

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

Quarterly EM&A Report

May 2015 to July 2015

Submitted to

Prepared By

Environmental Protection Department

Meinhardt Infrastructure and Environment Ltd

Meinhardt Infrastructure and Environment Limited

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

Quarterly EM&A Report

(May 2015 to July 2015)

Certified by:	Fredrick Leong
Position:	Environmental Team Leader

Date: <u>12 August 2015</u>



Our ref EC/TK/bw/ro/T329380/22.05/L-0082

- т 2828 5919
- terence.kong@mottmac.com.hk

Your ref

Hyder-Arup-Black & Veatch Joint Venture c/o Hyder Consulting Limited 47/F Hopewell Centre 183 Queen's Road East Wanchai, Hong Kong

Dear Sir,

12 August 2015 By Fax (2805 5028) & Post

Attn: Mr. James Penny

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/C

Quarterly EM&A Summary Report for May 2015 to July 2015 for the portion of Stage 2 works entrusted to CEDD under Contract No. CV/2012/09

We refer to the revised Quarterly EM&A Summary Report for May 2015 to July 2015 for the Project received on 11 August 2015 submitted by ET via email. We confirm we have no comment.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

Kor

Terence Kong Independent Environmental Checker

c.c. HyD – Mr. Chung Lok Chin (Fax: 2714 5198) / Ms. Jackei Yin (Fax: 2761 4864)
 CEDD/BCP – Mr. Desmond Lam (Fax: 3547 1659)
 AECOM – Mr. Alan Lee (Fax: 3922 9797)
 Meinhardt Infrastructure and Environment Limited – Mr. Fredrick Leong (Fax: 2540 1580)

Date	Revision	Prepared By	Checked By	Approved By
12 August 2015	0	Ivan TING Cindy KWOK	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 May 2015 and 31 July 2015.

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 events were recorded. No necessary remedial actions have been taken.

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

The box culvert works have been partially completed by the end of March 2014 except the last construction activity, i.e. installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 has to be scheduled in November 2015 after the utilities diversions were completed, and therefore the construction works were temporary suspended. The 4-week post construction water quality monitoring will be conducted after the installation of the base slab finishes, hence the completion of the box culvert works.

As such, impact monitoring for water quality was not necessary in the reporting quarter due to temporary suspension of the construction works and is anticipated to be resumed in November 2015 during the course of remaining box culvert works.



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.
- 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/C 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 major construction activities undertaken in the reporting quarter are summarized below:
 - Abutment construction for Bridge E;
 - Cable detection and trial trenches;
 - Catch fence erection;
 - Decking construction for Bridge E;
 - E & M work for new valve control & Telemetry House;
 - Filling Works at Tong Hang East;
 - Lagging wall for bored pile wall;
 - Laying storm drains;
 - Noise barrier construction;
 - Pier / Pier table Construction;
 - Pile cap works;



- Piling Works;
- Portal Beam Erection;
- Pre-drilling;
- Road works at Fanling Highway;
- Retaining wall construction;
- Socket H-pile Installation;
- Sewer works at TWSRW;
- Tree felling works;
- Utilities duct laying;
- Viaduct segment erection; and
- Portal Beam Construction.

1.3 **Project Organisation**

1.3.1 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 1.1**.

Party	Role	Position	Name	Telepho ne	Fax
	Engineer's	Senior Resident Engineer	Mr. Alan Lee	2171 3303	2171
AECOM	Representative	Resident Engineer (Environmental)	Mr. Perry Yam	2171 3350	3498
Mott MacDonal d	Independent Environmental Checker (IEC)	IEC	Mr. Terence Kong	2828 5919	2827 1823
Chur Ma	Contractor	Site Agent	Mr. Daniel Ho	2638 6144	2638 7077
Chun Wo	Contractor	Environmental Officer	Mr. Victor Huang	2638 6181	
Meinhardt	Environmental Team (ET)	ET Leader	Mr. Fredrick Leong	2859 1739	2540 1580
Enquiry Hotline	General Enquiry		Ms Helena Mak	6355 1731	

 Table 1.1
 Contact Information of Key Personnel

1.4 Purpose of the Report

1.4.1 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 2015 and 31 July 2015.



2 SUMMARY OF EM&A REQUIREMENTS

2.1 Monitoring Requirements

2.1.1 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 2.1** and the location of the monitoring station is shown in the **Figure 2**.

Parameter Unit		Action Level	Limit Level	Frequency
		Air Qual	ity	
1-hour TSP	μg/m³	292.7	500	Three times every 6 days
24-hour TSP	μg/m ³	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

Table 2.1 Monitoring Parameter

Temporary Suspension of Box Culvert Works and Water Quality Monitoring

- 2.1.2 The box culvert works have been partially completed by the end of March 2014 except the last construction activity, i.e. installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 has to be scheduled in November 2015 after the utilities diversions were completed, and therefore the construction works are temporary suspended. The 4-week post construction water quality monitoring will be conducted after the installation of the base slab finishes, hence the completion of the box culvert works.
- 2.1.3 As such, impact monitoring for water quality was not necessary in the reporting quarter due to temporary suspension of the construction works and is anticipated to be resumed in November 2015 during the course of remaining box culvert works.

2.2 Environmental Mitigation Measures

2.2.1 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.

3 SUMMARY OF EM&A Monitoring Data

3.1 Monitoring Data

3.1.1 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 3.1.



Table 3.1 Summary of Monitoring Data in the Reporting Quarter

Monitoring Location	Minimum	Maximum	Average							
Air Quality										
	1 hour Total Sus	pended Particulate								
SR77	66.9µg/m ³	211.2µg/m ³	149.8µg/m ³							
	24 hour Total Sus	spended Particulate								
SR77	42.1µg/m ³	148.3µg/m³	88.2µg/m ³							
	Construc	ction Noise								
SR77	67.6dB(A)	72.0dB(A)	70.1dB(A)							

3.2 Summary of Monitoring Exceedances

3.2.1 The number of exceedances event recorded in the reporting quarter is summarized in **Table 3.2**.

 Table 3.2
 Summary of Exceedance Events in the Reporting Quarter

Parameter		Number of Exceedances Events	Number of Project Related Exceedance Events
	Air C	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	
Log 20min	Action Level	0	0
Leq 30min	Limit Level	0	0

- 3.2.2 The Contractor has been reminded to strengthen the mitigation measures including:
 - Water treatment facilities should be properly maintained and avoid untreated water entering stormdrain.
 - Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.
 - Water spraying or covering of tarpaulin should be properly implemented whenever necessary for the unpaved roads, access roads and construction areas.
 - All vehicles should be washed to remove any dusty materials before leaving the construction site.
 - Vessels and equipment operating should be checked regularly and properly maintained.
 - Secondary containment should be provided for all powered mechanical equipment within the construction site.
 - Secondary containment, like drip trays and/or bundings, should be provided for all chemical containers to retain any oil/chemical waste leakage within the construction site.
 - Chemical waste should be stored, handled and disposed of properly.



4 WASTE MANAGEMENT

- 4.1.1 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.
- 4.1.2 During the reporting quarter, a total of 5,329m³ of excavated material has been generated. 3,750m³ of inert C&D materials was disposed of at public fill to Tuen Mun Area 38, while 1,299m³ of inert C&D materials was reused on site. 190m³ of general refuse was disposed of at North East New Territories (NENT) Landfill. 42m³ of 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. 0.8m³ of chemical waste was collected by licensed contractor in the reporting quarter. Details of the waste management data are presented in **Appendix F**.

5 ENVIRONMENTAL NON-CONFORMANCE

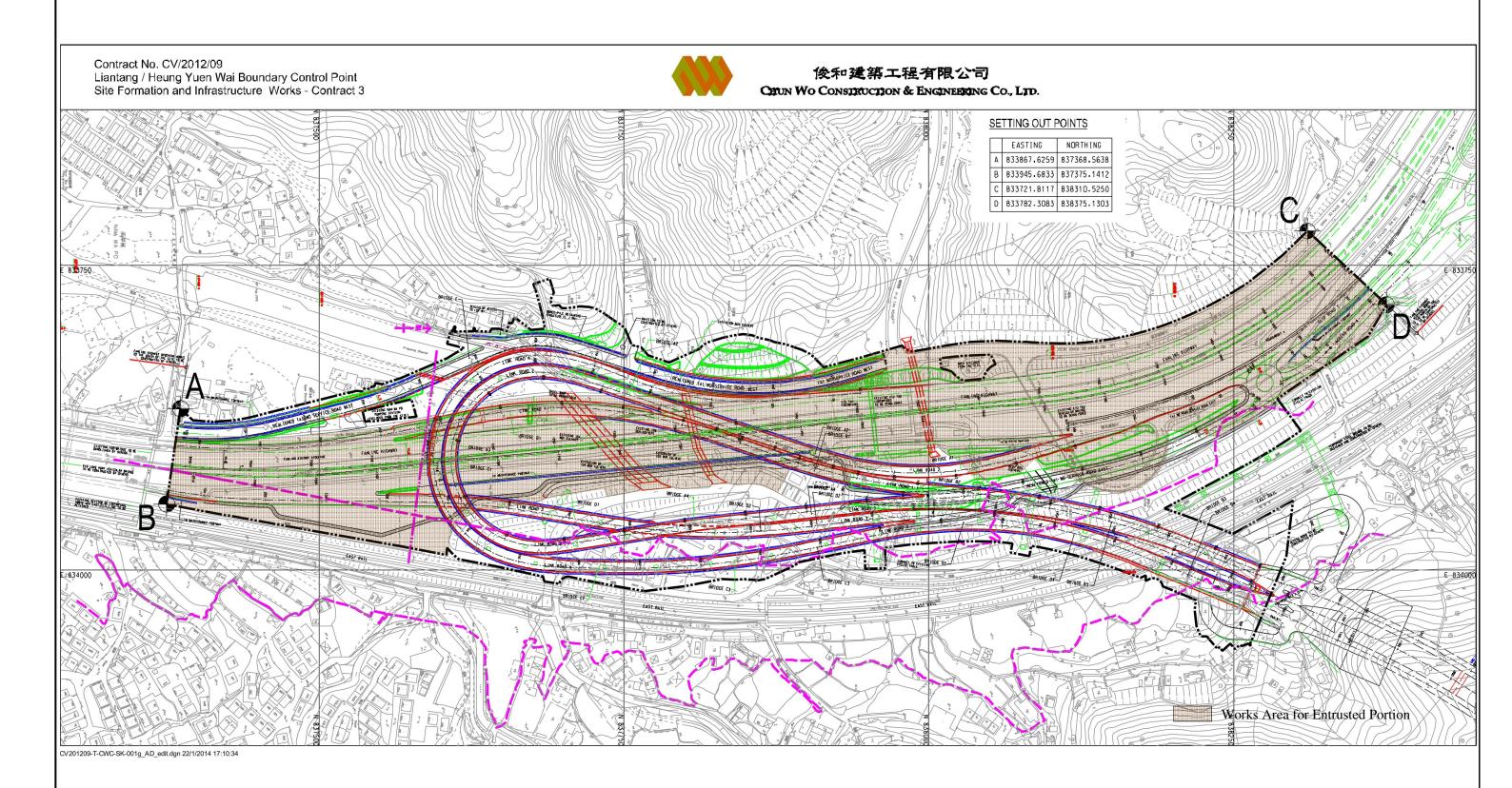
5.1.1 No environmental non-compliance was recorded in the reporting quarter. No environmental complaint was received. No environmental related prosecution or notification of summons was received in the reporting quarter. The summary for the non-compliance, complaints and prosecutions is provided in **Appendix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

6 CONCLUSION, COMMENTS AND RECOMMENDATIONS

- 6.1.1 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.
- 6.1.2 In the reporting quarter, no exceedance events have been recorded. .
- 6.1.3 No environmental non-compliance was recorded in the reporting quarter. No environmental complaint was received. No environmental related prosecution or notification of summons were received in the reporting quarter.
- 6.1.4 The box culvert works have been partially completed by the end of March 2014 except the last construction activity, i.e. installation of a base slab at Box Culvert ID4. Due to the loading requirement of a fresh water main under the box culvert, installation of the base slab at Box Culvert ID4 has to be scheduled in November 2015 after the utilities diversions were completed, and therefore the construction works are temporary suspended. The 4-week post construction water quality monitoring will be conducted after the installation of the base slab finishes, hence the completion of the box culvert works.
- 6.1.5 As such, impact monitoring for water quality was not necessary in the reporting quarter due to temporary suspension of the construction works and is anticipated to be resumed in November 2015 during the course of remaining box culvert works.



