

JOB NO.: TCS00670/13

AGREEMENT NO. CE 45/2008 (CE) Liantang/Heung Yuen Wai Boundary Control Point and Associated Works

3rd QUARTERLY ENVIRONMENTAL MONITORING & AUDIT SUMMARY REPORT – (February to April 2014)

PREPARED FOR

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Quality Index Reference No. Prepared By Certified By 30 May 2014 TCS00670/13/600/R0175v2 MMA Massimation of the second s

Version	Date	Description	
1	19 May 2014	First Submission	
2	30 May 2014	Amended according to IEC's comments	

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3 June 2014

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By Email & Post

Attention: Mr Simon LEUNG

Dear Sirs

Agreement No. CE 45/2008 (CE) Liantang/Heung Yuen Wai Boundary Control Point and Associated Works Independent Environmental Checker – Investigation Quarterly EM&A Summary Report (No. 3) – February to April 2014

With reference to the Quarterly EM&A Report No. 3 for February to April 2014 (Version 2) certified by the ET Leader we received on 30 May 2014, please be noted that we have no adverse comments on the captioned submission. We herewith verify the captioned submission in accordance with Section 13.4 of the EM&A Manual.

Thank you for your attention and please do not hesitate to contact the undersigned on tel. 3995 8120 or by email to antony.wong@smec.com; or our Ms Winnie MA on tel. 3995 8138 or by email to winnie.ma@smec.com.

Yours faithfully For and on behalf of SMEC Asia Limited

Antony WON Independent Environmental Checker

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Indonesia Kazakstan Malaysia, United Arab Emirates Vietnam



EXECUTIVE SUMMARY

ES.01. This is the **3rd** Quarterly EM&A Summary Report for the "*Liantang/Heung Yuen Wai Boundary Control Point and Associated Works*" under Environmental Permit No. EP-404/2011/A (hereinafter "the EP"), covering the period from **1 February to 30 April 2014** (hereinafter "Reporting Period").

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES.02. Environmental monitoring activities under the EM&A programme in the Reporting Period are summarized in the following table.

		Reporting Period	
Environmental Aspect	Environmental Monitoring Parameters / Inspection	Number of Monitoring Locations to undertake	Total Occasions
Air Quality	1-hour TSP	4	180
Air Quality	24-hour TSP	4	64
Construction Noise	L _{eq(30min)} Daytime	5	75
Water Quality	Water compline	3 (Contract 3)	37*
Water Quality	Water sampling	2 (Contract 5)	37*
Joint Site Inspection /	IEC, ET, the Contractor and RE joint site	Contract 3	13
Audit	Environmental Inspection and Auditing	Contract 5	13

(*) number of sampling day

BREACHES OF ACTION/LIMIT LEVELS

ES.03. In the Reporting Period, no exceedance of air quality was registered. However, one (1) Limit Level exceedance and eleven (11) Action/ Limit Level exceedances were recorded for construction noise and water quality monitoring respectively. The summary of breach of environmental performance is shown below.

Environmental	Manitaning	Action Level	T ::4	Event & Action		
Environmental Aspect	Monitoring Parameters		Limit Level	NOE Issued	Investigation	Corrective Actions
A in Opelity	1-hour TSP	0	0	0	0	0
Air Quality	24-hour TSP	0	0	0	0	0
Construction Noise	L _{eq(30min)} Daytime	0	1	1	Not project related	N.A.
	DO	0	0	0	0	0
Water Quality	Turbidity	0	5	5	Not project related	N.A.
	SS	1	5	6	Not project related	N.A.

ENVIRONMENTAL COMPLAINT

ES.04. In the Reporting Period, one (1) environmental complaint was received on 16 April 2014 for Contract 3 regarding construction dust on the wheels of some vehicles leaving the construction site. Measures have been taken to ensure regular wheel washing of vehicles leaving the construction sites, the maintenance of the wheel washing facilities, and the maintenance of the cleanliness of the public roads. An investigation report has been submitted to relevant parties.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES.05. No environmental summons or successful prosecutions were recorded in the Reporting Period.



REPORTING CHANGES

ES.06. No reporting changes were made in the Reporting Period.

FUTURE KEY ISSUES

- ES.07. Construction noise would be a key environmental issue during construction work of the Project. Noise mitigation measures such as using quiet plants should be implemented in accordance with the EM&A requirement.
- ES.08. As wet season is approaching, muddy water or other water pollutants from site surface runoff into the local stream will be key environment issue. Water quality mitigation measures to prevent surface runoff into nearby water bodies should be paid on special attention.
- ES.09. Special attention should also be paid on the potential construction dust impact since most of the construction sites are adjacent to villages. The Contractor should fully implement the construction dust mitigation measures properly.
- ES.10. In addition, the potential water quality impact at the nearby rivers should be highly alerted. The Contractors including Contract 3 and Contract 5 should prevent muddy water and other water pollutants via site surface water runoff get into the Kong Yiu Channel and Ma Wat Channel, water quality mitigation measures should be properly implemented.



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1 INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1. Civil Engineering and Development Department is the Project Proponent and the Permit Holder of *Agreement No. CE 45/2008 (CE) Liantang / Heung Yuen Wai Boundary Control Point and Associated Works*, which is a Designated Project to be implemented under Environmental Permit number EP-404/2011/A issued on 28 October 2013.
- 1.1.2. The Project consists of two main components: Construction of a Boundary Control Point (hereinafter referred as "BCP"); and Construction of a connecting road alignment. Layout plan of the Project is shown in *Appendix A*.
- 1.1.3. The proposed BCP is located at the boundary with Shenzhen near the existing Chuk Yuen Village, comprising a main passenger building with passenger and cargo processing facilities and the associated customs, transport and ancillary facilities. The connecting road alignment consists of six main sections:
 - 1) Lin Ma Hang to Frontier Closed Area (FCA) Boundary this section comprises at-grade and viaducts and includes the improvement works at Lin Ma Hang Road;
 - 2) Ping Yeung to Wo Keng Shan this section stretches from the Frontier Closed Area Boundary to the tunnel portal at Cheung Shan and comprises at-grade and viaducts including an interchange at Ping Yeung;
 - 3) North Tunnel this section comprises the tunnel segment at Cheung Shan and includes a ventilation building at the portals on either end of the tunnel;
 - 4) Sha Tau Kok Road this section stretches from the tunnel portal at Wo Keng Shan to the tunnel portal south of Loi Tung and comprises at-grade and viaducts including an interchange at Sha Tau Kok and an administration building;
 - 5) South Tunnel this section comprises a tunnel segment that stretches from Loi Tung to Fanling and includes a ventilation building at the portals on either end of the tunnel as well as a ventilation building in the middle of the tunnel near Lau Shui Heung;
 - 6) Fanling this section comprises the at-grade, viaducts and interchange connection to the existing Fanling Highway.
- 1.1.4. Action-United Environmental Services & Consulting has been commissioned as an Independent ET to implement the relevant EM&A program in accordance with the approved EM&A Manual, as well as the associated duties.
- 1.1.5. This is the **3rd** Quarterly EM&A Summary Report for the "*Liantang/Heung Yuen Wai Boundary Control Point and Associated Works*" under Environmental Permit No. EP-404/2011/A, covering the period from **1 February to 30 April 2014**.

1.2 REPORT STRUCTURE

- 1.2.1 The Monthly Environmental Monitoring and Audit (EM&A) Report is structured into the following sections:-
 - *Section 1* Introduction
 - Section 2 Project Organization and Construction progress
 - *Section 3* Summary of Impact monitoring Requirements
 - *Section 4* Air Quality Monitoring
 - Section 5 Construction Noise Monitoring
 - *Section 6* Water Quality Monitoring
 - Section 7 Waste Management
 - Section 8 Non-compliance, Complaints, Notifications of Summons and Successful Prosecutions
 - Section 9 Implementation Status of Mitigation Measures
 - *Section 10* Conclusions and Recommendations



2 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1 CONSTRUCTION CONTRACT PACKAGING

- 2.1.1 To facilitate the project management and implementation, the Project would be divided by the following contracts:
 - Contract 2 (CV/2012/08)
 - Contract 3 (CV/2012/09)
 - Contract 4 (TCSS)
 - Contract 5 (CV/2013/03)
 - Contract 6 (CV/2013/08)
- 2.1.2 The details of each contracts is summarized below and the delineation of each contracts is shown in *Appendix A*.

Contract 2 (CV/2012/08)

- 2.1.3 Contract 2 has awarded in December 2013 and construction work will commence on 19 May 2014. Major Scope of Work of the Contract 2 is listed below:
 - construction of an approximately 5.2km long dual two-lane connecting road (with about 0.4km of at-grade road and 4.8km of tunnel) connecting the Fanling Interchange with the proposed Sha Tau Kok Interchange;
 - construction of a ventilation adit tunnel and the mid-ventilation building;
 - construction of the north and south portal buildings of the Lung Shan Tunnel and their associated slope works;
 - provision and installation of ventilation system, E&M works and building services works for Lung Shan tunnel and Cheung Shan tunnel and their portal buildings;
 - construction of Tunnel Administration Building adjacent to Wo Keng Shan Road and the associated E&M and building services works; and
 - construction of associated footpath, slopes, retaining structures, drainage, sewerage, waterworks, landscaping works and other ancillary works.

Contract 3 (CV/2012/09)

- 2.1.4 Contract 3 was awarded in July 2013 and construction work was commenced on 5 November 2013. Major Scope of Work of the Contract 3 is listed below:
 - construction of four link roads connecting the existing Fanling Highway and the south portal of the Lung Shan Tunnel;
 - realignment of the existing Tai Wo Service Road West and Tai Wo Service Road East;
 - widening of the existing Fanling Highway (HyD's entrustment works);
 - demolishing existing Kiu Tau vehicular bridge and Kiu Tau footbridge and reconstruction of the existing Kiu Tau Footbridge (HyD's entrustment works); and
 - construction of associated footpath, slopes, retaining structures, drainage, sewerage, waterworks, landscaping works and other ancillary works.

Contract 4 (Contract number to be assigned)

2.1.5 Contract 4 has not yet awarded. The work of the Contract 4 includes provision and installation of Traffic Control and Surveillance System and the associated electrical and mechanical works for the Project.

Contract 5 (CV/2013/03)

- 2.1.6 Contract 5 has awarded in April 2013 and construction work was commenced in August 2013. Major Scope of Work of the Contract 5 is listed below:
 - site formation of about 23 hectares of land for the development of the BCP;



- construction of an approximately 1.6 km long perimeter road at the BCP including a 175m long depressed road;
- associated diversion/modification works at existing local roads and junctions including Lin Ma Hang Road;
- construction of pedestrian subway linking the BCP to Lin Ma Hang Road;
- provision of resite area with supporting infrastructure for reprovisioning of the affected village houses; and
- construction of associated footpath, slopes, retaining structures, drainage, sewerage, waterworks, landscaping works and other ancillary works.

Contract 6 (CV/2013/08)

- 2.1.7 Contract 6 has not yet awarded. Major Scope of Work of the Contract 6 will be included below:
 - construction of an approximately 4.6km long dual two-lane connecting road (with about 0.6km of at-grade road, 3.3km of viaduct and 0.7km of tunnel) connecting the BCP with the proposed Sha Tau Kok Road Interchange and the associated ventilation buildings;
 - associated diversion/modification works at access roads to the resite of Chuk Yuen Village;
 - provision of sewage collection, treatment and disposal facilities for the BCP and the resite of Chuk Yuen Village;
 - construction of a pedestrian subway linking the BCP to Lin Ma Hang Road;
 - provisioning of the affected facilities including Wo Keng Shan Road garden; and
 - construction of associated footpath, slopes, retaining structures, drainage, sewerage, waterworks, landscaping works and other ancillary works.

2.2 **PROJECT ORGANIZATION**

2.2.1 The project organization is shown in *Appendix B*. The responsibilities of respective parties are:

Civil Engineering and Development Department (CEDD)

2.2.2 CEDD is the Project Proponent and the Permit Holder of the EP of the development of the Project and will assume overall responsibility for the project. An Independent Environmental Checker (IEC) shall be employed by CEDD to audit the results of the EM&A works carried out by the ET.

Environmental Protection Department (EPD)

2.2.3 EPD is the statutory enforcement body for environmental protection matters in Hong Kong.

Engineer or Engineers Representative (ER)

- 2.2.4 The ER is responsible for overseeing the construction works and for ensuring that the works are undertaken by the Contractor in accordance with the specification and contract requirements. The duties and responsibilities of the ER with respect to EM&A are:
 - Monitor the Contractors' compliance with contract specifications, including the implementation and operation of the environmental mitigation measures and their effectiveness
 - Monitor Contractors's, ET's and IEC's compliance with the requirements in the Environmental Permit (EP) and EM&A Manual
 - Facilitate ET's implementation of the EM&A programme
 - Participate in joint site inspection by the ET and IEC
 - Oversee the implementation of the agreed Event / Action Plan in the event of any exceedance
 - Adhere to the procedures for carrying out complaint investigation
 - Liaison with DSD, Engineer/Engineer's Representative, ET, IEC and the Contractor of the "Construction of the DSD's Regulation of Shenzhen River Stage 4 (RSR 4)" Project discussing regarding the cumulative impact issues.



The Contractor(s)

- 2.2.5 There will be one contractor for each individual works contract. The Contractor(s) should report to the ER. The duties and responsibilities of the Contractor are:
 - Comply with the relevant contract conditions and specifications on environmental protection
 - Employ an Environmental Team (ET) to undertake monitoring, laboratory analysis and reporting of EM &A Facilitate ET's monitoring and site inspection activities
 - Participate in the site inspections by the ET and IEC, and undertake any corrective actions
 - Provide information / advice to the ET regarding works programme and activities which may contribute to the generation of adverse environmental impacts
 - Submit proposals on mitigation measures in case of exceedances of Action and Limit levels in accordance with the Event / Action Plans
 - Implement measures to reduce impact where Action and Limit levels are exceeded
 - Adhere to the procedures for carrying out complaint investigation

Environmental Team (ET)

- 2.2.6 One ET will be employed for this Project. The ET shall not be in any way an associated body of the Contractor(s), and shall be employed by the Project Proponent/Contractor to conduct the EM&A programme. The ET should be managed by the ET Leader. The ET Leader shall be a person who has at least 7 years' experience in EM&A and has relevant professional qualifications. Suitably qualified staff should be included in the ET, and resources for the implementation of the EM&A programme should be allocated in time under the Contract(s), to enable fulfillment of the Project's EM&A requirements as specified in the EM&A Manual during construction of the Project. The ET shall report to the Project Proponent and the duties shall include:
 - Monitor and audit various environmental parameters as required in this EM&A Manual
 - Analyse the environmental monitoring and audit data, review the success of EM&A programme and the adequacy of mitigation measures implemented, confirm the validity of the EIA predictions and identify any adverse environmental impacts arising
 - Carry out regular site inspection to investigate and audit the Contractors' site practice, equipment/plant and work methodologies with respect to pollution control and environmental mitigation, and effect proactive action to pre-empt problems
 - Monitor compliance with conditions in the EP, environmental protection, pollution prevention and control regulations and contract specifications
 - Audit environmental conditions on site
 - Report on the environmental monitoring and audit results to EPD, the ER, the IEC and Contractor(s) or their delegated representatives
 - Recommend suitable mitigation measures to the Contractor in the case of exceedance of Action and Limit levels in accordance with the Event and Action Plans
 - Liaise with the IEC on all environmental performance matters and timely submit all relevant EM&A proforma for approval by IEC
 - Advise the Contractor(s) on environmental improvement, awareness, enhancement measures etc., on site
 - Adhere to the procedures for carrying out complaint investigation
 - Liaison with the client departments, Engineer/Engineer's Representative, ET, IEC and the Contractor(s) of the concurrent projects as listed under Section 2.3 below regarding the cumulative impact issues.

