

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

Quarterly EM&A Report

May 2020 to July 2020

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 (May 2020 to July 2020)

Certified by:	W. K. CHIU
Position:	Environmental Team Leader
Date:	1 September 2020



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 AFK/EC/ST/cy/T329380/2 2.05/L-0340

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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 Quarterly EM&A Summary Report for May 2020 to July 2020 for the portion of

Stage 2 works entrusted to CEDD under Contract No. CV/2012/09

28 August 2020 By Fax (2805 5028) & Hand

We refer to the Quarterly EM&A Summary Report for May 2020 to July 2020 for the Project received on 27 August 2020 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
 Mr. Chung Lok Chin
 By Fax (2714 5198)

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 Mr. Gilbert Wong
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Date	Revision	Prepared By	Checked By	Approved By
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EXECUTIVE SUMMARY

This report documents the findings of EM&A works conducted in the quarter between 1 May 2020 and 31 July 2020.

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 have submitted the termination proposal to EPD on 4 April 2018. And EPD replied the Final EM&A Report need to be provided to facilitate the consideration of construction phase EM&A Programme and the EM&A monitoring and audit works will not be terminated without prior approval of EPD.



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;
 - Connect the permanent power supply for the lighting system.

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**.

- 1 -

Table 2.1 Contact Information of Key Personnel

Party	Role	Position	Name	Telephone	Fax
AECOM	Engineer's Representative	Senior Resident Engineer	Mr. Julian Ling	2171 3303	2171 3498
Mott MacDonald	Independent Environmental Checker (IEC)	IEC	Mr. Steven Tang	2828 5920	2827 1823



Party	Role	Position	Name	Telephone	Fax		
	_	Site Agent	Mr. Chan	2638 6144			
Chun Wo	Contractor	Environmental Officer	Mr. Yip Yun Lam	3166 5111	2638 7077		
Meinhardt	Environmental Team (ET)	ET Leader	Mr. WK. Chiu	2859 5881	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 May 2020 to 31 July 2020.

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	μ g /m³	292.7	500	Three times every 6 days							
24-hour TSP	μ g /m³	170.3	260	Once every 6 days							
		Construction	n 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	Minimum Maximum								
Air Quality										
1 hour Total Suspended Particulate										
SR77 50.5μg/m ³ 199.4 μg/m ³ 140.6μg/										
	24 hour Total Sus	spended Particulate								
SR77	90.3 μg/m ³									
Construction Noise										
SR77	62.5dB(A)	67.5(A)	64.9dB(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	Action Level	0	0								
Particulates	Limit Level	0	0								
24-hour Total Suspended	Action Level	0	0								
Particulates	Limit Level	0	0								
	Construc	ction Noise									
	Action Level	0	0								
Leq 30min	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.

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 335m³ of excavated material has been generated. 335m³ 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. 35m³ 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

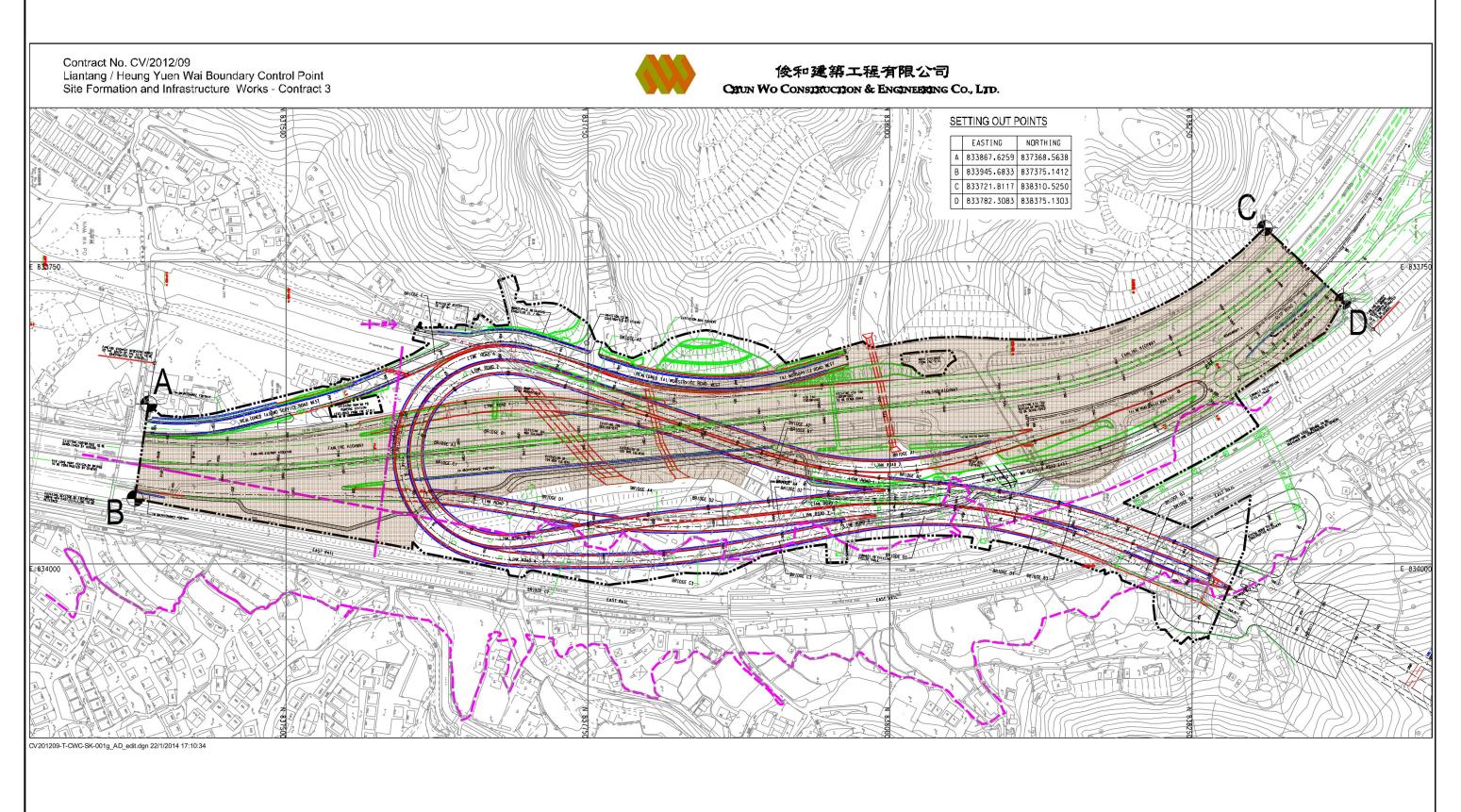
6.1.1 No environmental non-compliance was recorded in the reporting quarter. No environmental complaint was received. No environmental related prosecution or notification of summons was received in the reporting quarter. The summary for the non-compliance, complaints and prosecutions is provided in **Appendix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



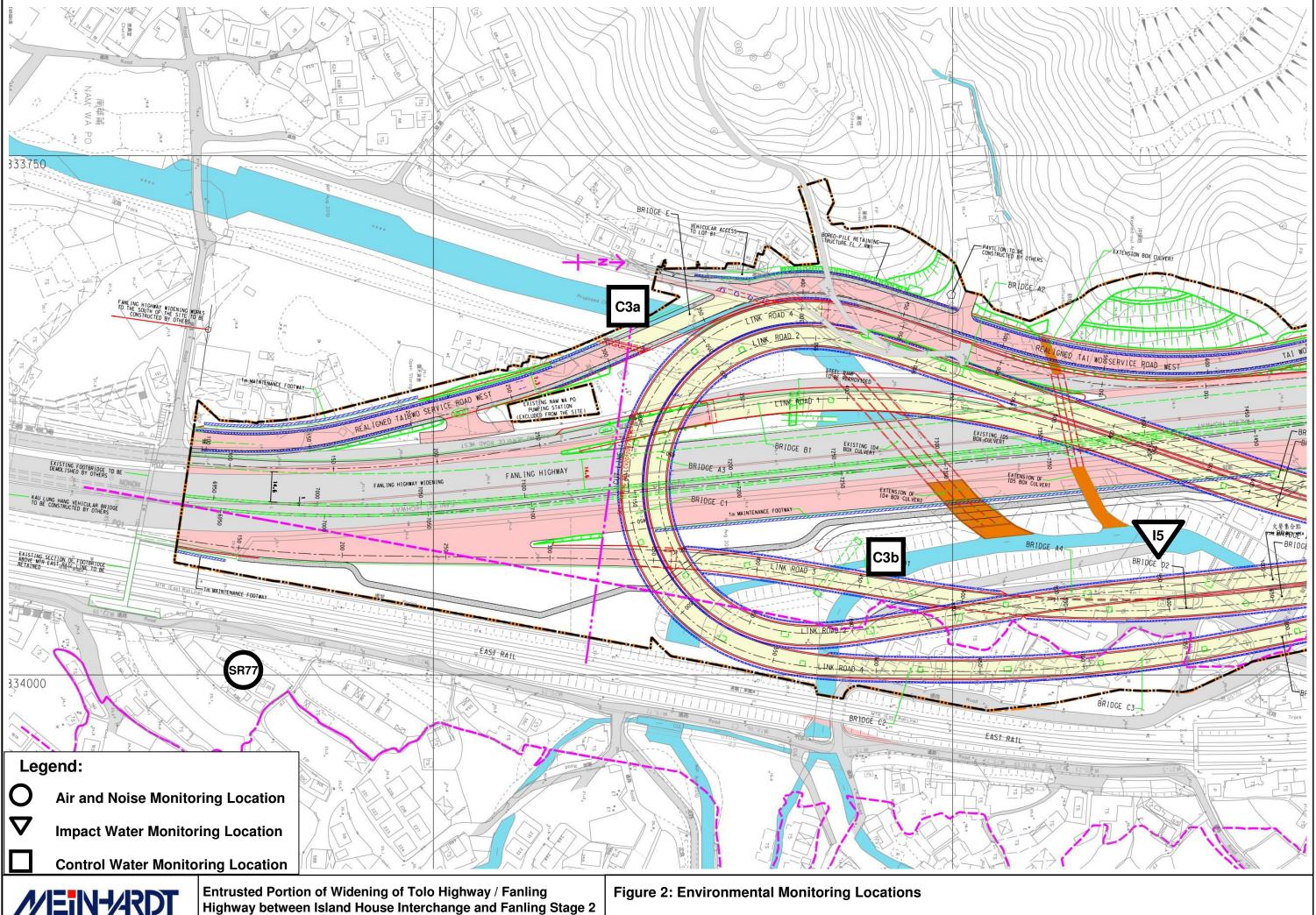
Legend:

Works Area for Entrusted Portion



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



MEIN-ARDT



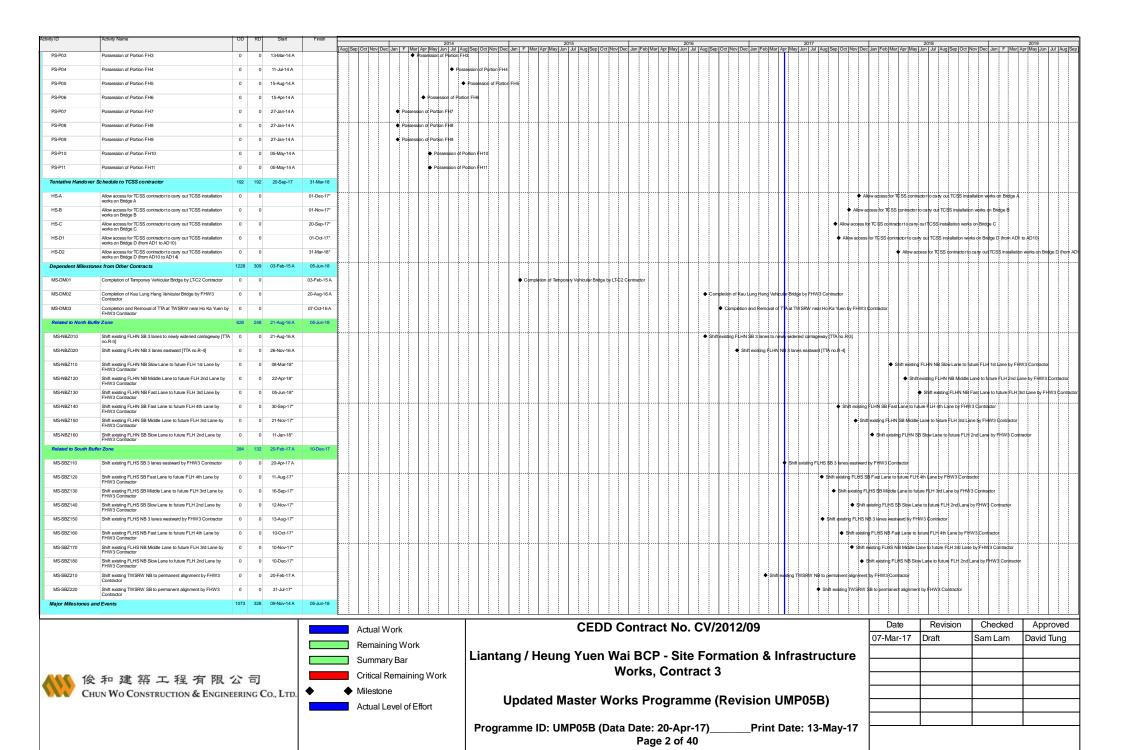
Appendix A Construction Programme

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MS-0110	Completion of 4 nos. of piers crash with the existing FLH NB (by 2 sets)	0	20-Apr-16 A	-g Sta Nov State State I mai Apri may Juli Juli J	roug Dep Dist prior Dec. 3 mil r i med rus priory Jun 3 at rough get put to the care prior prior pri
MS-0120	Completion of 2 nos. of piers crash with existing FLH (by 1 set) 1073	3 0 09-Nov-14 A	18-Feb-17 A		Company of a ross of general gainst Hardward (Supplementary of a ross of general gains) with ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which ejecting FT Hardward (Supplementary of a ross of general gains) which every supplementary of a ross of general gain (Supplementary of a ross of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of general gains (Supplementary of general gains) which every supplementary of g
MS-0210	Commissioning of the diverted twin DN1400 Dong Jiang 0 Watermains (Stage 1)	0	27-May-15 A		■ Commissioning of the dijenteig twin DN1400 Dong Jang Walermains (\$tage;1) Commissioning of the dijenteig twin DN1400 Dong Jang Walermains (\$tage;1)
MS-0220	Commissioning of the diverted twin DN1400 Dong Jiang 0 Watermains (Stage 2)	0	05-Sep-17*		◆ Commissioning of the liverled twin DN1400 Dong Jiding Watermains (Stagle 2)
MS-0230	Commissioning of the diverted DN2300 Dong Jiang Watermains 0	0	24-Dec-15 A		● Compressioning of the disjoint ON 2000 Ford Junip Weightnames
MS-0310	Demolition of the whole Kiu Tau Vehicular Bridge 0	0	22-Mar-17 A		◆ Definition of the weight Tay Vertical Excellent
MS-0320	Commissioning of re-aligned TWSRE 0	0 18-Sep-17			Decimalization of contractions of the contraction of the contract
MS-0410	TTA to divert TWSRW traffic to the completed re-aligned TWSRW (excl. South Buffer Zone)	0 26-Apr-16 A	26-Apr-16 A		II TTG to de n TWSTRV raffer in the completed on edigrand T VERW (seed South Baller 25no)
MS-1010A	T1a: TTA to shift FLHS SB eastward to the widened pavement (shift 1 lane)	0 09-Nov-14 A	09-Nov-14 A		I Tha TRuban Furt SB based at the foliation of the control from the food
MS-1010B	T1b: TTA to shift FLHS SB eastward to the widened pavement (shift 2 lanes)	0 08-Mar-15 A	08-Mar-15 A		I Tib: TTA to shift FLHS SB 4estwent of the Middened polyvement (shift 2 lanes)
MS-1010C	T1c: TTA to shift FLHS SB eastward to the widened pavement (shift 1 3 lanes)	0 22-Mar-15 A	22-Mar-15 A		1 Tri_Tru- and Fulls Sel customatic the water comment (and States)
MS-1020	T2: TTA to shift FLHS NB eastward 1	0 27-Jun-15 A	27-Jun-15 A		I T2:TTA to shift FLHS NB eastward:
MS-1030A	T3a: TTA to shift FLHS SB eastward to unoccupy the middle (between CH7130 & CH7470) [TTA no.R-2]	0 07-Mar-16 A	07-Mar-16 A		I T3s: TTA to shift RLHS SB easward to unoccupy the iniddle (behweel CH7130 B CH747d) (TTA no.R-2)
MS-1030B	T3b: TTA to split FLHS NB & SB with 3 Lanes in the middle unoccupied (between CH7130 & CH7470) [TTA no.R 2]	0 20-Mar-16 A	20-Mar-16 A		I T30::TTA10 split FLHS NB & SB with 3 Lisnes in the middle unbodupied (between CH7120 & CH7470) (TTA10.R-2)
MS-1040	T4: TTA to shift partial FLHN SB eastward to Temp. Pavement connecting FHW3's TTA Scheme [TTA no.R-3]	0 21-Aug-16 A	21-Aug-16 A		1 TA: TTA to shift partial FLHN SB eathward to Temp. Pavement contecting FHW3 st TTA Schieme [TTA rib, R-3]
MS-1050	T5: TTA to shift partial FLHN NB eastward to existing SB connecting FHW3's TTA Scheme [TTA no.R-4]	0 26-Nov-16 A	26-Nov-16 A		
MS-1060a	T6a: TTA to shift FLH SB eastward (shift 2 lanes) (North Portion)	1 23-Apr-17*	23-Apr-17		Too TITA to ship File SB passions plant to be a) (North Portion)
MS-1060c	T6c: TTA to shift FLH SB Fast Lane eastward (North Portion)	1 30-Jun-17	30-Jun-17		(I TBit TUT to shift FEH SB Fast Lanie esistment (Noth Portion)
MS-1060c1	T6c1: TTA to shift FLH SB eastward (shift 3 lanes at Zone 5)	1 06-Oct-17	06-Oct-17		I Triệnt: Tặ An Quan F Euri Sa depated quốt 3 lanced az Ziọna S)
MS-1060d	T6d: TTA to shift FLH SB eastward (shift 3 Lanes) (South Portion) 1	1 22-Sep-17	22-Sep-17		I Teal TTA jo and F. Feb State amount of sinh is Lampas) (Sozoni Pronton)
MS-1060e	T6e: TTA to shift FLH SB Fast Lane to the Permanent Alignment (4th lane) (South Portion)	1 03-Nov-17	03-Nov-17		
MS-1060f	T6f: TTA to shift FLH SB Middle Lane to the Permanent Alignment (3rd lane) (South Portion)	1 03-Dec-17	03-Dec-17		T TRE TTG to date FLH SB Medias Lines to the Premiorand Allegrands (South Fiscos)
MS-1060h	T6h: TTA to shift FLH SB Slow Lane to the Permanent Alignment (2nd lane) (South Portion)	1 05-Jan-18	05-Jan-18		II Tight: TTA to Shift FLH SB Slight Lighte 1to the Permianent Alignment (2nd land) (South Portion)
MS-1070a	T7a: TTA to shift FLHS SB eastward (shift 3 lanes), within SBZ	0 20-Apr-17 A	20-Apr-17 A		T72=TTA to draft FLHS SB explanation of States, where SSS
MS-1070b	T7b: TTA to shift FLH SB Fast Lane to the Permanent Alignment (4th lane), within SBZ	1 11-Aug-17	11-Aug-17		I the Wasiani Flat Se Figu Line th make the companied Adjamain (set) and, welfan Set 2
MS-1070c	T7c: TTA to shift FLH SB Middle Lane to the Permanent Alignment 1 (3rd lane), within SBZ	1 16-Sep-17	16-Sep-17		1 T7c: TYAto shift FLH:SB Middle Large to the Permanent Alignment (3rd lane), within SB2
MS-1070d	T7d: TTA to shift FLH SB Slow Lane to the Permanent Alignment (2nd lane), within SBZ	1 12-Nov-17	12-Nov-17		1 fizz. Tixas draini FLHESS Storu Liane to the Premiument Adjamente Cod towns, within SSZ
MS-1080a	T8a: TTA to shift FLH NB Fast Lane to the Permanent Alignment (4th lane) (South Portion)	0 24-Mar-17 A	24-Mar-17 A		Tab TTAG of the FLF1ND Face Love to the Permodern Algorithm of the Nation (Bount Protein)
MS-1080b	T8b: TTA to shift FLH NB Middle Lane to the Permanent Alignment 1 (3rd lane) (South Portion)	1 16-May-17	16-May-17		I Tiss: TTA is shall FLH ND Redding Lame to the Fernanders Republicant Scralins in Scralin
MS-1080c	T8c: TTA to shift FLH NB Slow Lane to the Permanent Alignment (2nd lane) (South Portion)	1 11-Jun-17	11-Jun-17		I TBc: TTA to brift FLH NB Stow Line to this; Permanent Alignment (chit laine) (South Portion)
MS-1090a	T9a: TTA to shift FLHS NB westward (shift 3 lanes), within SBZ	1 13-Aug-17	13-Aug-17		I Tea: TEAts shift-EHS NB westward shift, 3 lares), within SBZ
MS-1090b	T9b: TTA to shift FLHS NB Fast Lane to the Permanent Alignment (4th lane), within SBZ	1 10-Oct-17	10-Oct-17		I 1750: 171A to Parti FLH\$ NB Fast Lane(to the Permanent Algoment (4th Iane), within \$82
MS-1090c	T9c: TTA to shift FLHS NB Middle Lane to the Permanent Alignment (3rd lane), within SBZ	1 10-Nov-17	10-Nov-17		I TBc: TTA to shift FLH\$ NB Middle Late to the Permahent Alignihent (3rd lane), within SB2
MS-1090d	T9d: TTA to shift FLHS NB Slow Lane to the Permanent Alignment (2nd lane), within SBZ	1 10-Dec-17	10-Dec-17		I TBct TRAtoSnit FLH\$ NB SlowLand to the Permanent Algoment (2nd sine), within SB2
MS-1110a	T11a: TTA to shift FLHN NB Slow Lane to the Permanent 1 Alignment (1st lane), within NBZ	1 08-Mar-18	08-Mar-18		I T11a: T1xtg shift FLHn NB Slow Lane to the Permanent Alignment (1st laine), within/NBZ
MS-1110b	T11b: TTA to shift FLHN NB Middle Lane to the Permanent Alignment (2nd lane), within NBZ	1 22-Apr-18	22-Apr-18		1: Trits: TT/ to shift FEHN NS MiddleLane to the Pelmanent Algoment (2nd lare), within
MS-1110c	T11c: TTA to shift FLHN NB Fast Lane to the Permanent Alignment (3rd lane), within NBZ	1 05-Jun-18	05-Jun-18		js Tftc: TDA oshit FLHN NBFast Lane to the Permanent Algorithm (did laire), w
MS-1120a	T12a: TTA to shift FLHN SB Fast Lane to the Permanent 1 Alignment (4th lane), with NBZ	1 30-Sep-17	30-Sep-17		T12a: TFA to shift FLHN SB Fast Lane to the Permanent Allorment (4th lane), with NBZ
MS-1120b	T12b: TTA to shift FLHN SB Middle Lane to the Permanent Alignment (3rd lane), with NBZ	1 21-Nov-17	21-Nov-17		I *1125: TTAto shift FLH SB Middle Land to the Permanent Algoment (Sid lake), with NBZ
MS-1120c	T12c: TTA to shift FLHN SB Slow Lane to the Permanent 1 Alignment (2nd lane), witin NBZ	1 11-Jan-18	11-Jan-18		I 1 Ti 2c: TTAth shit FLHN SB Stot Lark to the Permahent Alignment 2nd lane); witniNSZ
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				Remaining Work	07-Mar-17 Draft Sam Lam David Tung
				Summary Bar	Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure
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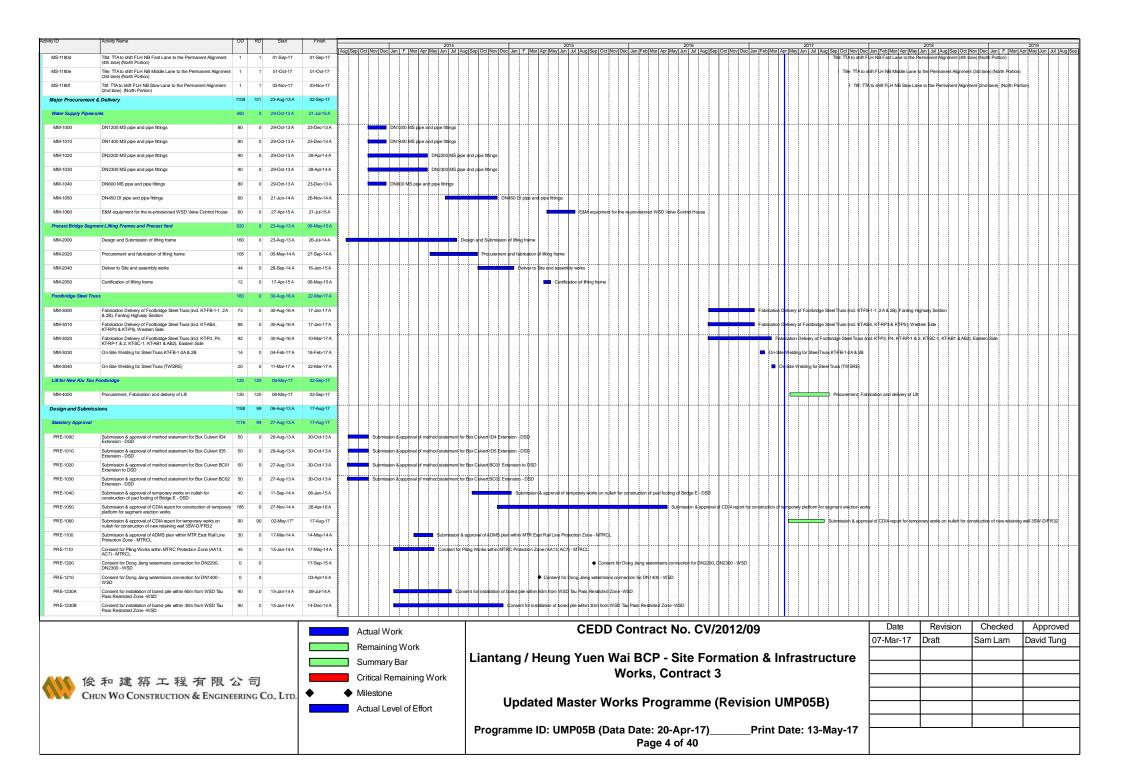
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•	Milestone
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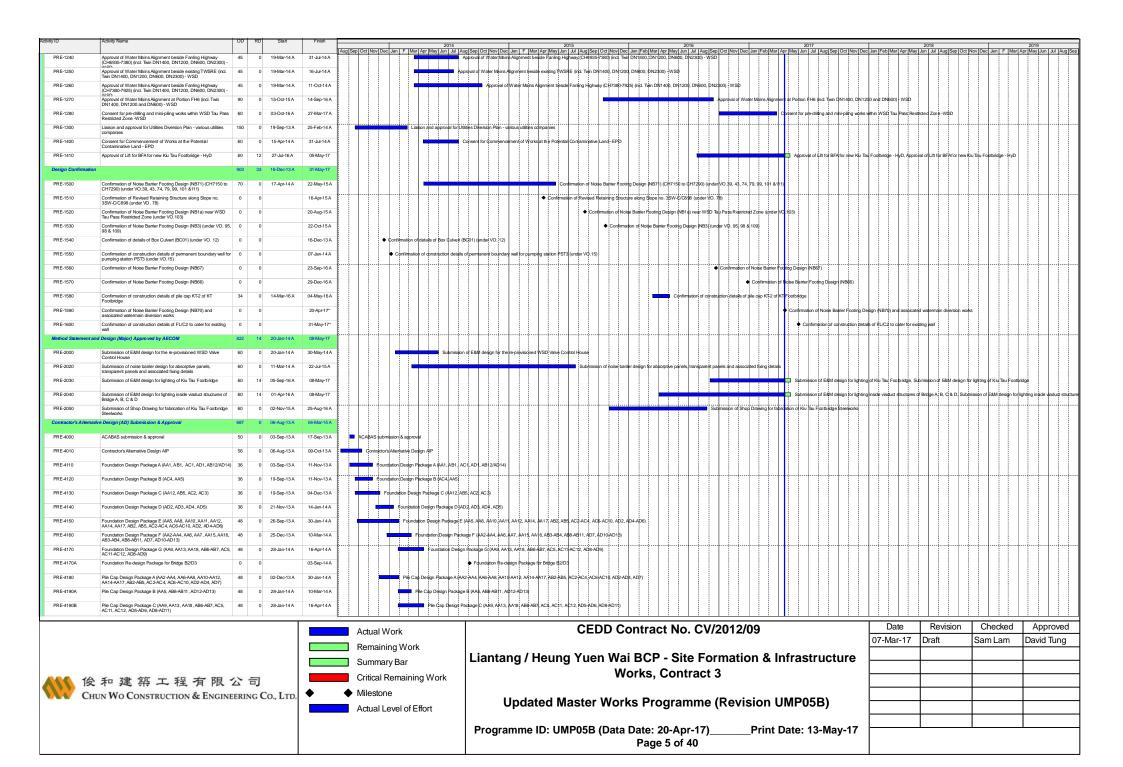
Works, Contract 3

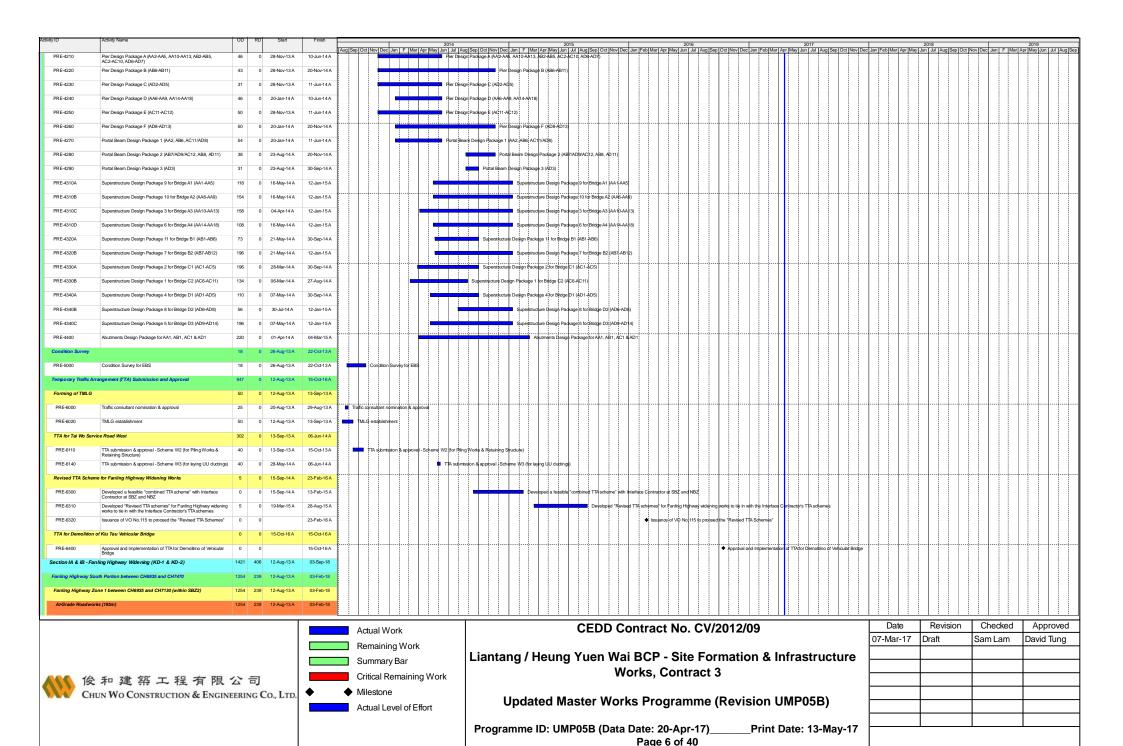
Updated Master Works Programme (Revision UMP05B)

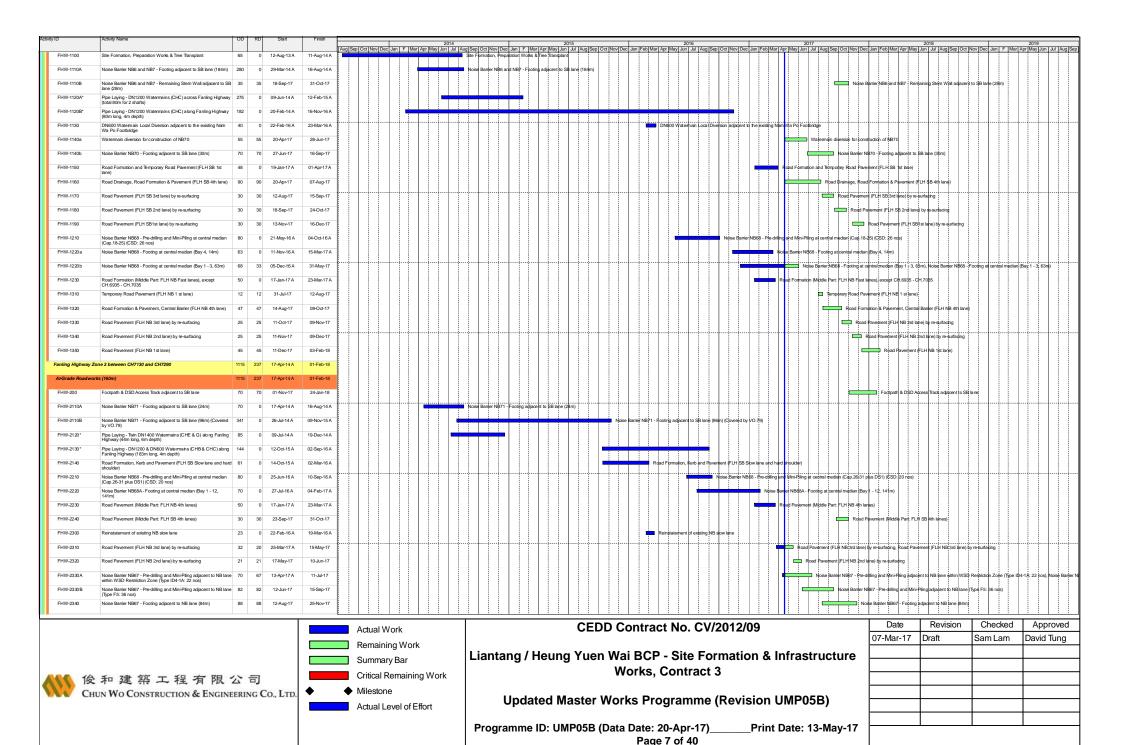
Programme ID: UMP05B (Data Date: 20-Apr-17)_ Page 3 of 40 _Print Date: 13-May-17