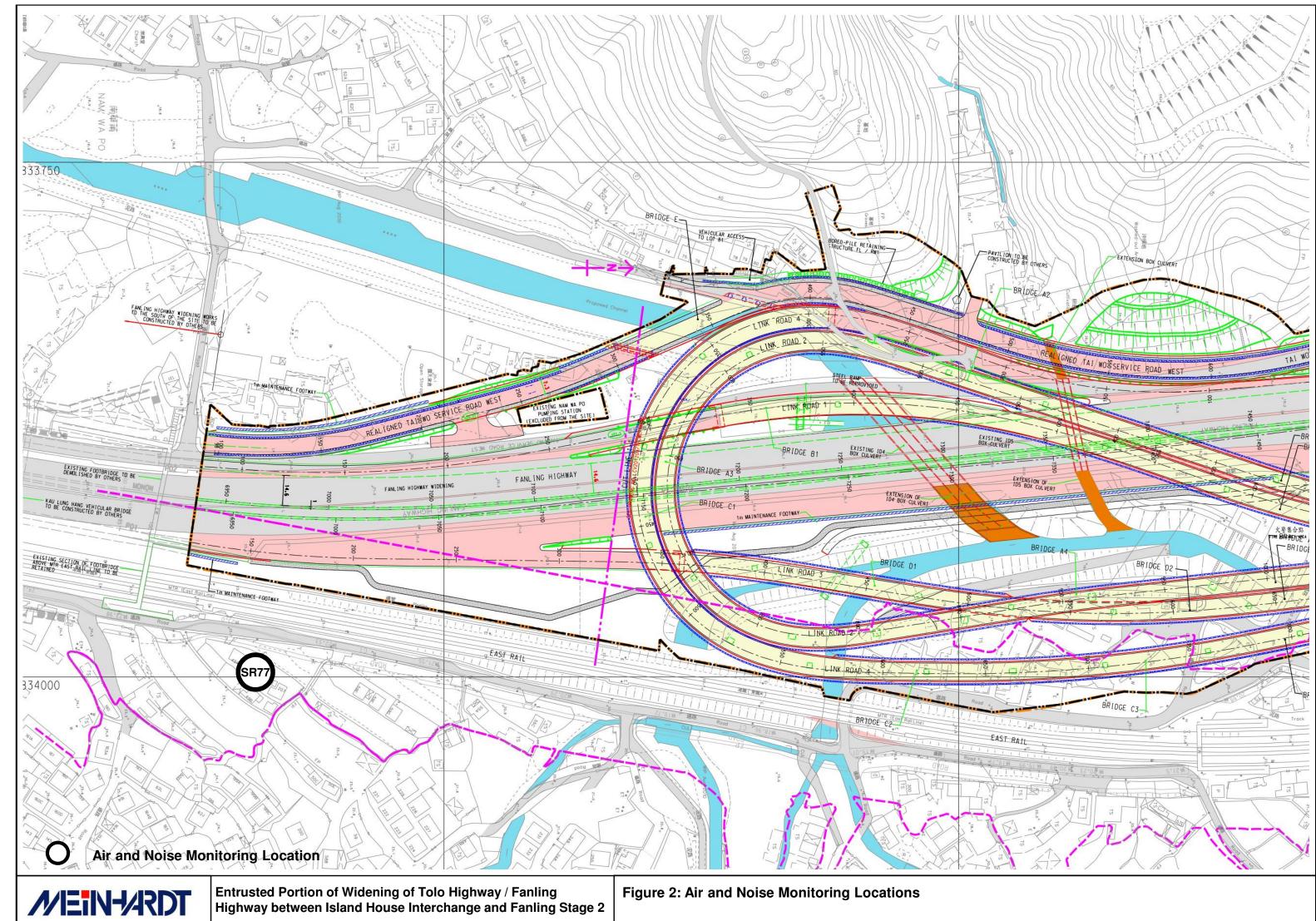
Figure





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

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





Appendix A Construction Programme

(Postpone Pipe Jacking) te Section 1A - all HyD's entrustment works in Zone3 and SBZ2 except for landscaping works te Section 1B - all HyD's entrustment works in NBZ1 except for landscaping works g of Diverted Twin DN1400 Fresh Water Mains TA for shifting Fanling Highway SB North Portion (CH7470-7925) eastward to the completed road near TWSF TA for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment TA for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East	0				S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F
te Section 1B - all HyD's entrustment works in NBZ1 except for landscaping works ang of Diverted Twin DN1400 Fresh Water Mains A for shifting Fanling Highway SB North Portion (CH7470-7925) eastward to the completed road near TWSF A for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment A for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East	0				
te Section 1B - all HyD's entrustment works in NBZ1 except for landscaping works ang of Diverted Twin DN1400 Fresh Water Mains A for shifting Fanling Highway SB North Portion (CH7470-7925) eastward to the completed road near TWSF A for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment A for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East	0				
te Section 1B - all HyD's entrustment works in NBZ1 except for landscaping works ang of Diverted Twin DN1400 Fresh Water Mains A for shifting Fanling Highway SB North Portion (CH7470-7925) eastward to the completed road near TWSF A for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment A for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East	0				
ng of Diverted Twin DN1400 Fresh Water Mains TA for shifting Fanling Highway SB North Portion (CH7470-7925) eastward to the completed road near TWSF TA for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment TA for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East	0		07-Dec-17		★KD1: Co
ng of Diverted Twin DN1400 Fresh Water Mains A for shifting Fanling Highway SB North Portion (CH7470-7925) eastward to the completed road near TWSF A for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment A for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East			09-Jan-18	234	★*KD2
A for shifting Fanling Highway SB North Portion (CH7470-7925) eastward to the completed road near TWSF A for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment A for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East			44.01-44	100	
A for shifting Fanling Highway NB North Portion (CH7470-7925) eastward to the designed alignment A for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East		07 Dec 16	14-Nov-14 08-Dec-16		Commissioning of Diverted Twin DN1400 Fresh Water Mains
A for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion ng of Realigned TWSR East	2	07-Dec-16 06-Mar-17	08-Dec-16 07-Mar-17		Implement TTA for shifting Fanling Highway SB N □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
ng of Realigned TWSR East	2	11-Sep-14	12-Sep-14		Implement TTA for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion
	0	15-Oct-16		3	◆ Commissioning of Realigned TWSR East
hway Widening (KD-1 & KD-2)					
n between CH7470 and CH7925					
veen CH7470 and CH7600 (Provision of Kiu Tau Footbridge)					
ision (East)					
ng Works 3	30				KT-AB1 Piling Works 3
					KT-AB2 - Piling Works 1
					KT-P3 - Piling Works 5
					KT-F4-Filing Works 2
					KT-AB1 - Pile Cap & Pier
Cap & Pier		20-Dec-14			KT-AB2 - Rile Cap & Pier
Cap & Pier	75	19-Jun-15	16-Sep-15		KT-P2 - Pile Cap & Pier
Cap & Pier	75	09-Feb-15	19-May-15	705	► KT-P3 - Pile Cap & Pier
Cap & Pier	75	14-May-15	12-Aug-15	635	KT-P4 - Pile Cap & Pier
nstallation at TWSR East	7	13-Aug-15	-		Steel Truss Installation at TWSR East
nstallation across Fanling Highway	7	17-Sep-15			Steel Truss Installation across Fanling Highway
Bridge Decking and Cladding		25-Sep-15			Installation of Bridge Decking and Cladding
					Installation of Drainage and Lighting Facilities (Overall)
		19-Dec-15	29-Dec-15	612	Testing and Commissioning (Overall)
,	45	27. Jan. 14	26-Mar-14	135	Demolition of Existing Structure and Site Clearance
•					
					Minimize The Scheme E1 (shifting TWSR East to new completed road hear Fanling Highway)
NB73 - Mini-Piling adjacent to SB lane (18nos)	54	13-Sep-14	17-Nov-14		Noise Barrier NB73 - Mini-Piling adjacent to SB lane (18nos)
NB73 - Footing adjacent to SB lane (130m)	240	14-Jul-15	07-May-16	332	Noise Barrier NB73 - Footing adjacent to SB lane (130m)
DN1200 &DN600 Watermains (CHB & CHC) along existing TWSRE (120m long, 3m depth)	240	04-Sep-15	02-Jul-16	373	
existing Kiu Tau Footbridge	65	30-Dec-15	22-Mar-16		└╾──── ₽emolition of existing Kiul Tau Footbridge
f Demolition of existing control valve house	0		28-Aug-15		← Completion of Demolition of existing control valve house
			-		Permanent Road Drainage (Eastern Side)
					Permanent Road Formation & Kerb (Eastern Side)
					► Demolition of Existing Central Divider and F
					► Road Formation, C
	145	00-10181-17	01-Sep-17	57	
oad Formation and Pavement (Eastern Side)	35	31-Jul-14	10-Sep-14	7	Permanent Road Formation and Pavement (Eastern Side)
NB73 - Footing adjacent to SB lane (75m)	166	09-May-16	24-Nov-16	332	L <mark>⇒</mark> Noişe Barrier NB73 - Footing adjacent to SB lahe (7
Existing Central Divider and Road Formation (Middle Part, Pavement Only)	20	10-Feb-17	04-Mar-17	3	Demolition of Existing Central Divider an
	65	02-Sep-17			Road Forr
	65	02-Sep-17	20-Nov-17	57	Road Forr
	107	30 Aug 12 A	07 Ech 14	7	Site Formation, Preparation Works & Tree Transplant, Site Formation, Preparation Works & Tree Transplant
				7	Site Formation Preparation works & rise formation, Preparation works & rise mansplant
				3	Demolition of Existing Central Divider and
ion, Road Drainage, Kerb (Western Side)	150	08-Mar-17	07-Sep-17		► Road Formation, R
	250	08-Mar-17	09-Jan-18		
	Works 1 Vorks 5 Vorks 2 Vorks 2 Vorks 4 ap & Pier p & Pier p & Pier p & Pier tallation at TWSR East tallation at TWSR East tallation across Fanling Highway ridge Decking and Cladding rainage and Lighting Facilities (Overall) mmissioning (Overall) Xisting Structure and Site Clearance Connection - Twin DN1400 Watermains (CHE & CHG) adjacent to existing TWSRE (90m, 9m depth) of TTA - Scheme E1 (shifting TWSR East to new completed road near Fanling Highway) IB73 - Mini-Piling adjacent to SB lane (18nos) IB73 - Footing adjacent to SB lane (18nos) IB73 - Iooting adjacent to SB lane (18nos) IB73 - Mini-Piling adjacent to SB lane (18nos) IB73 - Iooting adjacent to SB lane (18nos) IB73 - Footing adjacent to SB lane (18mos) IB73 - Moni-Piling adjacent to SB lane (18mos) IB73 - Moni-Piling adjacent to SB lane (18mos) IB73 - Footing adjacent to SB lane (75m) xisting Central Divider and Road Formation (Middle Part, Pavement Only) n, Road Drainage, Kerb, Noise Barrier (Western Side) ad Formation and Pavement (Eastern Side) IB73 - Footing adjacent to SB lane (75m) xisting Central Divider and Road Formation (Middle Part, Pavement Only) n, Road Drainage, Kerb (Western Side) m, Central Barrier (Remaining Works at Middle Part, Pavement Only) n, Road Drainage, Kerb (Western Side) m, Central Barrier (Remaining Works at Middle Part) sen CH7600 and CH7825 Preparation Works & Tree Transplant ad Formation and Pavement (Eastern Side) xisting Central Divider and Road Formation (Middle Part, Pavement Only) n, Central Barrier (Remaining Works at Middle Part) sen CH7600 and CH7825	Works 1 30 Vorks 5 30 Vorks 4 40 Jap & Pier 90 Jap & Pier 90 Jap & Pier 75 p & Pier 75 tallation across Fanling Highway 7 ridge Decking and Cladding 35 arainage and Lighting Facilities (Overall) 35 mmissioning (Overal) 7 xisting Structure and Site Clearance 45 Connection - Twin DN1400 Watermains (CHE & CHG) adjacent to existing TWSRE (90m, 9m depth) 186 of TTA - Scheme E1 (shifting TWSR East to new completed road near Fanling Highway) 0 B73 - Min-Piling adjacent to SB lane (130m) 240 N1200 & BDN600 Watermains (CHB & CHC) along existing TWSRE (120m long, 3m depth) 240 xisting Yau Hoob tridge 65 Demotition of existing control valve house 0 ad Formation & Kerb (Eastern Side) 125 ad Formation and Pavement (Eastern Side) 145	Works 1 30 15-Nov-14 Vorks 5 30 14-May-15 Vorks 4 40 22-Dec-14 Works 4 40 23-Mar-15 jap & Pier 75 20-Dec-14 p & Pier 75 19-Jun-15 p & Pier 75 19-Jun-15 p & Pier 75 19-Jun-15 p & Pier 75 14-May-15 tallation across Fanling Highway 7 17-Sep-15 ridge Decking and Cladding 35 25-Sep-15 rainage and Lighting Facilities (Overall) 35 09-Nov-15 mmissioning (Overal) 7 19-Dec-15 of TA- Scheme E1 (shifting TWSR East to new completed road near Fanling Highway) 0 13-Sep-14 of TA- Scheme E1 (shifting TWSR East to new completed road near Fanling Highway) 0 13-Sep-14 1B73 - Mini-Piling adjacent to SB lane (18mos) 240 14-Jul-15 N1200 &DN600 Watermains (CHE & CHG) adjacent to Reverse 0 0 wisting Central Olivider and Road Formation (Middle Part, Pavement Only) 145 03-Dec-15	Works 1 30 15-Nov-14 19-Dec-14 Vorks 5 30 14-May-15 18-Jun-15 Vorks 4 40 22-Mar-15 13-May-15 ag & Pier 90 23-Mar-15 13-May-15 ag & Pier 90 23-Mar-15 13-May-15 ag & Pier 75 20-Dec-14 27-Mar-15 ag & Pier 75 19-Jun-15 16-Sep-15 ag & Pier 75 19-Jun-15 16-Sep-15 ag & Pier 75 19-May-15 12-Aug-15 talation atross Fanling Highway 7 17-Sep-15 24-Sep-15 ofge Decking and Cladding 35 25-Sep-15 07-Nov-15 tanaga and Lighting Facilities (Overall) 35 09-Nov-15 18-Dec-16 off TA-S-Scheme E1 (shfting TMSR Est to ex completed road near Fanling Highway) 0 13-Sep-14 14-Nov-14 17A-Scheme E1 (shfting TMSR Est to ex completed road near Fanling Highway) 0 13-Sep-14 14-Nov-14 17A-Scheme E1 (shfting TMSR Est to ex completed road near Fanling Highway) 0 13-Sep-14 14-Nov-14<	Works 1 30 15-Nov-14 19-Dec-14 122 Vorks 5 30 14-May-15 161 161 Vorks 4 40 22-Dec-14 07-Reb-15 612 Vorks 4 40 22-Mar-15 13-May-15 612 ag & Pier 90 23-Mar-15 14-Jul-15 660 ag & Pier 75 19-Jul-16 16-Sep-15 612 p & Pier 75 19-Jul-16 16-Sep-15 612 p & Pier 75 10-Jul-15 16-Sep-15 765 p & Pier 75 10-Jul-15 16-Sep-15 612 range and Lg/hing Facilites (Overal) 7 13-Aug-15 62-Sep-15 671-Nov-15 612 ranage and Lg/hing Facilites (Overal) 35 25-Sep-15 071-Nov-15 612 ranage and Lg/hing Facilites (Overal) 35 27-Jan-14 26-Mar-14 135 openetion 74 19-Dec-15 29-Dec-15 612 range and Lg/hing Facilites (Overal) 35 27-Jan-14



tivity ID	Activity Name	OD	Start	Finish	Total Float			2014		201			
CWP - Under D	Development (Postpone Pipe Jacking)						J F M Apr	M J JUI A	SOct	N D J F M Apr M J	ul A S Oct	NDJF	MA
Key Dates (For													
Major Works						1							
KD-0105	KD1: Complete Section 1A - all HyD's entrustment works in Zone3 and SBZ2 except for landscaping works	0		07-Dec-17	53	1							
Major Milestone		1											
	Implement TTA for shifting Fanling Highway SB South Portion (CH6960-7380) eastward to the completed ro	2	11-Sep-14	12-Sep-14				F	Impler	ment TTA for shifting Fanling High	•		,
	Implement TTA for shifting Fanling Highway NB South Portion (CH6960-7380) & TWSR West eastward Implement TTA for shifting Fanling Highway SB South Portion to the edge of box culvert	2	01-Dec-14 17-Nov-14	02-Dec-14 18-Nov-14		1			-	Implement TTA for shifting Far			
	Implement TTA for shifting the diverted TWSR West to the original alignment	2	09-Jul-15	10-Jul-15	54	1					Implement TTA		-
	Implement TTA for shifting Fanling Highway SB & NB South Portion westward	2	05-Dec-15	07-Dec-15		1						Implement	
	Implement TTA for shifting Fanling Highway NB South Portion to the designed alignment	2	13-Jun-16	14-Jun-16	92	1							
	Implement TTA for shifting existing TWSR East to the completed widened Fanling Highway SB North Portion	2	11-Sep-14	12-Sep-14		1			I Impler	nent TTA for shifting existing TWS	R East to the com	- ALC	
	Commissioning of Realigned TWSR West	0	14-Dec-15		42	1						Commiss	ioning of
	3 - Fanling Highway Widening (KD-1 & KD-2)												
	ay South Portion between CH6935 and CH7470 vay Zone 1 between CH6935 and CH7130 (within SBZ2)												
	adworks (195m)												
	Site Formation, Preparation Works & Tree Transplant	65	12-Aug-13 A	21-Dec-13	32		Site Formation, P	reparation Wo	ks & Tree 1	ransplant, Site Formation, Prepar	ation Works & Tre	ee Transplant	
FHW-1110*	Pipe Laying - DN1200 Watermains (CHC) across Fanling Highway (total 80m for 2 shafts)	185	30-Dec-13	19-Aug-14	999				Pipe Lavi	g - DN1200 Watermains (CHC) a	cross Fanling Hig	nway (total 80m	n for 2 sh
FHW-1130	Road Formation for Subseqent Traffic Diversion (Approx. 100m)	90	11-Apr-14	01-Aug-14	91	1	_►		oad Forma	tion for Subsegent Traffic Diversion	on (Approx. 100m)		
	Noise Barrier NB70, NB6 and NB7 - Footing adjacent to SB lane (200m)	320	11-Nov-13	11-Dec-14		1				Noise Barrier NB70, NB6 a	-	417	
	Pipe Laying - DN1200 Watermains (CHC) along Fanling Highway (75m long, 4m depth)	140	13-Mar-15	01-Sep-15		1						yng - DN1200 V	
	Permanent Road Formation, Road Drainage, Kerb and Pavement (Eastern Side)	245 90	22-Jul-14	22-May-15		1		-		Pęrn	anent Road Form	nation, Road Dra	aınage, ł
	Noise Barrier NB68 - Footing at central median (60m) Permanent Road Formation & Central Barrier (Middle Part)	180	15-Jun-16 30-Sep-16	29-Sep-16 17-May-17		1							
	vay Zone 2 between CH7130 and CH7290	100	30-3ep-10	17-1vidy-17	212	1							
	adworks (160m)												
·	Pipe Laying - Twin DN1400 Watermains (CHE & F) along Fanling Highway (44m long, 6m depth)	80	27-Jan-14	13-May-14	145	1		Pipe Laying	Twin DN1	400 Watermains (CHE & F) along	Fanling Highway	44m long, 6m	depth)
FHW-2110	Noise Barrier NB71 - Footing adjacent to SB lane (up to road pavement level) (90m)	170	11-Nov-13	14-Jun-14	58			Noise B	arrier NB7	- Footing adjacent to SB lane (up	to road pavemen	nt level) (90m)	
FHW-2120	Permanent Road Formation & Road Drainage (Eastern Side)	163	22-Feb-14	10-Sep-14	58	1	-		📕 Perma	nent Road Formation & Road Dra			
	Pipe Laying - DN1200 &DN600 Watermains (CHB & CHC) along Fanling Highway (183m long, 4m depth)	160	25-Aug-14	12-Mar-15		1				Pipe Laying - [0N1200 &DN600 \	Watermains (CH	1B & CH
	Noise Barrier NB71 - Upstand Wall adjacent to SB lane	105	08-Dec-15	22-Apr-16		1							
	Remaining Road Formation & Kerb (Eastern Side)	120	02-Feb-16	06-Jul-16	464	1							
	Footpath, DSD Access Track & Cycle Track adjacent to SB Iane Noise Barrier NB67 - Mini-Piling adjacent to NB Iane (28nos)	108 84	23-Apr-16 03-Dec-14	31-Aug-16 20-Mar-15		1				Noise Barrier	NB67 - Mini-Pilir		B lane (3
	Noise Barrier NB67 - Footing adjacent to NB lane (83m)	160	03-Dec-14 07-Feb-15	20-Mar-15 28-Aug-15		1						arrier NB67 - Fo	
	Permanent Road Formation, Road Drainage & Kerb (Western Side)	200	13-May-15	11-Jan-16		1						[] <u></u>	nanent Ro
	Noise Barrier NB68 - Mini-Piling at central median (6nos)	35	15-Jun-16	26-Jul-16		1							
FHW-2310	Noise Barrier NB68 - Footing at central median (157m)	240	30-Sep-16	28-Jul-17	92								
	Permanent Road Formation & Central Barrier (Middle Part)	105	06-Jun-17	09-Oct-17	92								
	vay Zone 3 between CH7290 and CH7380												
	Extension - ID4 Extension - ID5							Quuguup gi	nno geostin Historiati	g box structure			
	adworks (90m)						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-91-9-19	щинадархны	ing Box Structure			
	Permanent Road Formation with 2/3 width of Permanent Road (Eastern Side)	60	23-Jan-14	10-Apr-14	91	1	Pe	ermanent Road	Formation	with 2/3 width of Permanent Road	(Eastern Side)		
FHW-3110		30	01-Apr-14	12-May-14		1		Filing Works			(,		
FHW-3120*	Pipe Laying - Twin DN1400 Watermains (CHE & F) along Fanling Highway (90m long, 3m depth)	90	14-May-14	28-Aug-14		1			Pipe Lay	ing - Twin DN1400 Watermains (CHE & F) along F	anling Highway	(90m lo
FHW-3120B	Temporary Road Formation for the Remaining Part of Permanent Road (Eastern Side)	65	29-Aug-14	15-Nov-14	238	1				Temporary Road Formation for	the Remaining Pa	art of Permanen	it Road (
	Noise Barrier NB71 - Mini-Piling adjacent to SB lane (40nos)	120	08-Dec-15	11-May-16	181	1							
	Noise Barrier NB71 - Footing adjacent to SB lane (130m)	249	26-Feb-16	24-Dec-16		1						- - -	
	Pipe Laying - DN600, DN1200 Watemains (CHB &CHC) along Fanling Highway (90m long, 3m depth)	249	23-Apr-16	25-Feb-17		1							
	Permanent Road Formation, Road Drainage, Kerb and Pavement (Eastern Side)	115	17-Oct-16 27-Feb-17	09-Mar-17		1							
	Footpath, DSD Access Track adjacent to SB lane Noise Barrier NB69 - Mini-Piling adjacent to NB lane (40nos)	60 120	09-Jul-15	13-May-17 28-Nov-15		1						Noise Barri	ier NR60
	Noise Barrier NB69 - Footing adjacent to NB Iane (108m)	160	17-Sep-15	08-Apr-16		1							
	Permanent Road Formation, Road Drainage & Kerb (Western Side)	112	19-Jan-16	11-Jun-16		1							
	Noise Barrier NB68 - Mini-Piling at central median (40nos)	120	15-Jun-16	05-Nov-16		1							
	Noise Barrier NB68 - Footing at central median (98m)	160	28-Feb-17	11-Sep-17		1							
	Permanent Road Formation & Central Barrier (Middle Part)	60	12-Sep-17	23-Nov-17	54	1							
	vay Zone 4 between CH7380 and CH7470												
	adworks (90m)					1	 <u> </u>						
	Permanent Road Formation with 2/3 width of Permanent Road (Eastern Side)	60 166	11-Nov-13	22-Jan-14		1	 Permanent R	.oad ⊢ormation		dth of Permanent Road (Eastern S	,	Eanling Linh	101 100
	Pipe Laying - Twin DN1400 Watermains (CHE & CHF) along Fanling Highway (90m long, 3m depth) Temporary Road Formation for the Remaining Part of Permanent Road (Eastern Side)	166 65	27-Jan-14 25-Aug-14	23-Aug-14 11-Nov-14		1			Fipe Lay	ng - Twin DN1400 Watermains (C Temporary Road Formation for			
	Noise Barrier NB71 & NB72 - Footing adjacent to SB lane (90m)	170	23-Aug-14 23-Apr-16	15-Nov-16		1					are remaining Fa		
	Pipe Laying - DN600, DN1200 Watermains (CHB &CHC) along Fanling Highway (90m long, 3m depth)	170	18-Jun-16	10-Jan-17		1							
	Permanent Road Formation, Road Drainage, Kerb and Pavement (Eastern Side)	120	03-Sep-16	27-Jan-17		1							
	Footpath, DSD Access Track adjacent to SB lane	60	11-Jan-17	28-Mar-17		1							
	Permanent Road Formation, Road Drainage & Kerb (Western Side)	112	14-Dec-15	07-May-16		1						L >	
	Noise Barrier NB68A - Footing at central median (40m)	80	16-Nov-16	27-Feb-17		1							
	Permanent Road Formation & Central Barrier (Middle Part)	60	28-Feb-17	15-May-17	677	1							
i	s Works for Facilitating Traffic Diversion of Fanling Highway	0.5	40.0			1					0 Mal 0	Deed D	
HVV-M-1000	Demolition of Central Barrier & Make Good of Road Pavement for further Traffic Diversion	65	13-Sep-14	29-Nov-14	58	4			-	Demolition of Central Barrier	& Make (Rood of	Road Pavement	. TOP TUPTh