Independent Environmental Checker (IEC)

2.2.7 One IEC will be employed for this Project. The Independent Environmental Checker (IEC) should not be in any way an associated body of the Contractor(s) or the ET for the Project. The IEC should be employed by the Permit Holder (i.e., CEDD) prior to the commencement of the construction of the Project. The IEC should have at least 10 years' experience in EM&A and have relevant professional qualifications. The duty of IEC should be:



- Provide proactive advice to the ER and the Project Proponent on EM&A matters related to the project, independent from the management of construction works, but empowered to audit the environmental performance of construction
- Review and audit all aspects of the EM&A programme implemented by the ET
- Review and verify the monitoring data and all submissions in connection with the EP and EM&A Manual submitted by the ET
- Arrange and conduct regular, at least monthly site inspections of the works during construction phase, and ad hoc inspections if significant environmental problems are identified
- Check compliance with the agreed Event / Action Plan in the event of any exceedance
- Check compliance with the procedures for carrying out complaint investigation
- Check the effectiveness of corrective measures
- Feedback audit results to ET by signing off relevant EM&A proforma
- Check that the mitigation measures are effectively implemented
- Report the works conducted, the findings, recommendation and improvement of the site inspections, after reviewing ET's and Contractor's works, and advices to the ER and Project Proponent on a monthly basis
- Liaison with the client departments, Engineer/Engineer's Representative, ET, IEC and the Contractor(s) of the concurrent projects as listed under Section 2.3 below regarding the cumulative impact issues.

2.3 CONCURRENT PROJECTS

- 2.3.1 The concurrent construction works that may be carried out include, but not limited to, the following:
 - (a) Regulation of Shenzhen River Stage;
 - (b) Building works and road works by contractors of ArchSD;
 - (c) Widening of Fanling Highway Tai Hang to Wo Hop Shek Interchange Contract No. HY/2012/06;
 - (d) Construction of cross-boundary vehicular and pedestrian bridges (total 5 numbers) across the Shenzhen River; and
 - (e) Construction of BCP facilities in Shenzhen.

2.4 CONSTRUCTION PROGRESS

2.4.1 In the Reporting Period, the major construction activity conducted under the Project is located in Contract 3 and Contract 5. They are summarized in below. Moreover, the master construction program of the Contract 3 and Contract 5 is enclosed in *Appendix C*.

Contract 2 (CV/2012/08)

• Contract 2 has awarded in December 2013 and construction work will commence on 19 May 2014.

Contract 3 (CV/2012/09)

- Contract commenced in November 2013, the following activities were conducted in the Reporting Period.
- Cable detection and trial trenches
- Tree Felling Works
- Pre-drilling works and piling works
- Extension of box culvert ID04, ID05 & BC01
- Bored pile and bored pile wall construction
- Construction of haul road and temporary soil platform for geotechnical works
- Slope upgrading works
- Noise barrier installation
- Waterworks

Contract 4 (Contract number to be assigned)



• The contract has not yet awarded.

Contract 5 (CV/2013/03)

- Contract awarded in April 2013 and commenced in August 2013, the following activities were conducted in the Reporting Period.
- Construction of Eastern pedestrian subway and pump room at Lin Ma Hang (LMH) Road
- Construction of Western pedestrian subway at LMH
- Piling works at Bridge J
- Construction of retaining wall No.1
- Drainage works at LMH Road
- Water works at LMH Road
- Western Life shaft's construction
- Eastern Life shaft's construction
- Formation works at BCP Area
- Transplantation, Pruning/felling of existing tree

Contract 6 (CV/2013/08)

• The contract is still yet awarded

2.5 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

- 2.5.1 In according to the EP, the required documents have submitted to EPD for retention which listed in below:
 - Project Layout Plans of Contracts 2, 3 and 5
 - Landscape Plan
 - Topsoil Management Plan
 - Environmental Monitoring and Audit Programme
 - Baseline Monitoring Report (TCS00690/13/600/R0030v3) for the Project
 - Waste Management Plan of the Contracts 3 and 5
 - Contamination Assessment Plan (CAP) for Po Kat Tsai and Loi Tung
 - Vegetation Survey Report
- 2.5.2 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of each contracts are presented in *Table 2-1*.

 Table 2-1
 Status of Environmental Licenses and Permits of the Contracts

14	Description	License/Permit Status			
Item	Description	Contract 3 Contract 5		Contract 2, 4 & 6	
1	Air pollution Control (Construction Dust) Regulation	Ref. No: 362101 Notification received by EPD on 17 Jul 2013	Ref. No: 359338 Notified EPD on 13 May 2013		
2	Producer Registration -	No.:5113-634-C3817-01 Valid form 7 Oct 2013 till the end of Contract	No.: 5213-642-S3735-01 Valid form 8 Jun 2013 till the end of Contract		
3	Water Pollution Control Ordinance - Discharge License	No.:WT00016832 – 2013 Valid from 28 Aug 13 to 31 Aug 2018	No.: W5/1G44/1 Valid from 8 Jun 13 to 30 Jun 2018		
4		Account No. 7017914 Valid form 2 Aug 13 till the end of Contract	Account No. 7017351 Valid form 29 Apr 13 till the end of Contract		
5	Construction Noise	GW-RN0004-14	NA		

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14	D : (;	Licen	nse/Permit Status			
Item	Description	Contract 3	Contract 5	Contract 2, 4 & 6		
	Permit	Valid on 7 Jan 14 till 22 Jun 2014 GW-RN0109-14 Valid on 24 Feb 14 till 17				
		Valid on 24 Feb 14 till 17 May 2014				
		GW-RN0136-14 Valid on 4 Mar 2014 till 22 Jun 2014				



3 PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

3.1 GENERAL

- 3.1.1 The Environmental Monitoring and Audit requirements are set out in the Approved EM&A manual. Environmental issues such as air quality, construction noise and water quality were identified as the key issues during the construction phase of the Project.
- 3.1.2 A summary of construction phase EM&A requirements are presented in the sub-sections below.

3.2 MONITORING PARAMETERS

- 3.2.1 The EM&A program of construction phase monitoring shall cover the following environmental issues:
 - Air quality;
 - Construction noise; and
 - Water quality
- 3.2.2 A summary of the monitoring parameters is presented in *Table 3-1*.

Table 3-1	Summary of EM&A Requirements
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Environmental Issue	Parameters
Air Quality	1-hour TSP by Real-Time Portable Dust Meter; and
	• 24-hour TSP by High Volume Air Sampler.
	 L_{eq(30min)} in normal working days (Monday to Saturday) 07:00-19:00 except public holiday; and
Noise	• 3 sets of consecutive L _{eq(5min)} on restricted hours i.e. 19:00 to 07:00 next day, and whole day of public holiday or Sunday
	• Supplementary information for data auditing, statistical results such as
	L_{10} and L_{90} shall also be obtained for reference.
	In-situ Measurements
	 Dissolved Oxygen Concentration (mg/L);
	 Dissolved Oxygen Saturation (%);
	• Turbidity (NTU);
Water Quality	• pH unit;
	• Water depth (m); and
	• Temperature (°C).
	Laboratory Analysis
	• Suspended Solids (mg/L)

3.3 MONITORING LOCATIONS

3.3.1 The designated monitoring locations as recommended in the *EM&A Manual* are shown in *Appendix* **D**. As the access to some of the designated monitoring locations was questionable due to safety reason or denied by the landlords, alternative locations therefore have had proposed. The proposed alternative monitoring locations has updated in the revised EM&A Programme which verified by IEC and certified by ET Leader prior submitted to EPD on 10 July 2013. *Table 3-2, Table 3-3* and *Table 3-4* are respectively listed the air quality, construction noise and water quality monitoring locations for the Project and a map showing these monitoring stations is presented in *Appendix E*.

Station ID	Description	Works Area	Related to the Work Contract
AM1	Tsung Yuen Ha Village House No. 63	BCP	Contract 5
AM1a*	Garden Farm, Tsung Yuen Ha Village	BCP	Contract 5
AM2	Village House near Lin Ma Hang Road	LMH to Frontier	Contract 5,
		Closed Area	Contract 6
AM3	Ta Kwu Ling Fire Service Station of Ta Kwu	LMH to Frontier	Contract 5,
	Ling Village.	Closed Area	Contract 6
AM4a	A village house located at about 160m east	LMH to Frontier	Contract 6
	side of the original point AM4	Closed Area	

Table 3-2Impact Monitoring Stations - Air Quality



Station ID	Description	Works Area	Related to the Work Contract
AM5	Ping Yeung Village House	Ping Yeung to Wo	Contract 6
		Keng Shan	
AM6	Wo Keng Shan Village House	Ping Yeung to Wo	Contract 6
		Keng Shan	
AM7a	Another village (nameless) aligns to Sha Tau	Sha Tau Kok Road	Contract 2
	Kok Road – Wo Hang Section proximity to		
	Tai Tong Wu Village. The location is about		
	140m away from the original point AM7		
AM8	Po Kat Tsai Village No. 4	Po Kat Tsai	Contract 2
AM9b	Nam Wa Po Village House No. 80	Fanling	Contract 3

* Proposal for the change of air quality monitoring location from AMI to AMI a was submitted to EPD on 24 March2014 after verified by the IEC.

Station ID	Description	Works Area	Related to the Work Contract	
NM1	Tsung Yuen Ha Village House No. 63	BCP	Contract 5	
NM2	Village House near Lin Ma Hang Road	Lin Ma Hang to Frontier Closed Area	Contract 5, Contract 6	
NM3	Ping Yeung Village House (facade facing northeast)	Ping Yeung to Wo Keng Shan	Contract 6	
NM4	Wo Keng Shan Village House	Ping Yeung to Wo Keng Shan	Contract 6	
NM5	Village House, Loi Tung	Sha Tau Kok Road	Contract 2, Contract 6	
NM6	Tai Tong Wu Village House 2	Sha Tau Kok Rpad	Contract 2, Contract 6	
NM7	Po Kat Tsai Village	Po Kat Tsai	Contract 2	
NM8	Village House, Tong Hang	Fanling	Contract 2 Contract 3	
NM9	Village House, Kiu Tau Village	Fanling	Contract 3	
NM10	Nam Wa Po Village House No. 78	Fanling	Contract 3	

Table 3-4Impact Monitoring Stations - Water Quality

Station ID	Description	Designated / Alternative Location Coordinates		Nature of the location	Related to the Work Contract
-		Easting	Northing		
WM1	Downstream of Kong Yiu Channel	833679	845421	Alternative location located at upstream 51m of the designated location	Contract 5
WM1-Control	Upstream of Kong Yiu Channel	834185	845917	NA	Contract 5
WM2A	Downstream of River Ganges	834204	844471	Alternative location located at downstream 81m of the designated location	Contract 6
WM2A-Control	Upstream of River Ganges	835270	844243	Alternative location located at upstream 78m of the designated location	Contract 6
WM2B	Downstream of River Ganges	835433	843397	NA	Contract 6
WM2B-Control	Upstream of River Ganges	835835	843351	Alternative location located at downstream 31m of the designated location	Contract 6
WM3	Downstream of River Indus	836324	842407	NA	Contract 6
WM3-Control	Upstream of River	836763	842400	Alternative location located	Contract 6

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Station ID	Description	Designated / Alternative Location Coordinates		Nature of the location	Related to the Work
		Easting	Northing		Contract
	Indus			at downstream 26m of the designated location	
WM4	Downstream of Ma Wat Channel	833850	838338	Alternative location located at upstream 11m of the designated location	Contract 3
WM4–Control A	Kau Lung Hang Stream	834028	837695	Alternative location located at downstream 28m of the designated location	Contract 3
WM4–Control B	Upstream of Ma Wat Channel	833760	837395	Alternative location located at upstream 15m of the designated location	Contract 3

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 The requirements of impact monitoring are stipulated in *Sections 2.1.6, 3.1.5* and *4.1.6* of the approved *EM&A Manual* and presented as follows.

Air Quality Monitoring

- 3.4.2 Frequency of impact air quality monitoring is as follows:
 - 1-hour TSP 3 times every six days during course of works
 - 24-hour TSP Once every 6 days during course of works.

Noise Monitoring

3.4.3 One set of L_{eq(30min)} as 6 consecutive L_{eq(5min)} between 0700-1900 hours on normal weekdays and once every week during course of works. If construction work necessary to carry out at other time periods, i.e. restricted time period (19:00 to 07:00 the next morning and whole day on public holidays) (hereinafter referred as "the restricted hours"), 3 consecutive L_{eq(5min)} measurement will depended CNP requirements to undertake. Supplementary information for data auditing, statistical results such as L₁₀ and L₉₀ shall also be obtained for reference.

Water Quality Monitoring

3.4.4 The water quality monitoring frequency shall be 3 days per week during course of works. The interval between two sets of monitoring shall not be less than 36 hours.

3.5 MONITORING EQUIPMENT

Air Quality Monitoring

- 3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (*Part 50*), *Appendix B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to approve.
- 3.5.2 The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.
- 3.5.3 All equipment to be used for air quality monitoring is listed in *Table 3-5*.

Table 3-5Air Quality Monitoring Equipment

Equipment	Model
	24-Hr TSP
High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170
Calibration Kit	TISCH Model TE-5025A
	1-Hour TSP
Portable Dust Meter	Sibata LD-3B Laser Dust monitor Particle Mass Profiler &

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Equipment	Model		
	Counter		

Wind Data Monitoring Equipment

- 3.5.4 According to the approved EM&A Manual, wind data monitoring equipment shall also be provided and set up for logging wind speed and wind direction near the dust monitoring locations. The equipment installation location shall be proposed by the ET and agreed with the IEC. For installation and operation of wind data monitoring equipment, the following points shall be observed:
 - 1) The wind sensors should be installed 10 m above ground so that they are clear of obstructions or turbulence caused by buildings.
 - 2) The wind data should be captured by a data logger. The data shall be downloaded for analysis at least once a month.
 - 3) The wind data monitoring equipment should be re-calibrated at least once every six months.
 - 4) Wind direction should be divided into 16 sectors of 22.5 degrees each.
- 3.5.5 ET has liaised with the landlords of the successful granted HVS installation premises. However, the owners rejected to provide premises for wind data monitoring equipment installation.
- 3.5.6 Under this situation, the ET proposed alternative methods to obtain representative wind data. Meteorological information as extracted from "the Hong Kong Observatory Ta Kwu Ling Station" is alternative method to obtain representative wind data. For Ta Kwu Ling Station, it is located nearby the Project site. Moreover, this station is located at 15m above mean sea level while its anemometer is located at 13m above the existing ground which in compliance with the general setting up requirement. Furthermore, this station also can be to provide the humidity, rainfall, and air pressure and temperature etc. meteorological information. In Hong Kong of a lot development projects, weather information extracted from Hong Kong Observatory is common alternative method if weather station installation not allowed.

