FHI-LR4-4020	Construction of Retaining Wall beside Abutment AC1	120	120	20-Apr-17*		11-Sep-17																																									
FHI-LR4-4030	Road Formation, Road Drainage, Kerb and Pavement	105	105	12-Sep-17		18-Jan-18																																									
FHI-LR4-4040	Remaining Section of Carriageway (treated as outstanding works)	65	65	19-Jan-18		16-Apr-18																																									
WSD Works						1330	405	20-Feb-14 A		01-Sep-18																																					
DN450 Fire Mains (CHA)						941	405	29-May-15 A		01-Sep-18																																					
WA-1010	Pipe Laying - CHA 0 - 55 (DN450) near Ext. TWSR West, 55m	28	28	10-Jun-17		13-Jul-17																																									
WA-1020	Pipe Laying - CHA 55 - 155 (DN450) near Ext. TWSR West, 100m	45	45	17-Nov-17		11-Jan-18																																									
WA-1110	Pipe Laying - CHA 155 - 270 (DN450) near Ext. TWSR West, 115m	47	47	20-Sep-17		16-Nov-17																																									
WA-1120	Pipe Laying - CHA 270 - 315 (DN450) near Ext. TWSR West, 45m	26	26	21-Aug-17		19-Sep-17																																									
WA-1130	Pipe Laying - CHA 315 - 385 (DN450) near Ext. TWSR West, 70m	32	32	14-Jul-17*		19-Aug-17																																									
WA-1140	Pipe Laying - CHA 385 - 460 (DN450) near Realigned TWSR West	70	0	29-May-15 A		21-Dec-15 A																																									
WA-2010	Pipe Laying - CHA 460 - 508 (DN450) along Ext. TWSR West NB, 48m	188	60	01-Sep-16 A		03-Jul-17																																									
WA-2020	Pipe Laying - CHA 508 - 540 (DN450) along Ext. TWSR West SB, 32m	75	75	04-Jul-17		28-Sep-17																																									
WA-2040	Pipe Laying - CHA 540 - 625 (DN450) along Ext. planter of TWSR West, 85m	45	45	04-May-17*		26-Jun-17																																									
WA-2080	Pipe Laying - CHA 625 - 675 (DN450) along Ext. TWSR West SB, 50m	37	37	29-Sep-17		14-Nov-17																																									
WA-3010a	Pipe Laying - CHA 675 - 705 (DN450) along Ext. TWSR West SB, 30m	66	0	19-Sep-16 A		07-Dec-16 A																																									
WA-3010b	Pipe Laying - CHA 705 - 720 (DN450) (saw-cut) along Ext. TWSR West SB, 15m	49	49	15-Nov-17*		13-Jan-18																																									
WA-3020	Pipe Laying - CHA 720 - 765 (DN450) along Ext. TWSR West SB, 45m	65	0	08-Nov-16 A		26-Jan-17 A																																									
WA-3030	Pipe Laying - CHA 765 - 800 (DN450) along Ext. TWSR West SB, 35m	32	0	07-Feb-17 A		15-Mar-17 A																																									
WA-3040	Pipe Laying - CHA 800 - 835 (DN450) along Ext. TWSR West SB, 35m	35	35	12-Jan-18		28-Feb-18																																									
WA-3050	Pipe Laying - CHA 835 - 880 (DN450) along Ext. TWSR West SB, 45m	42	42	01-Mar-18		23-Apr-18																																									
WA-3060	Pipe Laying - CHA 880 - 925 (DN450) along Ext. TWSR West SB, 45m	42	42	24-Apr-18		13-Jun-18																																									
WA-3070	Pipe Laying - CHA 925 - 972 (DN450) along Ext. TWSR West NB (Stage 1)	94	0	10-Jun-16 A		30-Sep-16 A																																									
WA-3080	Pipe Laying - CHA 925 - 972 (DN450) along Ext. TWSR West SB (Stage 2), 47m	42	42	14-Jun-18		03-Aug-18																																									
WA-4100	Pressure Test for CHA (CHA 0 - 800)	18	18	15-Jan-18		03-Feb-18																																									
WA-4200	Pressure Test for CHA (CHA 800 - 972)	18	18	04-Aug-18		24-Aug-18																																									
WA-4210	Cleaning for (CHA 0 - 972)	7	7	25-Aug-18		01-Sep-18																																									
DN600 Water Mains (CHB)						810	89	25-Sep-14 A		07-Sep-17																																					
WB-0100	Temporary Local Diversion for DN600 near Abutment AD1 (CHB 0 - 100)	80	0	25-Sep-14 A		12-Feb-15 A																																									
WB-1000	Pipe Laying - CHB 100 - 160 (DN600) near FLH S/B (FHW: CH7130-729), 60m long (common trench with NB)	60	0	15-Feb-16 A		02-Sep-16 A																																									
WB-1010	Pipe Laying - CHB 160 - 215 (DN600) near FLH S/B (FHW: CH7290-7380), 55m long (common trench with NB)	60	0	13-Jul-15 A		12-Dec-15 A																																									
WB-1020	Pipe Laying - CHB 215 - 300 (DN600) near FLH S/B (FHW: CH7380-7470), 85m long (common trench with NB)	60	0	12-Dec-15 A		02-Sep-16 A																																									
WB-1020A	Pipe Laying - CHB 300 - 335 (DN600) near FLH S/B (FHW: CH7380-7470), 35m long (common trench with NB)	60	0	27-Nov-14 A		18-May-15 A																																									
WB-1030A	Pipe Laying - CHB 335 - 380 (DN600) near crossing TWSR 15m long & 3m depth	30	0	09-Jun-15 A		13-Nov-15 A																																									
WB-1030B	Pipe Laying - CHB 380 - 410 (DN600), 50m, from TWSR to IT inspection tee chamber	21	21	25-May-17		19-Jun-17																																									
WB-1030C	Pipe Laying - CHB 410 - 430 (DN600), 20m, from IT inspection tee chamber to Pier AB7	25	25	20-Jun-17		19-Jul-17																																									
WB-1040	Pipe Laying - CHB 430 - 455 (DN600), 25m, from Pier AB7 to combined valve chamber	20	20	06-Jul-17		28-Jul-17																																									

- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

CEDD Contract No. CV/2012/09

Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17

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Date	Revision	Checked	Approved
07-Mar-17	Draft	Sam Lam	David Tung