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Milestone

Actual Work

Remaining Work

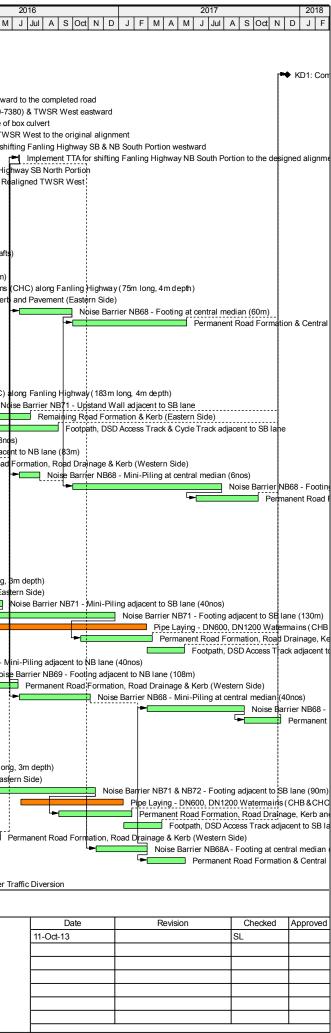
CEDD Contract No. CV/2012/09

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

Works Sequence for Fanling Highway South Portion

CWP004-1

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Activity ID Ac	tivity Name	OD	Start	Finish	Total Float	2014 2015 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
CWP - Under Devel	lopment (Postpone Pipe Jacking)			-		ook noor beel van neur man Aprillinay van van Aug beel ook noor beel van reu wan Aprillinay van van Aug beel ook noor
Key Dates (Forecas						
Major Works	- /					
KD-0905 KD	013: Adhieve Stage N4A - connection of Access Road A and Sip Road Y at Entrustment Boundary CD	0		25-Sep-15	36	€ F
KD-1005 KD	014: Achieve Stage N4B - commissioning of Roundabout A by connecting to Slip Rd Y, Access Rd A & th	0		24-May-16	8	
KD-0205 KD	D2: Complete Section 1B - all HyD's entrustment works in NBZ1 except for landscaping works	0		09-Jan-18	234	
Major Milestones ar	nd Events					
MS-3000 Im	plement TTA for shifting existing TWSR East to the completed widened Fanling Highway SB North Portio	2	11-Sep-14	12-Sep-14	7	Limplement TTA for shifting existing TWSR East to the completed widened Fanling Highway SB North Porti
Stage N4A & N4B -	Realignment of Tai Wo Service Road East (KD-13 & KD-14)					
	veen CH100 and CH270					
Box Culvert Extens						
TWSRE-1000 Flo	ow Diversion of Existing Stream	4	27-Jan-14	30-Jan-14	95	Flow Diversion of Existing Stream
TWSRE-1010 Ex	cavation, Sub-base and Blinding	5	07-Feb-14	12-Feb-14	95	Excavation, Sub-base and Blinding
TWSRE-1020 Ba	ay 1 - Base Slab	14	10-Feb-14	25-Feb-14	95	Bay 1 - Base Slab
TWSRE-1030 Ba	ay 2 - Base Slab	14	18-Feb-14	05-Mar-14	95	Bay 2 - Base Slab
TWSRE-1040 Ba	ay 1 - Wall and Top Slab	22	26-Feb-14	22-Mar-14	102	Bay 1 - Wall and Top Slab
TWSRE-1050 Ba	ay 2 - Wall and Top Slab	22	06-Mar-14	31-Mar-14	95	Bay 2 - Wall and Top Slab
At-Grade Roadwork	ks					
TWSRE-1100 Ins	stallation of Mini-Pile for PC01 & PC02 (22nos)	66	27-Jan-15	24-Apr-15	24	Installation of Mini-Pile for PC01 & PC02 (22nos)
TWSRE-1110 No	bise Barrier NB3 - PC01 & PC02 Construction	55	25-Apr-15	02-Jul-15	24	
TWSRE-1130 Re	etaining Wall Construction for FL/RW5	55	03-Jul-15	04-Sep-15	24	- Retaining Wall Co
TWSRE-1120 No	pise Barrier NB3 - Footing adjacent to Realigned TWSR East (96m)	166	23-Jul-15	15-Feb-16	7	
TWSRE-1160 Ro	oad Formation, Road Drainage, Kerb, Planter and Pavement (Incl. FL/F8A, FL/F9)	190	25-Sep-15	24-May-16	7	
TWSRE Zone 2 betw	veen CH270 and CH380					
At-Grade Roadwork	ks					
TWSRE-2010 No	pise Barrier NB3 - Footing adjacent to Realigned TWSR East (96m)	166	22-Dec-14	22-Jul-15	7	- Noise Barrier NB3 - Footing.
TWSRE-2020* Pip	pe laying - DN600, DN1400 & DN1200 Watermains (CHB, CHK & CHC) along Realigned TWSR East	172	20-Mar-15	17-Oct-15	89	
TWSRE-2020 Re	etaining Wall Construction for FL/RW6	55	05-Sep-15	11-Nov-15	69	
TWSRE-2030 Ro	oad Formation, Road Drainage, Kerb, Planter and Pavement	90	12-Nov-15	05-Mar-16	69	
TWSRE-2050 Ere	ection of Scaffolding for Demolition Works	60	16-Jun-16	25-Aug-16	3	
TWSRE-2040 Co	ompletion of New Vehicular Bridge by Other Contractor	0		25-Aug-16	3	
TWSRE-2060 De	emolition of Existing Vehicular Bridge	40	26-Aug-16	14-Oct-16	3	
TWSRE-2070 Co	ommissioning of Realigned TWSR East	0	15-Oct-16		3	
TWSRE Zone 3 betw	veen CH380 and CH456					
At-Grade Roadwork	ks					
TWSRE-3010 No	pise Barrier NB3 - Footing adjacent to Realigned TWSR East (62m)	83	13-Sep-14	20-Dec-14	7	★ Noise Barrier NB3,- Footing adjacent to Realigned TWSR East (62rh)
TWSRE-3020* Pip	pe Laying - DN600 & DN1200 Watermains (CHB & CHC) along Realigned TWSR East	53	19-Jan-15	27-Mar-15	75	
TWSRE-3030 Ro	oad Formation, Road Drainage, Kerb, Planter and Pavement (Ind. FL/F10)	90	28-Mar-15	20-Jul-15	254	Road Formation Road Drain
Roundabout A, Slip	Road and Access Road					
TWSRE-4000 Site	te Formation, Preparation Works & Tree Transplant	65	23-Dec-13	18-Mar-14	172	Site Formation, Preparation Works & Tree. Transplant
TWSRE-4050* Pip	pe laying - DN600, DN1200 & DN2300 Watermains (CHB, CHC & CHJ) along Access Road A & Round	111	13-Sep-14	26-Jan-15	75	
TWSRE-4010 Im	plementation of TTA - Scheme S1 (Shifting Ext. TWSR East to Fanling Highway S/B)	0	13-Sep-14		28	→ Implementation of TTA - Scheme S1 (Shifting Ext. TWSR East to Fanling Highway S/B)
TWSRE-4020 Slip	p Road Y (CH260-CH404) - Road Formation, Road Drainage, Kerb, Planter and Pavement	180	13-Sep-14	28-Apr-15	28	Slip Road Y (CH260-CH404) - Road Formation, F
TWSRE-4030 No	pise Barrier NB74 - Footing adjacent to Realigned TWSR East (72m)	166	12-Dec-14	13-Jul-15	32	
TWSRE-4040 Slip	p Road Y (CH100-CH230) - Road Formation, Road Drainage, Kerb, Planter and Pavement	150	21-Mar-15	21-Sep-15	32	Sip Road Y (C
TWSRE-4060 Ac	cess Road A - Road Formation, Road Drainage, Kerb, Planter and Pavement	125	29-Apr-15	25-Sep-15	28	Access Road
TWSRE-4070 Ro	oundabout A - Road Formation, Road Drainage, Kerb, Planter and Pavement	120	22-Sep-15	22-Feb-16	80	
	or Noise Barrier along realigned TWSR East					
	stallation of Steelwork & Transparent Panel - Noise Barrier NB74 (90m)	35	23-Feb-16	07-Apr-16	537	
TWSRE-NB-120 Ins	stallation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m)	65	15-Oct-16	31-Dec-16	316	

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Actual Work
Remaining Work
Critical Remaining Work
Milestone
Project Baseline Bar