<u>Noise Monitoring</u>

- 3.5.7 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m s-1.
- 3.5.8 Noise monitoring equipment to be used for monitoring is listed in *Table 3-6*.

Table 3-6

3-6 Construction Noise Monitoring Equipment

Equipment	Model		
Integrating Sound Level Meter	B&K Type 2238 or Rion NL-14 or Rion NL-31		
Calibrator	B&K Type 4231		
Portable Wind Speed Indicator	Testo Anemometer		

3.5.9 Sound level meters listed above comply with the *International Electrotechnical Commission Publications 651: 1979 (Type 1)* and *804: 1985 (Type 1)* specifications, as recommended in TM issued under the NCO. The acoustic calibrator and sound level meter to be used in the impact monitoring will be calibrated yearly.

Water Quality Monitoring

- 3.5.10 DO and water temperature should be measured in-situ by a DO/temperature meter. The instrument should be portable and weatherproof using a DC power source. It should have a membrane electrode with automatic temperature compensation complete with a cable. The equipment should be capable of measuring:
 - DO level in the range of 0-20 mg/l and 0-200% saturation; and
 - temperature of between 0 and 45 degree Celsius.



- 3.5.11 A portable pH meter capable of measuring a range between 0.0 and 14.0 should be provided to measure pH under the specified conditions accordingly to the APHA Standard Methods.
- 3.5.12 The instrument should be portable and weatherproof using a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU.
- 3.5.13 A portable, battery-operated echo sounder or tape measure will be used for the determination of water depth at each designated monitoring station as appropriate.
- 3.5.14 A water sampler e.g. Kahlsico Water Sampler, which is a transparent PVC cylinder with capacity not less than 2 litres, will be used for water sampling if water depth over than 0.5m. For sampling from very shallow water depths e.g. <0.5 m, water sample collection will be directly from water surface below 100mm use sampling plastic bottle to avoid inclusion of bottom sediment or humus. Moreover, Teflon/stainless steel bailer or self-made sampling buckets maybe used for water sampling. The equipment used for sampling will be depended the sampling location and depth situations.
- 3.5.15 Water samples for laboratory measurement of SS will be collected in high density polythene bottles, packed in ice (cooled to 4 °C without being frozen), and delivered to the laboratory in the same day as the samples were collected.
- 3.5.16 Analysis of suspended solids should be carried out in a HOKLAS or other accredited laboratory. Water samples of about 1L should be collected at the monitoring stations for carrying out the laboratory suspended solids determination. The SS determination work should start within 24 hours after collection of the water samples. The SS analyses should follow the *APHA Standard Methods 2540D* with Limit of Reporting of 2 mg/L.
- 3.5.17 Water quality monitoring equipment used in the impact monitoring is listed in *Table 3-7*. Suspended solids (SS) analysis is carried out by a local HOKLAS-accredited laboratory, namely *ALS Technichem (HK) Pty Ltd*.

Equipment	Model				
Water Depth Detector	Eagle Sonar or tape measures				
Water Sampler	A 2-litre transparent PVC cylinder with latex cups at both ends or teflon/stainless steel bailer or self-made sampling bucket				
Thermometer & DO meter	YSI PRO20 Handheld Dissolved Oxygen Instrument				
pH meter	The EcoSense [®] pH10A pen-style instrument				
Turbidimeter	Hach 2100Q				
Sample Container	High density polythene bottles (provided by laboratory)				
Storage Container	'Willow' 33-liter plastic cool box with Ice pad				

Table 3-7Water Quality Monitoring Equipment

3.6 MONITORING METHODOLOGY

<u>1-hour TSP Monitoring</u>

- 3.6.1 The 1-hour TSP monitor was a brand named "Sibata LD-3B Laser Dust monitor Particle Mass Profiler & Counter" which is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90° light scattering. The 1-hour TSP monitor consists of the following:
 - (a.) A pump to draw sample aerosol through the optic chamber where TSP is measured;
 - (b.) A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
 - (c.) A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.



3.6.2 The 1-hour TSP meter is used within the valid period as follow manufacturer's Operation and Service Manual.

24-hour TSP Monitoring

- 3.6.3 The equipment used for 24-hour TSP measurement is Thermo Andersen Model GS2310 TSP high volume air sampling system, which complied with *EPA Code of Federal Regulation, Appendix B to Part 50*. The High Volume Air Sampler (HVS) consists of the following:
 - (a.) An anodized aluminum shelter;
 - (b.) A 8"x10" stainless steel filter holder;
 - (c.) A blower motor assembly;
 - (d.) A continuous flow/pressure recorder;
 - (e.) A motor speed-voltage control/elapsed time indicator;
 - (f.) A 7-day mechanical timer, and
 - (g.) A power supply of 220v/50 Hz
- 3.6.4 The HVS is operated and calibrated on a regular basis in accordance with the manufacturer's instruction using Tisch Calibration Kit Model TE-5025A. Calibration would carry out in two month interval.
- 3.6.5 24-hour TSP is collected by the ET on filters of HVS and quantified by a local HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (ALS), upon receipt of the samples. The ET keep all the sampled 24-hour TSP filters in normal air conditioned room conditions, i.e. 70% RH (Relative Humidity) and 25°C, for six months prior to disposal.

Noise Monitoring

- 3.6.6 Noise measurements were taken in terms of the A-weighted equivalent sound pressure level (L_{eq}) measured in decibels dB(A). Supplementary statistical results (L₁₀ and L₉₀) were also obtained for reference.
- 3.6.7 During the monitoring, all noise measurements were performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (L_{eq}). Leq_(30min) in six consecutive Leq_(5min) measurements were used as the monitoring parameter for the time period between 0700-1900 hours on weekdays; and also Leq_(15min) in three consecutive Leq_(5min) measurements is used as monitoring parameter for other time periods (e.g. during restricted hours), if necessary.
- 3.6.8 Prior of noise measurement, the accuracy of the sound level meter is checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The checking was performed before and after the noise measurement.

Water Quality

3.6.9 Water quality monitoring is conducted at the designated locations. The sampling produce with the in-situ monitoring are presented as below:

Sampling Procedure

- 3.6.10 A Digital Global Positioning System (GPS) is used to identify the designated monitoring stations prior to water sampling. A portable, battery-operated echo sounder is used for the determination of water depth at each station. At each station, water sample would be collected from 0.1m below water surface or the water surface to prevent the river bed sediment for stirring.
- 3.6.11 The sample container will be rinsed with a portion of the water sample. The water sample then will be transferred to the high-density polythene bottles as provided by the laboratory, labeled with a unique sample number and sealed with a screw cap.



- 3.6.12 Before sampling, general information such as the date and time of sampling, weather condition as well as the personnel responsible for the monitoring would be recorded on the field data sheet.
- 3.6.13 A 'Willow' 33-liter plastic cool box packed with ice will be used to preserve the water samples prior to arrival at the laboratory for chemical determination. The water temperature of the cool box is maintained at a temperature as close to 4^oC as possible without being frozen. Samples collected are delivered to the laboratory upon collection.

In-situ Measurement

- 3.6.14 YSI PRO20 Handheld Dissolved Oxygen Instrument is used for water in-situ measures, which automates the measurements and data logging of temperature, dissolved oxygen and dissolved oxygen saturation. Before each round of monitoring, the dissolved oxygen probe would be calibrated by the wet bulb method.
- 3.6.15 A portable EcoSense [®] pH10A pen-style instrument is used for in-situ pH measurement. The pH meter is capable of measuring pH in the range of 0 14 and readable to 0.1.
- 3.6.16 A portable Hach 2100Q Turbidimeter is used for in-situ turbidity measurement. The turbidity meter is capable of measuring turbidity in the range of 0 1000 NTU. StablCal[®] Standards of known NTU are used for calibration of the instrument before and after measurement.
- 3.6.17 All in-situ measurement equipment are calibrated by HOKLAS accredited laboratory of three month interval.

Laboratory Analysis

3.6.18 All water samples are analyzed with Suspended Solids (SS) as specified in the *EM&A Manual* by a local HOKLAS-accredited testing laboratory (ALS Technichem (HK) Pty Ltd HOKLAS registration no. 66). SS analysis is determined by the laboratory upon receipt of the water samples using *APHA Standard Methods 2540D* (namely ALS Method EA-025 as accredited HOKLAS Scheme) started within 48 hours of water sample receipt.

3.7 EQUIPMENT CALIBRATION

- 3.7.1 Calibration of the HVS is performed upon installation and thereafter at bimonthly intervals in accordance with the manufacturer's instruction using the certified standard calibrator (TISCH Model TE-5025A). Moreover, the Calibration Kit would be calibrated annually. The calibration data are properly documented and the records are maintained by ET for future reference.
- 3.7.2 The 1-hour TSP meter was calibrated by the supplier prior to purchase. Zero response of the equipment would be checked before and after each monitoring event. Annually calibration with the High Volume Sampler (HVS) in same condition would be undertaken by the Laboratory.
- 3.7.3 The sound level meter and calibrator are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at yearly basis.
- 3.7.4 All water quality monitoring equipment is calibrated by HOKLAS accredited laboratory of three month intervals.
- 3.7.5 The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period and the HOKLAS accredited certificate of laboratory are presented in the relevant monthly EM&A reports.

3.8 DERIVATION OF ACTION/LIMIT (A/L) LEVELS

3.8.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. According to the approved Environmental Monitoring and Audit Manual, the air quality, construction noise and water quality criteria were set up, namely Action and Limit levels



are listed in *Tables 3-8, 3-9* and *3-10*.

Table 3-8	Action and Limit Levels for Air Quality Monitoring
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Monitoring Station	Action 1	Level (µg /m³)	Limit Level (µg/m ³)		
Monitoring Station	1-hour TSP 24-hour TSP		1-hour TSP	24-hour TSP	
AM1/ AM1a	265	143			
AM2	268	149			
AM3	269	145		260	
AM4a	267	148			
AM5	268	143	500		
AM6	269	148			
AM7a	275	156			
AM8	269	144]		
AM9a	AM9a 271				

Table 3-9Action and Limit Levels for Construction Noise

Monitoring Location	Action Level	Limit Level in dB(A)		
Womtor mg Location	Time Period: 0700-1900 hours on normal weekdays			
NM1, NM2, NM3, NM4, NM5, NM6, NM7, NM8, NM9, NM10	When one or more documented complaints are received	75 dB(A) ^{Note 1 & Note 2}		

Note 1: Acceptable Noise Levels for school should be reduced to 70 dB(A) and 65 dB(A) during examination period

Note 2: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the NCA have to be followed.

Table 3-10	Action and Limit Levels for Water Quality
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Parameter	Performance	Monitoring Location				
rarameter	criteria	WM1	WM2A	WM2B	WM3	WM4
$\mathbf{DO}(\mathbf{m}_{\mathbf{z}}/\mathbf{I})$	Action Level	(*)4.23	(**)4.00	^(*) 4.74	(**)4.00	^(*) 4.14
DO (mg/L)	Limit Level	^(#) 4.19	(**)4.00	^(#) 4.60	(**)4.00	(#)4.08
	Action Level	51.3	24.9	11.4	13.4	35.2
Turbidity	Action Level	AND 120% of upstream control station of the same day				
(NTU)	Limit Level	67.6	33.8	12.3	14.0	38.4
		AND 130% of upstream control station of the same day				
	Action Level	54.5	14.6	11.8	12.6	39.4
SS (/ I)	Action Level	AND 120% of upstream control station of the same day				
SS (mg/L)	Limit Loval	64.9	17.3	12.4	12.9	45.5
	Limit Level	AND	130% of ups	tream control s	station of the s	ame day

Remarks:

(*) The Proposed <u>Action Level</u> of Dissolved Oxygen is adopted to be used 5%-ile of baseline data
 (**) The Proposed <u>Action & Limit Level</u> of Dissolved Oxygen is used 4mg/L

(#) The Proposed Limit Level of Dissolved Oxygen is adopted to be used 1%-ile of baseline data

3.8.2 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix F*.

3.9 DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.9.1 All monitoring data will be handled by the ET's in-house data recording and management system. The monitoring data recorded in the equipment will be downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data will input into a computerized database properly maintained by the ET. The laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.
- 3.9.2 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the



QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4 **AIR QUALITY MONITORING**

4.1 GENERAL

- 4.1.1 In the Reporting Period, the construction works under the project was commenced for Contract 3 and Contract 5. Therefore, air quality monitoring was only performed at 4 relevant designated locations as below:
 - AM1 Tsung Yuen Ha Village House No. 63 (relocated to AM1a Garden Farm, Tsung Yuen Ha Village on 21 March 2014);
 - AM2 Village House near Lin Ma Hang Road; and
 - AM3 Ta Kwu Ling Fire Service Station of Ta Kwu Ling Village
 - AM9b Nam Wa Po Village House No. 80

4.2 SUMMARY OF MONITORING RESULTS

4.2.1 Summary of air quality monitoring results during the Reporting Period are tabulated in *Table 4-1*. The relevant graphical plots throughout the Reporting Period are presented in *Appendix G*.

 Table 4-1
 Summary of Air Quality Monitoring Results

Monitoring	1-h	our TSP (µg/	/m ³)	24-h	/m ³)	
Location	Max	Min	Mean	Max	Min	Mean
AM1/AM1a*	255	39	141	126	34	66
Record Date	11-Mar-14	9-Apr-14	Total 45 events	15-Mar-14	23-Apr-14	Total 16 events
AM2	244	31	129	143	42	80
Record Date	11-Mar-14	9-Apr-14	Total 45 events	15-Mar-14	8-Feb-14	Total 16 events
AM3	244	31	127	110	32	68
Record Date	11-Mar-14	9-Apr-14	Total 45 events	15-Mar-14	8-Apr-14	Total 16 events
AM9b	265	25	126	120	26	70
Record Date	11-Mar-14	9-Apr-14	Total 45 events	21-Mar-14	17-Apr-14	Total 16 events

* Relocated to AM1a Garden Farm, Tsung Yuen Ha Village on 21 March 2014

- 4.2.2 In the Reporting Period, there were a total of 6 events of power failure incident of HVS during the course of 24-hour TSP monitoring, which happened at AM1 on 26 February, 4, and 10 March 2014, and at AM9b on 8 February, 4 and 10 March 2014. The samples were run less than 24 hours, and the results are considered invalid and for reference purposes only.
- 4.2.3 When contacted about the power supply issue, the resident of AM1 and AM9b explained that the power sockets were unplugged by the surrounding village residents, possibly due to noise nuisance. The situation of AM1 was rectified after the HVS was relocated to AM1a on 21 March 2014. For AM9b, the resident changed the location of the power source and the problem has been resolved immediately also.
- 4.2.4 Breaches of air quality A/L levels and statistical analysis of compliance for the air quality monitoring results are summarized in *Table 4-2*.