Activity ID	Activity Name	UD	RD	Start	Finish	2014												2015												2016												2017												2018												2019											
						Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Box Culvert Extension - BC01																														1160	45	07-Jan-14 A	06-Mar-18	I Flow Diversion of Existing Stream																																											
TWSRW-6000	Flow Diversion of Existing Stream	4	0	07-Jan-14 A	07-Jan-14 A	I Flow Diversion of Existing Stream																																																																							
TWSRW-6010A	Excavation and Sub-base for construction of Bay 1	5	0	07-Jan-14 A	25-Jan-14 A	■ Excavation and Sub-base for construction of Bay 1																																																																							
TWSRW-6010B	Excavation and Sub-base for construction of Bay 2	18	0	04-Mar-14 A	12-Mar-14 A	■ Excavation and Sub-base for construction of Bay 2																																																																							
TWSRW-6020	Bay 1 - Base Slab	14	0	11-Feb-14 A	28-Feb-14 A	■ Bay 1 - Base Slab																																																																							
TWSRW-6030	Bay 2 - Base Slab	14	0	13-Mar-14 A	18-Mar-14 A	■ Bay 2 - Base Slab																																																																							
TWSRW-6030B	Bay 2 - Remaining Base Slab (treated as outstanding works)	45	45	06-Jan-18*	06-Mar-18*	■ Bay 2 - Remaining Base Slab (treated as outstanding works)																																																																							
TWSRW-6040	Bay 1 - Wall and Top Slab	18	0	01-Mar-14 A	10-Mar-14 A	■ Bay 1 - Wall and Top Slab																																																																							
TWSRW-6050	Bay 2 - Wall and Top Slab	11	0	19-Mar-14 A	25-Jun-14 A	■ Bay2 - Wall and Top Slab																																																																							
TWSRW-6060	Backfilling to existing road level	55	0	25-Mar-14 A	09-Jun-14 A	■ Backfilling to existing road level																																																																							
TWSRW-6070	Inlet structure of the box culvert BC01 (Covered by VO. 41)	70	0	17-Dec-14 A	19-Mar-15 A	■ Inlet structure of the box culvert BC01 (Covered by VO. 41)																																																																							
TWSRW-6080	Backfilling to existing road level after completion of inlet structure	72	0	20-Mar-15 A	21-May-15 A	■ Backfilling to existing road level after completion of inlet structure																																																																							
At-Grade Roadworks																														90	0	22-May-15 A	28-Jul-16 A	■ Slope Upgrading Works for the gullies feature beside Slope 35W-D/C80 (Covered by VO. 68)																																											
TWSRW-610	Slope Upgrading Works for the gullies feature beside Slope 35W-D/C80 (Covered by VO. 68)	90	0	22-May-15 A	28-Jul-16 A	■ Slope Upgrading Works for the gullies feature beside Slope 35W-D/C80 (Covered by VO. 68)																																																																							
TWSRW Zone 7 between CH530 and CH640																														1130	70	06-Dec-13 A	22-Dec-17																																												
Construction of Retaining Structures																														235	0	06-Dec-13 A	27-Nov-14 A	◆ Implementation of TTA - Scheme W2 (Part 2)																																											
TWSRW-7000	Implementation of TTA - Scheme W2 (Part 2)	0	0	06-Dec-13 A		◆ Implementation of TTA - Scheme W2 (Part 2)																																																																							
TWSRW-7010	Slope Cutting and Drainage Channel	235	0	06-Dec-13 A	27-Nov-14 A	■ Slope Cutting and Drainage Channel																																																																							
TWSRW-7020	Installation of Soil Nail (129 nos)	40	0	10-Jun-14 A	13-Sep-14 A	■ Installation of Soil Nail (129 nos)																																																																							
At-Grade Roadworks																														833	70	03-Nov-14 A	22-Dec-17																																												
TWSRW-7100	Preparation Works for Implementation of TTA - Scheme W3A (temporary road connecting the realigned TWSRW to existing)	45	0	29-Feb-16 A	25-Apr-16 A	■ Preparation Works for Implementation of TTA - Scheme W3A (temporary road connecting the realigned TWSRW to existing)																																																																							
TWSRW-7110	Implementation of TTA - Scheme W3A (temporary road connecting the realigned TWSRW to existing)	0	0	26-Apr-16 A		◆ Implementation of TTA - Scheme W3A (temporary road connecting the realigned TWSRW to existing)																																																																							
TWSRW-7130	Road Drainage (incl. Zone 6 & Zone 7)	80	0	03-Nov-14 A	27-Jan-15 A	■ Road Drainage (incl. Zone 6 & Zone 7)																																																																							
TWSRW-7140	Installation of Cable Ducts for Utilities Diversion Works at Area 4 (Approx. 150m) (by utilities undertakers)	233	0	29-Jan-15 A	23-Dec-15 A	■ Installation of Cable Ducts for Utilities Diversion Works at Area 4 (Approx. 150m) (by utilities undertakers)																																																																							
TWSRW-7150	Road Drainage, Road Formation, DN150 watermain, Kerb, Planter and Pavement (incl. Zone 6 & Zone 7)	49	0	01-Dec-15 A	04-Feb-16 A	■ Road Drainage, Road Formation, DN150 watermain, Kerb, Planter and Pavement (incl. Zone 6 & Zone 7)																																																																							
TWSRW-7160	Pipe Laying - DN150	70	0	13-Jul-15 A	21-Dec-15 A	■ Pipe Laying - DN150																																																																							
TWSRW-7170	Preparation Works for Implementation of TTA - Scheme W3B (shift TWSRW NB traffic westward; permanent alignment)	90	0	27-Apr-16 A	30-Aug-16 A	■ Preparation Works for Implementation of TTA - Scheme W3B (shift TWSRW NB traffic westward; permanent alignment)																																																																							
TWSRW-7180	Implementation of TTA - Scheme W3B (shift TWSRW NB traffic westward; i.e. permanent alignment)	0	0	31-Aug-16 A		◆ Implementation of TTA - Scheme W3B (shift TWSRW NB traffic westward; i.e. permanent alignment)																																																																							
TWSRW-7190	Remaining Road Drainage, Road Formation, Road Pavement and Footpath (incl. Zone 6 & Zone 7)	70	70	29-Sep-17	22-Dec-17	■ Remaining Road Drainage, Road Formation, Road Pavement and Footpath (incl. Zone 6 & Zone 7)																																																																							
TWSRW Zone 8 between CH640 and CH655																														800	103	06-Oct-14 A	02-Feb-18																																												
Kiu Tau Footbridge Re-provision (West)																														527	0	06-Oct-14 A	20-Feb-17 A																																												
TWSRW-8000	Pre-Drilling Works for Socket H-Pile	7	0	06-Oct-14 A	21-Oct-14 A	■ Pre-Drilling Works for Socket H-Pile																																																																							
TWSRW-8010A	Working Platform for Piling Work of Proposed Kiu Tau Footbridge	24	0	11-May-15 A	20-Jun-15 A	■ Working Platform for Piling Work of Proposed Kiu Tau Footbridge																																																																							
TWSRW-8010B	Installation of Socket H-Pile for Proposed Kiu Tau Footbridge (13 nos of Pile)	75	0	07-Jul-15 A	11-Sep-15 A	■ Installation of Socket H-Pile for Proposed Kiu Tau Footbridge (13 nos of Pile)																																																																							
TWSRW-8020A	KT-P1 & P5 - Pile Cap	85	0	02-Dec-15 A	20-Jul-16 A	■ KT-P1 & P5 - Pile Cap																																																																							
TWSRW-8020A10	KT-P1 & P5 - Pier Construction	28	0	01-Nov-16 A	16-Nov-16 A	■ KT-P1 & P5 - Pier Construction																																																																							
TWSRW-8020A20	KT-P1 & P5 - RC Deck & Bearing Installation	30	0	19-Dec-16 A	18-Jan-17 A	■ KT-P1 & P5 - RC Deck & Bearing Installation																																																																							
TWSRW-8030	KT-AB4 - Pile Cap, Abutment and Bearing Installation	36	0	02-Dec-15 A	03-Nov-16 A	■ KT-AB4 - Pile Cap, Abutment and Bearing Installation																																																																							
TWSRW-8040	Steel Truss Installation at TWSR West	4	0	16-Feb-17 A	20-Feb-17 A	■ Steel Truss Installation at TWSR West																																																																							
At-Grade Roadworks																														598	103	21-Dec-15 A	02-Feb-18																																												

- Actual Work
- Remaining Work
- Summary Bar
- Critical Remaining Work
- Milestone
- Actual Level of Effort