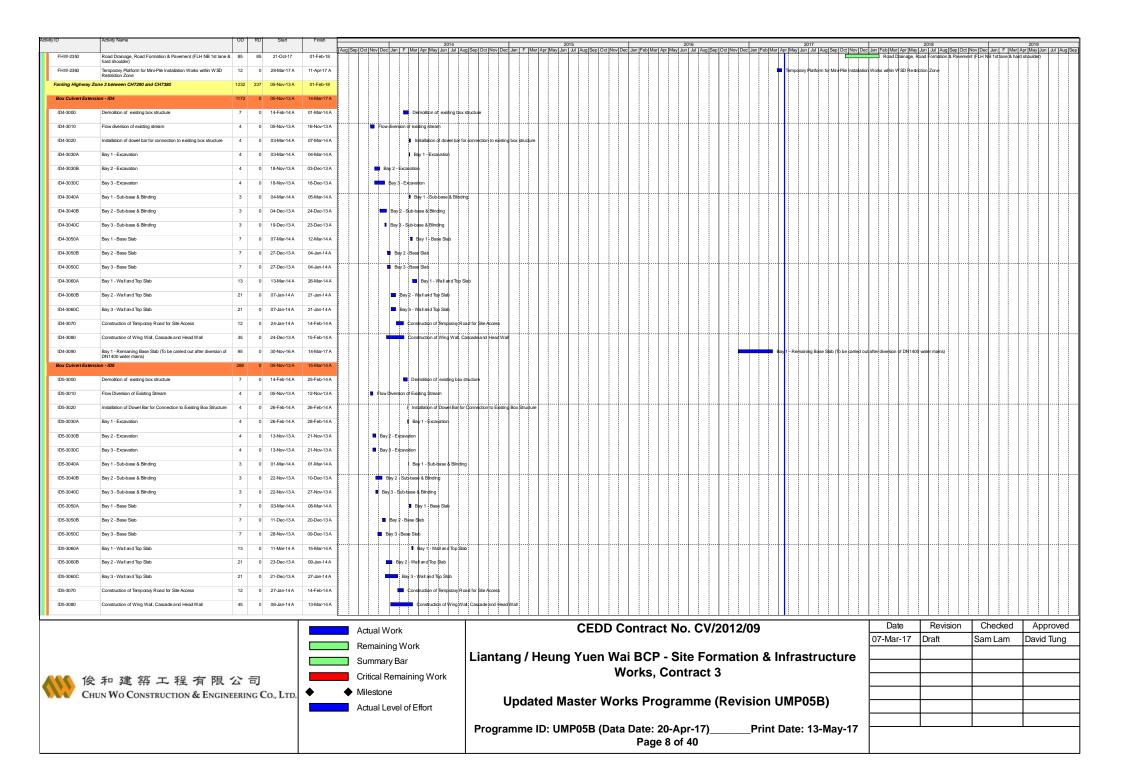
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7-Mar-17	Draft	Sam Lam	David Tung

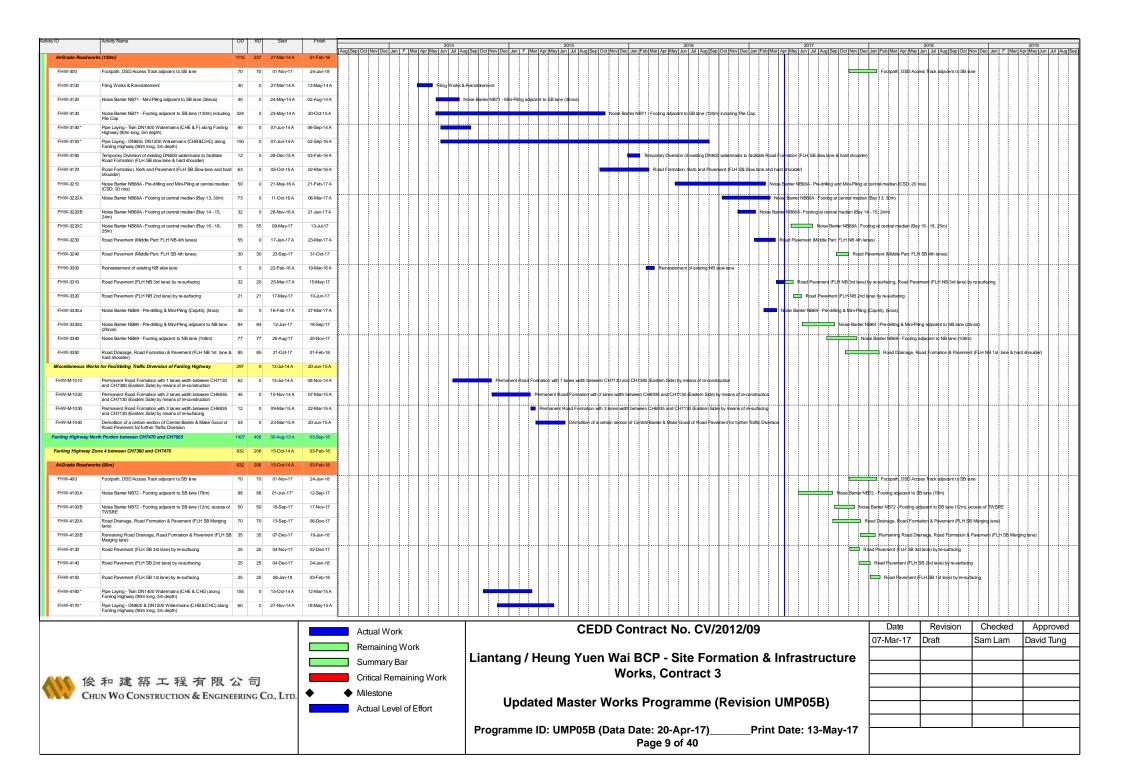


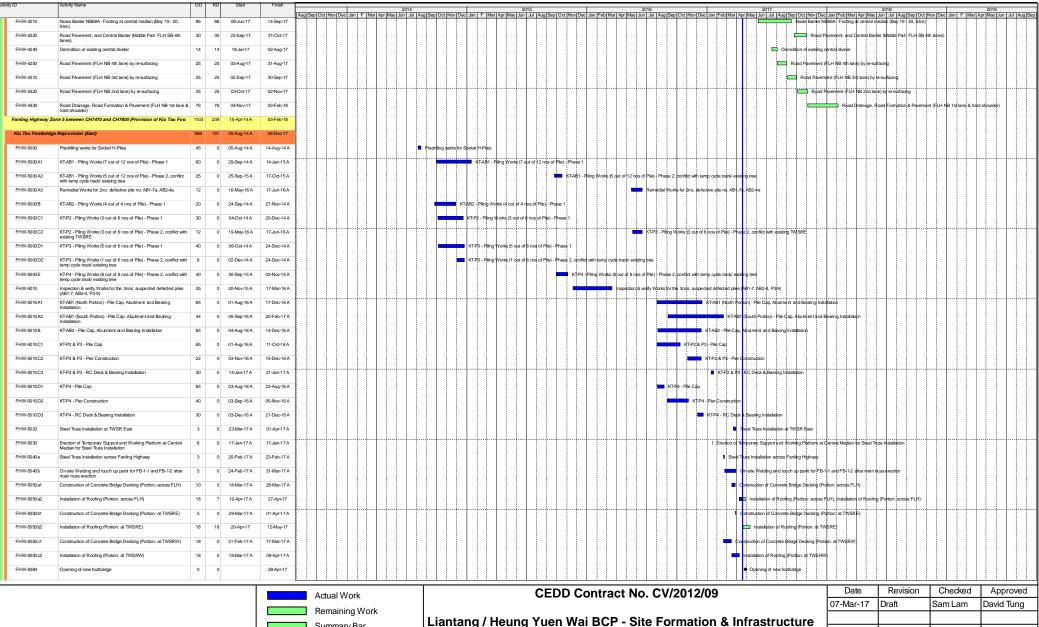
















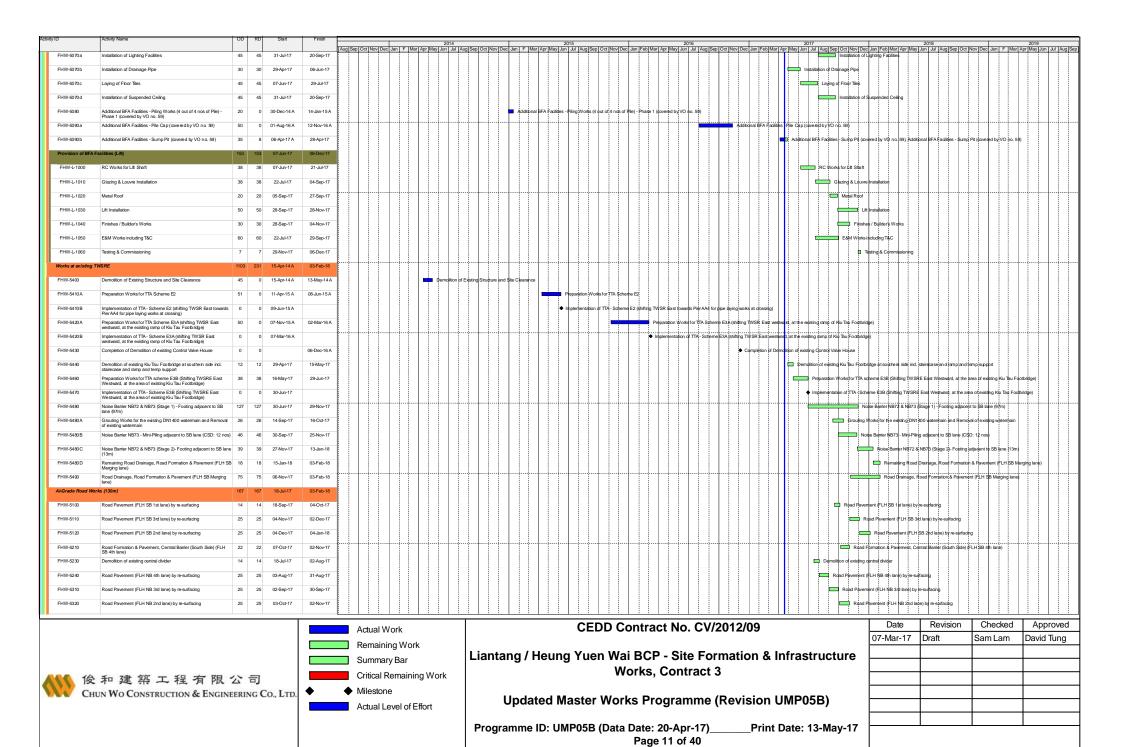
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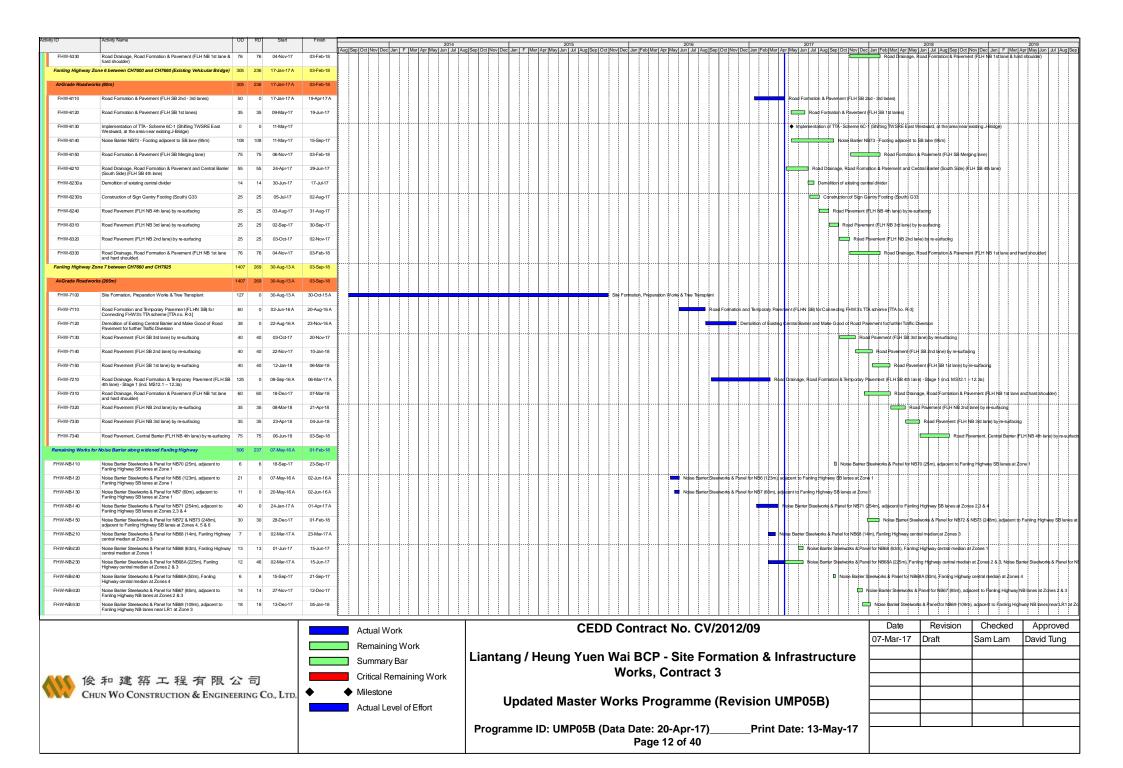
Works, Contract 3

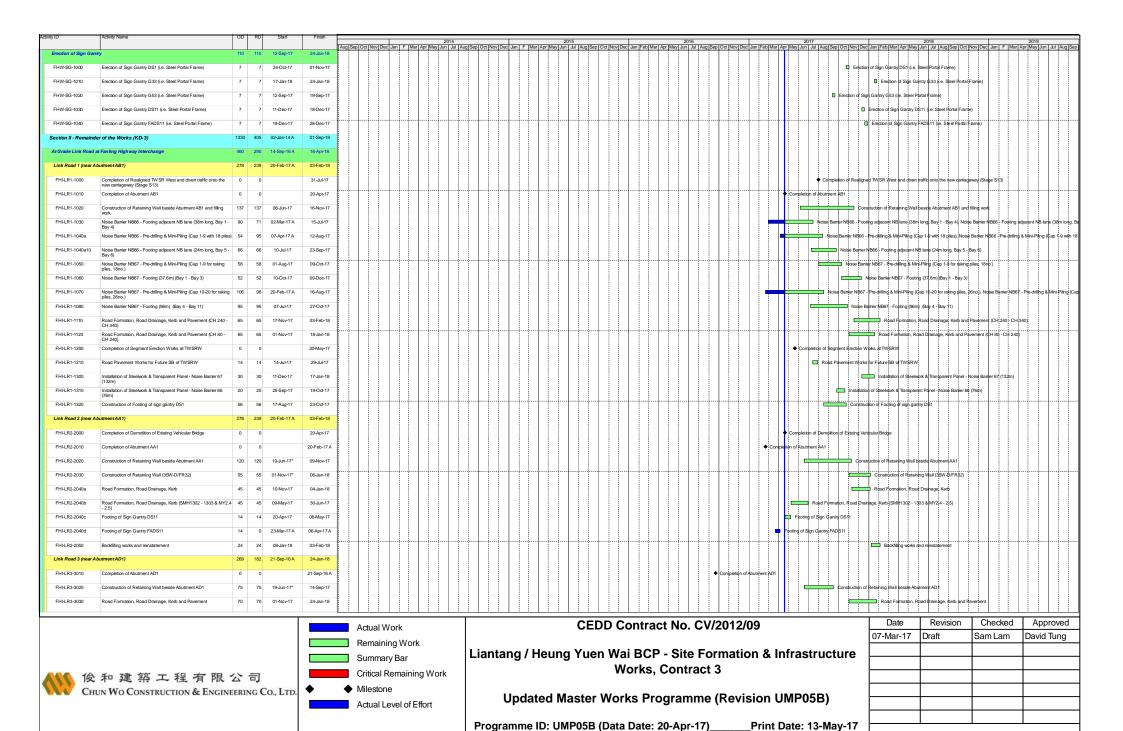
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Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17
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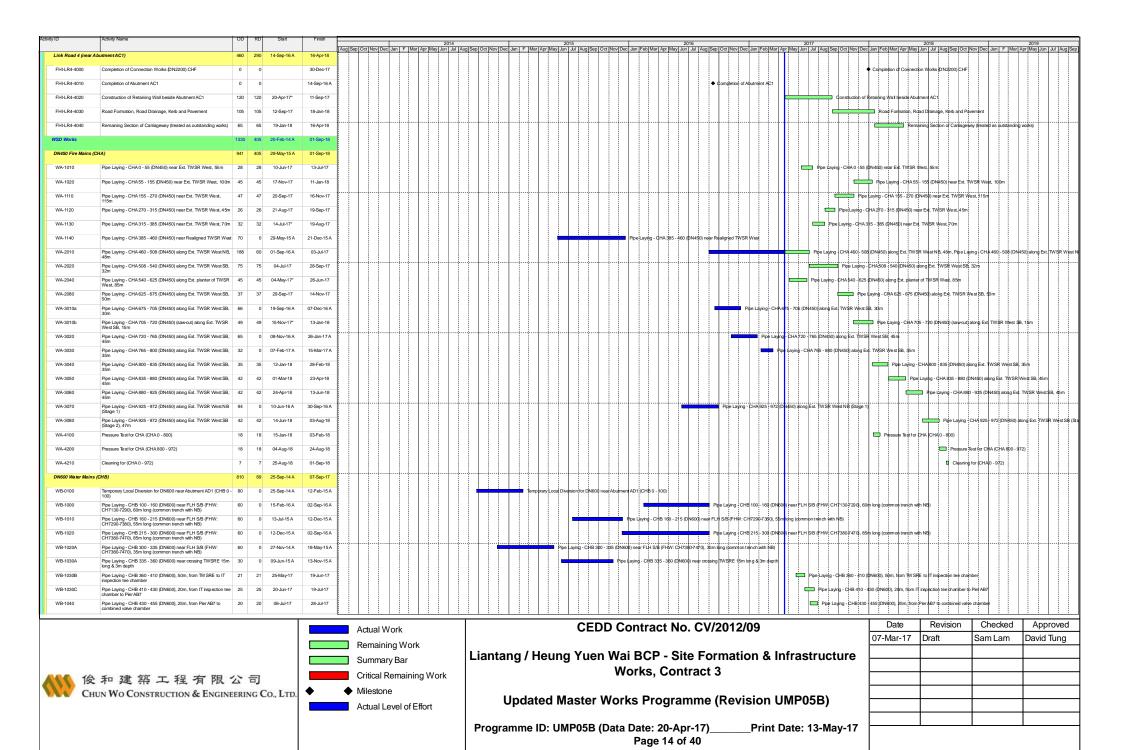
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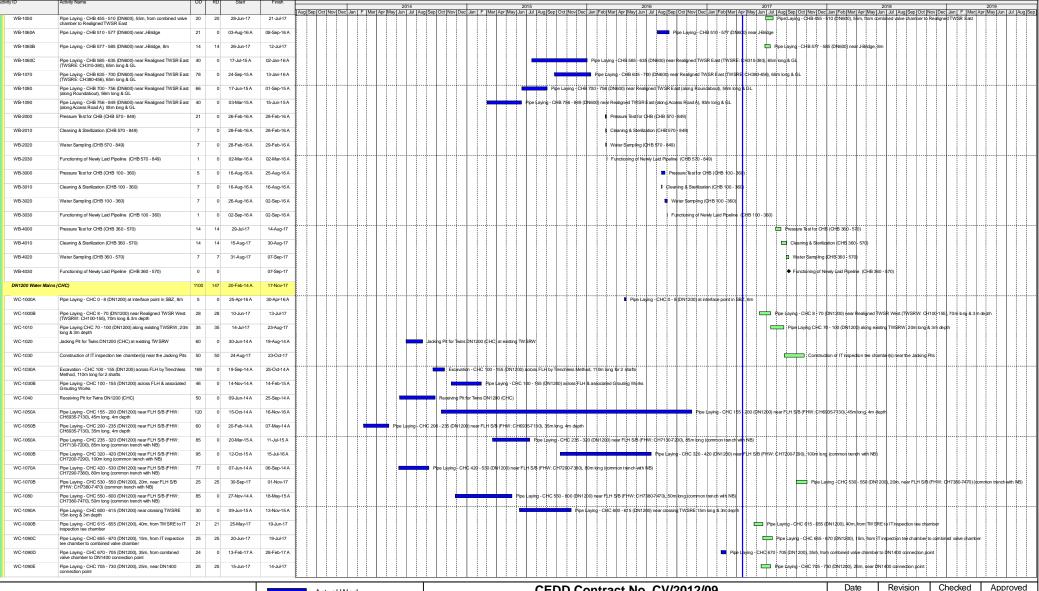