Table 4-2

Summaries of Breaches of Air Quality A/L Levels

Location	Exceedance	1-hour TSP	24- hour TSP	Total
AM1	Action Level	0	0	0
Alvil	Limit Level	0	0	0
AM2	Action Level	0	0	0
ANIZ	Limit Level	0	0	0
AM3	Action Level	0	0	0
Alvis	Limit Level	0	0	0
AM9b	Action Level	0	0	0
Alv190	Limit Level	0	0	0



4.2.5 In this Reporting Period, all 1-hour TSP and 24-hour TSP monitoring results were below the Action Level. No Notification of Exceedances (NOE) of air quality criteria or corrective action was therefore required. The summary of weather conditions during the Reporting Period is presented in *Appendix H*.



5 CONSTRUCTION NOISE MONITORING

5.1 GENERAL

- 5.1.1 In the Reporting Period, the construction works under the project was commenced for Contract 3 and Contract 5. Therefore, noise monitoring was only performed at 5 relevant designated locations as below:
 - NM1 Tsung Yuen Ha Village House No. 63;
 - NM2 Village House near Lin Ma Hang Road;
 - NM8 Village House, Tong Hang;
 - NM9 Village House, Kiu Tau Village
 - NM10 Nam Wa Po Village House No. 78

5.2 SUMMARY OF MONITORING RESULTS

- 5.2.1 The sound level meter was set in 1m from the exterior of the building façade including noise monitoring locations NM1, NM2, NM8 and NM9. No façade correction (+3 dB(A) is added according to acoustical principles and EPD guidelines. However, free-field status is performed at NM10 and façade correction (+3 dB(A) has added according to the requirement.
- 5.2.2 Summary of noise monitoring results during the Reporting Period are tabulated in *Table 5-1*. The relevant graphical plots throughout the Reporting Period are presented in *Appendix G*.

lable 5-1	Summary of Construction Noise Mon	noring Kesuits				
Monitoring	Leq, 30min (dB((A))					
Location	Max	Min				
NM1	67	43				
Record Date	10-Feb-14	4-Feb-14				
NM2	66	57				
Record Date	15-Apr-14	15-Feb-14				
NM8	68	55				
Record Date	3-Apr-14	5-Mar-14				
NM9	68	53				
Record Date	3-Apr-14	5-Mar-14				
NM10 ^(*)	<u>96</u>	60				
Record Date	22-Mar-14	10-Feb-14				

Table 5-1Summary of Construction Noise Monitoring Results

Remarks: Bold and underlined indicated limit level exceedance.

5.2.3 Breaches of construction noise A/L levels and statistical analysis of compliance for construction noise monitoring results are summarized in *Table 5-2*.

Station	Limit Level	Action Level	Received Date	
NM1	0			
NM2	0		NIA	
NM8	0	Noise complaint	NA	
NM9	0			
NM10	1		22-Mar-14	

 Table 5-2
 Summaries of Breaches of Construction Noise A/L Levels

- 5.2.4 In this Reporting Period, there was no noise complaint (which is an Action Level exceedance) received. However, one (1) Limit Level exceedance was recorded at NM10 on 22 March 2014.
- 5.2.5 An investigation based on site information provided by Chun Wo found that site construction activities carried out on 22 March 2014 included air-lifting and excavation at Bored Pile Wall and slope cutting and U-channel/ berm construction at Slope 3SW-D/C80. The abovementioned construction activities are normal work which would not generated excessive noise level as monitored before. During the course of noise monitoring, other external noise source, such as excavation and concreting work undergoing by other projects, were observed. Also, high noise



level by operation of the vibratory poker during concreting was noted and it would have attributed to the measured noise levels. As such, it was concluded that the Limit Level exceedance on 22 March 2014 was not related to works under the Project.

5.2.6 The summary of weather conditions during the Reporting Period is presented in *Appendix H*.



6 WATER QUALITY MONITORING

6.1 GENERAL

- 6.1.1 In the Reporting Period, the construction works under the project was commenced for Contract 3 and Contract 5. Therefore, water quality monitoring was only performed at 5 relevant designated locations as below:
 - WM1 Contract 5 working site downstream at Kong Yiu Channel;
 - WM1-Control Contract 5 working site upstream at Kong Yiu Channel;
 - WM4 Contract 3 working site Downstream of Ma Wat Channel;
 - WM4-Control A Contract 3 working site Kau Lung Hang Stream; and
 - WM4-Control B Contract 3 working site Upstream of Ma Wat Channel

6.2 SUMMARY OF MONITORING RESULTS

6.2.1 Summary of monitoring results during the Reporting Period are tabulated in *Tables 6-1 and 6-2*. The relevant graphical plots throughout the Reporting Period are presented in *Appendix G*.

Table 0-1	e o-1 Summary of the water Quanty Monitoring Results – Contract 5						
	DO (mg/L)		Turbidit	ty (NTU)	SS (mg/L)		
Statistics	WM1	WM1- Control	WM1	WM1- Control	WM1	WM1- Control	
Min	4.37	5.15	10.3	8.0	7.0	2.0	
Max	15.1	12.25	941.5	800	749.5	399	
Average	7.47	7.98	80.61	70.02	55.46	39.16	

Table 6-1Summary of the Water Quality Monitoring Results – Contract 5

	Table 6-2	Summary of the Water	Quality Monitoring	Results – Contract 3
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	Ι	DO (mg/L	.)	Tur	bidity (N	TU)		SS (mg/L)	
Statistics	WM4	WM4 - CA	WM4 - CB	WM4	WM4 - CA	WM4 - CB	WM4	WM4 - CA	WM4 - CB
Min	4.82	5.5	2.49	8.7	2.8	3.2	4.5	2.0	2.0
Max	12.3	9.6	10.27	136	104.6	63.3	65.5	125	41
Average	7.53	7.40	5.61	17.84	9.81	8.61	18.09	8.50	7.11

Noted:

WM4-CA = WM4-Control A; WM4-CB = WM4-Control B

6.2.2 Breaches of water quality A/L levels and statistical analysis of compliance for the water quality monitoring results are summarized in *Tables 6-3 and 6-4*.

Table 6-3Summaries of Breaches of the Existing Water Quality A/L Levels –
Contract 5

Reporting Period	No. of sample analysis in each Parameter	Exceedance	DO	Turbidity	SS
Eshmany 2014	11	Action Level	0	0	0
February 2014	11	Limit Level	0	0	0
N 1 2014	14	Action Level	0	0	1
March 2014		Limit Level	0	3	2
Amil 2014	10	Action Level	0	0	0
April 2014	12	Limit Level	0	1	1
Total	37	Action Level	0	0	1
	37	Limit Level	0	4	3



Table 6-4Summaries of Breaches of the Existing Water Quality A/L Levels –
Contract 3

Reporting Period	No. of sample analysis in each Parameter	Exceedance	DO	Turbidity	SS
E 1 2014	11	Action Level	0	0	0
February 2014	11	Limit Level	0	0	1
N 1 2014	14	Action Level	0	0	0
March 2014		Limit Level	0	0	0
A 12014	10	Action Level	0	0	0
April 2014	12	Limit Level	0	1	1
Total	37	Action Level	0	0	0
Totai	3/	Limit Level	0	1	2

- 6.2.3 In view of the monitoring results of Dissolved Oxygen (DO), all the measured results in the Reporting Period were higher than Action Level exceedance and no exceedances were therefore triggered.
- 6.2.4 A total of one (1) Action Level exceedance and seven (7) Limit Level exceedances of the parameters of turbidity and SS were recorded from water samples collected at WM1 during the Reporting Period, specifically on 22, 24, 31 March, and 2 April 2014. A total of three (3) Limit Level exceedances of the parameters of turbidity and SS were recorded from water samples collected at WM4 during the Reporting Period, specifically on 4 February 2014 and 2 April 2014. NOEs were issued to relevant parties upon confirmation of the results. The investigation for the causes of exceedances were completed and it concluded that the exceedances were not related to works under the Project. The detailed findings have been presented in relevant monthly EM&A reports.
- 6.2.5 The summary of weather conditions during the Reporting Period is presented in *Appendix H*.



7 WASTE MANAGEMENT

7.1 GENERAL WASTE MANAGEMENT

7.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

7.2 **RECORDS OF WASTE QUANTITIES**

- 7.2.1 All types of waste arising from the construction work are classified into the following:
 - Construction & Demolition (C&D) Material;
 - Chemical Waste;
 - General Refuse; and
- 7.2.2 Whenever possible, materials were reused on-site as far as practicable. The quantities of waste for disposal in the Reporting Period are summarized in *Tables 7-1* and 7-2 and the Waste Flow Table is presented in *Appendix I*.

Table 7-1Summary of Quantities of Inert C&D Materials

Type of Waste	Contract	Contract Quantity					
Type of waste	No	Feb 14	Mar 14	Apr 14	Total	Location	
C&D Materials (Inert)	3	1.697	3.954	1.600	7.251	-	
(in '000m ³)	5	0	0	0	7.231	-	
Reused in this Project (Inert)	3	0.38	1.092	0.672	2.144	-	
(in '000m ³)	5	0	0	0	2.144	-	
Reused in other Projects (Inert)	3	0	0	0	0	-	
(in '000m ³)	5	0	0	0	U	-	
Disposal as Public Fill (Inert)	3	1.473	2.862	0.928	5.263	Tuen Mun 38	
(in '000m ³)	5	0	0	0	5.205	-	

Table 7-2Summary of Quantities of C&D Wastes

Type of Weste	Contract			Disposal		
Type of Waste	No	Feb 14	Mar 14	Apr 14	Total	Location
Recycled Metal (in '000m ³)	3	0.002	0	0	0.89	By licensed
Recycled Metal (III 000III')	5	0	0	0.87	0.07	collector
Recycled Paper / Cardboard	3	0	0	0	0	-
Packing (in '000m ³)	5	0	0	0	U	-
Recycled Plastic (in '000m ³)	3	0	0	0	0	-
Recycled Flastic (III 000III)	5	0	0	0	U	-
Chemical Wastes (in '000m ³)	3	0.019	0	0.020	6.039	By licensed
Chemical Wastes (III 000III)	5	0	6	0	0.039	collector
Conoral Pofusos (in 1000m ³)	3	0.040	0.25	0.135	0.685	NENT
General Refuses (in '000m ³)	5	0.005	0.01	0.245	0.005	NENT

7.2.3 To control the site performance on waste management, the Contractor shall ensure that all solid and liquid waste management works are fully in compliance with the relevant license/permit requirements, such as the effluent discharge license and the chemical waste producer registration. The Contractor is also reminded to implement the recommended environmental mitigation measures according to the Environmental Monitoring and Audit Manual.



8 SITE INSPECTIONS

8.1 **REQUIREMENTS**

8.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections should carry out to confirm the environmental performance.

Contract 3

8.1.2 During the Reporting Period, *13* events of the joint site inspections were undertaken at Contract 3 to evaluate the site environmental performance. The summaries of the findings during site inspection are presented in *Table 8-1* and the details of site inspection can be found in relevant EM&A monthly report.

Reporting Period	Date of site inspection	Nos. of findings / reminders	Follow-Up Status
February 2014	5, 10, 17 and 24 February 2014	10	Completed
March 2014	3, 10, 17, 24 and 31 March 2014	9	Completed
April 2014	7, 16, 22 and 28 April 2014	6	Completed

 Table 8-1
 Summary of Reminders/Observations of Site Inspection – Contract 3

8.1.3 In the Reporting Period, no non-compliance was recorded; however, **25** observations/ reminders were recorded during the site inspections. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

Contract 5

8.1.4 During the Reporting Period, *13* events of the joint site inspections were undertaken at Contract 5 to evaluate the site environmental performance. The summaries of the findings during site inspection are presented in *Table 8-2* and the details of site inspection can be found in relevant EM&A monthly report.

 Table 8-2
 Summary of Reminders/Observations of Site Inspection – Contract 5

Reporting Period	Date of site inspection	Nos. of findings / reminders	Follow-Up Status
February 2014	6, 13, 20 and 27 February 2014	5	Completed
March 2014	6, 13, 20 and 27 March 2014	5	Completed
April 2014	3, 10, 17, 24 and 30 April 2014	14	Completed

8.1.5 In the Reporting Period, no non-compliance was recorded; however, **24** observations/ reminders were recorded during the site inspections. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

Other Contracts

8.1.6 Since the construction works at the Contract 2, Contract 4 and Contract 6 are not yet commenced, no site inspection is performed for these Contracts.



9 NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

9.1 NON-COMPLIANCE

9.1.1 No environmental non-compliance was recorded in the Reporting Period.

9.2 Environmental Complaint, Summons and Prosecution

- 9.2.1 For Contract 5, no environmental complaint, summons and prosecution was received in the Reporting Period. However, one complaint was received for Contract 3 on 16 April 2014 regarding construction dust on the wheels of some vehicles leaving the construction site. Measures have been taken to ensure regular wheel washing of vehicles leaving the construction sites, the maintenance of the wheel washing facilities, and the maintenance of the cleanliness of the public roads. An investigation report has been submitted to relevant parties.
- 9.2.2 The statistical summary table of environmental complaint, summons and prosecution are presented in **Tables 9-1**, **9-2** and **9-3**.

Table 9-1	Statistical Summary of Environmental Complaints
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Donouting David	Contract	Environmental Complaint Statistics		
Reporting Period	No	Frequency	Cumulative	Complaint Nature
February 2014	3	0	0	NA
	5	0	1	Construction Dust (1)
March 2014	3	0	0	NA
	5	0	1	Construction Dust (1)
April 2014	3	1	1	Construction Dust (1)
	5	0	1	Construction Dust (1)

 Table 9-2
 Statistical Summary of Environmental Summons

Donorting Daried	Contract	Environmental Complaint Statistics		
Reporting Period	No	Frequency	Cumulative	Complaint Nature
February 2014	3	0	0	NA
	5	0	0	NA
March 2014	3	0	0	NA
	5	0	0	NA
April 2014	3	0	0	NA
	5	0	0	NA

Table 9-3	Statistical Summary of Environmental Prosecution
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Reporting Period	Contract	Environmental Complaint Statistics		
	No	Frequency	Cumulative	Complaint Nature
February 2014	3	0	0	NA
	5	0	0	NA
March 2014	3	0	0	NA
	5	0	0	NA
April 2014	3	0	0	NA
	5	0	0	NA

9.2.3 Since the construction works at the Contract 2, Contract 4 and Contract 6 are not yet commenced, no environmental complaint, summons and prosecution are received in the Reporting Period accordingly.