Date	Revision	Checked	Approved
07-Mar-17	Draft	Sam Lam	David Tung

Activity ID	Activity Name	UD	RD	Start	Finish	2014					2015					2016					2017					2018					2019									
						Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
TWSRE-4030B	Slip Road Y (CH100-CH230) - Remaining Road Drainage	31	0	22-Mar-16 A	02-Jun-16 A																																			
TWSRE-4030C	Slip Road Y (CH100-CH230) - Road Formation	26	0	26-Oct-15 A	02-Jun-16 A																																			
TWSRE-4040A*	Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Access Road A	58	0	03-Mar-15 A	15-Jun-15 A																																			
TWSRE-4040B*	Pipe laying - DN600 & DN1200 Watermains (CHB & CHC) along Roundabout A	66	0	17-Jun-15 A	01-Sep-15 A																																			
TWSRE-4050A*	Pipe laying - DN2300 Watermains (CHJ) along Access Road A	68	0	02-Jan-15 A	28-May-15 A																																			
TWSRE-4050B*	Pipe laying - DN2300 Watermains (CHJ) along Roundabout A	27	0	27-Sep-14 A	31-Oct-14 A																																			
TWSRE-4060A	Access Road A - Road Drainage	327	0	18-Jul-14 A	30-Oct-14 A																																			
TWSRE-4060B	Access Road A - Road Formation, Kerb, Planter and Pavement	44	0	22-Jun-15 A	23-Oct-15 A																																			
TWSRE-4070	Roundabout A - Road Formation, Kerb, Planter and Pavement (covered by VO 130)	90	0	26-Oct-15 A	02-Jun-16 A																																			
TWSRE-4080	Preparation Works for Implementation of TTA Scheme E1	42	0	24-Jun-15 A	23-Oct-15 A																																			
TWSRE-4090	Implementation of TTA - Scheme E1 (Drawing No. CW/009/015)	0	0	24-Oct-15 A																																				
TWSRE-4100A	Dwarf Wall DW1 (th.5366) at Access Road A (covered by VO 83)	40	0	02-Jul-15 A	31-Aug-15 A																																			
TWSRE-4100B	Dwarf Wall DW1 (th.4463) at Access Road A (covered by VO 83)	40	0	22-Aug-15 A	23-Sep-15 A																																			
TWSRE-4110	Preparation Works for Implementation of TTA Scheme E1A (to shift TWSRE to Access Road A & Roundabout A)	30	0	26-Oct-15 A	19-Mar-16 A																																			
TWSRE-4120	Implementation of TTA - Scheme E1A (to shift TWSRE to Access Road A & Roundabout A)	0	0	21-Mar-16 A																																				
TWSRE-5000	Implementation of TTA at Roundabout A for Improvement Works	0	0	29-Nov-16 A																																				
TWSRE-6010	Modification Works to new Roundabout A	90	0	29-Nov-16 A	30-Mar-17 A																																			
TWSRE-6020	Hand Over the area to BBI Contractor	0	0		31-Mar-17 A																																			
Remaining Works for Noise Barrier along realigned TWSR East		35	35	19-Aug-17	28-Sep-17																																			
TWSRE-NB-120	Installation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m)	35	35	19-Aug-17	28-Sep-17																																			
Stage 1C - Viaduct Structure & TCSS Civil Provisions (KD-9)		1337	324	31-Oct-13 A	28-May-18																																			
Preliminaries		877	0	31-Oct-13 A	20-Sep-16 A																																			
B-1000A	ADMS Installation inside MTRCL Railway (for pier AD11, AD12, AB10)	14	0	31-Oct-14 A	28-Nov-14 A																																			
B-1000B	ADMS Installation inside MTRCL Railway (for pier AC5, AC6, AC7)	3	0	15-May-14 A	30-May-14 A																																			
B-1010A	Demonstration to MTRCL (for pier AD11, AD12, AB10)	1	0	29-Nov-14 A	29-Nov-14 A																																			
B-1010B	Demonstration to MTRCL (for pier AC5, AC6, AC7)	1	0	31-May-14 A	31-May-14 A																																			
B-1020A	Base-line Monitoring (for pier AD11, AD12, AB10)	10	0	29-Nov-14 A	03-Dec-14 A																																			
B-1020B	Base-line Monitoring (for pier AC5, AC6, AC7)	7	0	01-Jun-14 A	08-Jun-14 A																																			
B-2000	CLP 11KV Cable Diversion at Area C	12	0	24-Feb-14 A	02-Mar-14 A																																			
B-2010	CLP LV Cable Diversion at Area D	12	0	16-Apr-14 A	05-Jul-14 A																																			
B-2020	Completion of Cable Detection & CLP Underground 11KV Cable Diversion at Area A	0	0		31-Oct-13 A																																			
B-2030	Completion of CLP Overhead 11KV Cable Diversion at Area B (Phase 2)	0	0		12-Dec-14 A																																			
B-2040	Completion of CLP 11KV Cable Diversion at Area C	0	0		02-Mar-14 A																																			
B-2050	Completion of CLP LV Cable Diversion at Area D	0	0		05-Jul-14 A																																			
B-3000	Plant Mobilization for Piling Rig (Plant 1) (for viaduct construction)	13	0	05-Nov-13 A	19-Nov-13 A																																			
B-3010	Plant Mobilization for Piling Rig (Plant 2) (for viaduct construction)	25	0	17-Feb-14 A	28-Feb-14 A																																			
B-3020	Plant Mobilization for Piling Rig (Plant 3) (for viaduct construction)	7	0	07-Apr-14 A	09-Apr-14 A																																			
B-3040	Plant Mobilization for Piling Rig (Plant 5) (for bored pile wall construction)	25	0	10-Dec-13 A	23-Dec-13 A																																			
B-3050	Relocation of Plant including Pre-drilling Works	15	0	08-Mar-16 A	07-Apr-16 A																																			
B-3060	Plant Mobilization for Piling Rig (Plant 4) (for viaduct construction)	7	0	12-May-14 A	13-May-14 A																																			


俊和建築工程有限公司
CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

 Actual Work
 Remaining Work
 Summary Bar
 Critical Remaining Work
 Milestone
 Actual Level of Effort

CEDD Contract No. CV/2012/09
Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3
Updated Master Works Programme (Revision UMP05B)
 Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17
 Page 24 of 40

Date	Revision	Checked	Approved
07-Mar-17	Draft	Sam Lam	David Tung

Activity ID	Activity Name	UD	RD	Start	Finish	2014				2015				2016				2017				2018				2019											
						Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
B-4000	Removal of Asbestos in Portion FH4	30	0	24-Jan-14 A	28-Feb-14 A																																
B-4010	Erection of Catch Fence in Portion FH4	50	0	18-Jan-14 A	19-Mar-14 A																																
B-4020	Site Clearance and Site Formation at FH6	35	0	15-Apr-14 A	21-May-14 A																																
B-4030	Erection of Catch Fence at DSD Maintenance Access for AB10	25	0	13-Oct-14 A	15-Nov-14 A																																
B-4040	Erection of Catch Fence at DSD Maintenance Access for AD11	25	0	03-Dec-14 A	20-Dec-14 A																																
B-4050	Erection of Catch Fence at Portion FH9 for AB11 and AD12	45	0	13-Apr-15 A	03-Jun-15 A																																
B-5000	Provide a Temporary Cycle Track (Scheme 1)	27	0	22-May-14 A	05-Oct-14 A																																
B-5000a	Demolition of Existing Cycle Track at FH6	20	0	06-Oct-14 A	29-Oct-14 A																																
B-5010	Provide a Temporary Cycle Track (Scheme 2, along DSD maintenance access)	28	0	05-Feb-15 A	02-Mar-15 A																																
B-5020	Demolition of Temporary Cycle Track constructed at FH6	27	0	03-Mar-15 A	28-Mar-15 A																																
B-5030	Disruption due to Division Cycle Track	27	0	07-May-14 A	08-Jun-14 A																																
B-5040	Utilities Diversion for AA8 Piling Works	60	0	29-Apr-16 A	27-Jun-16 A																																
B-6000	Transportation of Special Lifting Frame to Portion FH9	32	0	13-Aug-16 A	20-Sep-16 A																																
Foundation & Pier Construction		1035	18	20-Nov-13 A	12-May-17 A																																
Bridge A		892	0	04-Dec-13 A	20-Feb-17 A																																
BA-01-1000a	Abutment AA1 - Piling Works (P2)	12	0	14-Mar-15 A	27-Mar-15 A																																
BA-01-1000b	Abutment AA1 - Piling Works (P1)	11	0	07-Jan-16 A	18-Jan-16 A																																
BA-01-1010	Abutment AA1 - Pile Test	14	0	06-May-15 A	14-Mar-16 A																																
BA-01-1020	Abutment AA1 - Pile Cap	35	0	24-Sep-16 A	14-Nov-16 A																																
BA-01-1020B	Abutment AA1 - Abutment Wall	28	0	14-Dec-16 A	19-Jan-17 A																																
BA-01-1020C	Abutment AA1 - Plinth Construction	6	0	13-Feb-17 A	20-Feb-17 A																																
BA-02-1000	Pier AA2W - Piling Works	12	0	29-Jan-16 A	04-Feb-16 A																																
BA-02-1010	Pier AA2W - Pile Test	14	0	07-Mar-16 A	21-Mar-16 A																																
BA-02-1020A	Pier AA2E - Pile Cap	30	0	04-May-15 A	31-Aug-15 A																																
BA-02-1020B	Pier AA2W - Pile Cap	30	0	22-Mar-16 A	22-Jun-16 A																																
BA-02-1030	Pier AA2W - Pier Construction	21	0	26-Jul-16 A	08-Aug-16 A																																
BA-02-1040	Pier AA2E - Pier Construction	21	0	19-Feb-16 A	15-Apr-16 A																																
BA-02-1050	Portal AA2 - Portal Beam Construction together with Kicker	72	0	29-Oct-16 A	20-Dec-16 A																																
BA-02-2000	Pier AA2E - Piling Works	12	0	17-Sep-14 A	10-Oct-14 A																																
BA-02-2010	Pier AA2E - Pile Test	7	0	25-Oct-14 A	14-Nov-14 A																																
BA-03-1000	Pier AA3 - Piling Works	12	0	30-Aug-14 A	10-Sep-14 A																																
BA-03-1010	Pier AA3 - Pile Test	7	0	25-Sep-14 A	13-Oct-14 A																																
BA-03-1020	Pier AA3 - Pile Cap	30	0	27-Apr-15 A	06-Jun-15 A																																
BA-03-1030	Pier AA3 - Pier Construction	35	0	17-Aug-15 A	05-Oct-15 A																																
BA-04-1000	Pier AA4 - Piling Works	12	0	15-Jul-14 A	11-Aug-14 A																																
BA-04-1010	Pier AA4 - Pile Test	7	0	30-Aug-14 A	04-Oct-14 A																																
BA-04-1020	Pier AA4 - Pile Cap	30	0	04-Feb-15 A	19-Mar-15 A																																
BA-04-1030	Pier AA4 - Pier Construction	14	0	29-Jun-15 A	07-Aug-15 A																																
BA-05-1000	Pier AA5 - Piling Works	12	0	26-Mar-14 A	17-Apr-14 A																																
BA-05-1010	Pier AA5 - Pile Test	7	0	08-May-14 A	22-May-14 A																																