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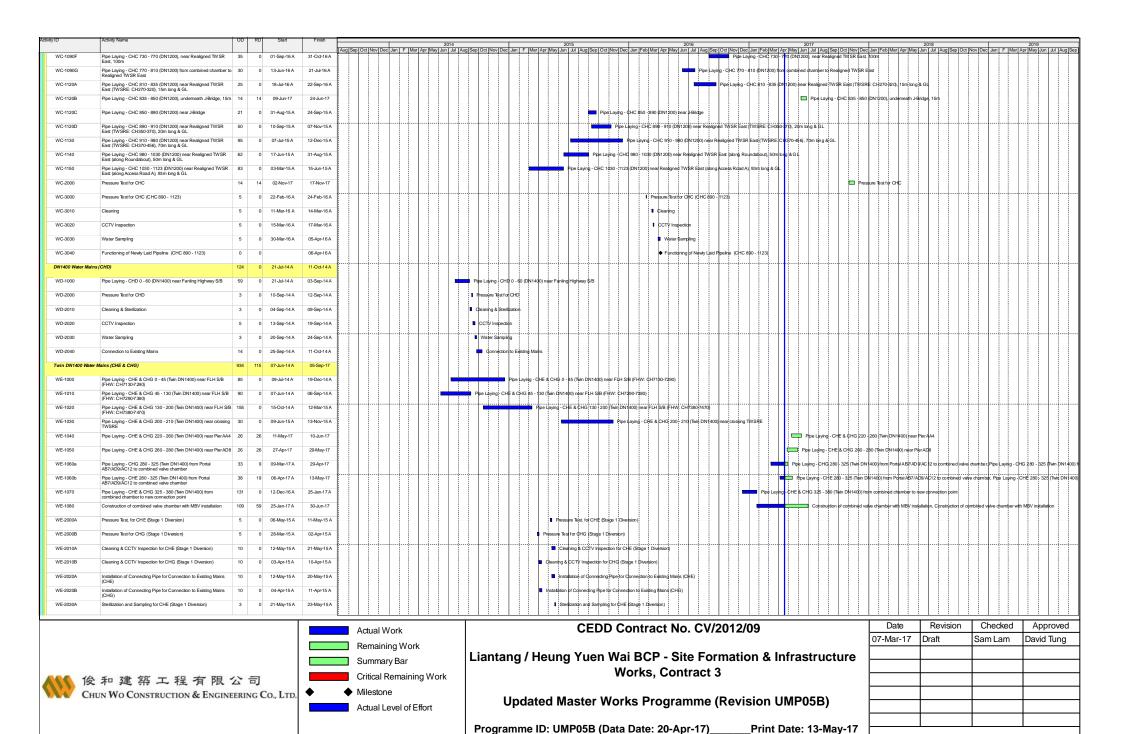
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Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

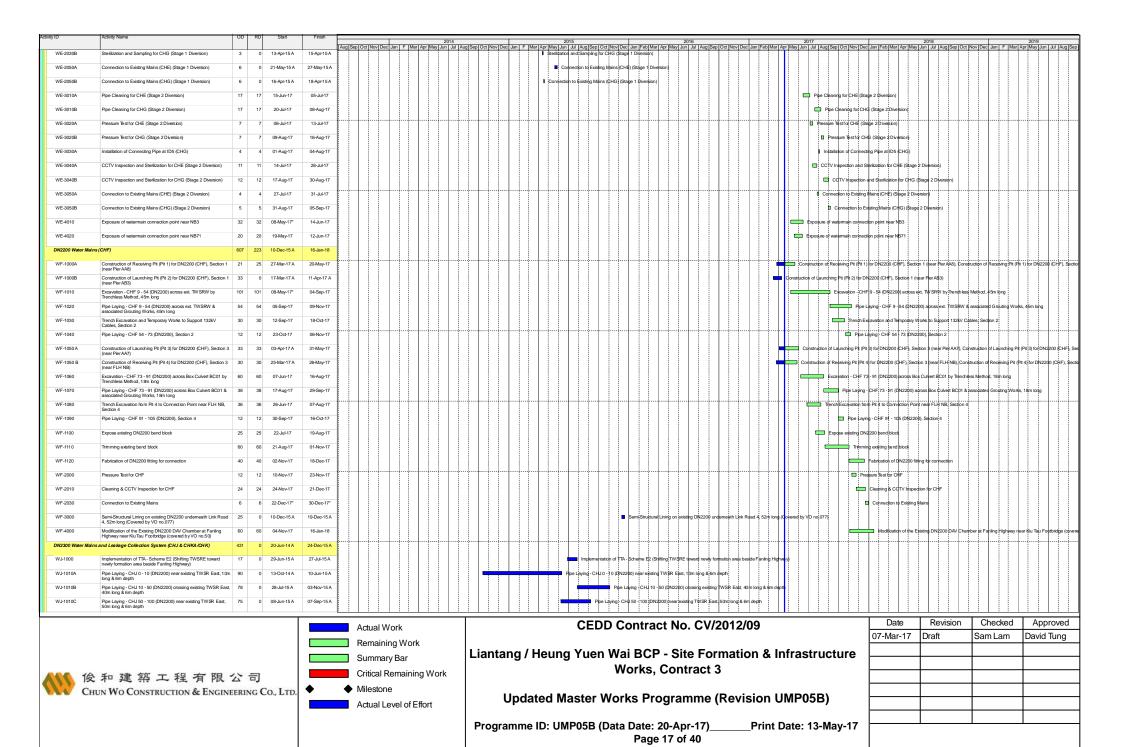
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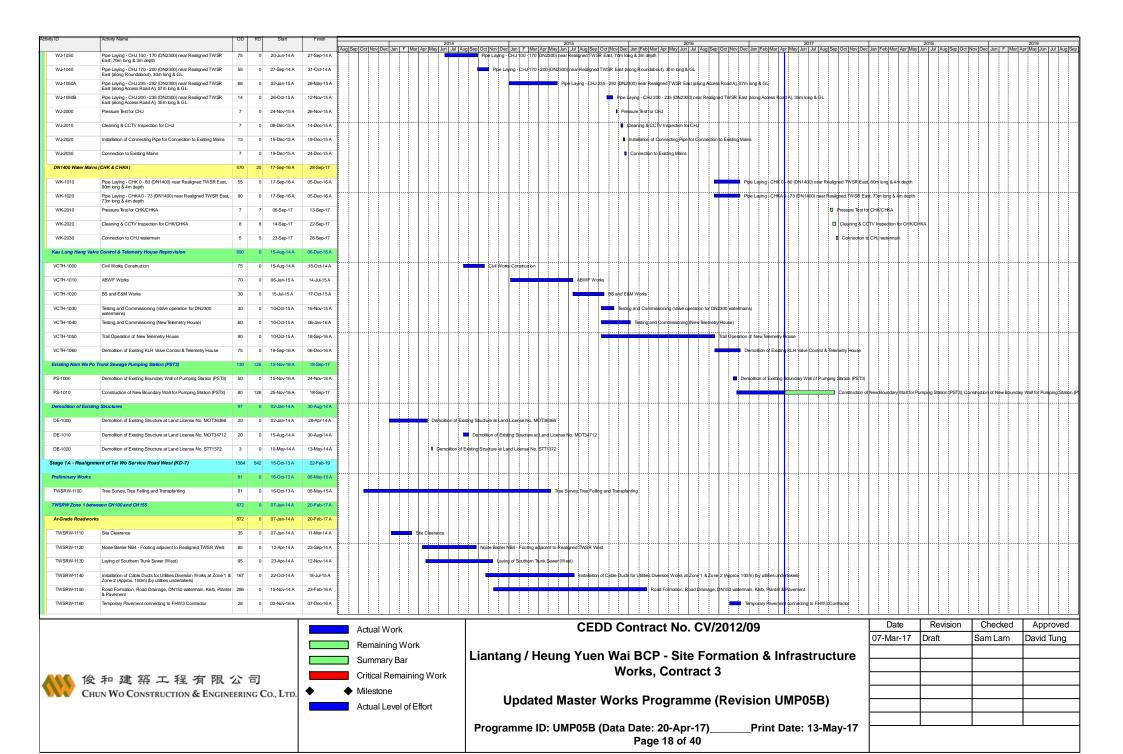
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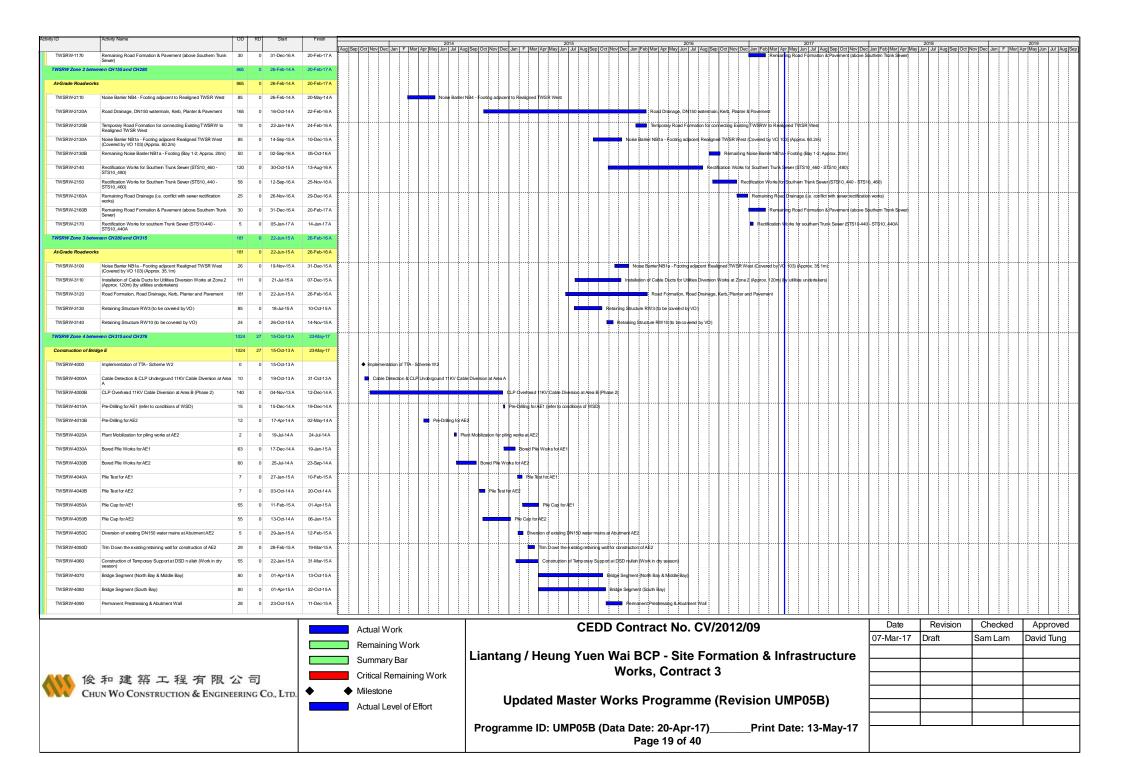
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7-Mar-17	Draft	Sam Lam	David Tung

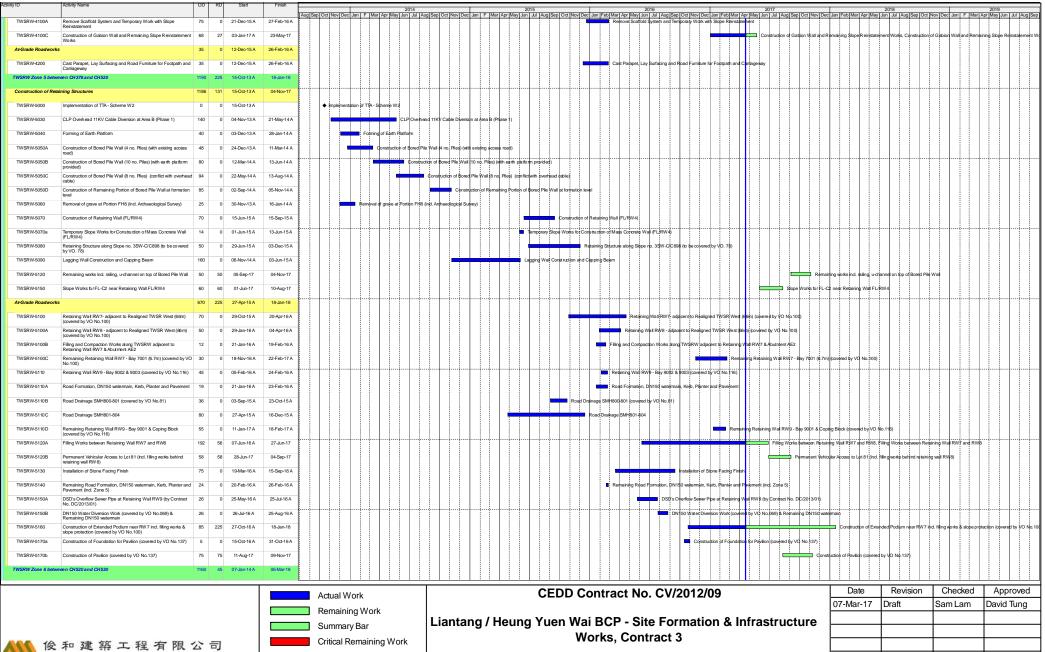


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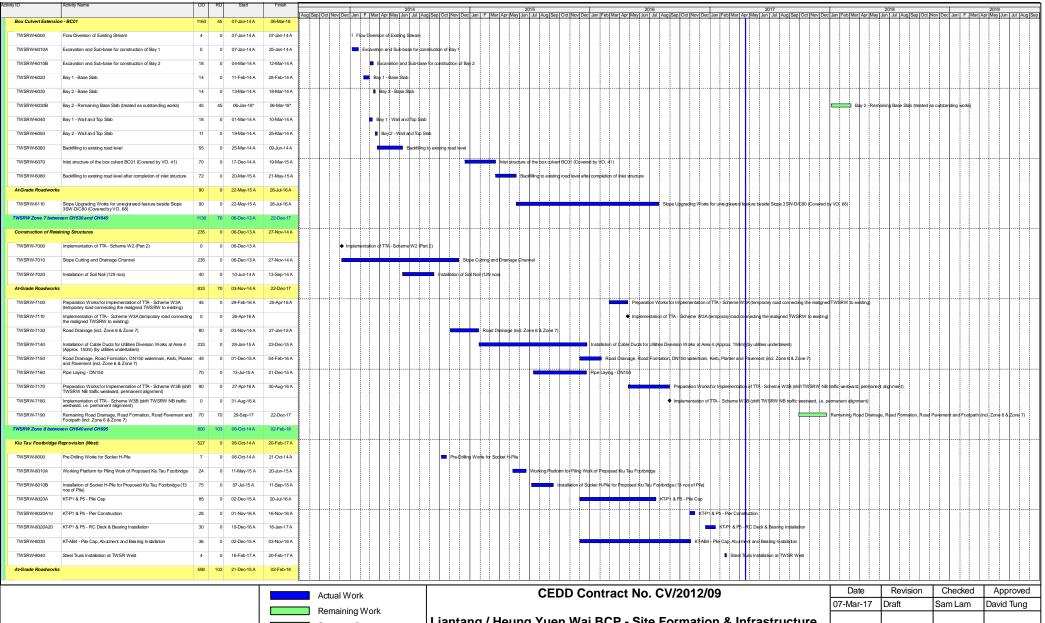
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 Milestone Actual Level of Effort