10 IMPLEMENTATION STATUS OF MITIGATION MEASURES

10.1 GENERAL REQUIREMENTS

- 10.1.1 The environmental mitigation measures that recommended in the Implementation Schedule for Environmental Mitigation Measures (ISEMM) in the approved EM&A Manual covered the issues of dust, noise, water and waste and they are summarized presented in *Appendix J*.
- 10.1.2 All contracts under the Project shall be implementing the required environmental mitigation measures according to the approved EM&A Manual as subject to the site condition. Environmental mitigation measures generally implemented by Contract 5 in this Reporting Period are summarized in *Table 10-1*.

Issues	Environmental Mitigation Measures		
Water Quality	• Wastewater to be treated by filtration system; such as, silt curtain or sedimentation tank before discharge.		
Air Quality	 Maintain damp / wet surface on access road Keep slow speed in the sites All vehicles must use wheel washing facility before off site Sprayed water during breaking works 		
Noise	 Restrain operation time of plants from 07:00 to 19:00 on any working day except for Public Holiday and Sunday. Keep good maintenance of plants Place noisy plants away from residence or school Provide noise barriers or hoarding to enclose the noisy plants or works Shut down the plants when not in used. 		
Waste and Chemical Management	 On-site sorting prior to disposal Follow requirements and procedures of the "Trip-ticket System" Predict required quantity of concrete accurately Collect the unused fresh concrete at designated locations in the sites for subsequent disposal 		
General	The site was generally kept tidy and clean.		

 Table 10-1
 Environmental Mitigation Measures



11 CONCLUSIONS AND RECOMMENDATIONS

11.1 CONCLUSIONS

- 11.1.1 This is the 3rd Quarterly EM&A Summary Report presenting the monitoring results and inspection findings for the Reporting Period from **1 February to 30 April 2014**.
- 11.1.2 No 1-hour TSP and 24-hour TSP monitoring results that triggered the Action or Limit Level was recorded in this Reporting Period.
- 11.1.3 No noise complaint (which is an Action Level exceedance) was received. However, there was one (1) Limit Level exceedance in construction noise measurement recorded in this Reporting Period on 22 March 2014. Investigations concluded that the exceedance was not due to works under the Project.
- 11.1.4 For water quality monitoring, no Action/Limit Levels exceedance was triggered according to the set out water quality criteria in Dissolved Oxygen. However, a total of one (1) Action Level exceedance and seven (7) Limit Level exceedances of the parameters of turbidity and SS were recorded from water samples collected at WM1 during the Reporting Period, specifically on 22, 24, 31 March, and 2 April 2014. A total of three (3) Limit Level exceedances of the parameters of turbidity and SS were recorded from water samples collected at WM4 during the Reporting Period, specifically on 4 February 2014 and 2 April 2014. NOEs were issued to relevant parties upon confirmation of the results. The investigation for the causes of exceedances were completed and it concluded that the exceedances were not related to works under the Project.
- 11.1.5 During the Reporting Period, 13 events of joint site inspections for Contract 3 and Contract 5 were undertaken to evaluate the site environmental performance. No adverse environmental impacts were observed during the weekly site inspection and environmental audit of the Reporting Period, indicating the implemented mitigation measures for air quality, construction noise and water quality were effective. Minor deficiencies found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- 11.1.6 In the Reporting Period, no notification of summons or successful prosecution under the Project was received. However, one complaint for Contract 3 was received on 16 April 2014 regarding construction dust on the wheels of some vehicles leaving the construction site. Measures have been taken to ensure regular wheel washing of vehicles leaving the construction sites, the maintenance of the wheel washing facilities, and the maintenance of the cleanliness of the public roads. An investigation report has been submitted to relevant parties.

11.2 RECOMMENDATIONS

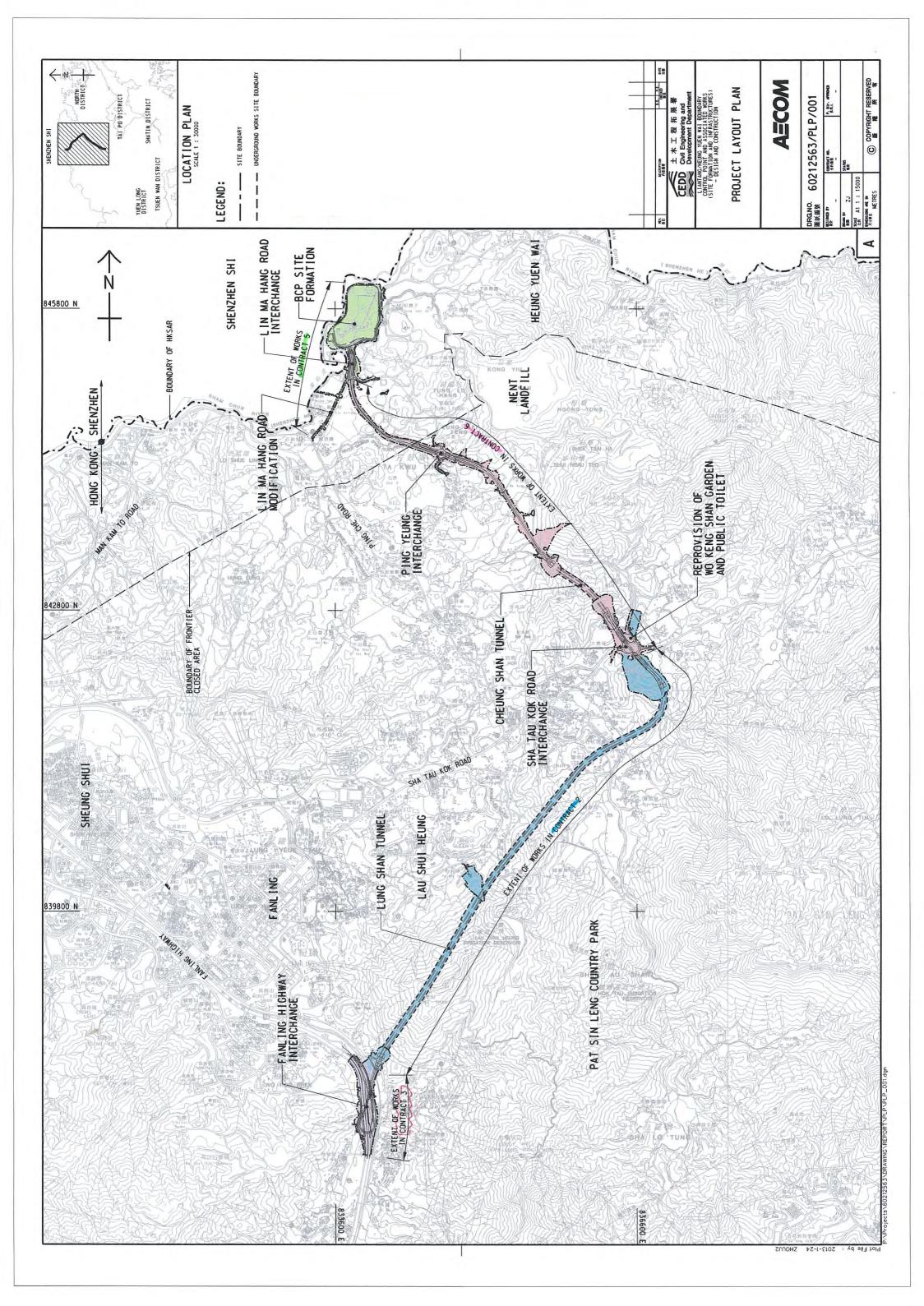
- 11.2.1 During wet season, muddy water or other water pollutants from site surface runoff into Kong Yiu Channel and Ma Wat Channel will be key environment issue. Water quality mitigation measures to prevent surface runoff into nearby water bodies should be paid on special attention.
- 11.2.2 Construction noise should be a key environmental impact during the works. The noise mitigation measures such as use of quiet plants or temporary noise barrier installation at the construction noise predominate area should be implemented as accordance with the EM&A requirement.
- 11.2.3 Mosquito control measures should be continued to prevent mosquito breeding on site.
- 11.2.4 To control the site performance on waste management, the Contractor shall ensure that all solid and liquid waste management works are fully in compliance with the relevant license/permit requirements, such as the effluent discharge license and the chemical waste producer registration. The Contractor is also reminded to implement the recommended environmental mitigation measures according to the Environmental Monitoring and Audit Manual.



Appendix A

Layout plan of the Project

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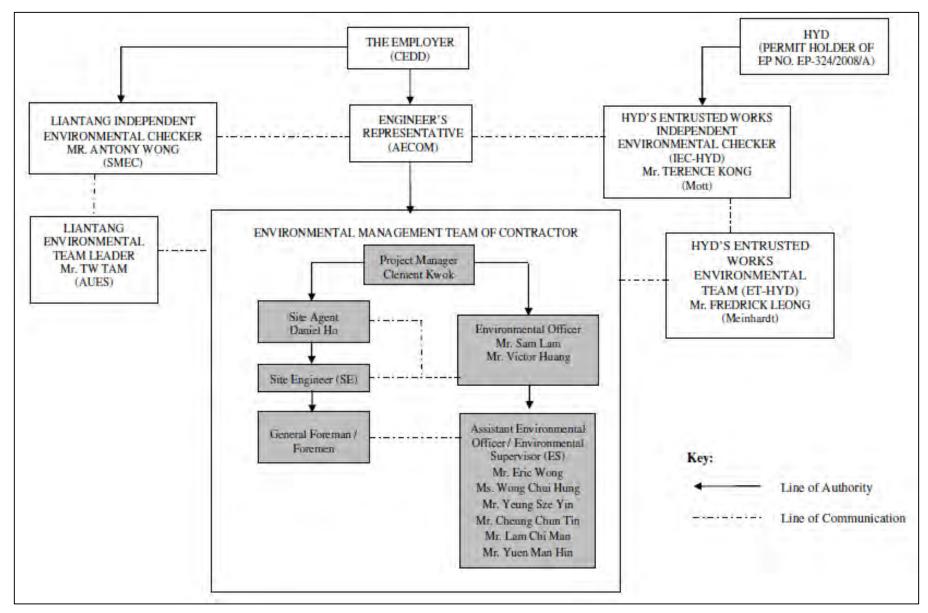


Appendix B

Environmental Management Organization Chart

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Organization	Project Role	Name of Key Staff	Tel No	Fax No.
AECOM	Engineer's Representative	Alan Lee	2472 0212	2472 0132
SMEC	Independent Environmental Checker	Antony Wong	3995 8120	3995 8101
Chun Wo	Project Director	Ken Ko	3758 8735	2638 7077
Chun Wo	Project Manager	Clement Kwok	2638 6136	2638 7077
Chun Wo	Site Agent	Daniel Ho	2638 6144	2638 7077
Chun Wo	Environmental Officer	Victor Huang	2638 6115	2638 7077
Chun Wo	Environmental Supervisor	Wong Chui Hing	2638 6125	2638 7077
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

Contact Details of Key Personnel for Contract 3 - CV/2012/09

Legend:

CEDD (Employer) – Civil Engineering and Development Department

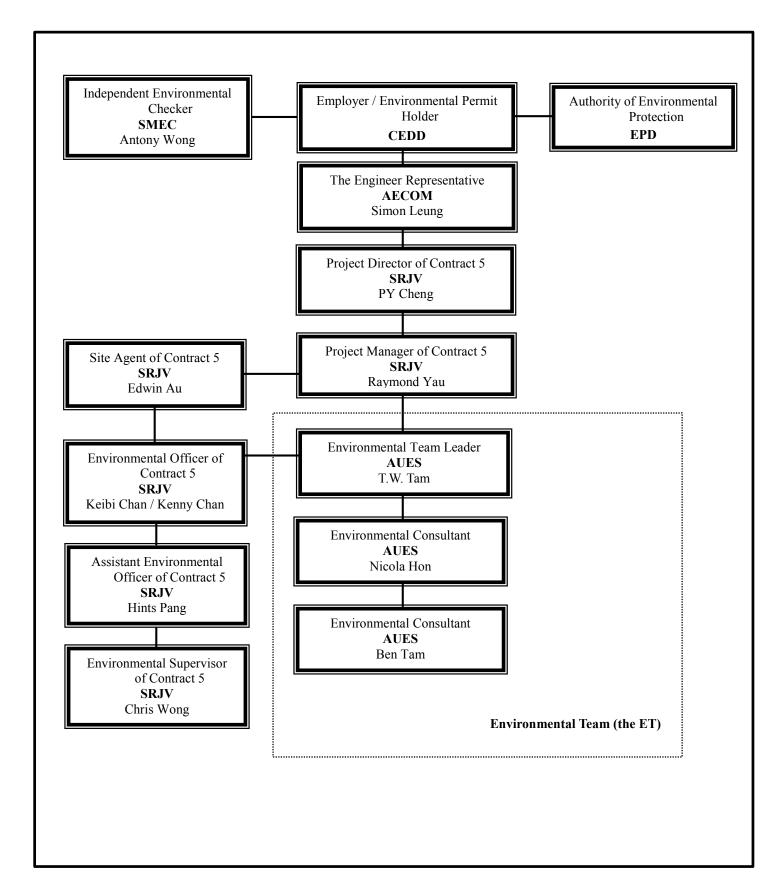
AECOM (Engineer) – AECOM Asia Co. Ltd.

Chun Wo (Main Contractor) – Chun Wo Construction Ltd.