-  Actual Work
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CEDD Contract No. CV/2012/09

Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

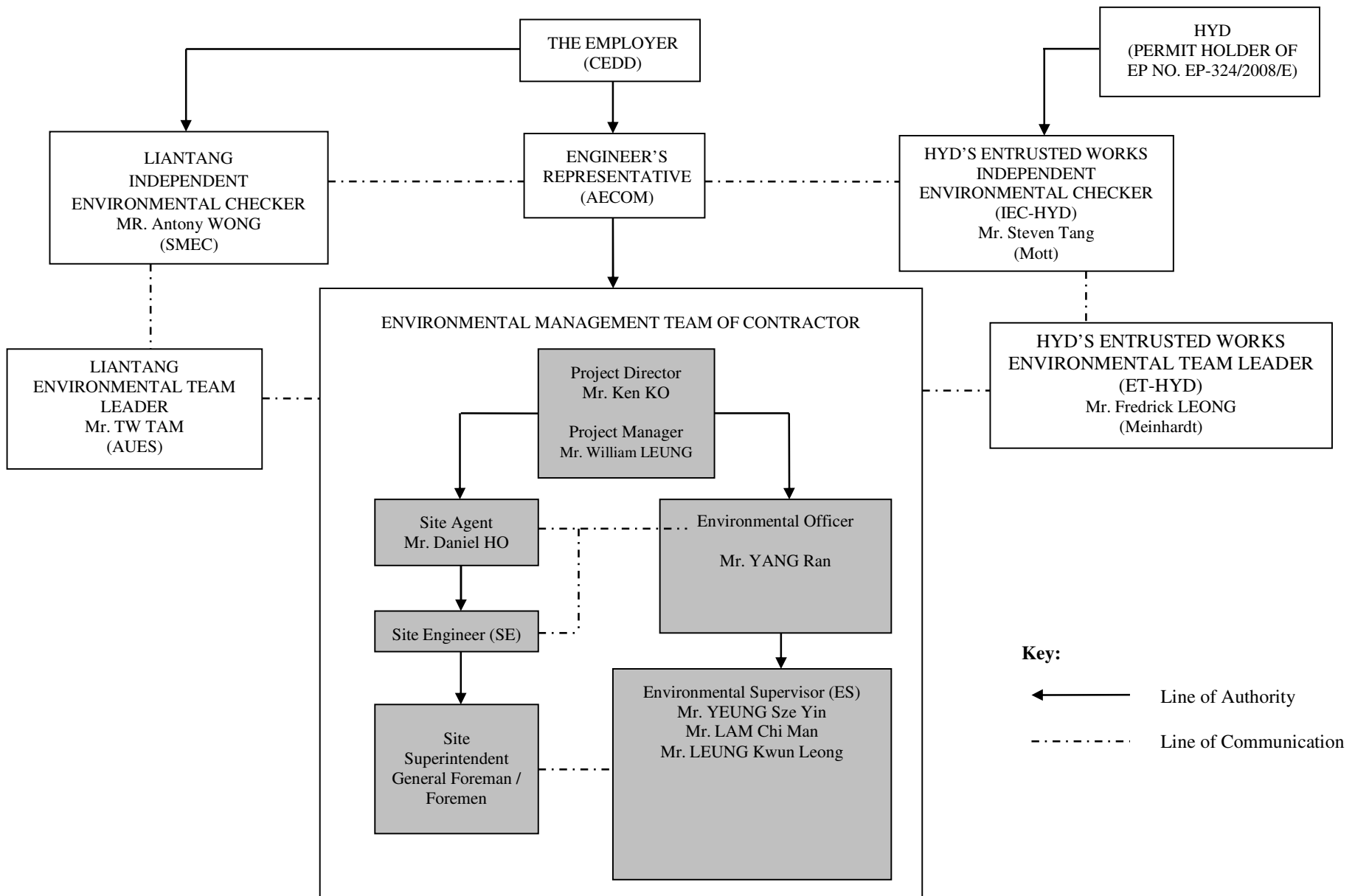
Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17

Date	Revision	Checked	Approved
07-Mar-17	Draft	Sam Lam	David Tung

Appendix B

Project Organization Structure



Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)

Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
Air Quality				
Air Quality during Construction	<ul style="list-style-type: none"> Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading. All stockpiles of excavated materials or spoil of more than 50m³ shall be enclosed, covered or dampened during dry or windy conditions. Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas. All spraying of materials and surfaces shall avoid excessive water usage. 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. Vehicle washing facilities shall be provided to minimise the quantity of material deposited on public roads. 	During Construction	Contractor	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Air Quality during Operation	Not required	N/A	N/A	N/A
Noise				
Noise during Construction	<ul style="list-style-type: none"> Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant. Reduce the number of equipment and their percentage on-time. 	During Construction	Contractor	<ul style="list-style-type: none"> ✓ ✓
Noise during Operation	Not required	N/A	N/A	N/A
Water Quality				
Water Quality during Construction	<p><u>Road Widening Works, Earthworks and Culvert Extension Works</u></p> <ul style="list-style-type: none"> Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. 	During Construction	Contractor	<ul style="list-style-type: none"> Rem. ✓