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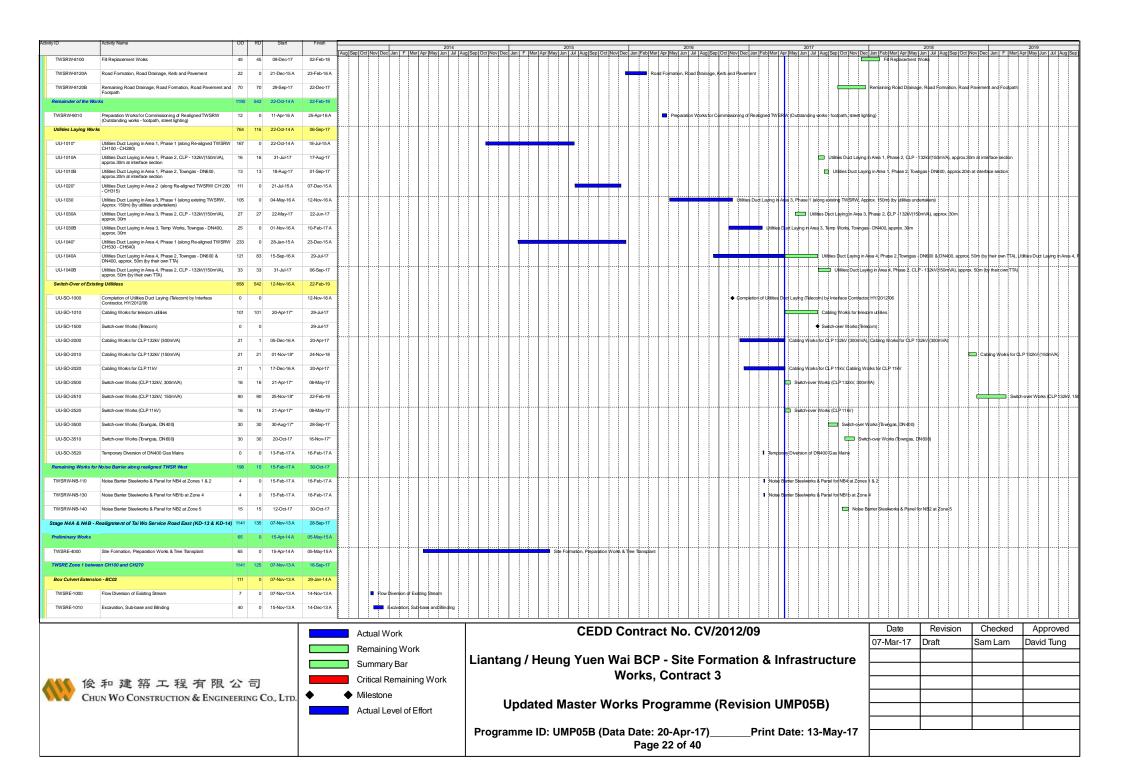


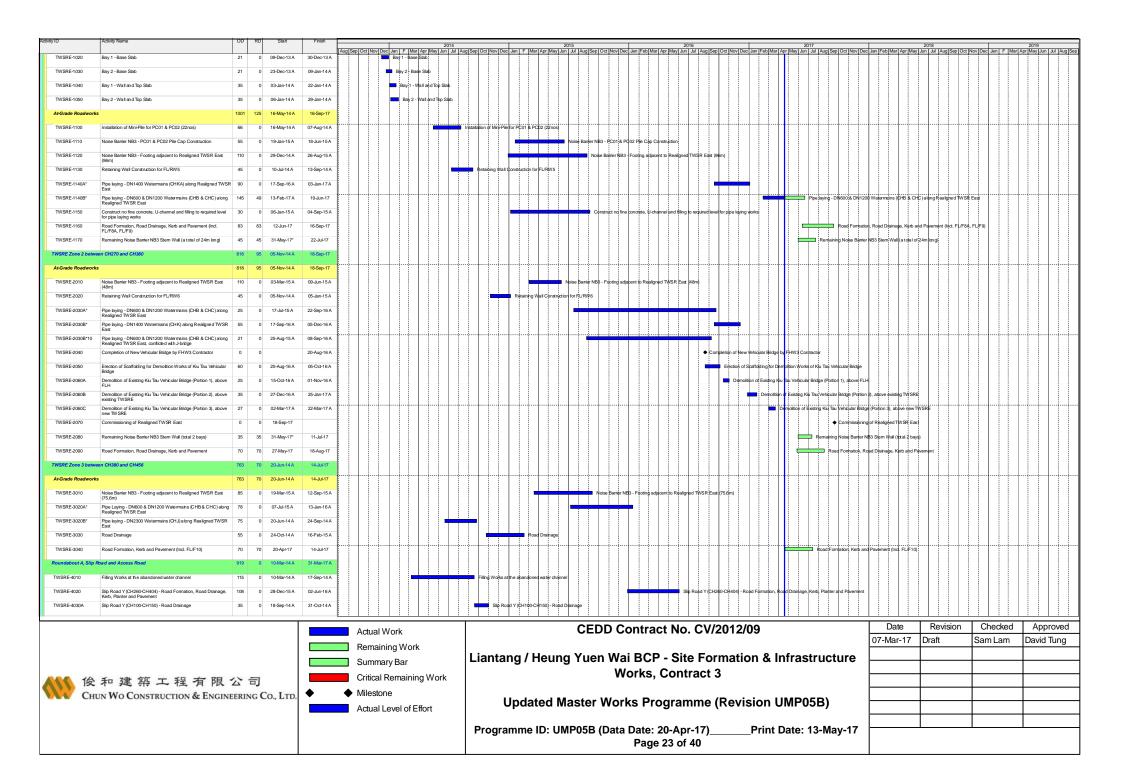
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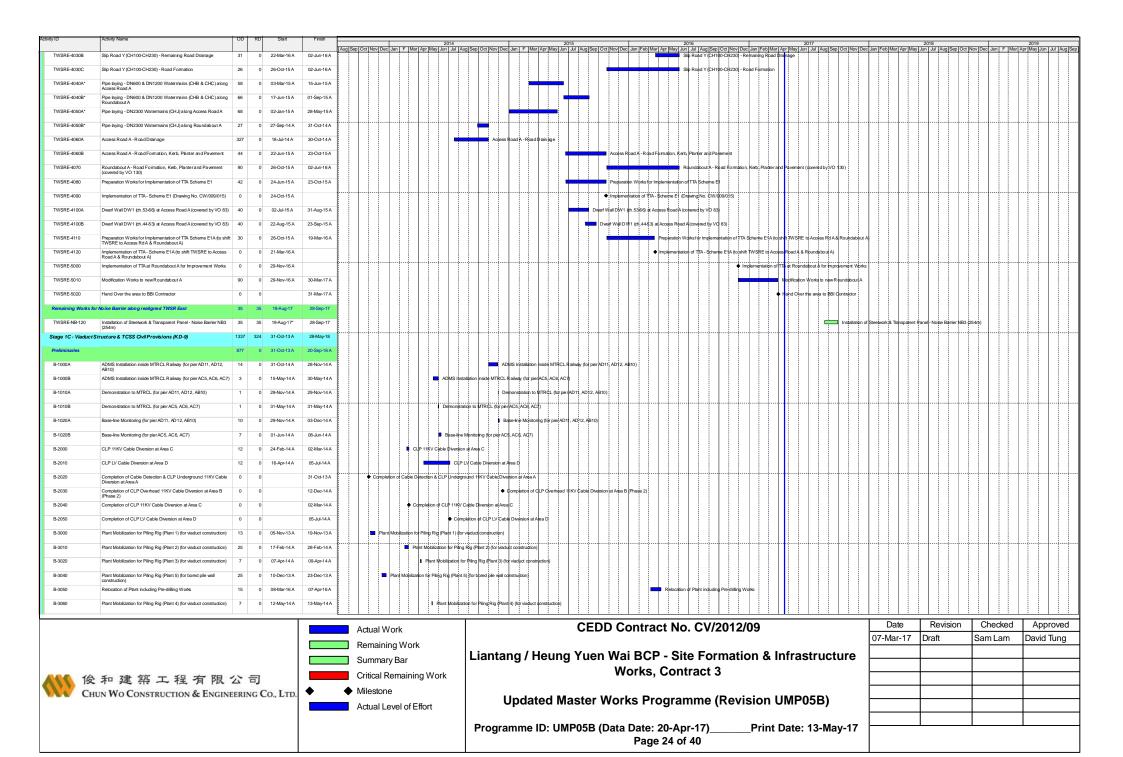
Updated Master Works Programme (Revision UMP05B)

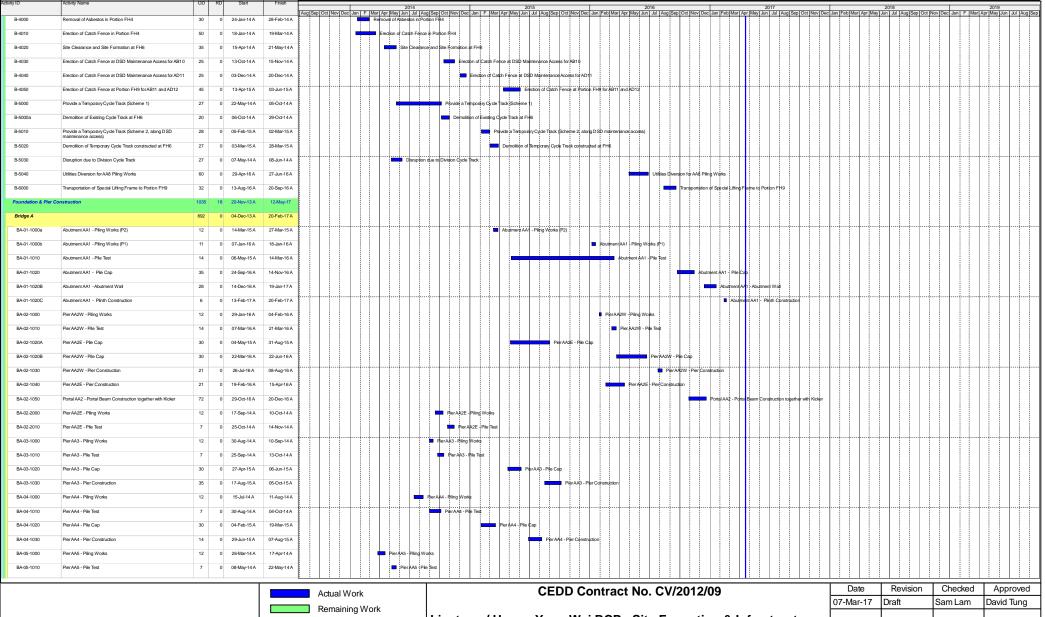
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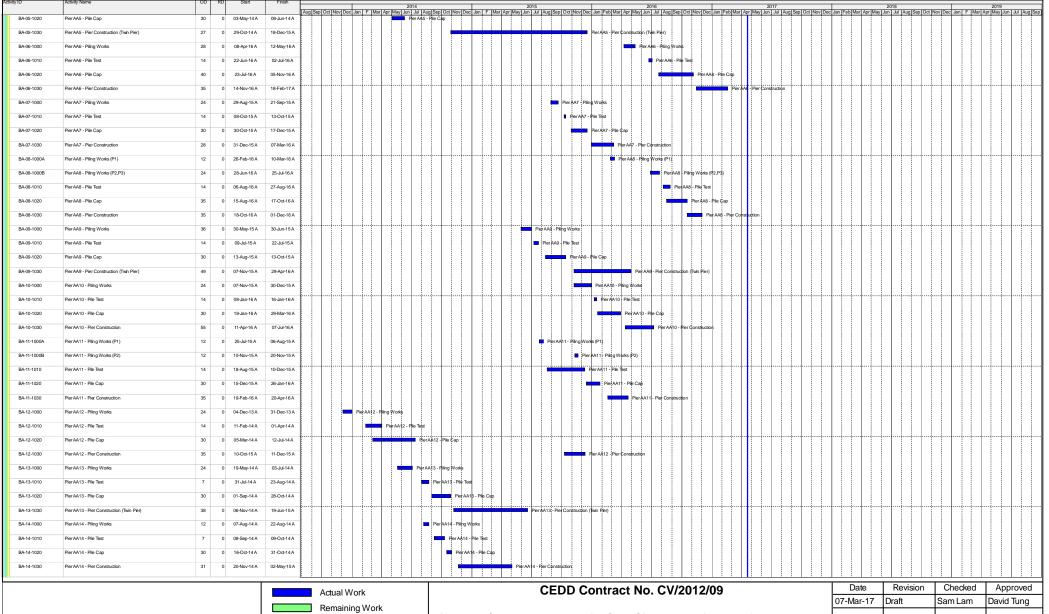




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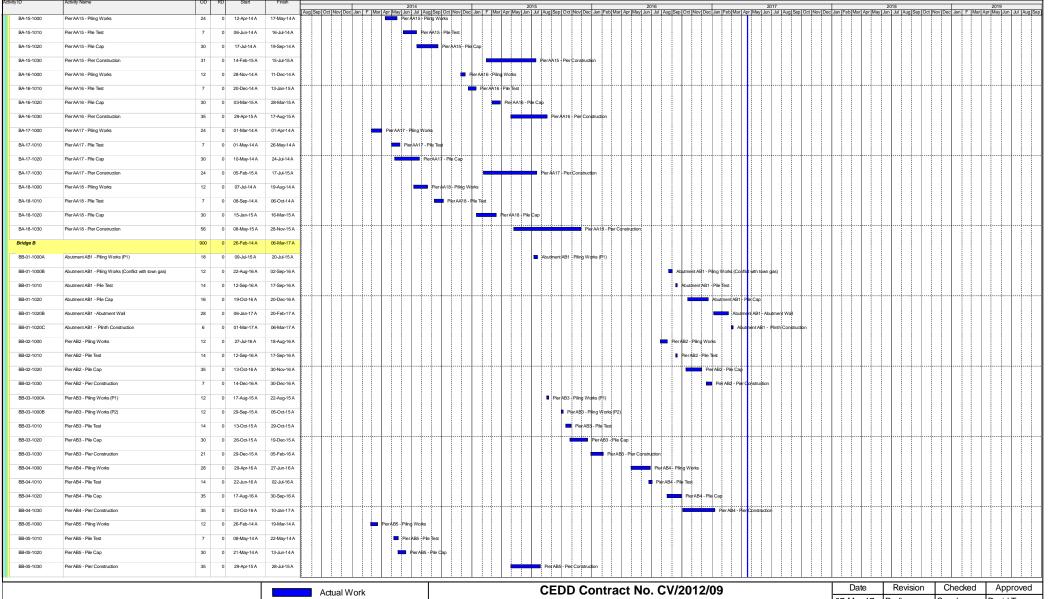




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'-Mar-17	Draft	Sam Lam	David Tung



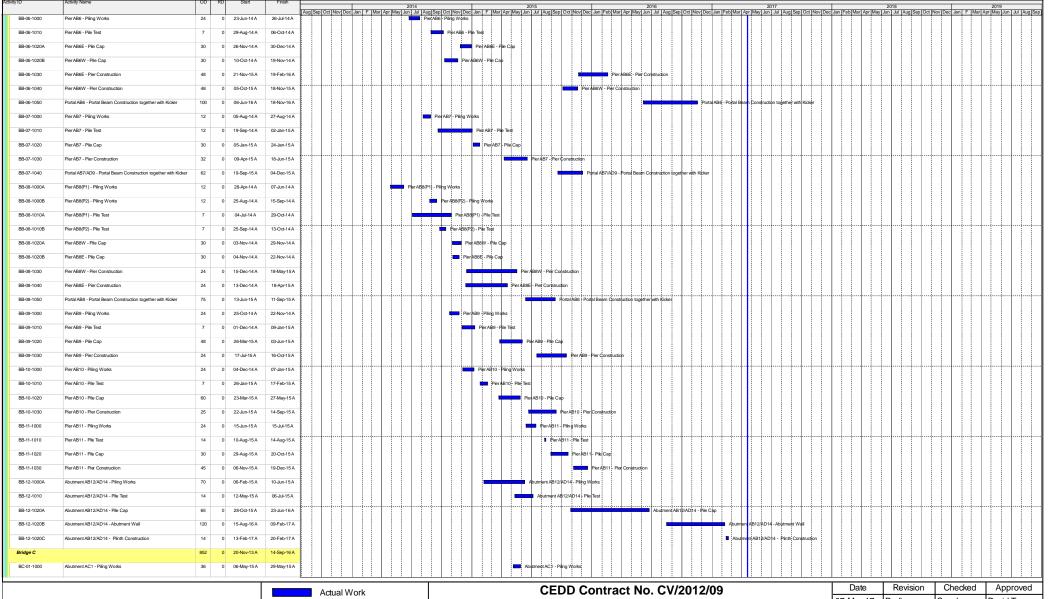




Updated Master Works Programme (Revision UMP05B)