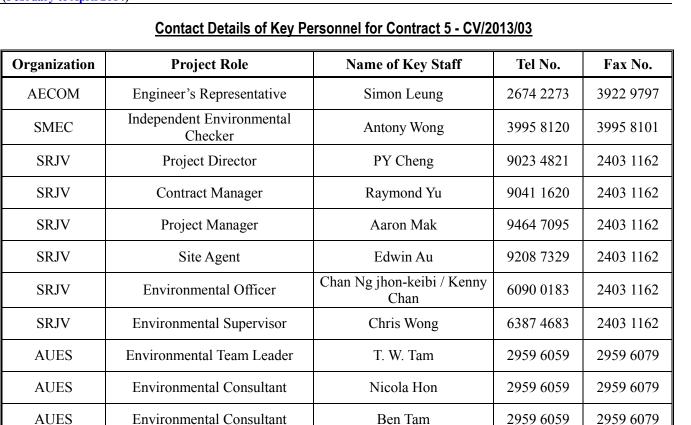
SMEC (IEC) – SMEC Asia Limited

AUES (ET) – Action-United Environmental Services & Consulting





Environmental Management Organization – CV/2013/03



AUES

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

SRJV (Main Contractor) – Sang Hing Civil – Richwell Machinery JV

SMEC (IEC) – SMEC Asia Limited

AUES (ET) – Action-United Environmental Services & Consulting



Appendix C

Master Construction Programme

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ctivity ID	Activity Name	OD	RD Start	t	Finish	TF	_		- 1	_	-	20							2015	_	_	1			2	016					_	20	017		_	_				2018	3			=	=	=	20	J19	=
Initial Works Progra	mme Rev 4	1786	1692 31-Jul-13	3A	31-Aug-19) (AS	Oct 1	V D J	an F M	Aar Apr			S O		ec Jan F	F Mar A	Apr M	Jun Jul	AS	Oct N	Dec Ja	in F N	far Apr	M Jur	n Jul A	SC	oct N D	Dec Jan	FM	ar Apr	M Jun	Jul	AS	Oct No	10	Jan F	Mar A	Apr M	Jun J	ul A	SO	Oct N	Dec	Jan	F Ma	ar Apr	M Ji	n Jul
Key Dates (Contract		1786	1480 31-Jul-13	3A	31-Aug-19																																												
KD-0010	Commencement of Works	0	0 31-Jul-13				Comr	nenceme	at of Wor	ks																																							
KD-1000	KD6B: Section 7 - All specified geotechnical fieldworks and all associated lab tests	0	0		14-Aug-14	. (•	KD6B: S	ection 7	- All specif	fied geoti	echnicalif	ieldwork	s and al	associate	o lab test	ts																										
KD-1500	KD13: Stage N4A - Connection of Access Road A and Slip Road Y at Entrustment Boundary	0	0		31-Oct-15																	D13 Sta	ine N4A	Conne	ction of A	Access R	oed Aer	id Slip Ro	te Yher	Entrust	nent Bo	undary	cn .																
KD-1100	CD KD7: Stage 1A - Completion of the Realigned Tai Wo Service Road West for diversion of	0	0		16-Jan-16				ļ						ļļ.					ļ			KD7 5	stage 1A	- Comp	etion of	the Real	oned Tai	Wo Ser	vice Ro	ad West	fordive	rsion in	vehicu	ar traffic					ļ		ļ						ļļ.	
KD-1600	vehicular traffic KD14: Stage N4B - Commissioning of Roundabout A by connecting to Slip Rd Y, Access Rd A		0		01-Jun-16																					(D14: Sta					dabout.					cress	RdAs	he reali	aned T	AVSRE									
KD-1300	& the realigned TWSRE KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and allow	0	0		28-Nov-16																										4 - Com										access f	for HY/	/2012/0	06					
KD-1200	access for HY/2012/06 KD9: Stace 1C - Completion of viaduct structures and associated civil provisions for TCSS and		0		01-Apr-17*): Stage				duct str	Ĩ		sociate		rovision			and allo	and and	esstor	rober	í I	
KD-0900	allow access for other KD6A: Section 6 - All works in Portion FH9 of the Site but excluding works on the deck	0	0		01-Apr-17*																														in Porti) of the		t exclud		re on th	h denk	k eu far	~					
KD-1400	KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and allow	0	0		11-Sep-17				ļ						ļļ.					ļ		ļ													D11 St			T			o of Fai	inding H	lichtva	ov twithin	NBZ	di and	allows	meet	or HY/2
KD-0100	access for HY/2012/06	0	0		29-Jan-18																																	D1: Set									BZ2 ext		Landa
KD-0300	KD1: Section 1A - all HyD's entrustment works in Zone3 and SBZ2 excluding Landscape Softworks and Establishment Works KD3: Section 2 - the remainder of the Works	0	0		29-Jan-18																																	D3: Set									T	, and a second	
KD-0300	KD4: Section 3 - Remainder of Landscape Softworks not included in Section 3A	0	0		29-Jan-18																																		ction 3 -		ndinuer			Softuni		tionar	to d in 1	oction	24
KD-0200		0	0																																		Ĭ	J4. 36.		rteman			2. 66.0	for 1P		- Indiada	entrustr	bontin	orks in N
KD-0200	KD2: Section 18 - all HyD's entrustment works in NBZ1 excluding Landscape Softworks and Establishment Works KD6: Section 5 - Preservation and Protection of Trees	0	0		31-Aug-18 31-Aug-18		.		 						ļļ.					ļ										.						ļ		ļ				 KD2 KD6 			Proce		austr	-one WC	
KD-0500	KUIs: Section 5 - Preservation and Protection of Trees KD4A: Section 3A - Landscape Softworks in NBZ1	0	0		31-Aug-18 31-Aug-18																																									waqun	n and P	-Juequic	NP74
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KD-0020	14: Stage N4B - Commissioning of Roundabout Aby commenting to Sip Rd Y, Access Rd A 0 0 23-May-16 9																																																
KD-0700			U				 	ļ							ļ					ļ		ļ														4				.		↓			 		_	ļļ.	
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KD-1105	vehicular traffic		0																			•	KD7:S	tage 1A				gned Tai	wo Sen	ace Roa	id West	tor dive		venicul	ar traific				_										
KD-1605	& the realigned TWSRE		0												<u>.</u>										◆ KD	4: Stag	je N4B-	Commits	ioning a	Roun	about A	bycon			Rd Y: Ac	xess Ro		e realig											
KD-1305	KD10: Stage S4 - Completion of road widening of Fanling Highway within SBZ2 and allow access for HY/2012/06	0	0		24-Nov-16																							1	KD10: 5	stage S		oletion o				ng Higi		ithin SB			ccess fo		2012/0	3					
KD-0905	KD6A: Section 6 - All works in Portion FH9 of the Site but excluding works on the deck surfaces	0	0		17-Feb-17																									♦ KI	06A: Sec				tion FHS				ting wor		ne deck		oes						
KD-1205	KD9: Stage 1C - Completion of viaduct structures and associated civil provisions for TCSS and allow access for other		0		30-Mar-17																										• КФ9	: Slage	1C - C		in of via			and as						nd allow					
KD-1405	KD11: Stage N4 - Completion of road widening of Fanling Highway within NBZ1 and allow access for HY/2012/06	0	0		07-Sep-17																													¢к	D11: Sta	ge N4												xoess fo	or HY/20
KD-0405	KD4: Section 3 - Remainder of Landscape Softworks not included in Section 3A	0	0		16-Jan-18																																	4. Secti							notin	ncluded	J in Set	tion 3/	1
KD-0305	KD3: Section 2 - the remainder of the Works	0	0		25-Jan-18																																	DS: Sec											
KD-0105	KD1: Section 1A-all HyD's entrustment works in Zone3 and SBZ2 excluding Landscape Softworks and Establishment Works	0	0		26-Jan-18																																♦к	D1: Sec						ks in Zo				Juding	andsc
KD-0805	KD6: Section 5 - Preservation and Protection of Trees	0	0		24-Apr-18																																		♦ KD	6: Secti				and Pro					
KD-0505	KD4A: Section 3A - Landscape Softworks in NBZ1	0	0		11-Aug-18																																										Softwor		121
KD-0205	KD2: Section 1B - all HyD's entrustment works in NBZ1 excluding Landscape Softworks and Establishment Works	0	0		25-Aug-18	3 6																																			•	KD2:	: Seictic	n 1B			ntrustm		sin NF
KD-0605	KD5: Section 4 - Establishment Works for Landscape Softworks under Section 3	0	0		16-Jan-19				[ſ														[1	• K	JD5; Se	ection 4	i - Esta	olishme
KD-0705	KD5A: Section 4A - Establishment Works for Landscape Softworks under Section 3A	0	0		11-Aug-19																																												
Possession of Site		180	0 31-Jul-13		27-Jan-14	. (
PS-P01	Possession of Portion FH1, NB21, SB22 and ZONE3	0	0 31-Jul-13				Posse	ssion of f	ortion FI	11, NBZ	1, SBZ2	and ZOI	NE3																																				
PS-P02	Possession of Portion FH2	0	0 27-Jan-1			0				Post	session o	f Portion	FH2																																				
PS-P03	Possession of Portion FH3	0	0 27-Jan-1	14*		(Post	session o	f Portion	FH3		T																											Π							
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Activity ID	Activity Name	OD	RD	Start	Finish	TF		_			201	4					201	5		- 1			20	16			_			2017					_	2017	_	_	_	-	_	2019	
PS-P04	Possession of Portion FH4	0	0	27-Jan-14*		A	S Oct N	D Ja	an F M	ar Apr 1	M Jun	Jul A	S Oct	N Dec	Jan F N	Mar Apr 1	M Jun J	Jul A	SOct	N Dec J	Jan F I	Mar Apr	M Jun	Jul A	S O		ec Jan	F Mar	pr M	Jun Ji		Oct N	ov D Ja	n F Ma	r Apr M	/ Jun J	al A	S Oct	N De	c Jan f	Mar /	pr M	Jun Jul A
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PS-P05	Possession of Portion FH5	0	0	27-Jan-14*		0			 Possi 	ession of	Portion F	нэ																															
PS-P06	Possession of Portion FH6	0	0	27-Jan-14*		0			 Possi 	ession of	Portion F	H6																															
PS-P07	Possession of Portion FH7	0	0	27-Jan-14*		0			 Possi 	ession of	Portion F	H7																															
PS-P08	Possession of Portion FH8	0	0	27-Jan-14*		0			Possi	ession of	Portion F	H8																						T									
PS-P09	Possession of Portion FH9	0	0	27-Jan-14*		0			 Possi 	ession of	Portion F	нэ																															
PS-P10	Possession of Portion FH10	0	0	27-Jan-14*		0			 Possi 	ession of	Portion F	н1р																															
PS-P11	Possession of Portion FH11	0	0	27-Jan-14*		0			Possi	ession of	Portion F	н11																															
Dependent Milesto	nes from Other Contracts	1283	1283	23-Sep-14	29-Mar-18	0																																					
MS-0100	Completion of Tempora y Vehicular Bridge by HY/2012/06	0	0		23-Sep-14*	0		+	· + · · + ·				• Cor	npletion of	Temporary	y Vehicula	r Bhidge b	y HY/201	2/06							+					+			+-+-			-++				+-+		
MS-0110	Completion of Kau Lung Hang Vehicular Bridge by HY/2012/06	0	0		25-Aug-16*	0																			Comp	etion of P	(au Lun	g Hang W	hicular B	Bridge b	y HY/201	2/06											
MS-0120	HY/2012/06's contractor access to SBZ2	0	0	28-Nov-16*		0																					11/2012	/06 s com	ractor acc	cess to	SBZ2												
MS-0140	HY/2012/06's contractor access to NBZ1	0	0	11-Sep-17*		0																									•	HY/201	2/06's cont	ractor acc	cess to NB	BZ1							
MS-0130	HY/2012/06's contractor vacation from SBZ2	0	0		30-Sep-17*	0																										♦ HN/2	012/06s o	ontractor	vacation	from SB2	2						
MS-0150	HY/2012/06's contractor vacation from NBZ1	0	0		29-Mar-18*	0		ļ																										<u>.</u>	♦ HY/20	012/065	contractr	or vacatio	nin froitn	NB71			
Major Milestones a			754	30-Sep-14	29-Apr-17 1	105																															T						
_																																											
MS-3000	E1: TTA to shift existing TWSRE westward to the widened pavement next to FLHN SB	2	2		03-Oct-14	3								: TTA to sh						ement ne	ext to FL	HN \$B																					
MS-2000A	T1: TTA to shift FLHS SB eastward to the widened pavement	2	2	30-Sep-14	03-Oct-14	7							T	t: TTA to sh	ift FLHS S	38 eastwa	rd to the	widened p	avement																								
MS-0220	Commissioning of the diverted twin DN1400 fresh water mains	0	0		24-Nov-14	3								♦ Com	missioning	g of the div	verled twi	n DN 1400) fresh wat	termains																							
MS-2000B	T2: TTA to shift FLHS NB & TWSRW eastward	2	2	27-Dec-14	29-Dec-14	7		†						0	T2 TTAt	o shift FLH	IS NB &	TWSRW	eastward							T								1 T			TT						
MS-0200	Completion of 6 nos. of piers crash with the existing FLH and TWSRW (by 2 sets)	0	0		08-Sep-15 1	123												•	Complet	tion of 6 r	nos of pi	iers crast	with the	existing F	LH and	NVSRW	(by 2 se	ts)															
MS-2000C	T3: TTA to divert TWS RW traffic to the completed re-aligned TW SRW	0	0	14-Jan-16		20															🔶 тз: тп	TA to dive	n TWSR	V traffic 1	o the cor	npleted n	e-aligned	TW SRV															
MS-3030	Completion of Utilities Diversion including connection to existing	0	0		08-Mar-16	7																Comp	letion of L	tilities D	iversion i	noluding c	connecti	on to exis	ing														
MS-2000D	T4: TTA to shift FLHS SB & NB to west with 1 lane & shoulder on both sides unoccupied	2	2	14-Mar-16	15-Mar-16	20																I T4: T	TA to shift	FLHSS	B&NB1	o west wi	th 1 lane	& should	ler on bot	th side	s unoccup	ied											
MS-2000E	T5: TTA to shift FLHS NB & SB to the designed alignment with 2 lanes in the middle	2	2	23-Jun-16	24-Jun-16	3		+	·+						-+-+			+								1.1		the desc	1 1		with 2 lane		niddle uno	cupied									
MS-0210	Completion of 2 nos. of piers crash with existing FLH (by 1 set)	0	0		13-Oct-16	34																				Comple	tion of 2	nos of p	erscrash	with e	xisting FLI	Hiby 1 s	et):										
MS-3010	Commissioning of re-aligned TWSRE	0	0	15-Oct-16		-																						of re-alig															
					120.10	0																						1															
MS-1000A	T6: TTA to shift FLHN SB eastward to the widened pavement	2	2	15-Oct-16	17-Oct-16	3																			1	16: HA			11		widened												
MS-1000B	T7: TTA to shift FLHN NB eastward to the completed pavement at middle part	2	2	11-Jan-17	12-Jan-17	3																						TIA to			astward to				t middle pa	art							
MS-1000C	T8: TTA to shift FLHN NB westward to the completed pavement	2	2	28-Apr-17		105																							Т8:	TTAto	shift FLH	NNBwle	stward to th	nel comple	ted paver	ment							
Major Procurement	& Delivery	506	506	23-Aug-13 A	15-Aug-15 1	114																																					
Water Supply Pipew	orks	227	227	29-0d-13A	01-Sep-14 1	123																																					
MM-1000	DN1200 MS pipe and pipe fittings	80	60	29-Oct-13A	08-Feb-14	3	-	;		1200 MS	pipe and	l pipe fittin	gs, DN1	200 MS p	ipe and pip	pe tittings																											
MM-1010	DN1400 MS pipe and pipe fittings	80	60	29-Oct-13 A	08-Feb-14	18		;	DN	1400 MS	pipe and	l pipe fitting	gs, DN1	1400 MS pi	ipe and pip	pe tittings																											
MM-1040	DN600 MS pipe and pipe fittings	80	60	29-Oct-13 A	08-Feb-14 2	290			DN	600 M S p	pipe and	pipe fitting:	s, DN60	00 MS pipe	and pipe	fittings		++		+					<u>+</u> +-	++	+-+		++		·	+		+	+	++	++		<u></u>	+	++		
MM-1020	DN2200 MS pipe and pipe fittings	90	68	29-Oct-13 A	18-Feb-14 1	188	🛏		i o	N2200 M	S pipe a	nd pipe fitti	ngs, DN	12200 MS	pipe and p	pipe fitting:																											
MM-1030	DN2300 MS pipe and pipe fittings	90	68	29-Oct-13 A	18-Feb-14 2	282			D	N2300 M	S pipe a	nd pipe fitti	ngs, DN	12300 MS	pipe and p	pipe fitting:																											
MM-1050	DN450 DI pipe and pipe fittings	60	60	13-Dec-13	03-Mar-14	23				DN 450 D) pipe ar	ıd pipe fitti	ngs																														
MM-1060	E&M equipment for the re-provisioned WSD Valve Control House		100		01-Sep-14 1	113								quiprhent fo	or the re-pr	rovisioned	WSD Va	lve Contr	ol House																								
	nent Lifting Frames and Precast Yard			23-Aug-13 A	29-Sep-14	30		ļ																	ļļ.									.					ļļ.				
MM-2000	Design and Submission of lifting frame	160	86	23-Aug-13 A	11-Mar-14	6				Design	and Sub	mission of I	lifting fr	ame, Desig	in and Stut	bmission o	f litting fra	amé																									
					Actual Wo	rela									C	ED		on	rac	+ N		cv	/20	12/	ng							Τ	Da	ite	Т	Re	visio	'n	С	heck	ed	Apr	proved
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	和建築工程有限公司				Critical Re	maini	ing Wo	ork									N	/orl	(S, (COI	ntra	act	3										7-Sep			Rev1			-	nnis		Dan	