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

Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	<p><u>Excavated Materials</u></p> <ul style="list-style-type: none"> • Segregation of materials to facilitate disposal / reuse. • Appropriate stockpile management. • Re-use of excavated material on or off site (where possible). • Special handling and disposal procedures in the event that contaminated materials are excavated. <p><u>Construction Wastes</u></p> <ul style="list-style-type: none"> • Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). • Appropriate stockpile management. • Planning to reduce over ordering and waste generation. • Recycling and re-use of materials where possible (e.g. metal, wood from formwork) • For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. <p><u>Bentonite Slurries</u></p> <ul style="list-style-type: none"> • Bentonite slurries should be reused as far as possible. • Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. <p><u>Chemical Wastes</u></p> <ul style="list-style-type: none"> • Storage within locked, covered and bunded area. • The storage area shall not be located adjacent to sensitive receivers e.g. drains. • Minimise waste production and recycle oils/solvents where possible. • A spill response procedure shall be in place and absorption material available for minor spillages. • Use appropriate and labelled containers. 	<p>During Construction</p> <p>During Construction</p> <p>During Construction</p> <p>During Construction</p>	<p>Contractor</p> <p>Contractor</p> <p>Contractor</p> <p>Contractor</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>N/A</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>N/A</p> <p>N/A</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>

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

Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	<ul style="list-style-type: none"> ● Educate site workers on site cleanliness/waste management procedures. ● If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. ● The chemical wastes shall be collected by a licensed chemical waste collector. <p><u>Municipal Wastes</u></p> <ul style="list-style-type: none"> ● Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. ● Regular, daily collections are required by an approved waste collector. 	During Construction	Contractor	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓
Waste Management during Operation	Not required.	N/A	N/A	N/A
Ecology				
Ecology during Construction	<p><u>Accurate Delineation of Works Area</u></p> <ul style="list-style-type: none"> ● Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. ● Individual trees which fall within the works areas but which work plans show do not require removal are to be retained and fenced off to maximise protection. <p><u>Dust generation</u></p> <p>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:</p> <ul style="list-style-type: none"> ● vehicle washing facilities to be provided at every discernible or designated vehicle exit point; ● all temporary site access roads shall be sprayed with water to suppress dust as necessary; ● all dusty materials should be sprayed with water immediately prior to any handling; and 	During Construction	Contractor	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓

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

Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	<ul style="list-style-type: none"> all debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. <p><u>Surface Run-off</u></p> <p>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> Bund and cover stockpiles to avoid run-off; Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; All vehicle maintenance to be undertaken within a bunded area; and Maximise vegetation retention on-site to maximise absorption (minimise transport). 	During Construction	Contractor	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
Ecology during Operation	<ul style="list-style-type: none"> 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)	N/A
Landscape and Visual				
Landscape and Visual during Construction	<p><u>Preservation of Existing Vegetation</u></p> <ul style="list-style-type: none"> Trees identified for retention within the project limit would be protected during the works The tree transplanting and planting works shall be implemented by approved Landscape Contractors 	During Construction	Contractor	<p>✓</p> <p>✓</p>

Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	<p><u>Temporary Works Areas</u></p> <ul style="list-style-type: none"> 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. <p><u>Hoarding</u></p> <ul style="list-style-type: none"> A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs. <p><u>Top Soils</u></p> <ul style="list-style-type: none"> 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. <p><u>Protection of Important Landscape Features</u></p> <ul style="list-style-type: none"> 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	✓
		During Construction	Contractor	✓
		During Construction	Contractor	N/A
		During Construction	Contractor	N/A
Landscape and Visual during Operation	Not required.	N/A	N/A	N/A

Appendix D

Meteorological Data Extracted from Hong Kong Observatory

Daily Extract of Meteorological Observations , February 2019

Day	Hong Kong Observatory							
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)				
01	1021.6	22.0	18.8	17.6	13.1	70	84	0.0
02	1018.4	20.7	18.6	16.9	15.1	80	84	Trace
03	1017.2	25.3	21.8	19.6	18.7	83	70	Trace
04	1018.1	25.5	21.7	19.5	18.7	83	61	0.0
05	1017.4	22.3	20.1	18.2	17.3	84	84	0.0
06	1014.5	24.9	22.1	20.5	19.5	85	83	0.0
07	1014.8	25.8	23.0	21.3	19.9	83	57	Trace
08	1015.3	25.1	21.7	19.7	19.5	87	78	Trace
09	1017.9	20.1	19.3	18.4	17.6	90	99	0.8
10	1021.7	18.8	18.0	17.4	16.3	90	89	0.8
11	1024.3	19.4	18.4	17.3	15.9	85	94	Trace
12	1024.2	21.9	19.0	16.9	15.8	82	69	0.2
13	1021.8	25.1	21.1	19.0	17.6	80	68	0.0
14	1020.6	23.2	20.4	18.5	17.5	83	78	Trace
15	1019.9	22.4	20.4	18.8	17.5	84	84	0.2
16	1017.9	26.0	22.4	20.1	18.8	81	72	0.0
17	1017.8	20.2	18.8	18.0	16.4	86	91	0.1
18	1015.4	19.3	17.9	16.8	16.4	90	91	18.1
19	1016.8	23.8	20.3	18.5	18.8	91	79	31.0
20	1018.5	25.6	22.6	20.8	21.2	92	84	0.2
21	1017.4	23.2	21.4	20.4	20.2	93	88	Trace
22	1017.2	24.3	20.4	18.4	17.2	82	79	1.6
23	1015.8	20.5	18.1	15.6	15.9	87	95	12.3
24	1016.9	19.5	16.9	14.1	14.0	83	88	3.4
25	1017.5	18.9	18.0	16.7	15.4	85	92	Trace
26	1017.6	19.7	18.7	17.6	16.7	88	96	Trace
27	1015.5	23.6	20.7	18.6	18.0	85	82	Trace
28	1014.7	26.7	22.8	20.6	20.0	85	67	0.0
Mean/Total	1018.1	22.6	20.1	18.4	17.5	85	82	68.7
Normal [§]	1018.5	18.9	16.8	15.0	13.0	80	74	54.4

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal

Daily Extract of Meteorological Observations , March 2019

Day	Hong Kong Observatory							
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)				
01	1016.1	22.4	20.8	19.6	18.8	89	91	0.4
02	1012.7	23.9	21.5	19.9	19.2	87	84	Trace
03	1011.3	23.5	21.5	20.0	19.1	87	85	6.3
04	1013.7	22.6	20.9	19.3	17.7	82	83	10.2
05	1012.1	26.7	22.2	17.7	20.0	88	89	30.3
06	1013.2	22.0	20.5	19.6	19.2	92	91	45.5
07	1015.8	20.5	17.9	15.5	16.7	93	89	29.6
08	1016.0	17.4	16.5	15.1	15.2	92	95	11.5
09	1012.2	18.7	17.8	17.0	17.0	95	95	14.5
10	1013.6	18.5	17.7	17.0	15.6	87	86	4.6
11	1014.9	22.6	18.4	15.5	14.9	81	58	7.6
12	1016.4	24.2	20.1	17.4	15.9	77	15	0.0
13	1017.8	22.9	20.8	19.1	15.3	71	66	0.0
14	1018.3	21.5	20.4	19.8	17.4	83	95	6.4
15	1020.6	20.0	18.7	17.3	15.4	81	89	0.4
16	1020.0	22.8	20.2	18.8	13.2	65	85	0.0
17	1018.9	22.7	20.9	19.7	16.7	77	85	0.0
18	1016.8	24.7	21.7	19.7	18.5	82	70	0.0
19	1014.8	27.4	23.4	20.7	20.5	84	42	0.0
20	1013.0	25.0	23.5	22.1	21.3	88	86	0.0
21	1011.4	27.2	25.3	23.4	21.8	81	79	0.0
22	1012.0	27.5	25.8	24.8	22.9	84	84	Trace
23	1017.1	25.0	20.0	17.4	18.1	89	99	3.3
24	1018.0	18.2	17.5	16.6	15.5	88	100	0.3
25	1016.8	23.3	20.5	17.9	17.8	85	92	1.0
26	1018.5	24.6	21.9	20.8	19.2	85	86	0.0
27	1017.1	25.3	22.3	20.3	19.0	82	77	Trace
28	1012.6	27.8	24.4	22.2	21.4	84	57	0.0
29	1010.5	26.5	24.4	23.1	21.9	86	81	6.9
30	1013.3	24.0	23.1	22.5	20.6	86	81	Trace
31	1016.8	22.9	21.4	20.2	18.7	85	93	7.7
Mean/Total	1015.2	23.3	21.0	19.4	18.2	84	81	186.5
Normal [§]	1016.0	21.4	19.1	17.2	15.7	82	79	82.2