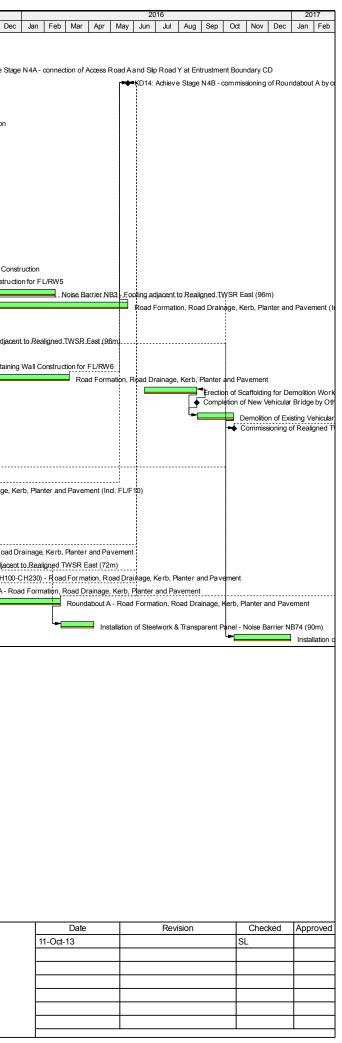
CEDD Contract No. CV/2012/09

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

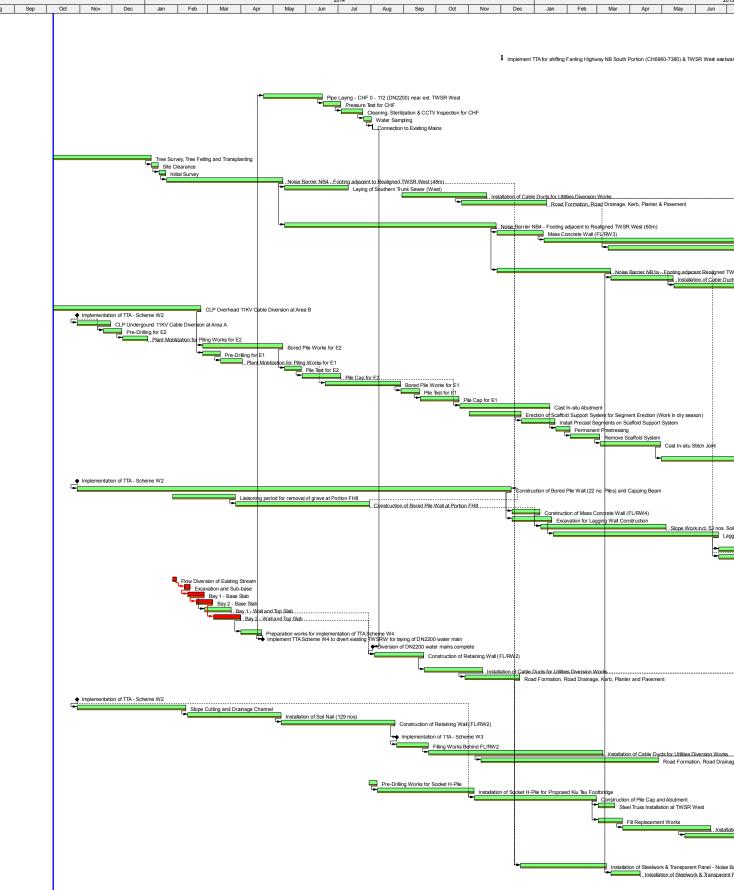
Works Sequence for TWSRE

CWP004-1____

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CWP - Under De					
CWP - Under De					Float
K	velopment (Postpone Pipe Jacking)				
Key Dates (Foreco Major Works	ast)				
KD-0505	KD7: Achieve Stage 1A - complete Realigned Tai Wo Service Road West	0		12-Dec-15	35
Major Milestones					
MS-2020	Implement TTA for shifting Fanling Highway NB South Portion (CH6960-7380) & TWSR West eastward	2	01-Dec-14	02-Dec-14	58
MS-2040	Implement TTA for shifting the diverted TWSR West to the original alignment	2	09-Jul-15	10-Jul-15	54
Section II - Rema WSD Works	inder of the Works (KD-3)				
DN2200 Water M	fains (CHE)				
WF-1000	Pipe Laying - CHF 0 - 112 (DN2200) near ext. TWSR West	45	22-Apr-14	16-Jun-14	155
WF-2000	Pressure Test for CHF	14	17-Jun-14	03-Jul-14	155
WF-2010	Cleaning, Sterilization & CCTV Inspection for CHF	18	04-Jul-14	24-Jul-14	155
WF-2020 WF-2030	Water Sampling Connection to Existing Mains	7	25-Jul-14	01-Aug-14	155 155
	nment of Tai Wo Service Road West (KD-7)	1	02-Aug-14	02-Aug-14	100
	betweeen CH100 and CH155				
At-Grade Roady					
	Tree Survey, Tree Felling and Transplanting	75	07-Oct-13	06-Jan-14	41
TWSRW-1110		6	07-Jan-14	13-Jan-14	41
TWSRW-1120	Initial Survey Noise Barrier NB4 - Footing adjacent to Realigned TWSR West (48m)	6 83	14-Jan-14 21-Jan-14	20-Jan-14 10-May-14	41 41
	Laying of Southern Trunk Sever (West)	50	12-May-14	10-Jul-14	142
	Installation of Cable Ducts for Utilities Diversion Works	65	30-Aug-14	17-Nov-14	142
	Road Formation, Road Drainage, Kerb, Planter & Pavement	65	25-Oct-14	12-Jan-15	142
	betweeen CH155 and CH280				
At-Grade Roady	vorks Noise Barrier NB4 - Footing adjacent to Realigned TWSR West (60m)	166	12 May 14	26-Nov-14	41
	Mass Concrete Wall (FL/RW3)	35	12-May-14 27-Nov-14	26-NOV-14 09-Jan-15	41
	Installation of Cable Ducts for Utilities Diversion Works	155	10-Jan-15	25-Jul-15	41
	Road Formation, Road Drainage, Kerb, Planter and Pavement	155	11-Mar-15	16-Sep-15	99
TWSRW Zone 3 L	betweeen CH280 and CH315				
At-Grade Roady		00	07 11	40.44	100
	Noise Barrier NB1a - Footing adjacent Realigned TWSR West (31m) Installation of Cable Ducts for Utilities Diversion Works	83 45	27-Nov-14 14-Mar-15	13-Mar-15 11-May-15	103 103
	Road Formation, Road Drainage, Kerb, Planter and Pavement	45	14-Mar-15 12-May-15	23-Jul-15	103
	betweeen CH315 and CH376				
Construction of	Bridge E				
	CLP Overhead 11KV Cable Diversion at Area B	110	07-Oct-13	22-Feb-14	28
	Implementation of TTA - Scheme W2	28	29-Oct-13 29-Oct-13	29-Nov-13	65 65
	CLP Undergound 11KV Cable Diversion at Area A Pre-Drilling for E2	28	29-0ct-13 23-Nov-13	29-Nov-13 10-Dec-13	65
TWSRW-4020B	Plant Mobilization for Piling Works for E2	18	11-Dec-13	03-Jan-14	65
	Bored Pile Works for E2	60	24-Feb-14	10-May-14	28
	Pre-Drilling for E1	15	24-Feb-14	12-Mar-14	87
	Plant Mobilization for Piling Works for E1	18	13-Mar-14	02-Apr-14	87
TWSRW-4040B TWSRW-4050B		14 30	12-May-14 28-May-14	27-May-14 03-Jul-14	120 120
	Bored Pile Works for E1	60	19-Jun-14	28-Aug-14	28
TWSRW-4040A		14	29-Aug-14	15-Sep-14	28
TWSRW-4050A		30	16-Sep-14	22-Oct-14	28
	Cast In-situ Abutment	70	23-Oct-14	15-Jan-15	28
TWSRW-4060	Erection of Scaffold Support System for Segment Erection (Work in dry season)	42	01-Nov-14	19-Dec-14	24
TRACODIAL 40704		24	20-Dec-14	20-Jan-15	24
	Install Precast Segments on Scaffold Support System	12	21. Jan. 15	03 Eeb 15	24
TWSRW-4080	Permanent Prestressing	12	21-Jan-15	03-Feb-15 03-Mar-15	24
TWSRW-4080 TWSRW-4090A		12 18 45	21-Jan-15 04-Feb-15 04-Mar-15	03-Feb-15 03-Mar-15 29-Apr-15	24 24 35
TWSRW-4080 TWSRW-4090A TWSRW-4090B At-Grade Roadw	Permanent Prestressing Remove Scaffold System Cast In-stu Stitch Joint orks	18 45	04-Feb-15 04-Mar-15	03-Mar-15 29-Apr-15	24 35
TWSRW-4080 TWSRW-4090A TWSRW-4090B At-Grade Roadw TWSRW-4100	Permanent Prestressing Remove Sarbde System Cast In-situ Sittch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway	18 45	04-Feb-15	03-Mar-15	24
TWSRW-4080 TWSRW-4090A TWSRW-4090B At-Grade Roadw TWSRW-4100 TWSRW Zone 5 t	Permanent Prestressing Remove Scaffold System Cast In-stu Stith. Joint corks Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway <i>Detweene</i> (<i>H276 and CH520</i>)	18 45	04-Feb-15 04-Mar-15	03-Mar-15 29-Apr-15	24 35
TWSRW-4080 TWSRW-4090A TWSRW-4090B At-Grade Roadw TWSRW-4100 TWSRW-20ne 5 th Construction of	Permanent Prestressing Remove Sarbid System Cast In-situ Stitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Petween CH376 and CH520 Retaining Structures	18 45	04-Feb-15 04-Mar-15 30-Apr-15	03-Mar-15 29-Apr-15	24 35
TWSRW-4080 TWSRW-4090A TWSRW-4090B At-Grade Roadw TWSRW-4100 TWSRW Zone 5 to Construction of TWSRW-5000	Permanent Prestressing Remove Scaffold System Cast In-sits Utik-I Joint Cast In-sits Utik-I Joint Cast Paraget, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway between CH376 and CH520 Retaining Structures Implementation of TAs - Scheme W2	18 45 120	04-Feb-15 04-Mar-15	03-Mar-15 29-Apr-15	24 35 35
TWSRW-4080 TWSRW-4090B At-Grade Roadw TWSRW-4100 TWSRW-2006 5 Construction of TWSRW-5000 TWSRW-5010 TWSRW-5010	Permanent Prestressing Remove Scaffold System Cast In-situ Stitut. Joint Cast In-situ Stitut. Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Setweener CH376 and CH550 Retaining Structures Implementation of TIA - Scheme W2 Construction of Borce File Wall (22 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FHB	18 45 120 0 330 45	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14	24 35 35 27 27 103
TWSRW-4080 TWSRW-4090A TWSRW-4090B At-Grade Roadw TWSRW-20ne 5 th Construction of TWSRW-5010 TWSRW-5010 TWSRW-5020 TWSRW-5030	Permanet Prestressing Remove Sarbid System Cast In-stu Stitch Joint works Cast Paraget, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Retwines CH175 and CH320 Retaining Structures Implementation of TTA - Scheme W2 Construction of Border File Wall (22 no. Files) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Border File Wall (22 no. Files)	18 45 120 0 330 45 100	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Mar-14	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jul-14	24 35 35 27 27 103 138
TWSRW-4080 TWSRW-4090B At-Grade Roadu TWSRW-4100 TWSRW-4100 TWSRW-4100 TWSRW-5000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5030 TWSRW-5040	Permanent Prestressing Remove Sardlod System Cast In-situ Sitich Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Settement CH376 and CH520 Retaining Structures Implementation of TA- Scheme W2 Construction of Bord Pile Wall (22 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Borde Rile Walla tFortion FH8 Construction of Mass Concrete Wall (FLRW4)	18 45 120 0 330 45 100 20	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Mar-14 11-Dec-14	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jul-14 06-Jan-15	24 35 35 27 27 103 138 67
TWSRW-4080 TWSRW-4090B At-Grade Roadw TWSRW-4090B At-Grade Roadw TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5020 TWSRW-5020 TWSRW-5030 TWSRW-5040 TWSRW-5060	Permanet Prestressing Remove Sardbott System Cast In-stu Stitch Joint Works Cast Paraget, Erection of Noles Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Retwines CH776 and CH520 Retaining Structures Unplementation of TTA - Scheme W2 Construction of Border Pile Wall (22 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Derod Pile Wall at Portion FH8 Construction of Derod Pile Wall et Portion FH8 Construction of Mass Concrete Wall (FLRW4) Executation for Lagging Wall Construction	18 45 120 330 45 100 20 30	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Mar-14 11-Dec-14	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jul-14 06-Jan-15	24 35 35 27 27 103 138
TWSRW-4080 TWSRW-4090B AI-Grade Roadw TWSRW-4090B AI-Grade Roadw TWSRW-5000 TWSRW-5000 TWSRW-5000 TWSRW-5000 TWSRW-5030 TWSRW-5040 TWSRW-5050	Permanent Prestressing Remove Sardlod System Cast In-situ Sitich Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Settement CH376 and CH520 Retaining Structures Implementation of TA- Scheme W2 Construction of Bord Pile Wall (22 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Borde Rile Walla tFortion FH8 Construction of Mass Concrete Wall (FLRW4)	18 45 120 0 330 45 100 20	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Mar-14 11-Dec-14	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jul-14 06-Jan-15	24 35 35 27 27 103 138 67 27
TWSRW-4090 TWSRW-4090A TWSRW-4090B AI-Grade Roady TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5050 TWSRW-5050 TWSRW-5050	Permanet Prestressing Remove Sarbid System Cast In-situ Sitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Petween CH375 and CH520 Retaining Structures Implementation of TA- Scheme W2 Construction of Derod Pile Wall (21 cn. Piles) and Capping Beam Liaisoning period for removal of grave at Pertion FH8 Construction of Derod Pile Wall (21 cn. Piles) and Capping Beam Construction of Mass Concrete Wall (FL/RW4) Exeavation for Lagging Wall Construction Stope Work Ind. 53 on. Soi Na Wall Kr 35W-CiC898 & SSW-DiC29 Lagging Wall Construction works	18 45 120 330 45 100 20 30 90 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 07-Jan-15 19-Jan-15	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jul-14 06-Jan-15 17-Jan-15 04-May-15 22-Jun-15	24 35 35 27 27 103 138 67 27 67 27
TWSRW-4090 TWSRW-4090A TWSRW-4090B At-Grade Roady TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5030 TWSRW-5040 TWSRW-5040 TWSRW-5050 TWSRW-5050 TWSRW-5050	Permanet Prestressing Remove Scaffold System Cost In-situ Situh. Joint Cost In-situ Situh. Joint Cost Paraget, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Detweene CH376 and CH550 Relating Structures Implementation of TA- Scheme W2 Construction of Bored Pile Wall (22 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Mass Concrete Wall (LFLRW4) Excavation for Lagging Wall Construction Stope Work Inc. 35 nos. Soil Nail for 3SW-C/C898 & 3SW-D/C29 Lagging Wall Construction Wals	18 45 120 330 45 100 20 30 90 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 17-Dec-14 17-Dec-14 17-Dec-14 19-Jan-15 19-Jan-15 23-Jun-15	03-Mar-15 29-Apr-15 21-Sep-15 21-Sep-15 26-Mar-14 30-Jul-14 06-Jan-15 04-May-15 22-Jun-15 12-Dec-15	24 35 35 27 27 103 138 67 27 67 27 27
TWSRW-4090 TWSRW-4090A TWSRW-4090B AI-Grade Roady TWSRW-4000 TWSRW-5000 TWSRW-5000 TWSRW-5000 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5030	Permanet Prestressing Remove Sardböt System Cast In-sku Sitch Joht works Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furnture for Footpath and Carriageway Determent CH376 and CH520 Retaining Structures Unsplementation of TA- Scheme W2 Construction of Bored Pile Wall (22 no. Piles) and Capping Beam Construction of Dered Pile Wall (22 no. Piles) and Capping Beam Construction of Dered Pile Wall (22 no. Piles) and Capping Beam Construction of Dered Pile Wall et Portion FH8 Construction of Dered Pile Wall et Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Exeavation for Lagging Wall Construction Stope Work Ind. 53 nos. Soil Nail for 3SW-C/C888 & 3SW-D/C29 Lagging Wall Construction Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NE2 - Footing adjoent to Realigned TWSR West (66m)	18 45 120 330 45 100 20 30 90 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 07-Jan-15 19-Jan-15	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jul-14 06-Jan-15 17-Jan-15 04-May-15 22-Jun-15	24 35 35 27 27 103 138 67 27 67 27
TWSRW-4090 TWSRW-4090A TWSRW-4090B AL-Grade Roadt TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5050 TWSRW-5050 TWSRW-5010 TWSRW-5010 TWSRW-5110 TWSRW-5110	Permanet Prestressing Remove Sardlod System Cast In-stu: Stitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Detween CH375 and CH580 Retaining Structures Implementation of TRA - Scheme W2 Construction of Bored Pile Wall (2 no. Piles) and Capping Beam Laisoning period for removal of grave at Portion FH8 Construction of Bored Pile Wall (2 no. Piles) and Capping Beam Laisoning period for removal of grave at Portion FH8 Construction of Mass Concrete Wall (FLRV4) Excavation for Lagging Wall Construction Stope Work Inc. 55 nos. Sol Nall (or SSW-CIC898 & 3SW-DIC29 Lagging Wall Construction Korks Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NB2 - Footing adjacent to Realigned TWSR West (66m) Serveen CH320 and CH530	18 45 120 330 45 100 20 30 90 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 17-Dec-14 17-Dec-14 17-Dec-14 19-Jan-15 19-Jan-15 23-Jun-15	03-Mar-15 29-Apr-15 21-Sep-15 21-Sep-15 26-Mar-14 30-Jul-14 06-Jan-15 04-May-15 22-Jun-15 12-Dec-15	24 35 35 27 27 103 138 67 27 67 27 27
TWSRW-4090 TWSRW-4090A TWSRW-4090B AI-Grade Roade TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5100 TWSRW-5100	Permanet Prestressing Remove Sardlod System Cast In-stu: Stitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Detween CH375 and CH580 Retaining Structures Implementation of TRA - Scheme W2 Construction of Bored Pile Wall (2 no. Piles) and Capping Beam Laisoning period for removal of grave at Portion FH8 Construction of Bored Pile Wall (2 no. Piles) and Capping Beam Laisoning period for removal of grave at Portion FH8 Construction of Mass Concrete Wall (FLRV4) Excavation for Lagging Wall Construction Stope Work Inc. 55 nos. Sol Nall (or SSW-CIC898 & 3SW-DIC29 Lagging Wall Construction Korks Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NB2 - Footing adjacent to Realigned TWSR West (66m) Serveen CH320 and CH530	18 45 120 330 45 100 20 30 90 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 17-Dec-14 17-Dec-14 17-Dec-14 19-Jan-15 19-Jan-15 23-Jun-15	03-Mar-15 29-Apr-15 21-Sep-15 21-Sep-15 26-Mar-14 30-Jul-14 06-Jan-15 04-May-15 22-Jun-15 12-Dec-15	24 35 35 27 27 103 138 67 27 67 27 27
TWSRW-4090 TWSRW-4090B AL-Grade Roadtu TWSRW-4000 TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5020	Permanet Prestressing Remove Sardböt System Cast Ivanove Sardböt System Cast Parapet, Erection of Noke Barrier, Lay Surfacing and Road Furniture for Footpath and Carriageway Determent CH375 and CH520 Retaining Structures Unsplementation of TA- Scheme W2 Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall et Portion FH8 Construction of Dorde Pile Wall et Portion FH8 Construction of Dorde Pile Wall at Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Exeavation for Langging Wall Construction Stope Work Ind. 53 nos. Soi Nail for 3SW-C/C289 & 3SW-D/C29 Lagging Wall Construction Portion Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NE2 - Footing adjacent to Realigned TWSR West (66m) Detween CH320 and CH530 ension - BC01	18 45 120 330 45 100 20 30 90 120 145 80	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jul-14 06-Jan-15 17-Jan-15 04-May-15 22-Jun-15 12-Dec-15 24-Sep-15	24 35 27 27 103 138 67 27 67 27 27 27 32