Сн	UN WO CONSTRUCTION & ENGINEERING CO., I	TD.	٠	٠	Milestone																												9-Jul-			Rev0			-	selm		Dan	
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Activity ID	Activity Name	OD R	RD Start	Finish T	F		-	21	014		_		2015						2016			_			2017			_		201	8		_	2019		
MM-2010	Approval of design for lifting frame	12 1	12 12-Mar-14	25-Mar-14	A S Oct	ND	Jan F M	1ar Apr M Jun	Jul A S design for lifting		Dec Jan F	Mar Apr	M Jun Ji	IAS	Oct N	Dec Jan	F Mar A	Apr M	Jun Jul	A S	Oct N	Dec Ja	n F Ma	r Apr M	Jun Ju		S Oct Nov	D Jan F	Mar Apr	M Jun	Jul A S	Oct N	Dec Jan F Ma	ar Apr M	1 Jun Jul	A
MM-2020	Procurement and fabrication of lifting frame		90 26-Mar-14	17-Jul-14	6					1	brication of lift	ting frame																								
MM-2030	Pre-assembly of lifting frame		24 18-Jul-14	14-Aug-14	6				Pre-s		f lifting frame																									
MM-2040	Deliver to Site and assembly works		24 15-Aug-14	12-Sep-14	6					Deliver to	Site and asser	mbly works																								
MM-3020	Setting up precast yard for manufacturing precast bridge decks	75 7	75 26-Jun-14	23-Sep-14 3	15					Setting u	p precast yar:	d for manufa	acturing pri	cast bridge	decks																					
MM-2050	Certification of lifting frame	14 1	14 13-Sep-14	29-Sep-14	6					Certifica	tion of lifting fi	frame																								
Footbridge Steel Tru	ss	125 12	25 14-Mar-15	15-Aug-15 11	4																															
MM-3050	Fabrication of footbridge steel truss (Kiu Tau Footbridge)	125 12	25 14-Mar-15	15-Aug-15 11	4							-		Fabr	rication of fo	ootbridge	steel truss	s (Kiu Tau	Footbridg	e)																
Design and Submis	sions	1111 101	117 06-Aug-13 A	17-May-17 6	2									+++++										· • • • • •											+	
Statutory Approval		676 59	i94 27-Aug-13 A	30-Nov-15 25	1																															
PRE-1030	Submission & approval of method statement for Box Culvert BC01 Extension to DSD	50	0 27-Aug-13 A	30-Oct-13 A	╏╺┷┯━	Supmis	sion & appro	oval of method s	tatement for B	Box Culvert	BC01 Extensi	ion to DSD																								
PRE-1040	Submission & approval of method statement for Box Culvert BC02 Extension - DSD	50	0 27-Aug-13 A	30-Oct-13 A		Supmis	sion & appro	oval of method s	tatement for B	Box Culvert)	BC02 Extensi	ion - DSD																								
PRE-1050	Submission & approval of method statement for Box Culvert ID4 Extension - DSD	50	0 29-Aug-13 A	30-Oct-13 A		Submis	sion & appro	oval of method s	tatement for B	ax Culvert	D4 Extension	n - DSD																								
PRE-1060	Submission & approval of method statement for Box Culvert ID5 Extension - DSD	50	0 29-Aug-13 A	30-Oct-13 A		Submis	sion & apbro	oval of method s	tatement for B	ax Culvert	D5 Extension	n - DSD										ļ														
PRE-1010	Submission & approval of ADMS plan within MTR East Rail Line Protection Zone - MTRCL	50 5	50 28-Dec-13	04-Mar-14 7	7			Submission & a	normal of ADN	US oldo with	nin MTR East	Pail ine P	maction 7	orie - MTR(
PRE-1010	Submission & approval of ADMS plan within Mirk East Rail Line Protection 20th - WIRCL Liaison and approval for Utilities Diversion Plan - various utilities companies		92 19-Sep-13 A					Linior			on Plac					for we	D	n Dr-	-	Stine																
								uaispn and a	approvan fot Utili	mes civers	un mañ - Valli	ous utilities (wrtpanies	, caison an	- approval		is Diversion	ar man - y	ranuus ut	wies con	Janiës															
PRE-1020	Submission & approval of temporary works on nullah for erection of Bridge E - DSD		40 15-Aug-14	03-Oct-14 3	8					Submis	sion & approv	val of tempo				of Bridge	E - DSD																			
PRE-1080	Consent for Dong Jiang watermians connection for DN1400 - WSD	50 5	50 25-Aug-14*	24-Oct-14 1	3					Cor	sent for Dong	j Jiang wate	rmians cor	inection for	DN1400	T																				
PRE-1070	Consent for Dong Jiang watermains connection for DN2200, DN2300 - WSD	75 7	75 01-Sep-15*	30-Nov-15 25	1											Consen	t for Dong) Jiahg wa	itermains	connecti	on for DN	2200 D	N2300 - V	VSD												
Method Statement ar	nd Design (Major) Approved by AECOM	1002 100	02 09-Dec-13	17-May-17 6	2																															
PRE-2000	Submission of E&M design for the re-provisioned WSD Valve Control House	60 6	60 09-Dec-13	26-Feb-14 11	3			Submission of Ei	&M design for t	the retprove	sioned WSD	Valve Contr	rol House																							
PRE-2020	Submission of noise barrier design for absorptive panels, transparent panels and associated foring details	60 6	60 28-Apr-14	10-Jul-14 35	0				⊐ Submissio	on of noise	barrier design	for absorpti	ive panels,	transparen	it panels an	nd associa	ted fixing o	details																		
PRE-2030	Submission of E&M design for lighting of Kiu Tau Footbridge	60 6	60 31-Jul-15	10-Oct-15 13	14									-	Submit	ission of E	&M design	n for lighti	ng af Kiu	Tau Foo	oridge															
PRE-2040	Submission of E&M design for lighting inside viaduct structures of Bridge A, B, C & D	60 6	60 26-Apr-16	08-Jul-16 3	7							+		+++-					s s	ubmissio	n of E&M	l ölesign fo	orilighting	inside via	duct struc	ctuires of E	Bridge A, B, C	80	+			+-+			+	\square
PRE-2010	Submission of inigation systems for the proposed planting	60 6	60 02-Mar-17	17-May-17 6	12																			<u> </u>	Submiss	sion of Im	gation system	ms for the p	roposed pla	nting						
Contractor's Alterna	ive Design (AD) Submission & Approval	320 23		16-Sep-14 16	3																															
PRE-4000	ACABAS submission & approval	50	0 03-Sep-13 A		ACA	BAS subr	nission & ap	oproval																												
PRE-4010	Constractor's Alternative Design AIP		0 06-Aug-13 A			onstracto	r's Alternativ	ve Desinn AIP																												
PRE-4010	Foundation Design Package A (AA1, AB1, AC1, AD1, AB12/AD14)		0 03-Sep-13 A				dation Desig	an Packoon A /*	A1, AB1, AC1,	AD1 AP4	2/4014	ļļļ.			ļļļ						ļ	ļ			ļ											
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PRE-4120	Foundation Design Package B (AC4, AA5)		0 19-Sep-13 A			Hound	eation Debig	yn Maoxage B (A	a 4, AA5)																											
PRE-4130	Foundation Design Package C (AB2-AB11, AC2-AC3, AC5, AD9-AD13)		2 19-Sep-13 A		4	Fou	ndation Des		(AB2-AB11, AC						(AB2-AB1	1, AC2-AC	3, AC5, A	AD94D19	3)																	
PRE-4140	Foundation Design Package D (AA2-AA4, AA10-AA13)		2 26-Sep-13 A		1	Fou	ndation Des				oundation De		ige D (AA2	AA4, AA10	3-AA13)																					
PRE-4150	Foundation Design Package E (AD2-AD5)	36 3	36 21-Nov-13 A	04-Jan-14 1	8		Foundati	tion Design Pack	age 6 (AD2-AD	D5), Found	ation Design I	Package E ((AD2-AD5																							
PRE-4210	Pier Design Package A (AA2-AA5, AA10-AA13, AB2-AB6, AC2-AC5, AD9-AD13)	46 4	46 21-Nov-13 A	16-Jan-14 11	4		Pier De	esign Package A	AA 25 AA5 AA	0-AA13, A	B2-AB6, AC2	Z-AC5, AD9-	AD113), Pie	r Design Pa	ackage A (4	AA2 AA5,	AA 10-AA 1	13, AB2-A	B6, AC2	AC5, AD	9-AD13)															
PRE-4160	Foundation Design Package F (AA6-AA9, AA14-AA18, AD6 AD8)	36 3	36 04-Jan-14*	21-Feb-14	9		F	oundation Desig	gn Package F ((AA6-AA9,	AA14-AA18, A	4D6-AD8)																								
PRE-4220	Pier Design Package B (AB7-AB11)	43 4	43 27-Dec-13*	22-Feb-14 12	8		P	Pier Design Rack	age B (AB7-AB	B11)																										
PRE-4170	Foundation Design Package G (AC6-AC11)	36 3	36 21-Feb-14*	03-Apr-14 2	a l		🖕	Foundation	Design Packa	age G (AC	5-AC11)																									
PRE-4230	Pier Design Package C (AD2-AD5)	56 5	56 13-Feb-14*	23-Apr-14 7	4		🛶	Pier De	sign Plackage C	C (AD2-AD	5)																									
PRE-4260	Portal Beam Design Package (AB9/AD11, AC11/AD8, AB7/AD9, AB8/AD10, AD3)	54 5	54 05-Mar-14*	13-May-14 15	9			Porta	al Beam Desigr	r Paokage	(AB9/AD11, A	4C11 AD8, /	AB7/AD9,	B8/AD10,	AD3)						+	+			+				+						+	_
PRE-4240	Pier Design Package D (AA6-AA9, AA14-AA18, AD6-AD8)		46 29-Apr-14*	24-Jun-14 3	12						(AA6-AA9, A																									
PRE-4310	Superstructure Design Package A (AA6-AA18)		60 16-Apr-14*	02-Jul-14 13	5						Package A (4																									
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				Actual Wor	·k						C	CED	DC	ontr	ract	No	. C\	V/2	012	2/09)							Date		Re	vision	(Checked	Ар	prove	d
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PRE-4320 Superstructure Design Package B (AB1-AB6, AC1-AC5, AD1-AD5)	64	64 29-Apr-14*	16-Jul-14 199	D Jan F Mar Apr M Jun Jul A S Toct N Dec Jan F Mar Apr M	un Jul A S C	Oct Nov D Jan F Mar A	pr M Jun Jul A S Oct	N Dec Jan F Mar	2019 r Apr M Jun Jul A
PRE-4320 Superstructure Design Package D (AB 1-A60, AC 1-A00) PRE-4330 Superstructure Design Package C (AA 1-AA5, AB7-AB12, AD6-AD8)	64	64 30-Apr-14*	17-Jul-14 214	Superstructure Design Flockage ((A4F-A45, A87-A812, AD6/AD8)					
PRE-4340 Superstructure Design Package D (AC6-AC11, AD9-AD14)	62	62 14-May-14*	26-Jul-14 156	Superstudute Deign Package/D (A/C6-A/C11/A/D9A/D14)					
PRE-4250 Pier Design Package E (AC6-AC11)	88	88 04-Jun-14*	16-Sep-14 16	Pier Design Package E (AC6/AC11)					
Condition Survey	18	0 26-Aug-13 A							
PRE-5000 Condition Survey for EBS	18	0 26-Aug-13 A	22-Oct-13 A	bition Sunjey for EBS					
Temporary Traffic Arrangement (TTA) Submission and Approval	278	180 12-Aug-13 A	12-Jul-14 107						
Forming of TMLG	50	0 12-Aug-13 A	13-Sep-13A						
PRE-6000 Traffic consultant nomination & approval	25	0 20-Aug-13 A	29-Aug-13 A	tant homhaitin & approval					
PRE-6020 TMLG establishment	50	0 12-Aug-13 A	13-Sep-13A	ableliment					
TTA for Tai Wo Service Road West	222	170 13-Sep-13 A	12-Jul-14 107						
PRE-6110 TTA submission & approval - Scheme W2 (for Pling Works & Retaining Structure)	40	0 13-Sep-13 A	15-Oct-13 A	ubmission & approvial - Scheme W2 (for Pling Works & Rietaining Structure)					
PRE-6100 TTA submission & approval - Scheme W1 (for Jacking Pit)	40	40 07-Dec-13	25-Jan-14 42	TTA, submission & apploval-Scheme (W1 (for Jacking Pri)					
PRE-6120 TTA submission & approval - Scheme W4 (for diversion of DN2200)	40	40 24-Apr-14	02-Jun-14 63	TTA submission & apároval - Scheme W4 (/α/dweision;a/ DN/2200)					
PRE-6140 TTA submission & approval - Scheme W3 (for Road Works)	40	40 26-May-14	12-Jul-14 107	TA submission & adorovel - Scheme W3 för Road Works					
TTA for Tai Wo Service Road East	40	40 26-Nov-13	14-Jan-14 211						
PRE-6200 TTA submission & approval - Scheme E1 (for Roundabout A)	40	40 26-Nov-13	14-Jan-14 211	TA submision & appolal-Boheme €1 (br Rojn dabour)-)					
Section IA & IB - Fanling Highway Widening (KD-1 & KD-2)	1414								
Fanling Highway South Portion between CH6935 and CH7470		1227 12-Aug-13 A							
Fanling Highway Zone 1 between CH6935 and CH7130 (within SBZ2)	1247	1227 12-Aug-13 A	26-Jan-18 2						
At-Grade Roadworks (195m)	1247	1227 12-Aug-13 A	26-Jan-18 2						
FHW-1100 Site Formation, Preparation Works & Tree Transplant	65	49 12-Aug-13 A	20-Jan-14 7	StejFornation, Preparation/Works & Tree Stansplant, Ste Formation, Preparation Works & Tree Transplant					
FHW-1130 Road Formation for Subseqent Traffic Diversion (Approx. 100m)	95	95 03-Jun-14	23-Sep-14 12	Roặd Fármation tộr Súbsegent Traffic Diversion (Approx 100m)					
FHW-1110* Pipe Laying - DN1200 Watermains (CHC) across Fanling Highway (btal 80m for 2 shafts)	275	275 27-Jan-14	05-Jan-15 116	Pipe Laying - DN1200 Waterniains'(CHC) adross/Fanling Highway (bital 80 m for 2 shafts)					
FHW-1140 Noise Barrier NB70, NB6 and NB7 - Footing adjacent to SB lane (200m)	320	320 13-Dec-13	16-Jan-15 74	Noise Bayler 1/87/0, NB6 and NB7 - Footing adjacent to \$8 lahe (200m)					
FHW-1150* Pipe Laying - DN1200 Watermains (CHC) along Fanling Highway (80m bng, 4m depth)	182	182 21-May-15	28-Dec-15 500	Pipe Laying - DN/200(Watermains (CHC)) along Farling Highway (80m brig. 4m	depth)				
FHW-1160 Road Formation, Road Drainage, Kerb and Pavement (Eastern Side)	318	318 29-Dec-14	27-Jan-16 116	Rojad Formation, Road Drainage, Kerb and Pavement (Eastern Side)					
FHW-1200 Noise Barrier NB66 - Footing adjacent NB Iane (75m)	100	100 16-Apr-16	15-Aug-16 12	Noise Barter NB66- Foquing adjapent/NB (ie (75m)				
FHW-1300 Noise Barrier NB68 - Mini-Piling at central median (48nos)	72	72 25-Jun-16	19-Sep-16 3	Noiée Barrier NB65- Mini-Pling at cent					
FHW-1210 Road Formation, Road Drainage & Kerb (Western Side)	115	115 29-Jun-16	14-Nov-16 12	Road Fortnation Rhad Denis	oe & Kelto (Wester	n Sible)			
FHW-1310 Noise Barrier NB68 - Footing at central median (72m)	100	100 28-Jul-16	24-Nov-16 3		at central median	(72m)			
FHW-13.0 Noise Barrier NB68 - Upstand wall at central median (72m)	35	35 03-Oct-17	14-Nov-17 2			Noise Barrier NB68 -	Instant wall at control modi-	72m	
							Upistand wall at central median	·7	ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FHW-1330 Road Formation & Central Barrier (Middle Part)	60	60 15-Nov-17	26-Jan-18 2			Road For	mauun & Central Barrier (Middle	(rail)	
Fanling Highway Zone 2 between CH7130 and CH7290	1127		16-Oct-17 86						
At-Grade Roadworks (160m)	1127		16-Oct-17 86						
FHW-2100* Pipe Laying - Twin DN1400 Watermains (CHE & F) along Fanling Highway (44m long, 6m depth)	80	80 10-Feb-14		Pipe Laying - Twin DN1800 W deelmades (CHE & F) along Fanling Highley #4m long.6m depti)					
FHW-2110 Noise Barrier NB71 - Footing adjacent to SB lane (90m)	170	170 10-Dec-13	15-Jul-14 7	Contraction of the second seco					
FHW-2120 Road Formation with 3 lanes width and hard shoulder of permanent road & Road Drainage (Eastern Side)	180	180 21-Feb-14	29-Sep-14 7	Road Formation with B lanes with and hard shoulder of pertnament road & Road Drainage (Eastern Side)					
FHW-2130* Pipe Laying - DN1200 & DN600 Wate mains (CHB & CHC) abng Fanling Highway (183m long, 4m depth)	208	208 01-Sep-14	20-May-15 687	Pipe Laying - DN1200 & DN600 Watermains (CHB & CHC) aprog Faniling Highwey (183mlong, 4m;dapth)					
FHW-2200 Noise Barrier NB67 - Mini-Piling adjacent to NB Iane (44nos)	132	132 30-Dec-14	16-Jun-15 31	Noise Barlier NB67- Mai-Piling adjeosint to NB Sane (M4ndis)					
FHW-21 90 Footpath, DSD Access Track & Cycle Track adjacent to SB lane	108	108 21-May-15	26-Sep-15 687	Fortpath, DSD Access Track & Cycle; Track adjacent to \$8 kine					
<u></u>									
			Actual Work	CEDD Contract No. CV/2012/09		Date	Revision		Approved
			Remaining Wo			29-Jan-14	Rev4	Sam	Daniel
			Summary Bar	Liantang / Heung Yuen Wai BCP - Site Formation & Infrastruct	ure	21-Dec-13	Rev3	Dennis	Daniel
《 後 和 建 築 工 程 有 限 公 司			Critical Remaini	Warks Contract 2		23-Oct-13	Rev2	Dennis	Daniel
CHUN WO CONSTRUCTION & ENGINEERING CO., I	TD.					17-Sep-13	Rev1	Dennis	Daniel
		•	Milestone	Initial Works Programme Rev 4		09-Jul-13	Rev0	Anselm	Daniel
				IWP04Page 4 of 2430-Jan-14					