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal

Daily Extract of Meteorological Observations , April 2019

Day	Hong Kong Observatory							
	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Mean Amount of Cloud (%)	Total Rainfall (mm)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)				
01	1019.3	21.6	20.3	19.7	16.8	81	91	Trace
02	1018.2	23.0	20.7	18.9	16.3	76	89	Trace
03	1016.9	25.7	22.8	20.7	19.0	80	85	Trace
04	1016.7	23.8	21.7	20.4	18.6	83	86	Trace
05	1014.5	27.4	24.0	20.9	19.5	76	37	0.0
06	1013.0	28.1	25.1	22.4	21.0	79	27	0.0
07	1012.5	28.0	25.7	23.7	21.9	80	48	0.0
08	1011.6	29.9	26.7	25.1	23.0	80	80	0.0
09	1011.1	28.9	26.6	25.5	23.1	81	79	0.0
10	1010.9	30.1	27.1	25.3	23.2	80	79	0.0
11	1010.0	29.9	27.3	25.3	23.7	81	84	0.7
12	1013.3	25.2	22.3	21.0	20.3	89	91	6.1
13	1014.3	22.3	21.2	20.3	19.9	92	98	3.8
14	1013.8	24.4	22.7	21.9	20.9	90	92	10.4
15	1014.4	23.1	22.1	20.9	19.4	85	91	1.1
16	1012.6	23.6	21.2	19.5	19.6	91	87	9.2
17	1012.2	26.1	23.5	21.5	20.7	85	77	0.0
18	1010.0	25.0	24.0	23.0	22.1	90	91	6.7
19	1007.7	26.6	23.7	21.3	22.3	93	90	75.8
20	1007.2	26.2	23.3	21.9	22.5	95	93	43.6
21	1008.0	30.1	26.2	23.2	24.0	88	81	0.3
22	1009.3	30.1	27.5	25.6	24.5	84	72	0.0
23	1010.4	31.0	28.0	26.0	24.3	81	58	0.0
24	1009.9	31.2	28.0	26.2	23.7	78	57	0.0
25	1009.3	31.1	28.5	26.4	24.0	77	39	0.0
26	1010.4	31.5	28.4	26.2	24.7	81	58	0.9
27	1012.8	26.4	24.9	22.3	22.4	86	91	16.6
28	1013.2	26.9	24.3	22.7	22.4	89	85	3.1
29	1010.9	29.2	26.4	24.7	23.8	86	71	0.0
30	1008.0	28.8	26.7	25.3	23.3	82	83	7.5
Mean/Total	1012.1	27.2	24.7	22.9	21.7	84	76	185.8
Normal [§]	1012.9	25.0	22.6	20.8	19.4	83	81	174.7

Trace means rainfall less than 0.05 mm

§ 1981-2010 Climatological Normal

Appendix E Environmental Monitoring Data for Air, Noise and Water Quality

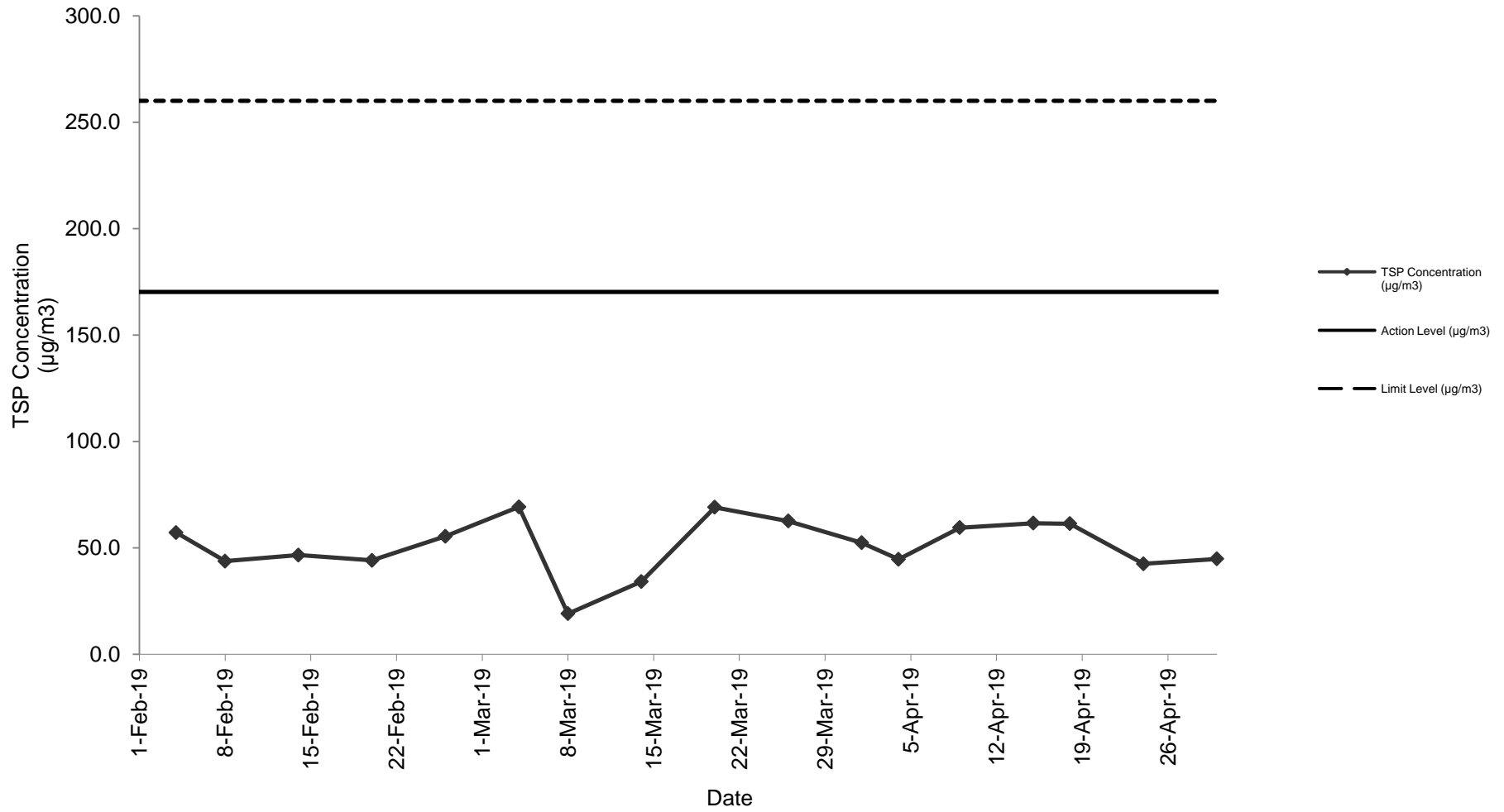
Appendix E
Air Quality Monitoring Results and their Graphical Presentation