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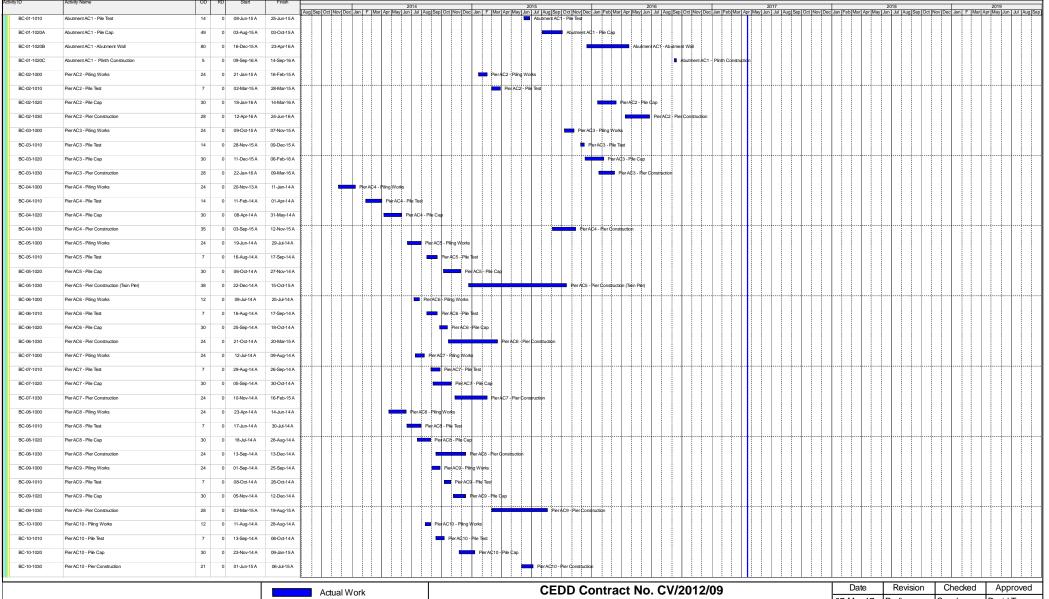




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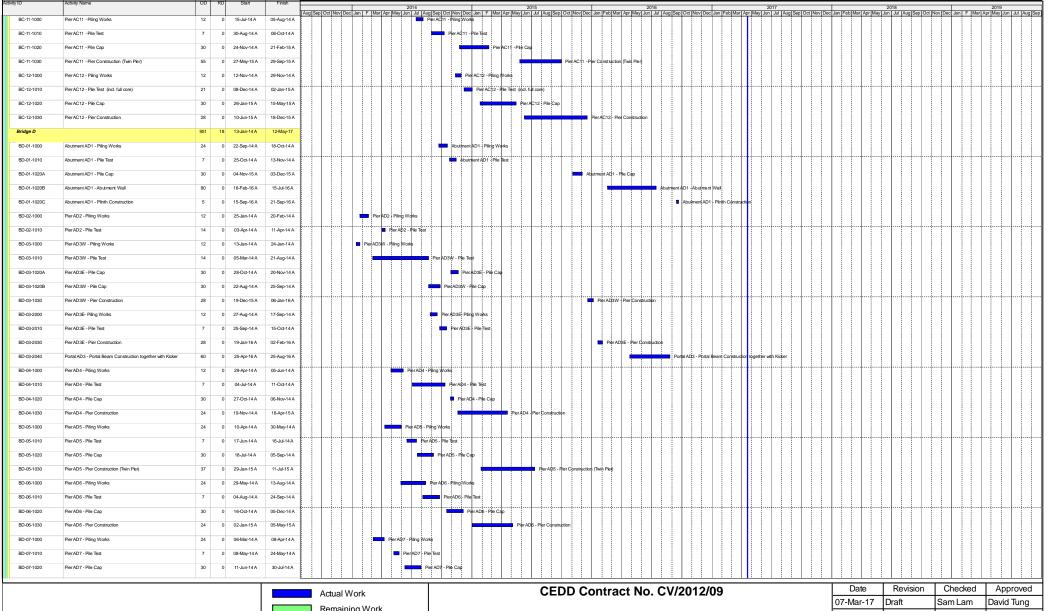




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7-Mar-17	Draft	Sam Lam	David Tung



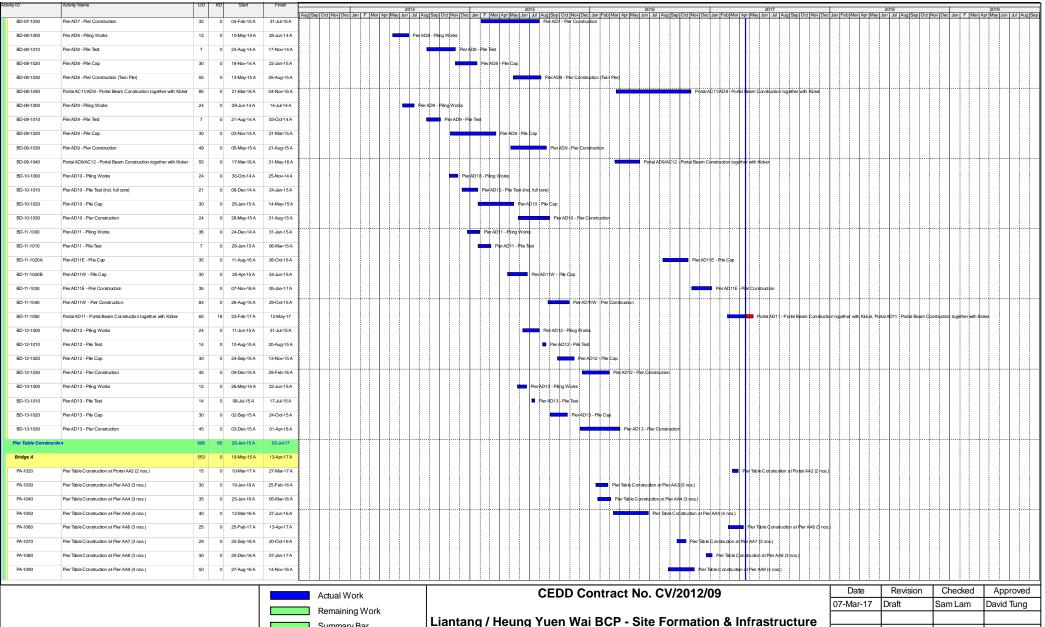




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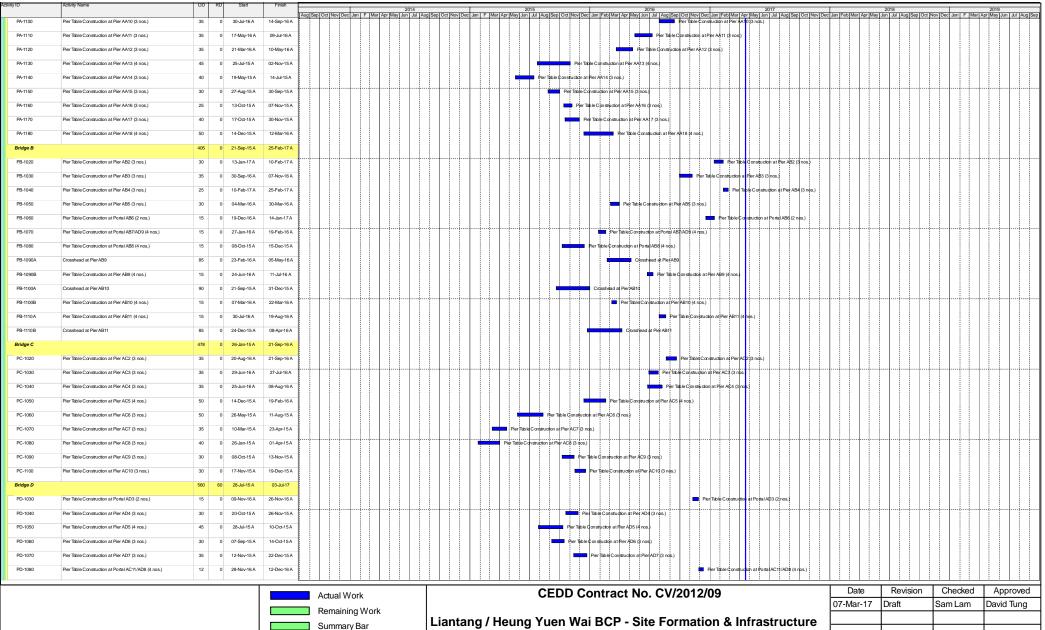




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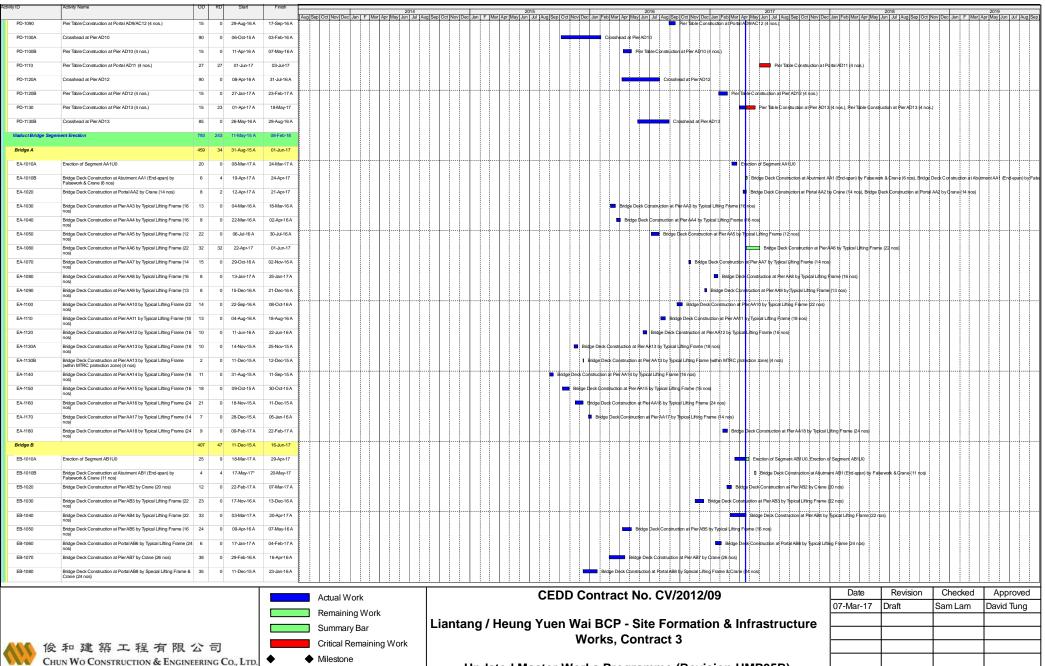


Works, Contract 3

Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17 Page 32 of 40

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7-Mar-17	Draft	Sam Lam	David Tung
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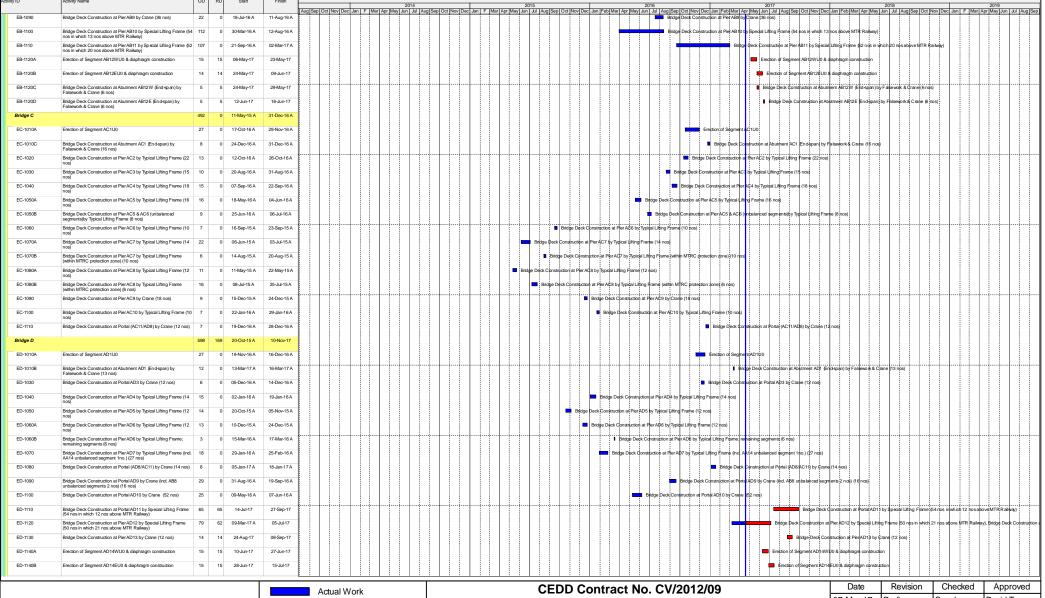


Actual Level of Effort

Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17 Page 33 of 40

-Mar-17	Draft	Sam Lam	David Tung



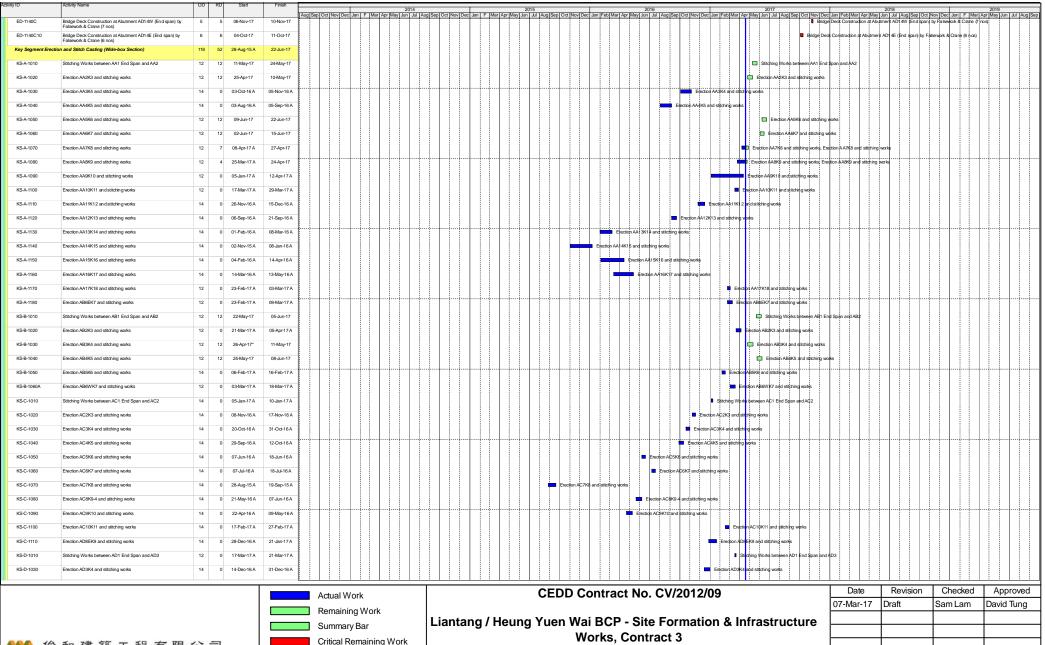




Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17 Page 34 of 40

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7-Mar-17	Draft	Sam Lam	David Tung



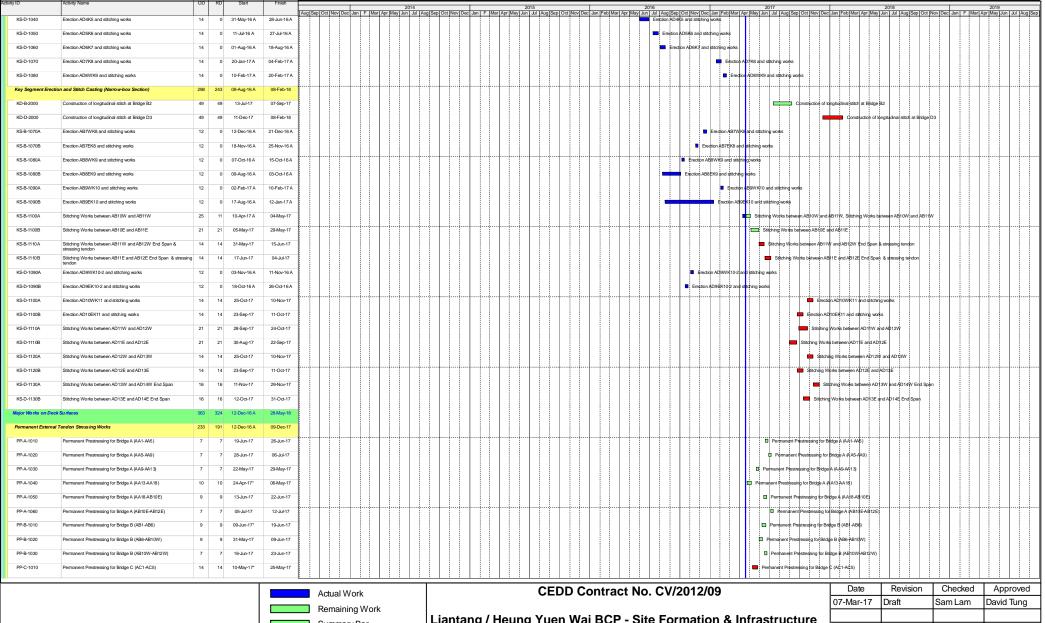
俊和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.