TWSRW-4080 TWSRW-4090B AL-Grade Roadu TWSRW-4090B AL-Grade Roadu TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5040 TWSRW-5040 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5040 TWSRW-5050 TWSRW-5050 TWSRW-5050 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010	Permanet Prestressing Remove Sarbid System Cast In-situ Sitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumiture for Footpath and Carriageway Activations CH376 and CH582 Retaining Structures Implementation of TA. Scheme W2 Construction of Dorde Pile Wall (21 cn. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of More Pile Wall (21 cn. Piles) and Capping Beam Construction of More Pile Wall (21 cn. Piles) and Capping Beam Construction of More Pile Wall at Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Excavation for Lagging Wall Construction Stope Work in LS ons. Soil Nall at OSW-C/C898 & SSW-D/C29 Lagging Wall Construction Noise Barier NR5 - Footing adjacent to Realigned TWSR West (66m) Determent CH520 and CH530 ension - L601 Flow Diversion of Existing Stream Excavation and Sub-base Bay 1 - Base Slab	18 45 120 330 45 100 20 30 90 120 145 80 145 80	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 12-Jan-15 23-Jan-15 23-Jan-15 23-Jan-15	03.44ar-15 29.4pr-15 21.Sep-15 10-Dec-14 26.44ar-14 30-Jul-14 06.Jan-15 17.Jan-15 22.Jun-15 12.Dec-15 22.Jun-15 30.Jan-14 12.Feb-14 25.Feb-14	24 35 35 27 27 103 138 67 27 67 27 27 32 27 32 0 0 0
TWSRW-4080 TWSRW-4090A TWSRW-4090A At-Grade Roadw TWSRW-4100 I WSRW-4100 I WSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010	Permanet Prestressing Remove Sachlock System Cast In-sub Stitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Caritageway between CH176 and CH520 Retaining Structures Implementation of TTA- Scheme W2 Construction of Border File Wall (22 nr. Piles) and Capping Beam Construction of Border File Wall (22 nr. Piles) and Capping Beam Construction of Dorder File Wall (22 nr. Piles) and Capping Beam Construction of Dorder File Wall et Portion FH8 Construction of Dorder File Wall et Portion FH8 Construction of Border File Wall et Portion FH8 Construction of Border File Wall et Portion FH8 Construction of Usas Concrete Wall (FL/RW4) Exeavation for Lagging Wall Construction Stope Work Ind. 53 nos. Sol Nall for 3SW-C/C688 & 3SW-D/C29 Lagging Wall Construction Noise Barrier NB2 - Footing adjacent to Realigned TWSR West (66m) Breatment CH320 and CH520 Road Formation. Road Drainage, Kerb, Planter and Pavement Noise Barrier NB2 - Footing adjacent to Realigned TWSR West (66m) Berween CH320 and CH520 Execution and Sub-base Execution and Sub-base Bay 1 - Base Slab Bay 2 - B	18 45 120 330 45 100 20 30 20 30 20 120 120 145 80 4 4 5 14 14	04-Feb-15 04-Mar-15 03-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 07-Fab-14 07-Feb-14 10-Feb-14	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jub-14 30-Jub-14 30-Jub-14 17-Jan-15 12-Dec-15 24-Jun-15 12-Dec-15 24-Sep-15 30-Jan-14 12-Feb-14 12-Feb-14 05-Mar-14	24 35 35 27 103 138 67 27 67 27 27 27 27 27 32 0 0 0 0 0
TWSRW-4090 TWSRW-4090B Af-Grade Road TWSRW-4090B Af-Grade Road TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5030 TWSRW-5040 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010	Permanet Prestressing Remove Sarbid System Cast In-situ Sitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumiture for Footpath and Carriageway Retaining Structures Implementation of TA-Scheme W2 Construction of Dorde Pile Wall (21 co. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Moored Pile Wall (21 co. Piles) and Capping Beam Construction of Moored Pile Wall at Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Excavation for Lagging Wall Construction Stope Work nick 3 on. sol Nall and To SSW-C/C898 & SSW-D/C29 Lagging Wall Construction Noise Bartier NE2 - Footing adjoent to Realigned TWSR West (66m) Extension of Existing Stream Excavation and Sub-base Bay 1 - Base Slab Bay 1 - Base Slab Bay 1 - Base Slab	18 45 120 330 45 100 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 45 120 20 20 20 20 20 20 20 20 20 20 20 20 2	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Mar-14 11-Dec-14 07-Jan-15 19-Jan-15 19-Jan-15 23-Jun	03.Mar-15 29.Apr-15 21.Sep-15 10-Dec-15 30-Jul-14 06.Jan-15 17.Jan-15 12-Dec-15 22.Jun-15 12-Dec-15 24.Sep-15 30.Jan-14 12.Feb-14 05.Mar-14 22.Mar-14	24 35 27 27 103 103 103 103 103 103 27 27 27 27 27 27 32 0 0 0 0 0 0 0 0 88
TWSRW-4090 TWSRW-4090A Ar-Grade Roadw TWSRW-4090 Ar-Grade Roadw TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6020 TWSRW-6020 TWSRW-6030	Permanet Prestressing Remove Sardhöt System Cast In-slu Stitch John Variant Retaining Structures Ingelementation of TTA- Scheme W2 Construction of Borde File Wall (22 nr. Piles) and Capping Beam Liaisoning period for removal of grave at Perton FH8 Construction of Borde File Wall (22 nr. Piles) and Capping Beam Construction of Borde File Wall (22 nr. Piles) and Capping Beam Construction of Borde File Wall (22 nr. Piles) and Capping Beam Construction of Borde File Wall (22 nr. Piles) and Capping Beam Construction of Borde File Wall et Portion FH8 Construction of Borde File Wall et Portion FH8 Construction of Borde File Wall et Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Exeavation for Langging Wall Construction Stope Work Ind. 53 nos. Sol Nail for 3SW-C/C888 & 3SW-D/C29 Lagging Wall Construction Wall Construction Construction Road Formation. Road Drainage, Kerb, Planter and Pavement Noise Barrier NB2 - Footing adjacent to Realigned TWSR West (66m) Bearders <i>CHS20 and CHS20</i> File Wall Stream Exeavation and Sub-base Bay 1 - Base Slab	18 45 120 330 45 100 20 30 20 30 20 20 120 120 145 80 4 4 5 14	04-Feb-15 04-Mar-15 03-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 07-Fab-14 07-Feb-14 10-Feb-14	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 30-Jub-14 30-Jub-14 30-Jub-14 17-Jan-15 12-Dec-15 24-Jun-15 12-Dec-15 24-Sep-15 30-Jan-14 12-Feb-14 12-Feb-14 05-Mar-14	24 35 35 103 138 67 27 67 27 27 27 27 27 27 32 0 0 0 0 0
TWSRW-4090 TWSRW-4090A Ar-Grade Roadw TWSRW-4090 Ar-Grade Roadw TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6020 TWSRW-6020	Permanet Prestressing Remove Sarlbö System Cast In-stut Sittch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumiture for Footpath and Carriageway Servecen CH375 and CH520 Retaining Structures Implementation of TA- Scheme W2 Construction of Borde Pile Wall (2 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Excausion for Lagging Wall Construction Stope Work Ind. 5 son. Sol Nall Rif C3SW-CD698 & SSW-D/C29 Lagging Wall Construction Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NB2 - Footing adjacent to Realigned TWSR West (66m) ension of Lessing Stream Excavation and Sub-base Bay 1 - Base Stab Bay 1 - Wall and Top Slab Bay 2 - Haal and Top Slab Pay 2 - Wall and Top Slab Pa	18 45 120 330 45 100 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 30 90 20 45 120 20 20 20 20 20 20 20 20 20 20 20 20 2	04-Fab-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun	03.Mar-15 29.Apr-15 21.Sep-15 10-Dec-15 30-Jul-14 06.Jan-15 17.Jan-15 12-Dec-15 22.Jun-15 12-Dec-15 24.Sep-15 30.Jan-14 12.Feb-14 05.Mar-14 22.Mar-14	24 35 35 27 27 27 103 138 67 27 27 27 32 0 0 0 0 0 0 0 0 0 0 0 0 190
TWSRW-4090 TWSRW-4090B AI-Grade Roadu WSRW-4090 AI-Grade Roadu TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6030	Permanet Prestressing Remove Sandbod System Cast In value System Cast In value System Cast Prapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Permeent CH376 and CH520 Retaining Structures Implementation of TNA- Scheme W2 Construction of Border Pile Wall (22 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Derder Pile Wall at Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Exeavation for Lagging Wall Construction Stope Work Ind. 53 nos. Soil Nail for 3SW-C/C289 & 3SW-D/C29 Lagging Wall Construction Noise Barrier NE2 Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NE2 Probursion of Existing Stream Exavation and Sub-base Bay 1 - Base Sub Bay 2 - Base Sub Bay 2 - Base Sub Bay 2 - Wall and Top Slab Bay 2 - Base Sub Bay 2 - Base Sub	18 45 120 0 330 45 100 20 30 90 20 30 90 120 120 145 80 4 5 14 14 22 22 22 22 0 0	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 27-Jan-14 27-Mar-14 11-Dec-14 07-Jan-15 19-Jan-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-16 23-Jun-16 23-Jun-16 23-Jun-16 23-Jun-16 23-Jun-17 23-Jun-16 23-Jun	03.Mar-15 29.Apr-15 21.Sep-15 10.Dec-14 26.Mar-15 17.Jan-15 12.Oec-15 24.Sep-15 12.Oec-15 24.Sep-15 30.Jan-14 25.Feb-14 05.Mar-14 25.Fab-14 25.Mar-14 20.Fab-14	24 35 27 27 27 103 138 67 67 27 27 27 27 27 27 27 27 0 0 0 0 0 0 0
TWSRW-4090 TWSRW-4090B AF-Grade Road/ TWSRW-4090B AF-Grade Road/ TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-6020 TWSRW-6020 TWSRW-6020 TWSRW-6050	Permanet Prestressing Remove Sardböt System Cast In-stut Sittch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumiture for Footpath and Carriageway between CH376 and CH520 Retaining Structures Implementation of TA-Scheme W2 Construction of Boord Pile Wall (2 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Mass Concrete Wall (FLRW4) Excastion for Lagging Wall Construction Stope Work Ind. 5 son. Sol Nal Rel OSW-COS98 & SSW-D/C29 Lagging Wall Construction Stope Wark Ind. 5 son. Son Val Rel To SW-COS98 & SW-D/C29 Lagging Wall Construction Stope Wark Ind. 5 son. Son Val Rel To SW-COS98 & SW-D/C29 Lagging Wall Construction Stope Wark Ind. 5 son. Son Val Rel To SW-COS98 & SW-D/C29 Lagging Wall Construction Road Formation. Read Drainage, Kerb, Planter and Pavement Noise Barrier IN2 - Footing adjacent to Realigned TWSR West (66m) Stopework Int Lagging Wall Construction Road Formation and Sub-base Bay 1 - Base Slab Bay 2 - Base Slab Bay 1 - Wall and Top Slab Read Intop Slab Read Intop Slab	18 45 120 0 330 45 100 20 30 90 120 30 90 120 4 4 5 14 4 5 14 14 22 22 20 0 0 0	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 10-Feb-15 23-Jun-16 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-14 27-Jun-14 27-Jun-14 25-Feb-14 10-Feb	03-Mar-15 29-Apr-15 21-Sep-15 26-Mar-14 30-Jul-14 06-Jan-15 22-Jun-15 22-Jun-15 22-Jun-15 22-Jun-15 30-Jan-14 12-Feb-14 22-Feb-14 22-Feb-14 22-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14	24 35 27 27 27 103 138 67 27 27 27 27 32 0 0 0 0 0 0 0 0 0 0 0 88 0 0 0 1900 188
TWSRW-4090 TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4000 TWSRW-4000 TWSRW-4000 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6020 Construction of TWSRW-6020 TWSRW-6020	Permanet Prestressing Remove Sandbod System Cast Is rapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Retaining Structures Inglementation of TA-Scheme W2 Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall at Portion FH8 Construction of Dorde Pile Wall at Portion FH8 Construction of Dorde Pile Wall at Portion FH8 Construction of Darse Jie Wall (FLRWA) Exeavation for Langging Wall Construction Stope Work Ind. 53 nos. Sol Nall for 3SW-C/Ca98 & 3SW-D/C29 Lagging Wall Construction Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NE2 - Footing adjacent to Realigned TWsR West (66m) Exeavation and Sub-base Bay 10: Base Sibu Bay 1 - Base Sibu Bay 1 - Base Sibu Bay 2	18 45 120 0 330 45 100 20 30 90 20 30 90 120 120 145 80 4 5 14 14 22 22 22 22 0 0	04-Fab-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun	03.Mar-15 29.Apr-15 21.Sep-15 10.Dec-14 26.Mar-15 17.Jan-15 12.Oec-15 24.Sep-15 12.Oec-15 24.Sep-15 30.Jan-14 25.Feb-14 05.Mar-14 25.Fab-14 25.Mar-14 20.Fab-14	24 35 27 27 27 103 138 67 67 27 27 27 27 27 27 27 27 0 0 0 0 0 0 0
TWSRW-4090 TWSRW-4090B AI-Grade Road/ TWSRW-4090B AI-Grade Road/ TWSRW-4090 TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6020	Permanet Prestressing Remove Sardio System Cast In-situ Sitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Retaining Structures Implementation of TA- Sobeme W2 Construction of Dorde Pile Wall (2 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Dorde Pile Wall (2 no. Piles) and Capping Beam Construction of Mose Gorder Pile Wall at Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Excandition for Lagging Wall Construction Stope Work Ind. 3 on. sols Nal Parl or SNH-0/C288 & SSW-D/C28 Lagging Wall Construction Noise Barrier NE2 - Footing adjoent to SSW-0/C288 & SSW-D/C28 Lagging Wall Construction Noise Barrier NE2 - Footing adjoent to Realigned TWSR West (66m) Devestion of Lissing Stream Excavation and Sub-base Bay 1 - Base Slab Bay 1 - Base Slab Bay 1 - Sase Slab Bay 2 - Wall and Top Slab Retaining Structures Preparation works for imglementation of TMS Scheme W4 Implement TA Scheme W4 to divert existing TWSRW for laying of DN2200 water main Diversion of DN220	18 45 120 0 330 45 100 20 30 90 120 30 90 120 4 4 5 14 4 5 14 14 22 22 20 0 0 0	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 10-Feb-15 23-Jun-16 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-15 23-Jun-14 27-Jun-14 27-Jun-14 25-Feb-14 10-Feb	03.Mar-15 29.Apr-15 21.Sep-15 26.Mar-14 26.Mar-14 30.Jul-14 06.Jan-15 22.Jun-15 12.Dec-15 22.Jun-15 12.Dec-15 24.Sep-15 30.Jan-14 12.Feb-14 25.Feb-14 25.Feb-14 31.Mar-14 20.Apr-14 02.Aug-14 19.Sep-14	24 35 27 27 27 103 138 67 27 27 27 27 32 0 0 0 0 0 0 0 0 0 0 0 88 0 0 0 1900 188
TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4000 TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6025 TWSRW-6055 TWSRW-6055	Permanet Prestressing Remove Sandbod System Cast Is rapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Retaining Structures Inglementation of TA-Scheme W2 Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall (22 no. Piles) and Capping Beam Construction of Dorde Pile Wall at Portion FH8 Construction of Dorde Pile Wall at Portion FH8 Construction of Dorde Pile Wall at Portion FH8 Construction of Darse Jie Wall (FLRWA) Exeavation for Langging Wall Construction Stope Work Ind. 53 nos. Sol Nall for 3SW-C/Ca98 & 3SW-D/C29 Lagging Wall Construction Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NE2 - Footing adjacent to Realigned TWsR West (66m) Exeavation and Sub-base Bay 10: Base Sibu Bay 1 - Base Sibu Bay 1 - Base Sibu Bay 2	18 45 120 0 330 20 30 90 120 145 80 90 120 145 80 90 120 90 120 90 90 90 90 90 90 90 90 90 90 90 90 90	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 123-Jun-15 23-Jun-14 0-Feb-14 10-Feb	03-Mar-15 29-Apr-15 21-Sep-15 26-Mar-14 30-Jul-14 06-Jan-15 22-Jun-15 22-Jun-15 22-Jun-15 22-Jun-15 30-Jan-14 12-Feb-14 22-Feb-14 22-Feb-14 22-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14 23-Feb-14	24 35 27 27 27 103 103 138 67 27 27 27 27 27 27 32 0 0 0 0 0 0 0 0 0 0 190 190 188 155
TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A At-Grade Roadu TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6050 TWSRW-6055 TWSRW-6055 TWSRW-6000	Permanet Prestressing Remove Sadfok System Cast Israpet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Setween CH175 and CH520 Retaining Structures Implementation of TTA- Scheme W2 Construction of Borde Pile Wall (22 no. Piles) and Capping Beam Class Daropet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Setweener CH175 and CH520 Retaining Structures Implementation of TTA- Scheme W2 Construction of Borde Pile Wall at CP10in FH8 Construction of Dered Pile Wall at Portion FH8 Construction of Dered Pile Wall at Portion FH8 Construction of Dered Pile Wall at Portion FH8 Construction of Mass Concrete Wall (FL/RW4) Exeavation for Lagging Wall Construction Stope Work Ind. 53 nos. Sol Nail for SSW-CIC288 & SSW-DIC29 Lagging Wall Construction Noise Barrier NB2 - Footing adjoent to Realigned TWSR West (86m) Exeavation and Sub-base Exeavation and Sub-base Bay 1- Base Slab Bay 1- Base Slab Bay 1- Base Slab Bay 1- Wall and Top Slab Bay 2- Case Slab Preparation works for implementation of TTA Scheme W4 P	18 45 120 0 330 20 30 90 120 20 30 90 120 145 80 4 4 5 14 14 14 22 220 0 0 0 40 45	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-15 23-Jun-15 27-Jun-14 26-Feb-14 26-Feb-14 27-Jun-14 27-Jun-14 27-Jun-15 27-Jun-15 27-Jun-15 27-Jun-15 27-Jun-15 27-Jun-15 27-Jun-15 27-Jun-15 27-Jun-15 27-Jun-14 28-Feb	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 28-Mar-14 30-Juh-14 06-Jan-15 12-Dec-15 22-Juh-15 12-Dec-15 22-Juh-15 12-Dec-15 24-Sep-15 30-Jan-14 12-Feb-14 05-Mar-14 23-Mar-14 20-Apr-14 12-Sep-14 13-Sep-14	24 35 27 103 138 67 27 67 27 67 27 27 32 0 0 0 0 0 0 0 0 888 0 190 190 188 185
TWSRW-4090 TWSRW-4090B MVSRW-4090B At-Grade Roadu TWSRW-4090B At-Grade Roadu WSRW-4090 MVSRW-4090B At-Grade Roadu TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5050 TWSRW-5010 TWSRW-6020	Permanet Prestressing Remove Sardböt System Cast hr-sbu Sitch Joht Cast hr-sbu Sitch Joht Cast hr-sbu Sitch Joht Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Fetening Treatment Fetening CH376 and CH520 Retaining Structures Implementation of TA- Scheme W2 Construction of Borde Pile Wall (Z no. Piles) and Capping Beam Construction of Dero Pile Wall at Z no. Piles) and Capping Beam Construction of Dero Pile Wall at Z no. Piles) and Capping Beam Construction of Dero Pile Wall at Z no. Piles) and Capping Beam Construction of Dero Pile Wall at Z no. Piles) and Capping Beam Construction of Dero Pile Wall at C norbito. Pile Construction of Dero Pile Wall at Porlion FH8 Construction of Dero Pile Wall at Porlion FH8 Construction of Mass Concrete Wall (FL/RW4) Exeavation and Sugging Wall Construction Noise Barrier NE2 Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NE2 Forbur Dationer to K Radigment VISR West (66m) Deterston of Edsting Stream Exeavation and Stub-base Bay 1 - Baae Slab	18 45 120 0 330 45 100 20 0 0 120 145 80 4 5 14 4 5 14 4 5 14 4 5 14 4 5 14 4 5 14 4 5 14 5 14 5 14 5 14 5 120 120 120 120 120 120 120 120 120 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun-16 23-Jun	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 28-Mar-14 30-Juh-14 06-Jan-15 12-Dec-15 22-Juh-15 12-Dec-15 22-Juh-15 12-Dec-15 24-Sep-15 30-Jan-14 12-Feb-14 05-Mar-14 23-Jan-14 20-Apr-14 20-Apr-14 13-Sep-14	24 35 27 27 27 103 138 67 67 27 27 27 32 0 0 0 0 0 0 0 88 0 0 0 190 190 195 155
TWSRW-4090 TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-5010 TWSRW-6010 TWSRW-6020 TWSRW-6020 TWSRW-6020 TWSRW-6020 TWSRW-6020 At-Grade Roadu TWSRW-6020	Permanet Prestressing Remove Sachdox System Cast In-sub Sitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Furniture for Footpath and Caritageway between CH176 and CH620 Retaining Structures Implementation of TTA - Scheme W2 Construction of Border File Wall (22 nr. Piles) and Capping Beam Construction of Border File Wall (22 nr. Piles) and Capping Beam Construction of Border File Wall (21 Portion FH8 Construction of Border File Wall et Portion FH8 Construction of Derder File Wall et Portion FH8 Construction of Mass Concrete Wall (FLRW4) Exeavation for Lagging Wall Construction Stope Work Ind. 53 nos. Sol Nall for SSW-C/C888 & SSW-D/C29 Lagging Wall Construction Road Formation. Road Drainage, Kerb, Planter and Pavement Noise Barrier NB2 - Footing adjacent to Realigned TWSR West (66m) Barter SB3 Bay 1- Base Slab Bay 1- Base Slab Bay 1- Base Slab Bay 1- Wall and Top Slab Bay 2- Case Slab Implement TTA Scher	18 18 120 0 330 45 100 20 30 90 0 145 45 145 22 20 0 0 0 45 145 120 120 120 120 120 120 120 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 27-Jan-14 26-Feb-14 21-Apr-14 21-Apr-14 22-Jun-15 21-Jun	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 28-Mar-14 30-Juh-14 30-Juh-15 17-Jan-15 12-Juh-15 22-Juh-15 12-Dec-15 22-Juh-15 12-Dec-15 22-Juh-15 23-Juh-14 12-Feb-14 25-Feb-14 25-Feb-14 25-Feb-14 13-Nov-14 13-Nov-14	24 35 27 103 138 67 27 67 27 27 27 27 27 27 27 27 27 27 32 0 0 0 0 0 0 0 0 0 0 190 190 195 155 155
TWSRW-4090 TWSRW-4090B AI-Grade Roadu WSRW-4090 AI-Grade Roadu TWSRW-4000 TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-5020 TWSRW-6010 TWSRW-6010 TWSRW-6020 TWSRW-7020 TWSRW-700 TWSR	Permanet Prestressing Remove Sardböt System Cast In salu Sitch Joht Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Retaining Structures Implementation of TA- Scheme W2 Construction of Borde Pile Wall (Z no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Borde Pile Wall (Z no. Piles) and Capping Beam Construction of Dero Pile Wall at Portion FH8 Construction of Dass Concrete Wall (FL/RW4) Exeavation for Lagging Wall Construction Noise Barrien NE4 Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrien NE4 Fortow Date Schare ME4 Fortow Date Schare ME4 Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrien NE4 Fortow Date Schare ME4 Bay 1 - Wall and Top Slab Bay 2 - Base Slab Bay 2 - Base Slab Bay 2 - Wall and Top Slab	18 45 120 0 330 45 100 20 0 0 120 145 80 4 5 14 4 5 14 4 5 14 4 5 14 4 5 14 4 5 14 4 5 14 5 14 5 14 5 14 5 120 120 120 120 120 120 120 120 120 120	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 07-Feb-14 10-Feb-14 23-Jun-15 23-Jun-16 23-Jun-16 23-Jun-17 10-Feb-14 10-Feb-14 10-Feb-14 10-Feb-14 10-Feb-14 27-Jun-14 0-Fab-14 10-Feb-14 27-Jun-14 0-Fab-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 27-Jun-14 23-Jun-15 23-Jun-14 23-Jun-1	03.Mar-15 29.Apr-15 21.Sep-15 10.Dec-14 26.Mar-15 17.Jan-15 12.Dec-15 24.Sep-15 12.Dec-15 24.Sep-15 30.Jan-14 12.Feb-14 25.Feb-14 05.Mar-14 22.Mar-14 20.Apr-14 13.Nov-14 13.Nov-14	24 35 27 27 27 103 138 67 67 27 27 27 32 0 0 0 0 0 0 0 88 0 0 0 190 190 195 155
TWSRW-4080 TWSRW-4090B AI-Grade Roadu TWSRW-4090B AI-Grade Roadu TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6020 TWSRW-6020 TWSRW-6030 TWSRW-6030 TWSRW-6040 TWSRW-6057 T	Permanet Prestressing Remove Sarbid System Cast In-situ Sitch Joint Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumiture for Footpath and Carriageway Retaining Structures Implementation of TAs-Scheme W2 Construction of Boord Pile Wall (21 co. Piles) and Capping Beam Construction of Boord Pile Wall (21 co. Piles) and Capping Beam Construction of Boord Pile Wall (21 co. Piles) and Capping Beam Construction of Mass Concrete Wall (FLRW4) Excaudion for Lagging Wall Construction Stope Work Ind. 53 on. Soil Nall Bord SW-C/C898 & SW-D/C29 Lagging Wall Construction Noise Barlier NS 53 on. Soil Nall Bord SW-C/C898 & SW-D/C29 Lagging Wall Construction Noise Barlier NS 53 on. Soil Nall Bord SW-C/C898 & SW-D/C29 Lagging Wall Construction Noise Barlier NS 54 on CSW-C/C898 & SW-D/C29 Lagging Wall Construction Noise Barlier NS 54 on CSW-C Permation Read Drainage, Kerb, Planter and Pavement Noise Barlier NS 54 on CH530 Pay 1-Base Slab Bay 1 - Base Slab Bay 1 - Saase Slab Bay 1 - Saase Slab Bay 1 - Wall and Top Slab Retaining Structu	18 45 120 0 330 45 100 20 20 20 20 120 145 80 4 5 14 4 5 14 14 22 22 20 0 0 40 45 45 5 145 80 80 80	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 27-Jan-14 26-Feb-14 21-Apr-14 21-Apr-14 22-Jun-15 21-Jun	03-Mar-15 29-Apr-15 29-Apr-15 21-Sep-15 10-Dec-14 29-Mar-14 29-Mar-14 29-Mar-14 20-Mar-14 20-Mar-15 22-Jun-15 04-May-15 22-Jun-15 22-Jun-15 22-Jun-15 22-Jun-15 22-Jun-15 22-Jun-15 22-Jun-15 23-Jun-14 12-Dec-15 23-Mar-14 20-Apr-14 13-Nov	24 35 27 27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
TWSRW-4090 TWSRW-4090B At-Grade Road/ TWSRW-4090B At-Grade Road/ TWSRW-4090 TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6020 TWSRW-7020 TWSRW-7020 TWSRW-7020	Permanet Prestressing Remove Sandbod System Cast Iv situ Sitch John Cast Prapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Retaining Structures Implementation of TA-Scheme W2 Construction of Borde File Wall (Z no. Piles) and Capping Beam Lialsoning period for removal of grave at Portion FH8 Construction of Dorde File Wall (Z no. Piles) and Capping Beam Construction of Dorde File Wall (A Portion FH8 Construction of Dorde File Wall at Portion FH8 Construction of Darse Jile Wall at Portion FH8 Construction of Darse Jile Wall (FLRW4) Exavation for Langging Wall Construction Stope Work Ind. 53 nos. Sol Nall for 3SW-C/C289 & 3SW-D/C29 Lagging Wall Construction Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barter INS Sub-Base Evavation and Sub-Base Bay 1- Base Sibh Bay 1- Base Sibh Bay 1- Wall and Top Slab Bay 1- Wall and Top Slab Retaining Structures	18 45 120 0 330 45 100 20 30 90 90 90 90 90 90 90 90 90 90 90 90 90	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 27-Jan-15 19-Jan-15 19-Jan-15 23-Jun-15 27-Jan-14 27-Jan	03.Mar-15 29.Apr-15 21.Sep-15 10.Dec-14 26.Mar-15 17.Jan-15 12.Dec-15 24.Sep-15 12.Dec-15 24.Sep-15 30.Jan-14 12.Feb-14 25.Feb-14 05.Mar-14 22.Mar-14 20.Apr-14 13.Nov-14 13.Nov-14	24 35 35 27 27 27 103 138 67 27 27 27 32 0 0 0 0 0 0 0 0 0 0 0 0 0 88 0 0 190 190 195 155 155
TWSRW-4090 TWSRW-4090A TWSRW-4090A TWSRW-4090A TWSRW-4090 TWSRW-400 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-7010 TWSRW-7010	Permanet Prestressing Remove Sandbö System Cast Iv sku Sitch Joht Cast Iv sku Sitch Joht Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Permeent CH376 and CH520 Retaining Structures Implementation of TNA- Scheme W2 Construction of Borde Pile Wall (2 no. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Dered Pile Wall at Portion FH8 Construction of Dere Pile Wall at Portion FH8 Construction of Deression Sol Nall for 3SW-C/C288 & 3SW-D/C29 Lagging Wall Construction Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barter NS bub-base Bay 1 - Wall and Top Slab Bay 1 - Wall and Top Slab Bay 1 - Wall and Top Slab Bay 2 - Base Slab <td>18 45 120 330 45 100 20 100 20 100 20 120 145 45 45 45 45 45 45 45 0 0 0 0 0 0 0 0</td> <td>04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun</td> <td>03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 28-Mar-14 30-Juh-14 06-Jan-15 12-Dec-15 22-Juh-15 12-Dec-15 22-Juh-15 12-Dec-15 22-Juh-15 12-Dec-15 23-Jan-14 12-Feb-14 05-Mar-14 20-Apr-14 13-Sep-14 13-Sep-14 13-Sep-14</td> <td>24 35 35 27 27 27 27 32 32 36 67 27 67 27 27 27 27 27 32 32 32 0 0 0 0 0 0 0 0 0 190 190 198 188 155 155 155 155 154</td>	18 45 120 330 45 100 20 100 20 100 20 120 145 45 45 45 45 45 45 45 0 0 0 0 0 0 0 0	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun	03-Mar-15 29-Apr-15 21-Sep-15 10-Dec-14 28-Mar-14 30-Juh-14 06-Jan-15 12-Dec-15 22-Juh-15 12-Dec-15 22-Juh-15 12-Dec-15 22-Juh-15 12-Dec-15 23-Jan-14 12-Feb-14 05-Mar-14 20-Apr-14 13-Sep-14 13-Sep-14 13-Sep-14	24 35 35 27 27 27 27 32 32 36 67 27 67 27 27 27 27 27 32 32 32 0 0 0 0 0 0 0 0 0 190 190 198 188 155 155 155 155 154
TWSRW-4090 TWSRW-4090B AL-Grade Roadu TWSRW-4090B AL-Grade Roadu TWSRW-4090 TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6020 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6020 TWSRW-7020 TWSRW-7020 TWSRW-7020 TWSRW-7020 TWSRW-7020 TWSRW-7020 TWSRW-7020	Permanet Prestressing Remove Sardböt System Cast hr-sku Sitch Joht Cast hr-sku Sitch Joht Cast Parapet, Erection of Noise Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Detween CH376 and CH520 Retaining Structures Implementation of TA- Scheme W2 Construction of Dore Pile Wall (2 no. Piles) and Capping Beam Liaisoning period for removal of grave at Partion FH8 Construction of Mass Concrete Wall (FL/RW4) Exavation for Lagging Wall Construction Stape Wark Ind. S nos. Sol Nal Iar SSW-CIC689 & SSW-DIC29 Lagging Wall Construction Noise Barrier NE2 - Footing adgenet To FR8 Road Formation, Road Drainage, Kerb, Planter and Pavement Noise Barrier NE2 - Footing adgenet To Realigned TWSR West (66m) Derevision of Existing Stream Excavation and Sub-base Bay 1 - Base Slab Bay 1 - Base Slab Bay 1 - Wall and Top Slab Retaining Structures Retaining Structures Retaining Structures Preparation works for implementation of TAS Scheme W4 Implement TAS Scheme W4 to diving WSRW for Javign of DN2200 water main Derevenet CH553 and CH560 Re	18 45 120 330 45 100 20 90 90 120 145 80 4 5 14 14 14 22 20 0 0 40 45 45 45 45 90 90 90 90 90 90 90 90 90 90 90 90 90	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun-14 0-Feb-14 25-Aug-14 25-Aug-14 25-Aug-14 25-Aug-14 25-Aug-14	03-Mar-15 29-Apr-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 26-Mar-14 20-Mar-15 22-Jun-15 12-Dec-15 22-Jun-15 12-Dec-15 22-Jun-15 12-Dec-15 23-Jun-14 12-Feb-14 25-Feb-14 13-Nov	24 35 35 27 27 27 27 32 67 67 77 27 27 27 27 27 27 27 32 0 0 0 0 0 0 0 0 88 0 0 0 0 88 0 0 1900 1920 1950 1950 1950 1950 1950 1950 1950 195
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TWSRW-4090 TWSRW-4090B AL-Grade Roadu WSRW-4090B AL-Grade Roadu TWSRW-4090 TWSRW-4000 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-5010 TWSRW-6010 TWSRW-6010 TWSRW-6010 TWSRW-6020 TWSRW-6020 TWSRW-6010 TWSRW-6020 TWSRW-7110 TWSRW-7110 TWSRW-7110 TWSRW-7110	Permanet Prestressing Remove Sardböt System Cast hr-sbu Sitch Joht Cast hr-sbu Sitch Joht Cast Parapet, Erection of Nolse Barrier, Lay Surfacing and Road Fumture for Footpath and Carriageway Setement CH376 and CH520 Retaining Structures Implementation of TNA - Scheme W2 Construction of Borde Pile Wall (Zan. Piles) and Capping Beam Liaisoning period for removal of grave at Portion FH8 Construction of Borde Pile Wall at Can. Piles) and Capping Beam Construction of Derde Pile Wall at Portion FH8 Construction of Borde Pile Wall at Portion FH8 Construction of Mass Concrute Wall (FL/RW4) Exeavation for Lagging Wall Construction Stope Work ind. S3 nos. Soil Nal for SSW-CiC6898 & SSW-DiC29 Lagging Wall Construction Noise Bartien FNE - Footing adjacent to Realigned TWSR West (66m) Determent Hessing Stream Exeavation and Sub-base Bay 1 - Base Sab Bay 2 - Base Sab Bay 2 - Wall and Top Slab Retaining Structures Retaining Structures Retaining Structure exeation Works Retaining Structure exeation Works (Retaining Wall (FL/RW2) Retaining Structure ex	18 45 120 330 45 100 20 90 90 120 145 80 4 5 14 14 14 22 20 0 0 40 45 45 45 45 90 90 90 90 90 90 90 90 90 90 90 90 90	04-Feb-15 04-Mar-15 30-Apr-15 29-Oct-13 29-Oct-13 27-Jan-14 27-Jan-14 27-Jan-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 11-Dec-14 23-Jun-15 23-Jun-14 0-Feb-14 25-Aug-14 25-Aug-14 25-Aug-14 25-Aug-14 25-Aug-14	03-Mar-15 29-Apr-15 29-Apr-15 21-Sep-15 10-Dec-14 26-Mar-14 26-Mar-14 20-Mar-15 22-Jun-15 12-Dec-15 22-Jun-15 12-Dec-15 22-Jun-15 12-Dec-15 23-Jun-14 12-Feb-14 25-Feb-14 13-Nov	24 35 35 27 27 27 27 32 67 67 77 27 27 27 27 27 27 27 32 0 0 0 0 0 0 0 0 88 0 0 0 0 88 0 0 1900 1920 1950 1950 1950 1950 1950 1950 1950 195
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後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.