24-Hour TSP Monitoring Result at Station: SR77

Sampling Date	Weather Condition	Paper No.	Wt. of paper (g)			Elapse Time			Flow Rate (CFM)			Flow Rate (m ³ /min)			Total Volume (m ³)	TSP Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Wind speed m/s	Wind direction
			Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate						
4-Feb-19	Fine	C226	2.6682	2.7872	0.1190	9576.67	9600.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	57.2	170.3	260.0	<5	N
8-Feb-19	Fine	C228	2.6745	2.7655	0.0910	9603.67	9627.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	43.8	170.3	260.0	<5	N
14-Feb-19	Sunny	C230	2.6557	2.7527	0.0970	9630.67	9654.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	46.6	170.3	260.0	<5	N
20-Feb-19	Cloudy	C232	2.6628	2.7546	0.0918	9657.67	9681.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	44.1	170.3	260.0	<5	N
26-Feb-19	Cloudy	C234	2.6655	2.7809	0.1154	9684.67	9708.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	55.5	170.3	260.0	<5	N
4-Mar-19	Cloudy	C236	2.6007	2.7448	0.1441	9711.67	9735.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	69.3	170.3	260.0	<5	N
8-Mar-19	Rainy	C238	2.6697	2.7094	0.0397	9738.67	9762.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	19.1	170.3	260.0	<5	N
14-Mar-19	Cloudy	C240	2.6598	2.7309	0.0711	9765.67	9789.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	34.2	170.3	260.0	<5	N
20-Mar-19	Cloudy	C242	2.6488	2.7924	0.1436	9792.67	9816.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	69.1	170.3	260.0	<5	N
26-Mar-19	Cloudy	C244	2.6508	2.7809	0.1301	9819.67	9843.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	62.6	170.3	260.0	<5	N
1-Apr-19	Fine	C246	2.6593	2.7683	0.1090	9846.67	9870.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	52.4	170.3	260.0	<5	N
4-Apr-19	Fine	C248	2.6746	2.7674	0.0928	9873.67	9897.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	44.6	170.3	260.0	<5	N
9-Apr-19	Fine	C250	2.6618	2.7855	0.1237	9900.67	9924.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	59.5	170.3	260.0	<5	N
15-Apr-19	Fine	C252	2.6622	2.7904	0.1282	9927.67	9951.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	61.6	170.3	260.0	<5	N
18-Apr-19	Cloudy	C254	2.6641	2.7917	0.1276	9954.67	9978.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	61.4	170.3	260.0	<5	N
24-Apr-19	Fine	C256	2.6636	2.7521	0.0885	9981.67	10005.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	42.6	170.3	260.0	<5	N
30-Apr-19	Cloudy	C258	2.6675	2.7607	0.0932	8.67	32.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	44.8	170.3	260.0	<5	N

Summary For the Reporting Quarter (Feb 2019 - Apr 2019)	
Average	51.1
Minimum	19.1
Maximun	69.3

**24-Hour TSP Monitoring Result at Station: SR77
(February 2019 - April 2019)**



Appendix E

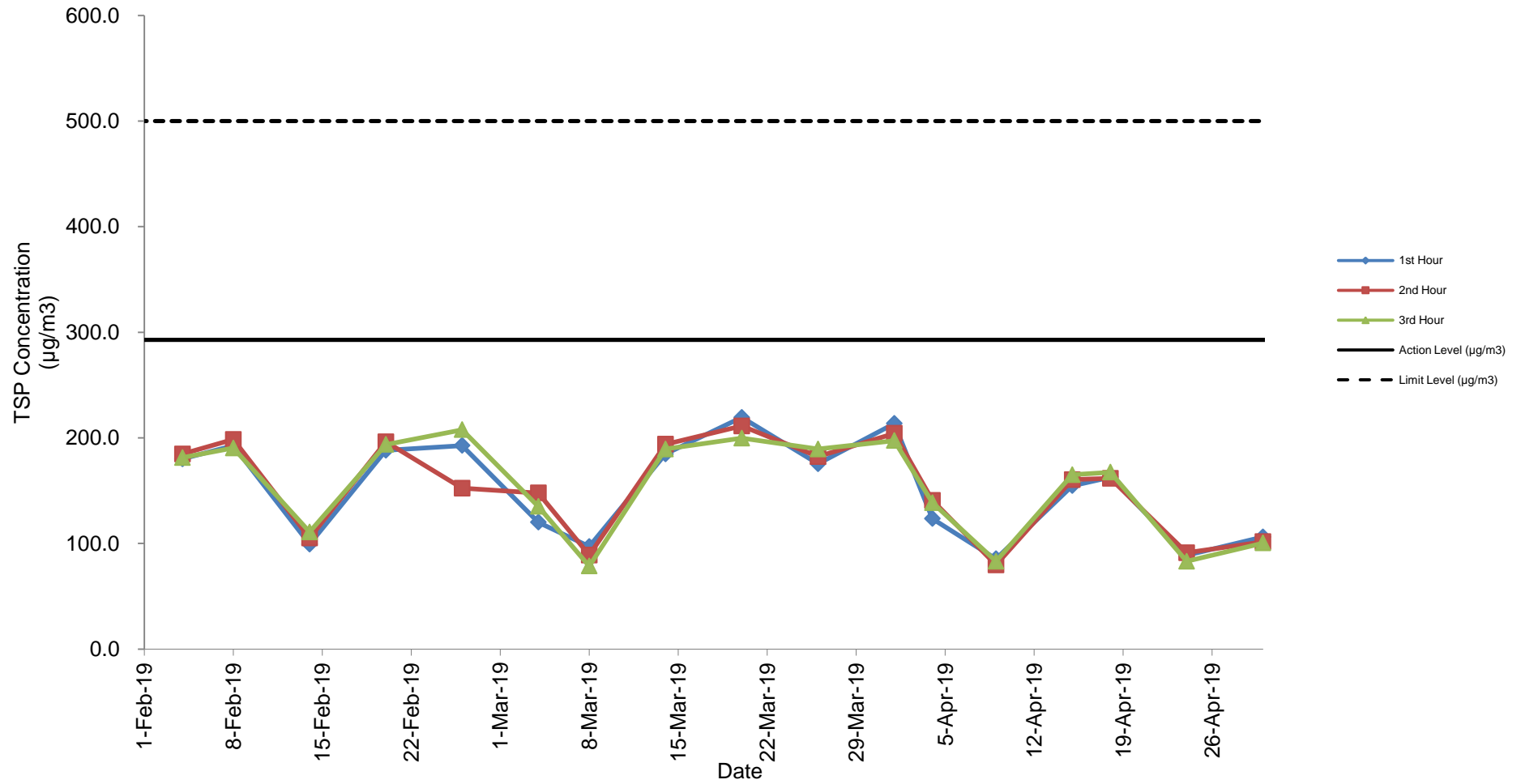
Air Quality Monitoring Results and their Graphical Presentation

1-Hour TSP Monitoring Result at Station: SR77

Date	Weather Condition	Time			Conc.(µg/m ³)			Action Level (µg/m ³)	Limit Level (µg/m ³)
					1 st Hour	2 nd Hour	3 rd Hour		
4-Feb-19	Fine	9:00	-	12:08	180.0	184.7	181.2	292.7	500.0
8-Feb-19	Fine	9:00	-	12:09	192.7	198.5	190.4	292.7	500.0
14-Feb-19	Sunny	9:00	-	12:04	99.3	105.2	110.8	292.7	500.0
20-Feb-19	Cloudy	9:00	-	12:07	188.1	196.2	193.7	292.7	500.0
26-Feb-19	Cloudy	9:00	-	12:04	192.7	152.3	207.7	292.7	500.0
4-Mar-19	Cloudy	9:00	-	12:08	120.0	147.7	135.0	292.7	500.0
8-Mar-19	Rainy	9:00	-	12:08	97.0	88.9	78.5	292.7	500.0
14-Mar-19	Cloudy	9:00	-	12:08	184.7	193.9	189.3	292.7	500.0
20-Mar-19	Cloudy	9:00	-	12:08	219.3	211.2	199.7	292.7	500.0
26-Mar-19	Cloudy	9:00	-	12:08	175.4	182.3	189.3	292.7	500.0
1-Apr-19	Fine	9:00	-	12:08	213.5	204.3	197.3	292.7	500.0
4-Apr-19	Fine	9:00	-	12:09	123.5	140.8	138.5	292.7	500.0
9-Apr-19	Fine	9:00	-	12:08	85.4	79.6	83.1	292.7	500.0
15-Apr-19	Fine	9:00	-	12:07	154.6	160.4	165.0	292.7	500.0
18-Apr-19	Cloudy	9:00	-	12:09	162.7	161.6	167.3	292.7	500.0
24-Apr-19	Fine	9:00	-	12:08	88.9	91.2	83.1	292.7	500.0
30-Apr-19	Cloudy	9:00	-	12:09	106.2	101.6	100.4	292.7	500.0