Critical Remaining Work • Milestone Actual Level of Effort

Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17 Page 35 of 40

-Mar-17	Draft	Sam Lam	David Tung



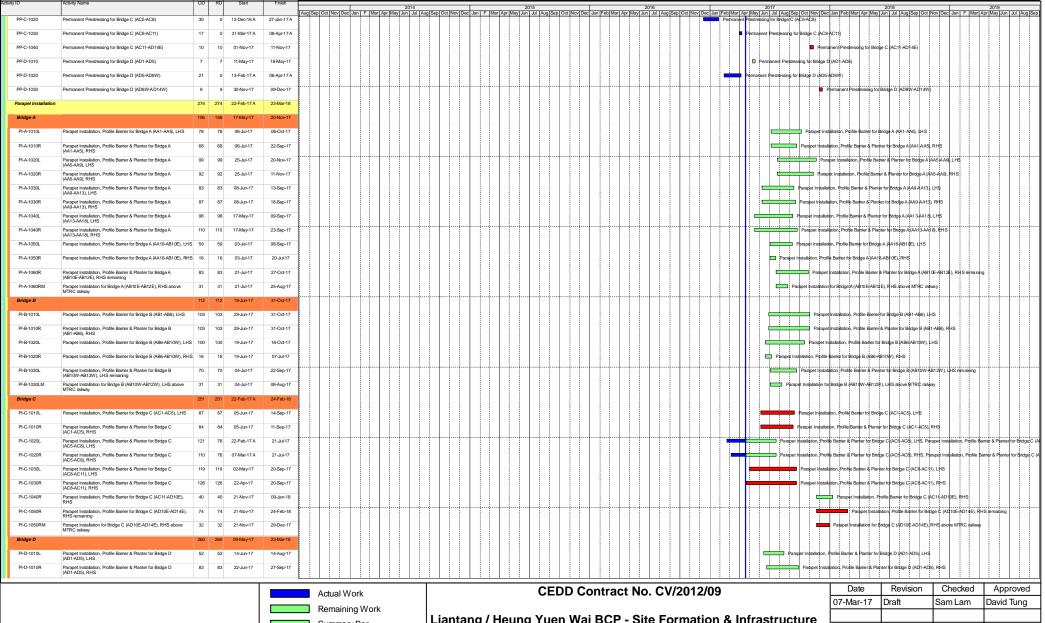


	Actual Work
	Remaining Work
	Summary Bar
	Critical Remaining Work
* *	Milestone
	Actual Level of Effort

Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17
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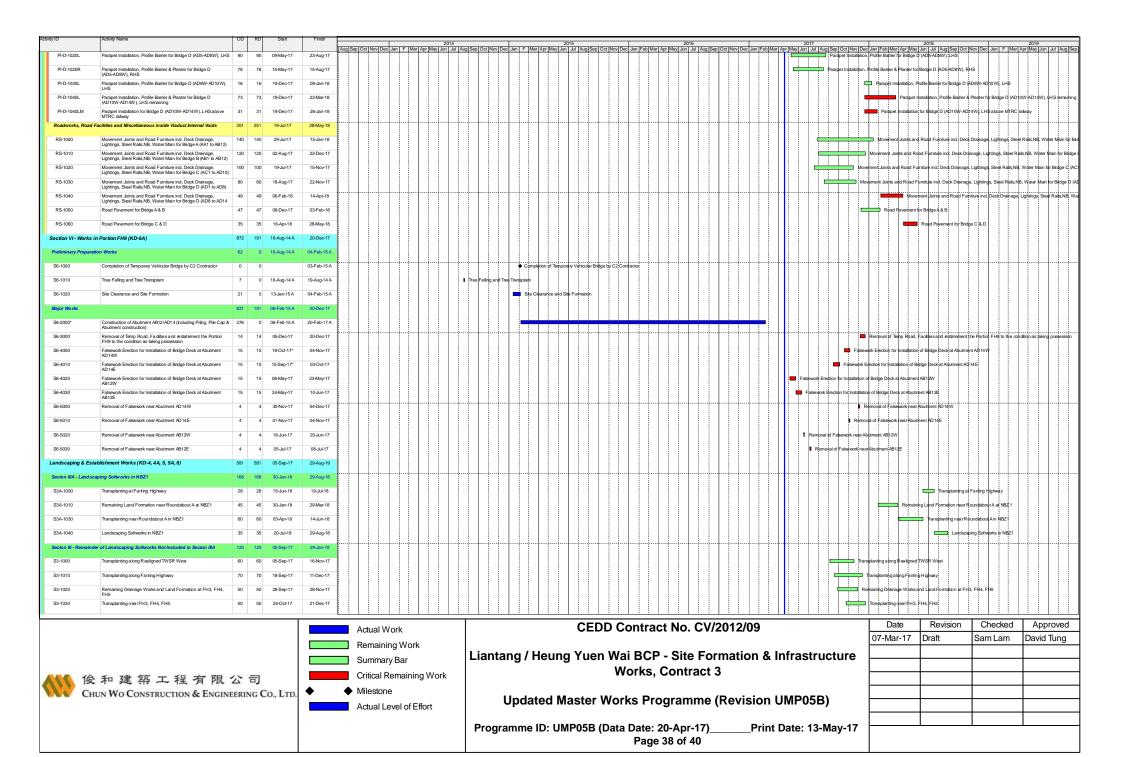
	Actual Work
	Remaining Work
	Summary Bar
	Critical Remaining Work
•	Milestone
	Actual Level of Effort

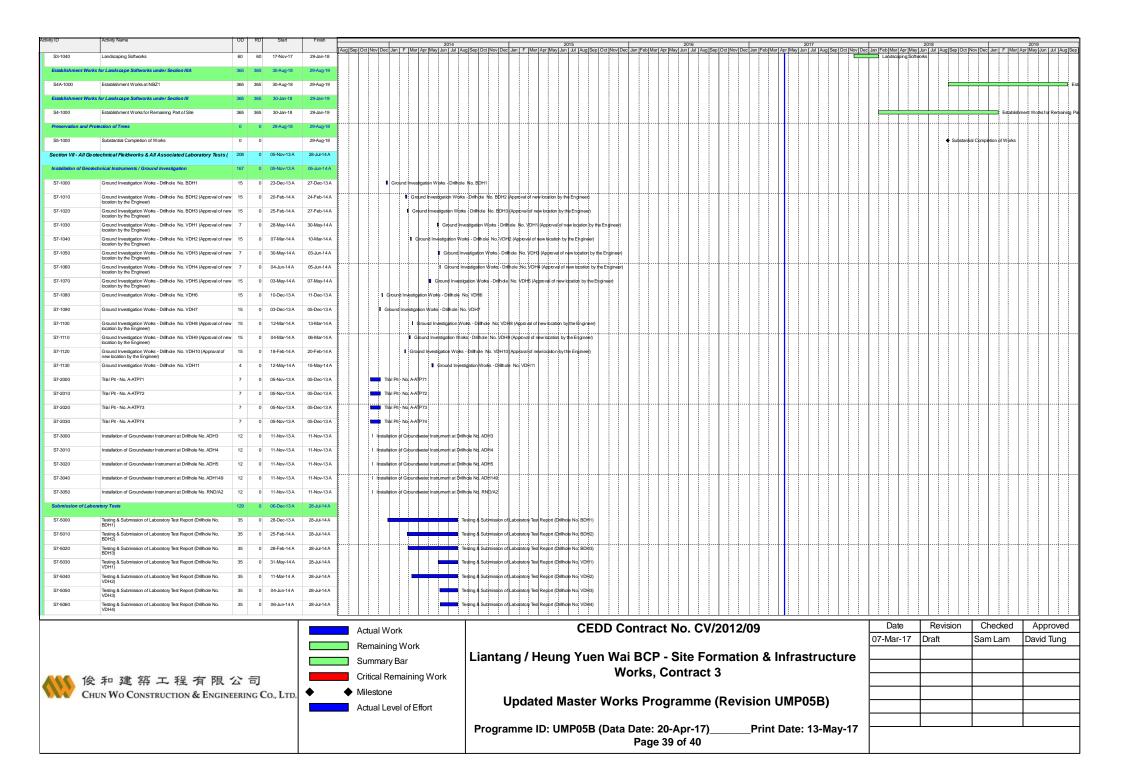
Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3

Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17) Print Date: 13-May-17 Page 37 of 40

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7-Mar-17	Draft	Sam Lam	David Tung





Activity ID	Activity Name	OD	RD Start	Finish									
							014	2015		2016	2017	2018	2019
					Aug Sep Oct Nov De	Jan F Mar Apr May Ju	Jul Aug Sep Oct Nov I	Dec Jan F Mar Apr May Jun Jul Aug Sep	Oct Nov Dec Jan Fe'	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 I	Dec Jan F Mar Apr May Jun Jul Aug Sep
S7-5070	Testing & Submission of Laboratory Test Report (Drillhole No. VDH5)	35	0 08-May-14 A	28-Jul-14 A				n of Laboratory Test Report (Drillhole No. VDH5)					
S7-5080	Testing & Submission of Laboratory Test Report (Drillhole No. VDH6)	35	0 11-Jan-14 A	28-Jul-14 A			Testing & Submissip	n of Laboratory Test Report (Drillhole No. VDH6)					
S7-5090	Testing & Submission of Laboratory Test Report (Drillhole No. VDH7)	35	0 06-Dec-13 A	28-Jul-14 A	-		Testing & Submission	n of Laboratory Test Report (Drillhole No. VDH7)					
S7-5100	Testing & Submission of Laboratory Test Report (Drillhole No. VDH8)	35	0 14-Mar-14 A	28-Jul-14 A			Testing & Submission	n of Laboratory Test Report (Drillhole No. VDH8)					
S7-5110	Testing & Submission of Laboratory Test Report (Drillhole No. VDH9)	35	0 07-Mar-14 A	28-Jul-14 A				n of Laboratory Test Report (Drillhole No. VDH9)					
S7-5120	Testing & Submission of Laboratory Test Report (Drillhole No. VDH10)	35	0 21-Feb-14 A	28-Jul-14 A			Testing & Submissip	n of Laboratory Test Report (Drillhole No. VDH10)					
S7-5130	Final Field Work Report for A-ATP71 to A-ATP74	90	0 06-Dec-13 A	14-Apr-14 A		Final Fie	Work Report for A-ATP71 to	AATP74					

後和建築工程有限公司 CHUN Wo CONSTRUCTION & ENGINEERING Co., LTD.



CEDD Contract No. CV/2012/09

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

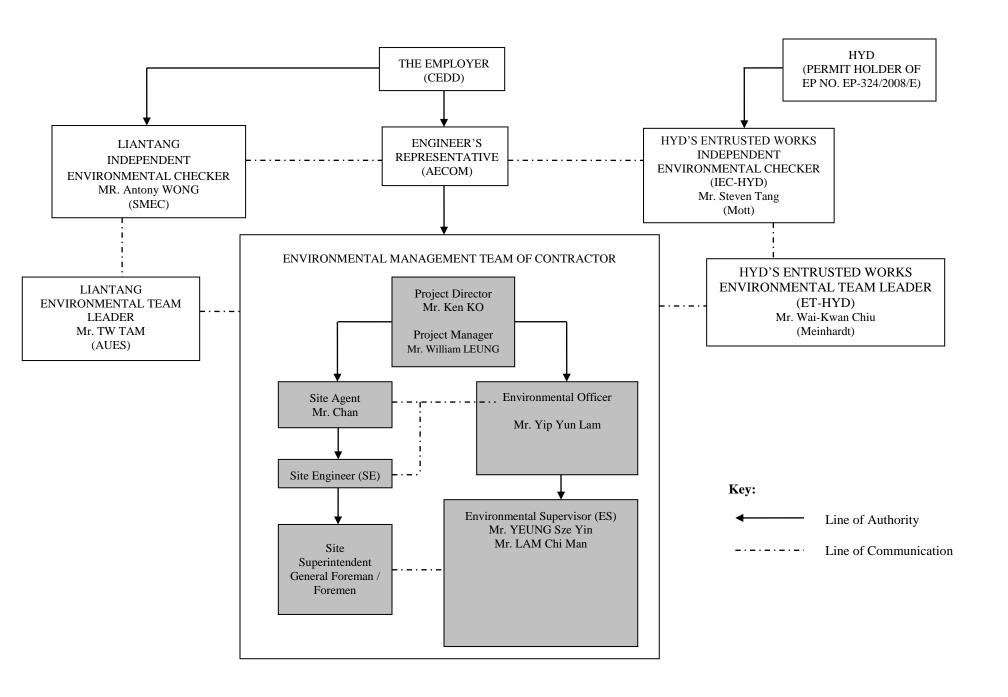
Updated Master Works Programme (Revision UMP05B)

Programme ID: UMP05B (Data Date: 20-Apr-17)_____Print Date: 13-May-17
Page 40 of 40

Date	Revision	Checked	Approved
7-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			•	1
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.			✓
	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.			✓
Air Quality during Operation	Not required	N/A	N/A	N/A
Noise				
Noise during Construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During Construction	Contractor	✓
	Reduce the number of equipment and their percentage on-time.			✓
Noise during Operation	Not required	N/A	N/A	N/A
Water Quality				
Water Quality during 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	Rem.
	Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.			✓

Notes (*):

✓ - Compliance; Rem - Reminder; Obs - Observation; N/C - Non Compliance; N/A - Not Applicable



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	 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				l
Waste Management during Construction	General WasteTransport 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.			✓
	Use of re-useable metal hoardings/signboards.			✓
	Vegetation from site clearance	During Construction	Contractor	
	Segregation of materials to facilitate disposal.			✓
	 Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 			✓
	<u>Demolition Wastes</u>	During Construction	Contractor	
	Segregation of materials to facilitate disposal.			✓
	Appropriate stockpile management.			✓

- 2 -

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

August 2020



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	Excavated Materials	During Construction	Contractor	
	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.			N/A
	Construction Wastes	During Construction	Contractor	
	Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).			✓
	Appropriate stockpile management.			✓
	Planning to reduce over ordering and waste generation.			✓
	Recycling and re-use of materials where possible (e.g. metal, wood from formwork)			✓
	For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.			✓
	Bentonite Slurries	During Construction	Contractor	
	Bentonite slurries should be reused as far as possible.			N/A
	Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.			N/A
	<u>Chemical Wastes</u>	During Construction	Contractor	
	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.			✓

Notes (#):

✓ - Compliance; Rem - Reminder; Obs - Observation; N/C - Non Compliance; N/A - Not Applicable



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	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.			✓
	Municipal Wastes	During Construction	Contractor	
	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.			✓
Waste Management during Operation	Not required.	N/A	N/A	N/A
Ecology				
Ecology during Construction	Accurate Delineation of Works Area	During Construction	Contractor	
	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.			✓
	<u>Dust generation</u>	During Construction	Contractor	
	There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:			
	 vehicle washing facilities to be provided at every discernible or designated vehicle exit point; 			✓
	all temporary site access roads shall be sprayed with water to suppress dust as necessary;			✓
	all dusty materials should be sprayed with water immediately prior to any handling; and			✓

Notes (*):

✓ - Compliance; Rem - Reminder; Obs - Observation; N/C - Non Compliance; N/A - Not Applicable



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



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status #
	Temporary Works Areas	During Construction	Contractor	
	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.			✓
	<u>Hoarding</u>	During Construction	Contractor	
	A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.			✓
	Top Soils	During Construction	Contractor	
	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.			N/A
	Protection of Important Landscape Features	During Construction	Contractor	N/A
	• Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.			
Landscape and Visual during Operation	Not required.	N/A	N/A	N/A



Appendix D Meteorological Data Extracted from Hong Kong Observatory

Daliy Extract of Meteorological Observations, May 2020

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

Date May	Number of hours of Reduced Visibility# (hours)	Total Bright Sunshine (hours)	Daily Global Solar Radiation (MJ/m²)	Total Evaporation (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
1	0	7.1	20.74	4.2	150	5.0
2	0	10.4	24.79	5.6	220	9.0
3	0	11.3	26.56	5.7	230	24.8
4	0	9.8	23.78	5.4	230	25.8
5	0	8.8	24.17	5.3	230	26.3
6	0	4.8	16.45	4.0	180	17.7
7	0	3.9	12.23	3.1	160	16.0
8	0	3.5	15.58	4.0	180	23.2
9	0	3.5	14.77	3.9	200	20.3
10	0	8.5	22.32	5.3	230	19.2
11	0	6.9	19.87	4.7	120	6.8
12	11	3.1	12.21	2.4	170	4.6
13	7	2.3	7.67	2.1	080	28.0
14	0	3.8	16.56	3.2	110	28.5
15	0	7.4	20.35	4.2	110	16.6
16	0	7.8	19.63	4.0	080	6.8
17	0	9.5	24.62	6.6	230	12.7
18	0	1.4	7.41	1.9	230	19.1
19	0	7.5	19.93	3.6	150	11.9
20	0	1.6	10.47	1.1	080	27.2
21	0	-	4.27	0.4	190	28.6
22	0	0.1	5.35	1.6	230	28.4
23	0	-	7.09	1.5	080	26.8
24	0	2.8	15.16	4.3	060	18.1
25	0	1.2	6.68	0.8	080	12.9
26	0	2.0	11.54	3.0	220	20.3
27	0	3.7	14.33	2.7	050	5.7
28	2	2.4	13.41	2.8	070	21.4
29	0	3.6	15.66	2.5	080	17.8
30	0	-	2.25	0.2	210	17.0
31	0	1.3	10.01	1.7	210	22.7
Mean/Total	20	140.0	15.03	101.8	220	18.4
Normal*	41.9	140.4	14.19	110.7	080	19.7
Station	Hong Kong International Airport		King's Park		Waglan	Island^

Daliy Extract of Meteorological Observations, June 2020

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

Date June	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	5.5	18.22	3.6	210	23.4
2	0	2.0	11.00	2.4	190	24.5
3	0	5.4	18.15	3.7	210	26.0
4	0	8.1	21.95	4.7	210	24.3
5	0	6.2	20.43	3.6	220	29.6
6	0	0.3	4.94	0.1	190	14.8
7	0	-	2.25	0.3	190	15.8
8	0	-	1.97	0.3	210	11.7
9	0	2.0	9.98	2.1	190	13.5
10	0	7.5	20.50	4.0	200	16.0
11	0	10.1	24.50	5.0	180	10.0
12	0	10.2	23.86	4.9	100	9.5
13	0	5.3	18.82	3.6	050	33.5
14	0	1.7	11.88	2.0	140	29.9
15	0	7.5	21.73	4.5	180	20.8
16	0	3.3	14.16	3.2	180	21.0
17	0	6.2	17.16	3.4	200	18.1
18	0	8.8	23.73	5.1	220	21.9
19	0	11.6	27.36	6.0	240	18.9
20	0	10.8	27.77	6.4	230	20.6
21	0	10.0	24.59	5.7	230	26.3
22	0	8.3	22.98	5.7	230	26.6
23	0	10.1	24.79	5.9	230	27.4
24	0	7.0	21.93	5.0	220	27.3
25	0	4.9	15.83	4.3	210	27.5
26	0	4.6	15.61	3.8	200	26.8
27	0	6.0	16.93	4.0	190	17.8
28	0	10.2	25.25	5.6	220	13.6
29	0	9.5	22.15	5.0	150	9.3
30	0	9.4	23.28	5.3	210	12.3
Mean/Total	0	192.5	18.46	119.2	210	20.6
Normal*	15.4 [§]	146.1	14.19	117.1	220	22.9
Station	Hong Kong International Airport		Island^			