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

Works Sequence for TWSRW

__Page 1 of 1_____

CEDD Contract No. CV/2012/09

CWP004-1____

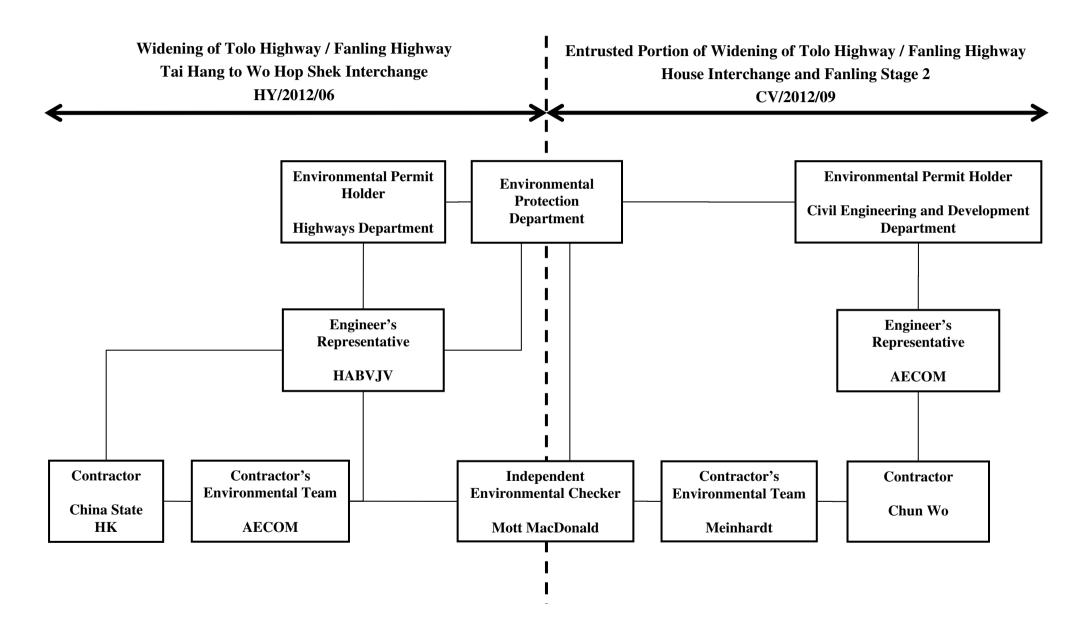
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age, Kerb,	Planter and Paver	nent									
ation.of Ca	ble Ducts for Utilitie Road For	es Diversion.	Works		- Di						
	Road For	mation, Roa	u Draina	ige, Ker	D, Planter and	Pavemen	1ť				
L,	-					 .	Utilities	Connection V	Vorks at Ext. T	WSR West	
Barrier NE	34 (105m)										
t Papel - N	loise.Barrier.NB1a	(31m)									
	·••		Installatio	on of Ste	elwork & Tran	sparent Pa	anel - N allation	of Steelwork	NB1b (54m) & Transporent	Panel No	ise Barrier NB2 (7
						insta	unduON	or oreerwork		- aner - NO	DBITEL NB2 (7
									<i>c</i> :		
		ate			Re	evision	1		Chec	ked	Approved
	11-Sep-13	3							SL		



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	• Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During Construction	Contractor	✓
	• All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.			\checkmark
	• Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.			\checkmark
	• All spraying of materials and surfaces shall avoid excessive water usage.			\checkmark
	• Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.			×
	 Materials shall be dampened, if necessary, before transportation. 			\checkmark
	• Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.			\checkmark
	• Vehicle washing facilities shall be provided to minimise the quantity of material deposited on public roads.			Obs
Air Quality during Operation	Not required	N/A	N/A	N/A
Noise		•		
Noise during Construction	• Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During Construction	Contractor	\checkmark
	 Reduce the number of equipment and their percentage on-time. 			\checkmark
Noise during Operation	Not required	N/A	N/A	N/A
Water Quality				
Water Quality during	Road Widening Works, Earthworks and Culvert Extension Works	During Construction	Contractor	Obs
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.			



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.			Rem
	• 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.			Rem and Obs
	• 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. 			\checkmark
	• 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.			Obs
Water Quality during Operation	Not required	N/A	N/A	N/A
Waste Management			-	
Waste Management during Construction	<u>General Waste</u> • Transport of wastes off site as soon as possible.	During Construction	Contractor	\checkmark
	 Maintenance of accurate waste records. 			\checkmark
	• Minimisation of waste generation for disposal (via reduction/recycling/re-use).			\checkmark
	 No on-site burning will be permitted. 			\checkmark
	 Use of re-useable metal hoardings/signboards. 			\checkmark
	Vegetation from site clearance	During Construction	Contractor	\checkmark
	 Segregation of materials to facilitate disposal. 			
	• Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.			V



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	Demolition Wastes	During Construction	Contractor	✓
	 Segregation of materials to facilitate disposal. 			
	Appropriate stockpile management.			\checkmark
	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	N/A
	 Bentonite slurries should be reused as far as possible. 			
	• Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.			N/A
	Chemical Wastes	During Construction	Contractor	Rem
	 Storage within locked, covered and bunded area. 			
	• The storage area shall not be located adjacent to sensitive receivers e.g. drains.			✓

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



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	Minimise waste production and recycle oils/solvents where possible.			\checkmark
	• A spill response procedure shall be in place and absorption material available for minor spillages.			✓
	 Use appropriate and labelled containers. 			✓
	 Educate site workers on site cleanliness/waste management procedures. 			Rem
	• 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	\checkmark
	• 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.			*
	Dust generation	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; 			

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



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	• all temporary site access roads shall be sprayed with water to suppress dust as necessary;			V
	• all dusty materials should be sprayed with water immediately prior to any handling; and			~
	• all debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.			\checkmark
	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 			\checkmark
	• Maximise vegetation retention on-site to maximise absorption (minimise transport).			×
Ecology during Operation	• To conduct compensatory ecological planting as specified in the latest landscape plans approved by EPD (Clause 2.6 of the Environmental Permit refers).	During Construction and operation	Contractor (during construction) / LCSD* (during operation)	N/A
			(Note: * The division of vegetation planting and maintenance responsibilities shall	
			follow the guidelines stipulated in ETWB TCW No. 2/2004.)	
Landscape and Visual		1	,	
Landscape and Visual during Construction	Preservation of Existing Vegetation	During Construction	Contractor	\checkmark
Construction	• 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			\checkmark

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



Impact	Environmental Protection Measures	Timing	Responsibility	Implementation Status [#]
	Temporary Works Areas • Where feasible the works areas would be screened using hoarding and	During Construction	Contractor	✓
	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.			
	Hoarding	During Construction	Contractor	\checkmark
	• 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	N/A
	• The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.			
	Protection of Important Landscape Features	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

Daily Extract of Meteorological Observations , May 2015 -Sheung Shui

	·	Y	ear 2015	Month	5 Go		r			
	Mean	Air 7 Absolute	Tempera	ature Absolute	Mean Dew	Mean Relative	Total	Prevailing Wind	Mean Wind	
Day	Pressure (hPa)	Daily Max (deg. C)	Mean (deg. C)	Daily Min (deg. C)	Point (deg. C)	Humidity (%)	Rainfall (mm)	Direction (degrees)	Speed (km/h)	
01	1009.8	30.6	27.6	25.4	22.9	76	0.0	* * *	***	
02	1009.1	29.7	27.6	25.8	23.6	79	0.0	* * *	* * *	
03	1009.2	32.9	28.8	26.1	24.4	78	0.0	***	***	
04	1009.5	33.6	29.0	26.4	24.2	76	0.0	* * *	***	
05	1008.5	30.9	27.4	24.6	23.6	80	0.0	***	* * *	
06	1008.1	29.9	27.0	24.4	23.7	83	1.5	* * *	* * *	
07	1009.3	31.8	27.5	24.8	24.8	86	2.5	* * *	* * *	
08	1008.3	31.7	28.2	25.3	24.0	79	0.0#	* * *	***	
09	1008.1	32.3	27.1	23.6	24.0	84	* * *	* * *	* * *	
10	1009.3	29.4	26.1	23.6	24.1	89	2.5#	* * *	***	
11	1010.1	30.5	25.7	22.9	23.7	89	35.0	* * *	* * *	
12	1012.1	31.5	26.2	21.5	20.0	71	0.0	* * *	***	
13	1011.8	29.3	26.6	24.6	22.9	81	0.0	* * *	* * *	
14	1011.7	33.3	27.8	24.1	23.4	79	0.5	* * *	***	
15	1011.0	33.4	28.9	25.0	23.9	76	0.0	* * *	* * *	
16	1009.8	28.6	25.8	23.6	24.4	92	7.0	* * *	* * *	
17	1007.8	30.1	25.6	23.7	24.1	92	9.5	* * *	* * *	
18	1007.4	30.2	27.8	24.7	25.0	85	1.0	* * *	***	
19	1006.5	30.8	28.0	26.6	26.0	89	4.5	* * *	* * *	
20	1006.1	30.7	26.7	24.6	25.7	94	57.0	* * *	***	
21	1007.8	26.4	24.6	23.4	22.6	89	3.5	* * *	* * *	
22	1008.3	24.4	23.6	22.9	21.8	90	3.0	* * *	* * *	
23	1005.9	25.3	24.3	23.7	24.0	98	89.0	* * *	* * *	
24	1005.6	29.7	25.8	23.8	24.9	95	5.0	* * *	* * *	
25	1006.2	34.4	28.3	24.7	25.2	85	13.0	* * *	***	
26	1007.8	28.3	26.4	25.3	25.6	96	17.0	* * *	* * *	
27	1006.4	33.0	29.0	26.1	26.3	86	0.5	* * *	***	
28	1004.6	34.4	30.4	27.5	26.1	79	0.0	* * *	* * *	
29	1005.9	33.8	30.7	28.3	26.2	77	0.0	* * *	***	
30	1007.0	34.6	29.8	24.8	25.7	80	13.0	* * *	* * *	
31	1006.9	32.4	28.1	25.3	25.8	88	0.0	***	***	

Year 2015 Month 5 Go

*** unavailable

data incomplete

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

Daily Extract of Meteorological Observations , June 2015 -Sheung Shui

		C.		CODE CONCERNING			-		r
Day	Mean Pressure (hPa)	Air J Absolute Daily Max (deg. C)	Tempera Mean (deg. C)	Absolute Daily Min (deg. C)	Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
01	1007.3	32.5	28.9	26.7	26.1	85	2.0	* * *	***
02	1008.7	34.1	29.9	27.0	25.3	77	0.5	* * *	* * *
03	1009.6	34.4	30.3	27.1	24.9	74	0.0	* * *	***
04	1008.4	33.9	29.8	26.3	24.9	76	0.0	* * *	* * *
05	1007.0	32.3	28.0	25.1	25.3	86	18.5	* * *	* * *
06	1007.3	33.4	28.7	24.8	25.3	83	0.0	* * *	* * *
07	1008.5	34.0	30.0	26.4	24.6	74	0.0	* * *	* * *
08	1007.6	34.2	30.2	26.8	25.2	75	0.0	* * *	***
09	1006.7	33.2	29.9	27.1	25.6	78	1.5	* * *	* * *
10	1006.8	33.5	29.3	26.8	26.3	85	14.0	* * *	***
11	1007.7	33.4	30.3	28.0	26.1	79	0.0	* * *	* * *
12	1008.0	33.3	29.7	27.3	25.7	80	0.0	* * *	***
13	1007.4	33.5	30.0	27.6	25.5	77	0.0	* * *	* * *
14	1007.9	33.8	29.7	26.8	25.0	77	0.0	* * *	* * *
15	1009.0	35.6	30.3	26.6	24.2	72	0.0	* * *	* * *
16	1007.8	35.0	30.1	26.0	24.7	74	0.0	***	* * *
17	1005.5	34.8	30.8	27.3	24.9	72	0.0	* * *	* * *
18	1004.9	35.9	31.1	27.3	25.2	72	0.0	* * *	***
19	1005.6	36.4	31.2	27.4	24.6	69	0.0	* * *	* * *
20	1006.1	35.1	30.5	26.9	25.2	74	0.0	* * *	***
21	1005.0	33.5	29.4	26.2	26.1	84	25.5	* * *	* * *
22	1003.1	30.6	28.1	26.2	26.3	90	20.0	* * *	***
23	1003.8	29.4	27.1	25.8	26.0	93	35.5	* * *	* * *
24	1005.0	31.5	28.0	25.9	26.0	89	7.5	* * *	***
25	1005.5	29.4	27.5	26.2	26.7	95	28.5	* * *	***
26	1005.7	33.9	29.2	26.3	25.9	84	7.0	* * *	* * *
27	1007.8	34.8	30.7	27.4	25.4	75	0.0	***	* * *
28	1009.0	35.0	30.7	27.3	25.3	75	0.0	* * *	* * *
29	1007.4	34.8	30.7	27.5	25.2	74	0.0	* * *	***
30	1005.4	34.6	30.8	28.5	25.8	75	0.0	* * *	* * *

Year 2015 Month 6 Go

*** unavailable

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

Daily Extract of Meteorological Observations , July 2015 -Sheung Shui

				Month Month	7 ▼ Go				
		Air	Гетрега	ture	Mean	Mean		Prevailing	Mean
Day	Mean Pressure (hPa)	Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)	Dew Point (deg. C)	Relative Humidity (%)	Total Rainfall (mm)	Wind Direction (degrees)	Wind Speed (km/h)
01	1003.5	34.7	31.3	29.1	26.0	74	0.0	***	***
02	1002.6	34.6	31.3	29.4	26.0	74	0.0	***	***
03	1002.2	34.7	31.3	28.8	26.0	74	0.0	***	***
04	1002.3	34.9	30.4	27.3	25.2	75	0.0	***	***
05	1002.7	35.0	30.2	26.8	25.6	77	0.0	***	***
06	1001.3	32.6	29.7	27.3	23.6	70	0.0	***	***
07	1000.6	33.2	29.4	26.3	21.8	64	0.0	***	***
08	1000.6	33.5	29.2	26.2	21.9	65	0.0	***	***
09	997.6	30.6	27.3	24.9	23.2	79	5.0	***	***
10	1000.1	32.9	28.6	25.3	25.2	83	6.5	***	***
11	999.9	36.3	30.7	26.6	25.9	77	0.0	***	***
12	1000.8	36.5	31.3	27.1	26.2	75	0.0	***	***
13	1001.9	35.0	30.6	27.5	26.8	81	0.0	***	***
14	1001.8	35.5	30.5	26.7	26.1	79	0.0	***	***
15	1000.8	35.3	29.9	26.9	26.3	82	2.0	***	***
16	1000.3	33.1	29.8	27.2	26.3	82	0.0	***	***
17	1001.3	32.7	28.1	25.2	26.1	90	69.5	***	***
18	1001.5	32.1	29.2	26.8	25.8	83	1.5	***	***
19	1001.1	34.1	30.0	26.7	24.7	75	0.0	***	***
20	1001.2	29.4	27.2	25.9	25.7	92	43.0	***	***
21	1006.1	27.6	26.4	25.3	24.4	89	21.5	***	***
22	1007.8	29.4	27.5	25.4	25.5	89	5.0	***	***
23	1007.5	29.5	27.5	24.6	25.6	90	31.5	***	***
24	1006.5	29.6	27.3	23.4	25.6	90	95.5	***	***
25	1006.2	31.1	28.4	26.0	25.3	84	7.0	***	***
26	1008.5	31.2	28.6	26.2	25.0	81	10.0	***	***
27	1011.0	32.3	28.3	25.1	25.0	84	6.5	***	***
28	1011.7	33.8	28.3	24.9	24.1	80	0.5	***	***
29	1011.2	31.6	26.5	24.8	24.7	91	10.0	***	***
30	1010.8	28.8	25.8	23.7	24.8	94	11.5	***	***
31	1010.7	33.5	27.5	22.8	23.5	81	0.0	***	***