Summary For the Reporting Quarter (Feb 2019 - Apr 2019)	
Average	152.8
Minimum	78.5
Maximum	219.3

1-Hour TSP Monitoring Result at station: SR77 (February 2019 - April 2019)

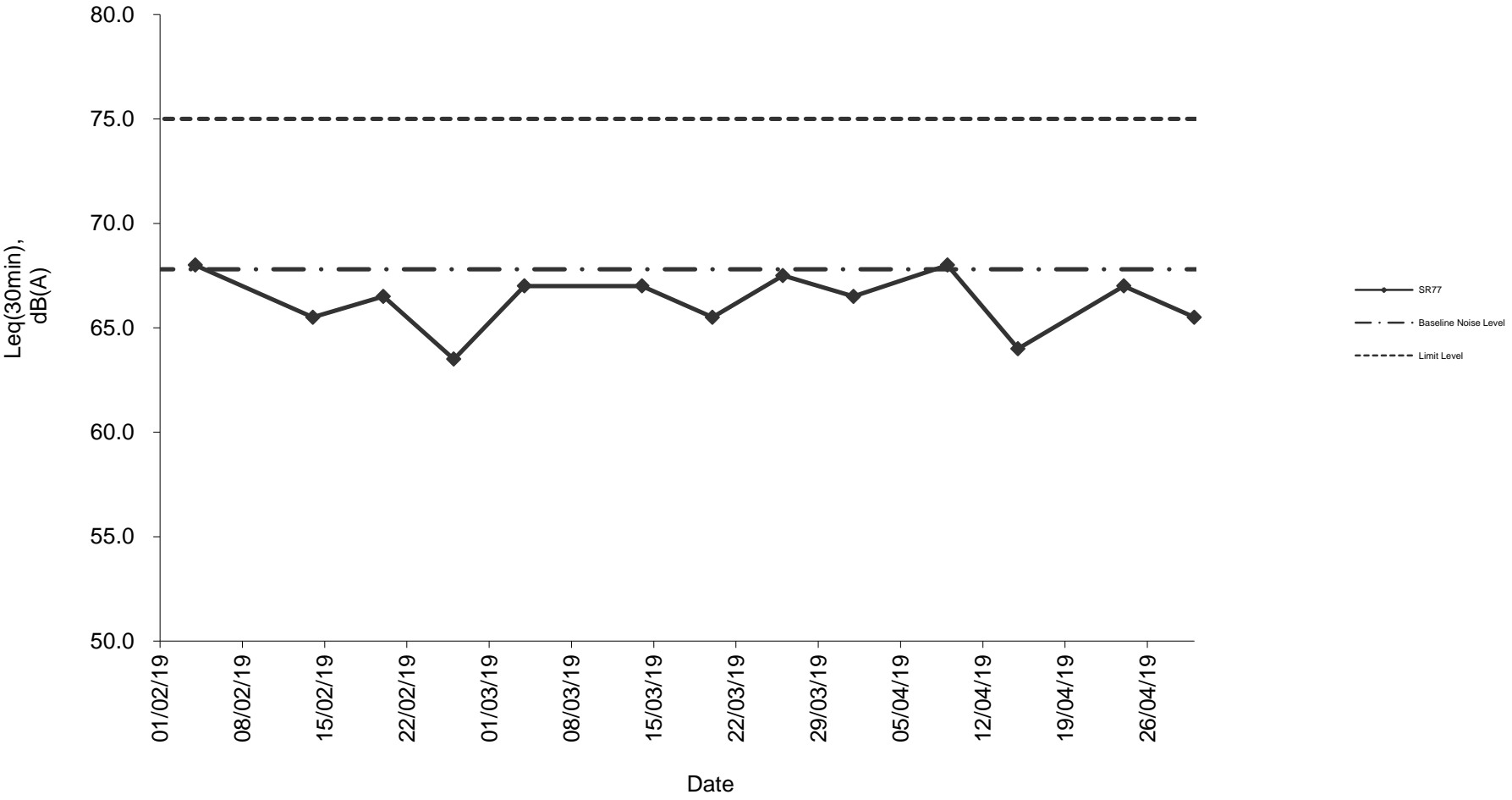


Noise Monitoring Result at SR77

Date	Weather Condition	Start Time	End Time	Measured Noise Level (dB(A))*			Baseline Corrected Level, dB(A)**	Baseline Noise Level (dB(A)), Leq(30min)	Limit Level dB(A)	Exceedance (Y / N)
				L10(30min)	L90(30min)	Leq(30min)				
2019-02-04	Fine	11:15	11:45	93.5	62.5	68.0	-	67.8	75.0	N
2019-02-14	Sunny	11:15	11:45	90.5	61.0	65.5	-	67.8	75.0	N
2019-02-20	Cloudy	11:15	11:45	86.5	61.5	66.5	-	67.8	75.0	N
2019-02-26	Cloudy	11:30	12:00	92.5	61.5	63.5	-	67.8	75.0	N
2019-03-04	Cloudy	11:15	11:45	105.0	61.0	67.0	-	67.8	75.0	N
2019-03-14	Cloudy	11:30	12:00	94.0	62.5	67.0	-	67.8	75.0	N
2019-03-20	Cloudy	11:15	12:00	91.0	64.5	65.5	-	67.8	75.0	N
2019-03-26	Cloudy	11:30	12:00	98.5	61.5	67.5	-	67.8	75.0	N
2019-04-01	Fine	11:15	11:45	91.0	60.5	66.5	-	67.8	75.0	N
2019-04-09	Fine	11:15	11:45	104.0	61.5	68	-	67.8	75.0	N
2019-04-15	Fine	11:15	11:45	92.5	62.5	64	-	67.8	75.0	N
2019-04-24	Fine	11:15	11:45	89.0	61.5	67	-	67.8	75.0	N
2019-04-30	Cloudy	11:30	12:00	92.0	63.5	65.5	-	67.8	75.0	N

Summary For the Reporting Quarter (Feb 2019 - Apr 2019)	
Average	66.3
Minimum	63.5
Maximum	68.0

**Noise monitoring result: SR77
(February 2019 - April 2019)**



Appendix F

Waste Flow Table

Monthly Summary Waste Flow Table

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Soil	Soil Reused in the Contract	Soil Reused in other Projects	Soil Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging (Note 3)	Plastics	Chemical Waste	General Refuse (Note 2)
Unit	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in m ³)	(in '000m ³)
Feb-19	4.659	0.841	3.818	-	-	3.818	0.030	-	-	-	-	0.075
Mar-19	5.146	0.376	4.770	-	-	4.770	0.000	-	-	-	-	0.075
Apr-19	0.787	0.138	0.644	0.000	-	0.644	0.000	-	-	-	-	0.145
Total	10.592	1.355	9.232	-	-	9.232	0.030	-	-	-	-	0.295

- Note:
1. Assume the density of soil fill is 2 ton/m³.
 2. Assume the density of rock and broken concrete is 2.5 ton/m³.
 3. Assume each truck of C&D wastes is 5m³.
 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 kg/m³.

Appendix G 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	<p>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.</p> <p>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.</p> <p>The complaint is considered an invalid complaint under this Project.</p>	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)	<p>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.</p> <p>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.</p> <p>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.</p>	Completed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>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</p> <p>The complaint is considered unlikely due to the construction works of this project.</p>	
C171228	28 December, 2017	1823	Kau Lung Hang and Hong Lok Yuen	<p>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</p>	<p>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.</p> <p>As advised by the Contractor, no construction works were carried out during the public holiday.</p> <p>No exceedance of TSP level at the air monitoring station under this Contract was recorded in the past six months except 8 December 2017.</p>	

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				<p>關建築商。附圖是該區狀況。昨日洗車，一日已經沙塵滿佈。)</p>	<p>Exceedance on 8 December 2017 was considered not project related as no major excavation works located close to the monitoring location at SR77.</p> <p>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.</p>	



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