Daliy Extract of Meteorological Observations, July 2020

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

Date July	Number of hours of Reduced Visibility ⁴ (hours)	Total Bright Sunshine (hours)	Daily Global Solar Radiation (MJ/m²)	Total Evaporation (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
1	0	3.8	15.46	3.3	130	15.2
2	0	4.4	16.68	3.5	160	22.8
3	0	3.7	17.39	4.5	170	18.1
4	0	6.9	20.39	4.0	190	17.4
5	0	9.4	26.18	5.6	200	21.4
6	0	8.9	21.27	3.8	230	25.0
7	0	9.6	24.54	5.3	230	22.4
8	0	5.7	18.24	4.4	230	34.0
9	0	3.9	17.91	4.9	230	36.7
10	0	2.6	14.32	4.1	200	27.9
11	0	6.0	17.41	4.2	190	22.3
12	0	9.2	24.07	5.3	190	13.1
13	0	11.5	27.46	6.5	230	13.9
14	0	12.0	25.63	6.0	240	27.2
15	0	10.5	26.50	5.9	230	32.1
16	0	10.1	26.42	6.0	230	25.7
17	0	10.5	24.49	5.9	230	22.7
18	0	11.3	26.32	6.0	230	22.3
19	0	10.0	25.09	5.8	230	20.0
20	0	5.8	17.78	4.0	210	10.5
21	0	9.6	21.96	5.0	090	5.2
22	0	6.7	18.18	4.3	100	12.0
23	0	9.8	22.89	5.7	200	8.0
24	0	11.1	27.28	6.7	230	14.8
25	0	9.5	24.38	6.0	230	22.4
26	0	10.5	26.15	6.4	230	22.7
27	0	9.8	26.13	6.3	220	19.6
28	0	11.1	27.19	6.8	200	13.7
29	0	6.1	18.03	3.8	100	10.0
30	0	9.5	26.05	5.7	040	23.4
31	0	0.2	5.04	0.3	080	49.6
Mean/Total	0	249.7	21.83	156.0	230	21.0
Normal*	13.05	212.0	17.17	146.2	230	21.3
Station	Hong Kong International Airport		Island^			

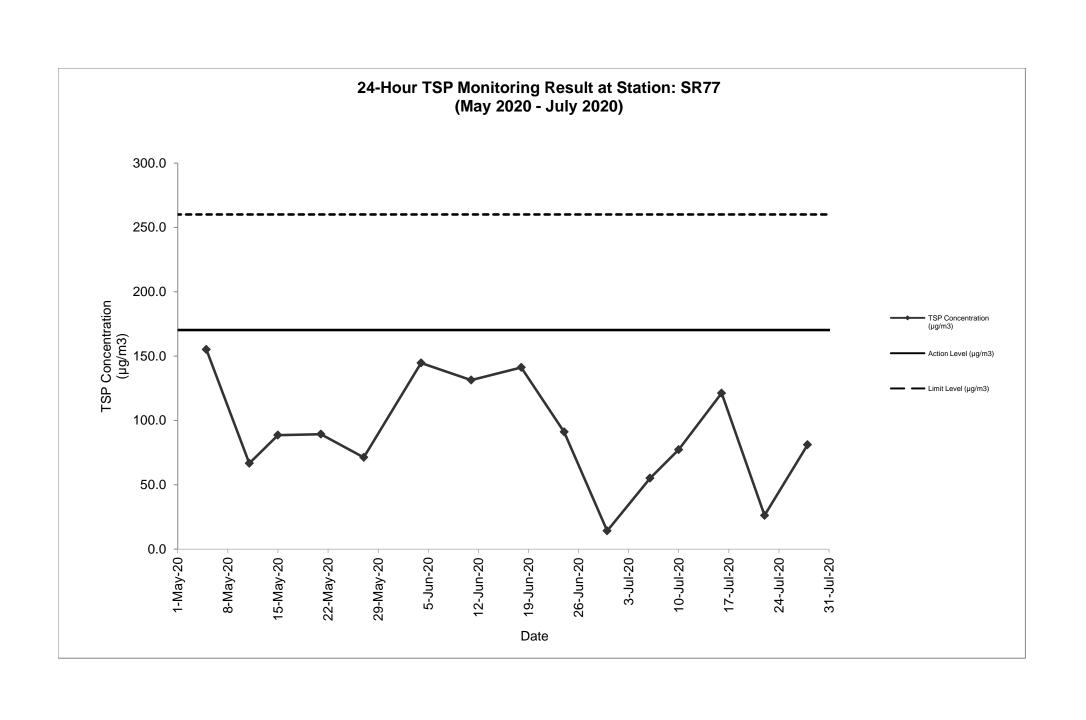


Appendix E Environmental Monitoring Data for Air Quality and Noise

24-Hour TSP Monitoring Result at Station: SR77

Sampling Weather Date Condition		I Paner No	Paner No		/t. of paper	r (g)	E	Elapse Tin	_	Flo	ow Rate (C	,		w Rate (m³	,	Total Volume	TSP Concentratio n	Action Level	Limit Level	Wind speed	Wind direction
			Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate	(m³)	(µg/m³)	(µg/m3)	(µg/m3)	m/s		
5-May-20	Fine	-	-	-	-	-	-	24.00	-	-	-	-	-	-	-	155.1	170.3	260.0	<5	N	
11-May-20	Cloudy	•	-	-	-	-	-	24.00	-	-	-	ı	-	-	•	66.7	170.3	260.0	<5	N	
15-May-20	Fine	•	-	-	-	-	-	24.00	-	-	-	ı	-	-	•	88.6	170.3	260.0	<5	N	
21-May-20	Cloudy	•	-	-	-	-	-	24.00	-	-	-	ı	-	-	•	89.3	170.3	260.0	<5	N	
27-May-20	Cloudy	1	-	-	-	-	-	24.00	-	-	-	ı	-	-	ı	71.3	170.3	260.0	<5	N	
4-Jun-20	Fine	1	-	-	-	-	-	24.00	-	-	-	ı	-	-	ı	144.7	170.3	260.0	<5	N	
11-Jun-20	Fine	1	-	-	-	-	-	24.00	-	-	-	ı	-	-	ı	131.4	170.3	260.0	<5	N	
18-Jun-20	Fine	1	-	-	-	-	-	24.00	-	-	-	ı	-	-	ı	141.2	170.3	260.0	<5	N	
24-Jun-20	Fine	1	-	-	-	-	-	24.00	-	-	-	ı	-	-	ı	91.1	170.3	260.0	<5	N	
30-Jun-20	Fine		-	-	-	-	-	24.00	-	-	-	ı	-	-	•	14.3	170.3	260.0	<5	N	
6-Jul-20	Fine		-	-	-	-	-	24.00	-	-	-	ı	-	-	•	55.1	170.3	260.0	<5	N	
10-Jul-20	Fine	ı	-	-	-	-	-	24.00	-	-	-	-	-	-	ı	77.4	170.3	260.0	<5	N	
16-Jul-20	Fine	ı	-	-	-	-	-	24.00	-	-	-	-	-	-	1	121.2	170.3	260.0	<5	N	
22-Jul-20	Fine	ı	-	-	-	-	-	24.00	-	-	-	-	-	-	1	26.3	170.3	260.0	<5	N	
28-Jul-20	Fine	-	-	-	-	-	-	24.00	-	-	-	-	-	-	-	81.2	170.3	260.0	<5	N	

Summary For the	Reporting Quarter
(May 2020 -	- July 2020)
Average	90.3
Minimum	14.3
Maximun	155.1

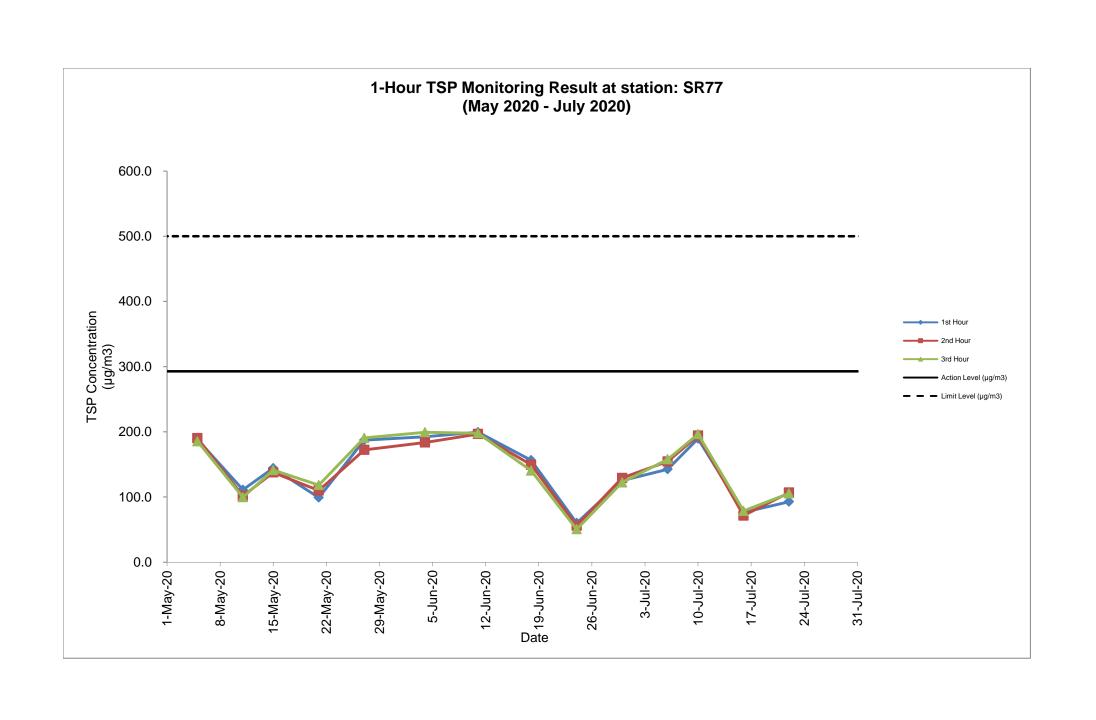


Appendix E Air Quality Monitoring Results and their Graphical Presentation

1-Hour TSP Monitoring Result at Station: SR77

Thou for monitoring Roodit at Ottation Oct.											
Date	Weather		Time	`		Conc.(µg/m³)	Action Level	Limit Level		
Date	Condition		Time			2 nd Hour	3 rd Hour	(µg/m3)	(µg/m3)		
5-May-20	Fine	10:45	-	13:15	188.1	190.2	185.5	292.7	500.0		
11-May-20	Cloudy	10:45	-	13:45	111.1	101.6	99.6	292.7	500.0		
15-May-20	Fine	10:30	-	13:15	149.3	132.6	145.7	292.7	500.0		
21-May-20	Cloudy	10:20	-	13:45	144.2	137.6	141.3	292.7	500.0		
27-May-20	Cloudy	10:30	-	13:15	99.1	109.9	118.3	292.7	500.0		
4-Jun-20	Fine	10:30	-	13:30	187.3	172.3	190.6	292.7	500.0		
11-Jun-20	Fine	10:00	-	13:00	192.4	183.6	199.3	292.7	500.0		
18-Jun-20	Fine	10:45	-	13:45	199.4	196.6	197.8	292.7	500.0		
24-Jun-20	Fine	10:15	-	13:15	156.3	149.4	140.3	292.7	500.0		
30-Jun-20	Fine	10:45	-	13:45	60.1	55.9	50.5	292.7	500.0		
6-Jul-20	Fine	10:15	-	13:15	125.1	129.2	122.4	292.7	500.0		
10-Jul-20	Fine	10:45	-	13:45	142.6	154.5	157.8	292.7	500.0		
16-Jul-20	Fine	10:15	-	13:15	189.4	194.1	196.4	292.7	500.0		
22-Jul-20	Fine	10:45	-	13:45	76.4	71.5	78.6	292.7	500.0		
28-Jul-20	Fine	10:15	-	13:15	92.7	106.7	105.6	292.7	500.0		

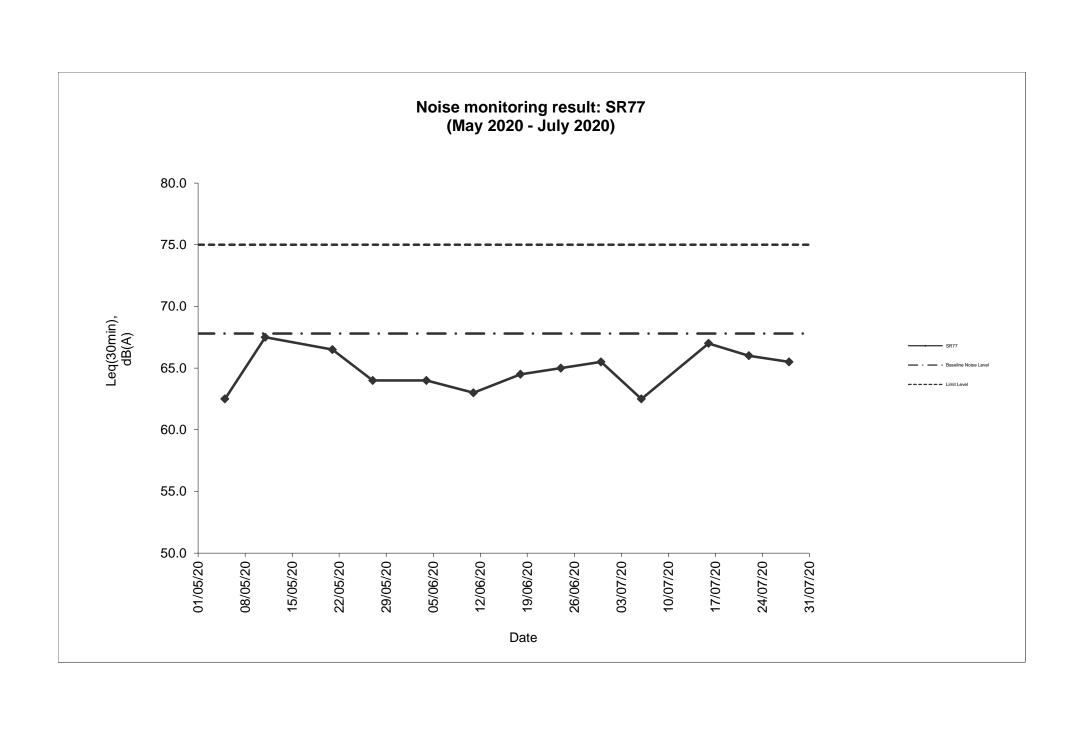
Summary For the Reporting Quarter								
(May 2020 - July 2020)								
Average	140.6							
Minimum	50.5							
Maximum	199.4							



Noise Monitoring Result at SR77

Date	Weather	Start	End Time	Measure	ed Noise Level	(dB(A))*	Baseline Corrected	Baseline Noise Level	Limit Level	Exceedance
	Condition	Time		L10(30min)	L90(30min)	Leq(30min)	Level, dB(A)**	(dB(A)), Leq(30min)	dB(A)	(Y / N)
2020-05-05	Fine	11:15	11:45	97.0	58.5	62.5	-	67.8	75.0	N
2020-05-11	Cloudy	11:15	11:45	101.0	56.5	67.5	-	67.8	75.0	N
2020-05-21	Cloudy	11:15	11:45	92.5	63.0	66.5	-	67.8	75.0	N
2020-05-27	Cloudy	11:15	11:45	102.0	60.0	64.0	-	67.8	75.0	N
2020-06-04	Fine	11:30	12:00	97.5	60.0	64.0	-	67.8	75.0	N
2020-06-11	Fine	11:00	11:30	98.5	57.5	63.0	-	67.8	75.0	N
2020-06-18	Fine	11:45	12:15	76.0	58.0	64.5	-	67.8	75.0	N
2020-06-24	Fine	11:15	11:45	78.5	59.5	65.0	-	67.8	75.0	N
2020-06-30	Fine	11:15	11:45	77.5	57.5	65.5	-	67.8	75.0	N
2020-07-06	Fine	11:15	11:45	68.0	60.0	62.5	-	67.8	75.0	N
2020-07-16	Fine	11:15	11:45	77.5	58.0	67.0	-	67.8	75.0	N
2020-07-22	Fine	11:45	12:15	75.5	64.0	66.0	-	67.8	75.0	N
2020-07-28	Fine	11:15	11:45	74.0	57.5	65.5	-	67.8	75.0	N

Summary For the Reporting Querter						
(May 2020 - July 2020)						
Average 64.9						
Minimum 62.5						
Maximum	67.5					





Appendix F Waste Flow Table

Monthly Summary Waste Flow Table

		Actual C	Quantities of In-	ert C&D Materi	als Generated	Monthly		Actual	Quantities of	C&D Wastes	Generated M	lonthly
		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 m ³)	(in '000m ³)									
May-20	0.167	-	0.167	1	•	0.167	1	-	-	-	ı	0.015
Jun-20	0.004	-	0.004	-	-	0.004	ı	-	-	-	-	0.010
Jul-20	0.164	`	0.164	-	-	0.164	-	-	-	-	-	0.010
Total	0.335	-	0.335	•	•	0.335	-	-	•	-	-	0.035

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	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	
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	project. 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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