Year 2015 V Month 7 Go

*** unavailable

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



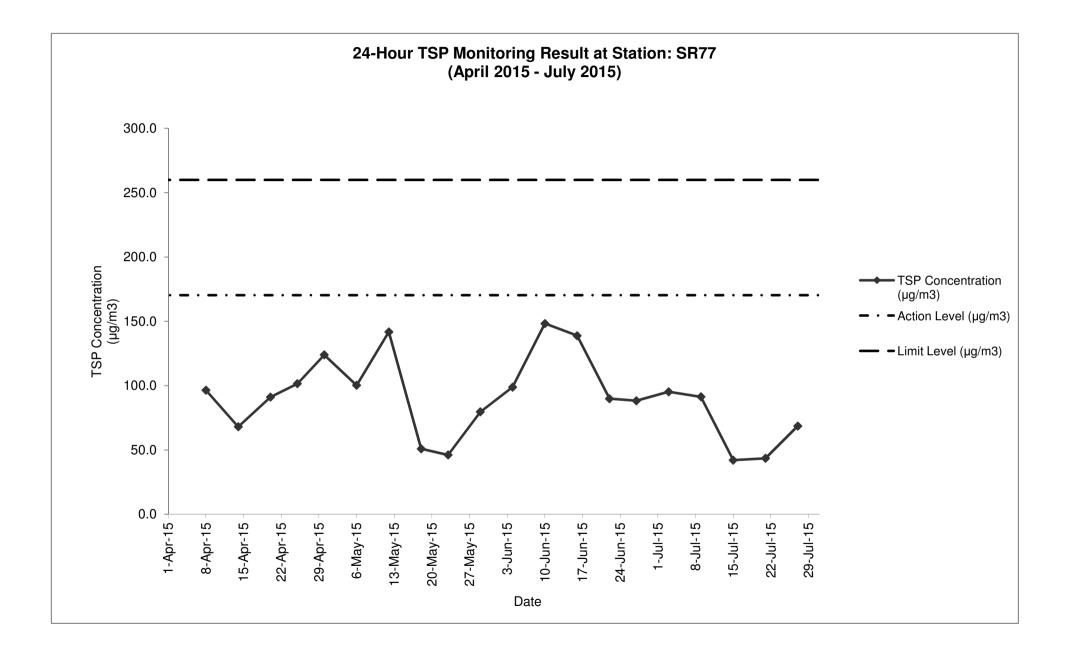
Appendix E Environmental Monitoring Data for Air and Noise

24-Hour TSP Monitoring Result at Station: SR77

Sampling Date	Sampling Weather Par Date Condition		w	/t. of pape	r (g)	E	lapse Tim	e	Flo	w Rate (C	FM)	Flov	v Rate (m ³	/min)	Total Volume	TSP Concentratio	Action Level (µ	Limit Level (µ	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)	g/m3)	g/m3)	m/s	uncetion
8-Apr-15	Rainy	B67	2.8111	3.0118	0.2007	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	96.5	170.3	260.0	<5	N
14-Apr-15	Fine	B59	2.8093	2.9508	0.1415	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.0	170.3	260.0	<5	N
20-Apr-15	Cloudy	B60	2.8015	2.9910	0.1895	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	91.1	170.3	260.0	<5	N
25-Apr-15	Fine	B62	2.8018	3.0129	0.2111	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	101.5	170.3	260.0	<5	N
30-Apr-15	Fine	B64	2.7936	3.0513	0.2577	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	123.9	170.3	260.0	<5	N
6-May-15	Fine	B82	2.8026	3.0111	0.2085	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	100.3	170.3	260.0	<5	N
12-May-15	Fine	B84	2.8111	3.1060	0.2949	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	141.8	170.3	260.0	<5	N
18-May-15	Rainy	B86	2.7942	2.9001	0.1059	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	50.9	170.3	260.0	<5	N
23-May-15	Rainy	B88	2.8311	2.9271	0.0960	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	46.2	170.3	260.0	<5	N
29-May-15	Fine	B90	2.8238	2.9894	0.1656	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	79.6	170.3	260.0	<5	N
4-Jun-15	Fine	B92	2.8016	3.0071	0.2055	3243.80	3267.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	98.8	170.3	260.0	<5	N
10-Jun-15	Fine	B94	2.7811	3.0894	0.3083	3270.80	3294.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	148.3	170.3	260.0	<5	N
16-Jun-15	Fine	B96	2.8004	3.0890	0.2886	3297.80	3321.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	138.8	170.3	260.0	<5	N
22-Jun-15	Rainy	B98	2.8211	3.0080	0.1869	3324.80	3348.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	89.9	170.3	260.0	<5	N
27-Jun-15	Fine	B100	2.8226	3.0061	0.1835	3351.80	3375.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	88.2	170.3	260.0	<5	N
3-Jul-15	Fine	B102	2.8212	3.0193	0.1981	3378.80	3402.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	95.3	170.3	260.0	<5	N
9-Jul-15	Rainy	B104	2.8164	3.0063	0.1899	3405.80	3429.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	91.3	170.3	260.0	<5	N
15-Jul-15	Sunny	B106	2.8206	2.9081	0.0875	3442.67	3466.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	42.1	170.3	260.0	<5	N
21-Jul-15	Rainy	B108	2.8131	2.9036	0.0905	3469.67	3493.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	43.5	170.3	260.0	<5	N
27-Jul-15	Sunny	C11	2.7974	2.9401	0.1427	3496.67	3520.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.6	170.3	260.0	<5	N

Summary For the Re (May 2015 - Jul 2015			
Average	88.2		
Minimum	42.1		
Maximum	148.3		

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



Appendix E

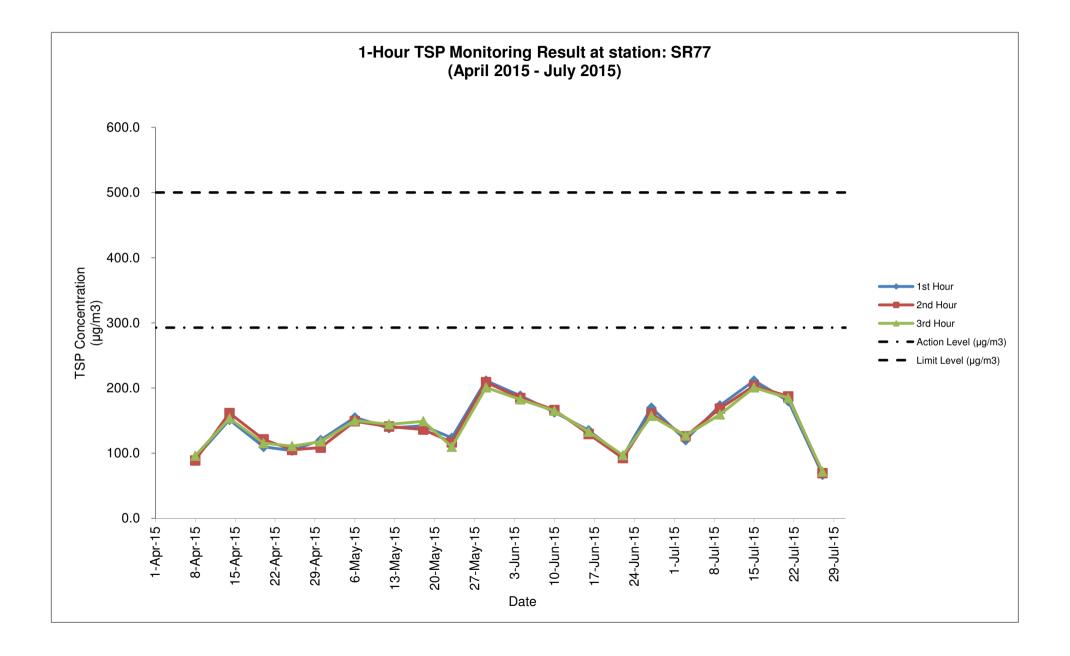
Air Quality Monitoring Results and their Graphical Presentation

	Weather	<u> </u>				Conc.(µg/m ³)	Action Level	Limit Level	
Date	Condition		Time		1 st Hour	2 nd Hour	3 rd Hour	(µg/m3)	(µg/m3)
8-Apr-15	Rainy	9:00	-	12:00	92.3	88.9	95.8	292.7	500.0
14-Apr-15	Fine	9:00	-	12:00	151.2	161.6	153.5	292.7	500.0
20-Apr-15	Cloudy	9:00	-	12:00	109.6	121.2	115.4	292.7	500.0
25-Apr-15	Fine	9:00	-	12:00	103.9	105.0	110.8	292.7	500.0
30-Apr-15	Fine	9:00	-	12:00	120.0	108.5	117.7	292.7	500.0
6-May-15	Fine	9:00	-	12:00	154.6	148.9	150.0	292.7	500.0
12-May-15	Fine	9:00	-	12:00	138.5	140.8	144.3	292.7	500.0
18-May-15	Rainy	9:00	-	12:00	142.0	136.2	148.9	292.7	500.0
23-May-15	Rainy	9:00	-	12:00	123.5	116.6	109.6	292.7	500.0
29-May-15	Fine	9:00	-	12:00	211.2	208.9	200.8	292.7	500.0
4-Jun-15	Fine	9:00	-	12:06	188.1	184.7	182.3	292.7	500.0
10-Jun-15	Fine	9:00	-	12:09	162.7	166.2	165.0	292.7	500.0
16-Jun-15	Fine	9:00	-	12:06	135.0	129.3	132.7	292.7	500.0
22-Jun-15	Rainy	9:00	-	12:07	94.6	92.3	96.9	292.7	500.0
27-Jun-15	Fine	9:00	-	12:07	169.6	160.4	157.0	292.7	500.0
3-Jul-15	Fine	9:00	-	12:06	120.0	125.8	126.9	292.7	500.0
9-Jul-15	Rainy	9:00	-	12:09	173.1	168.5	159.3	292.7	500.0
15-Jul-15	Sunny	9:00	-	12:06	211.2	203.1	200.8	292.7	500.0
21-Jul-15	Rainy	9:00	-	12:06	180.0	187.0	184.7	292.7	500.0
27-Jul-15	Sunny	9:00	-	12:09	66.9	69.2	71.6	292.7	500.0

1-Hour TSP Monitoring Result at Station: SR77

Summary For the Reporting Quarter (May 2015 - Jul 2015)						
Average	149.8					
Minimum 66.9						
Maximum	211.2					

Note: No major dust source observed during the monitoring period



Project Name: Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3 Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling - Stage 2

Noise Monitoring Result at SR77

Date	Weather	Start	End	Measure	ed Noise Level	(dB(A))*	Baseline Corrected	Baseline Noise Level	Limit Level	Exceedance
	Condition	Time	Time	L10(30min)	L90(30min)	Leq(30min)	Level, dB(A)**	(dB(A)), Leq(30min)	dB(A)	(Y / N)
2015/04/08	Rainy	16:30	17:00	76.0	60.5	70.5	-	67.8	75.0	Ν
2015/04/14	Fine	15:30	16:00	77.0	62.0	71.0	-	67.8	75.0	Ν
2015/04/20	Cloudy	11:00	11:30	77.5	65.0	72.0	-	67.8	75.0	N
2015/04/30	Fine	14:45	15:15	77.5	62.5	<u>76.5</u>	-	67.8	75.0	Y
2015/05/06	Fine	15:30	16:00	73.0	60.0	69.1	-	67.8	75.0	Ν
2015/05/07	Fine	14:30	15:00	73.5	62.5	71.4	-	67.8	75.0	Ν
2015/05/12	Fine	14:45	15:15	72.0	57.0	67.6	-	67.8	75.0	Ν
2015/05/19	Rainy	14:00	14:30	76.0	63.5	72.0	-	67.8	75.0	Ν
2015/05/29	Fine	14:30	15:00	76.5	64.0	71.0	-	67.8	75.0	Ν
2015/06/04	Fine	13:30	14:00	75.5	59.5	71.5	-	67.8	75.0	Ν
2015/06/10	Fine	14:00	14:30	80.0	58.5	71.0	-	67.8	75.0	Ν
2015/06/16	Fine	14:00	14:30	78.0	57.0	71.0	-	67.8	75.0	Ν
2015/06/22	Rainy	14:00	14:30	80.5	61.0	70.5	-	67.8	75.0	Ν
2015/07/03	Fine	17:00	17:30	89.0	56.5	70.0	-	67.8	75.0	Ν
2015/07/09	Fine	11:30	12:00	81.0	64.0	71.0	-	67.8	75.0	Ν
2015/07/15	Sunny	15:00	15:30	85.0	54.0	68.5	-	67.8	75.0	Ν
2015/07/21	Cloudy	15:30	16:00	85.0	58.5	68.0	-	67.8	75.0	Ν
2015/07/27	Sunny	14:00	14:30	90.0	57.0	68.5	-	67.8	75.0	Ν
									Summary For the Rep	orting Quarter

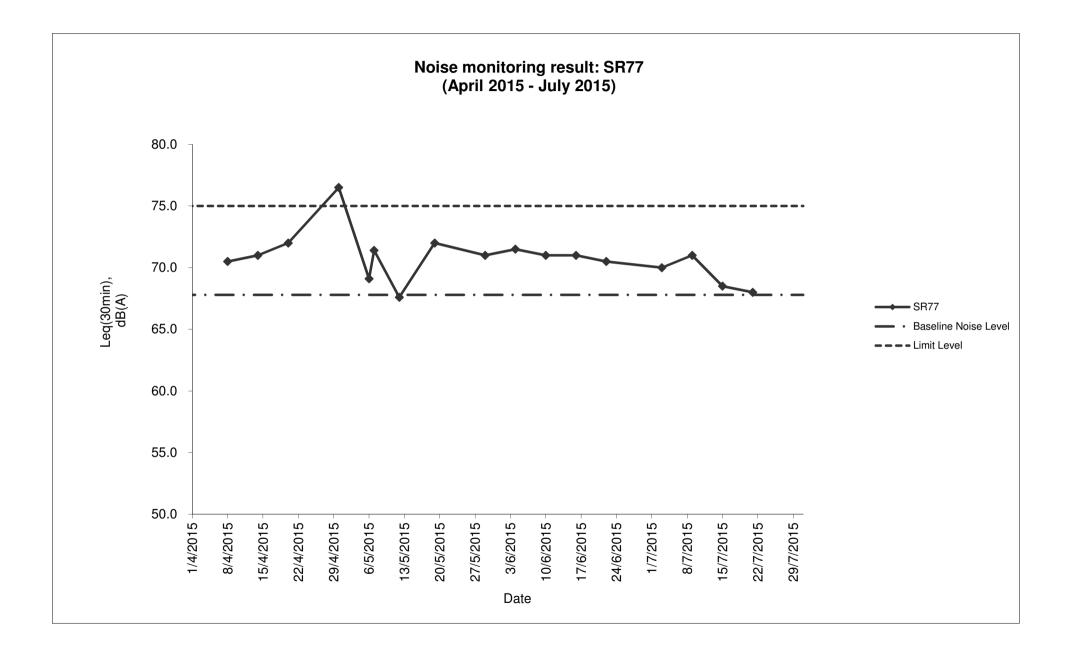
Summary For the Reporting Quarter							
(May 2015 - Jul 2015)							
Average 70.1							
Minimum	67.6						
Maximum	Maximum 72.0						

Remarks

* +3dB(A) Façade effect correction included

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

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





Appendix F Waste Flow Table

Monthly Summary Waste Flow Table

		Actual C	Quantities of In-	ert C&D Materia	Actual Quantities of C&D Wastes Generated Monthly							
		Hard Rock							Paper/			
	Total	and Large		Soil Reused	Soil Reused				cardboard			General
	Quantity	Broken		in the	in other	Soil Disposed			packaging		Chemical	Refuse
Month	Generated	Concrete	Soil	Contract	Projects	as Public Fill	Imported Fill	Metals	(Note 3)	Plastics	Waste	(Note 2)
Unit	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in m3)	(in '000m3)
May-15	1.554	0.197	1.357	0.108	-	1.249	0.100	-	-	0.012	-	0.065
Jun-15	2.568	0.053	2.515	0.840	-	1.675	0.125	-	-	0.030	0.800	0.060
Jul-15	1.207	0.030	1.177	0.351	-	0.826	1.564	-	-	-	-	0.065
Total	5.329	0.280	5.049	1.299	-	3.750	1.789	-	-	0.042	0.800	0.190

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 project.	



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