Activity ID	Activity Name	OD RE) Start	Finish		Inc. C. Maril And M.	2014		I C Mad	2015				2016			and 5 Mart	201			Inc. I. C. March	20	8	N IDeal Inc. J. F. H	2019	-141 -
FHW-2210	Noise Barrier NB67 - Footing adjacent to NB lane (83m)	160 160) 12-May-15	20-Nov-15	31 3 00 N D	Jan r Iviai Apr M	Jun Jul A S C	oct in Decijan	i r mar	Rpt M Jun Jul		Noise Barrier NB		g adjacent to			an r mar	Apr M Jun J	u A S	Oct NOV D	Jari r Mar A	pr w Jun	JUI A S UU	N Decijan r i	viar Apr M Jur	JULA
FHW-2220	Road Formation, Road Drainage & Kerb (Western Side)	200 200	0 05-Aug-15	12-Apr-16	533								Road	Formation,	Road Drain	nage & Ker	(Western Sit	le)	+-+							
FHW-2300	Noise Barrier NB68 - Mini-Piling at central median (6nos)	15 15	5 20-Sep-16	07-Oct-16	10										ļ 🖕 🛛	Voise Barrie	r NB68 - Mini	Piling at ¢entral	nedian (6no	x6)						
FHW-2310	Noise Barrier NB68A - Footing at central median (157m)	240 240	08-Oct-16	04-Aug-17	86														Noise I	Barrier NB68/	A Footing at cent	ıtral median (1	57ni)			
FHW-2320	Road Formation & Central Barrier (Middle Part)	105 105	5 13-Jun-17	16-Oct-17	86															Road Fo	rmation & Centra	al Barrier, (Midv	le Part)			
Fanling Highway Z	Zone 3 between CH7290 and CH7380	1183 1183	8 05-Nov-13 A	02-Dec-17	46																					
Box Culvert Exten			2 05-Nov-13 A	29-Mar-14																						
ID4-3010	Flow diversion of existing stream	4 (16-Nov-13A	Elow	divelsion of existing st	nam																			
ID4-3030B	Bay 2 - Excavation		3 18-Nov-13 A	23-Nov-13	1 Bay	2 - Excavation, Bay 2																				
ID4-3030C	Bay 3 - Excavation		3 18-Nov-13 A	23-Nov-13		3 - Excavation, Bay 3																				
ID4-3030C				27-Nov-13		2 - Sub-base & Blindi																				
	Bay 2 - Sub-base & Blinding	3 3					•													L						
ID4-3040C	Bay 3 - Sub-base & Blinding		3 25-Nov-13	27-Nov-13		3 - Sub-base & Blindi	ng																			
ID4-3050B	Bay 2 - Base Slab	7 7		05-Dec-13		y 2 Base Slab																				
ID4-3050C	Bay 3 - Base Slab	7 7	7 06-Dec-13	13-Dec-13	1	ay 3 - Base Slab																				
ID4-3060B	Bay 2 - Wall and Top Slab	21 21	06-Dec-13	02-Jan-14	8	Bay 2 Wall and To	p Slab																			
ID4-3060C	Bay 3 - Wall and Top Slab	21 21	14-Dec-13	10-Jan-14	1	Bay 3 - Wall and To	op Slao																			
ID4-3070	Construction of Temp arany Road for Site Access	12 12	2 11-Jan-14	24-Jan-14	1	Construction of 1	Temporary Road for \$i	te Access																		
ID4-3000	Demolition of existing roadworks	7 7	25-Jan-14	08-Feb-14	1	Demolition of	ekisting roadworks																			
ID4-3020	Installation of dowel bar for connection to existing box structure	4 4	1 10-Feb-14	13-Feb-14	1	I Installation of	dowel bar for connect	ion to existing bo	o structure																	
ID4-3030A	Bay 1 - Excavation	4 4	14-Feb-14	18-Feb-14	1	🛿 Bay 1 - Exca	vation																			
ID4-3040A	Bay 1 - Sub-base & Blinding	3 3	3 19-Feb-14	21-Feb-14	1	I Bay 1 - Sub	base & Blinding																			
ID4-3050A	Bay 1 - Base Slab	10 10	22-Feb-14	05-Mar-14	1	📮 Bay1 Ba	ase Slab																			
ID4-3060A	Bay 1 - Wall and Top Slab	21 21	06-Mar-14	29-Mar-14	1	🔲 Bay 1	-Wall and Top \$lab																			
Box Culvert Exten	islon - ID5	102 102	2 05-Nov-13 A	29-Mar-14	1																					
ID5-3010	Flow Diversion of Existing Stream	4 (0 05-Nov-13 A	12-Nov-13A	Elow	Diversion of Existing Si	tneam																			
ID5-3030B	Bay 2 - Excavation	4 3	3 13-Nov-13 A	23-Nov-13	1 Bay	2 - Excavation, Bay 2	- Excavation																			
ID5-3030C	Bay 3 - Excavation	4 3	3 13-Nov-13 A	23-Nov-13	8 Bay	3 - Excavation, Bay 3	-Excavation		+										+							
ID5-3040B	Bay 2 - Sub-base & Blinding	3 3	3 25-Nov-13	27-Nov-13	1 Bay	2 - Bub-base & Blindi	ng																			
ID5-3040C	Bay 3 - Sub-base & Blinding	3 3		27-Nov-13	8 8 Bay	3 - Sub-base & Blindi	ng																			
ID5-3050B	Bay 2 - Base Slab	7 3		05-Dec-13		v 2 - Base Slab																				
ID5-3050C	Bay 3 - Base Slab	7 3		13-Dec-13		ay3 - Base Slab																				
ID5-3060B	Bay 2 - Wa II and Top Slab	21 21		02-Jan-14	8	Bay 2 Wall and To	oSlab																			
ID5-3060C	Bay 3 - Wall and Top Slab	21 21		10-Jan-14		Bay 3 - Wall and To																				
ID5-3070	Construction of Temp grant Road for Site Access	12 12		24-Jan-14			Temporary Road for \$1	to freezen																		
								ie Aucess																		
ID5-3000	Demolition of Existing R/W			08-Feb-14		Demolition of																				
ID5-3020	Installation of Dowel Bar for Connection to Existing Box Structure	4 4		13-Feb-14	1		Dowel Bartfor Connec	πιού to Existing B	sox Structur	e										L	 .					
ID5-3030A	Bay 1 - Excavation	4 4		18-Feb-14		D Bay 1 - Exca																				
ID5-3040A	Bay 1 - Sub-base & Blinding	3 3		21-Feb-14	1		base & Blinding																			
ID5-3050A	Bay 1 - Base Slab	10 10) 22-Feb-14	05-Mar-14	1	🗖 Bay1-Ba																				
ID5-3060A	Bay 1 - Wall and Top Slab	21 21	06-Mar-14	29-Mar-14	1	🔲 Bay 1	- Wall and Top \$lab																			
At-Grade Roadwo	vrks (90m)	1108 1108	3 27-Feb-14	02-Dec-17	46																					
						T					ntract	No (<u>~\//2</u>	012	00					T	Date		evision	Checked	d Appro	oved
	Actual Work CEDD Contract No. CV/2012/09 Remaining Work															29-Ja		Rev4		Sam	Danie					
	Summary Bar Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure														21-De		Rev3		Dennis	Danie						
000 14														e	23-0		Rev2		Dennis	Danie						
	和建築工程有限公司	_		Critical F	emaining Work					Wo	orks, C	ontra	ct 3								ep-13	Rev1		Dennis	Danie	
Сн	IUN WO CONSTRUCTION & ENGINEERING CO., L	TD.	•	Mileston	Э															09-Ju		Rev0		Anselm	Danie	
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		1				1	IWP04				Page 5	of 24				3	0-Jan	-14		—				I		

No. 0 No. 0 No. 0 No.	EWIty ID	Activity Name	OD	RD	Start	Finish	IF				2014				я	15				2016	6					2017					2018				2019	_
No. N	FHW-3110	Filing Works	30	30	31-Mar-14	10-May-14	A S Oc	at N D	Jan F Mar			S Oct	N Dec Jan	F Mar	Apr M Jun	Jul A S	Oct N D	lec Jan F	F Mar Apr			S Oct N	Dec Jar	FMa	Apr M	Jun Jul	ASC	Oct Nov D	Jan F	Mar Apr 1	M Jun Jul	ASC	Oct N De	c Jan F Mar	Apr M Ju	Jul A
• · · · · · · · · · · · · · · ·	FHW-3100					,	12			F F	Road Format	ion with 👂	lanes width of	f Permane	ent Road (Ea	tern Sidel																				
With Number 1 and							07				Rhod	omation	or the Remo	ning 1 lar	e of Perman	t Road /Eer	em Sirla)																			
max m							10				- Read Po					T	nolio- 15			oth)																
		depth)			-							Mpe La	ying - Iwin Div	N1400 W8	termains(CH		anling High		-	ptn)																
						-	pa								Noise	Bamer NB71	MiniPiling	adjacent to	o SB lanke (41	unos)																
					-		78									-		Noise Ba	arrier NB69 -	Mini-Piling a	adjacent to			sume 2 si	ets of plan	0	Ī									
With white the first white the	FHW-3200	Road Formation with 3 lanes width of Permanent Road (between CH7350 and CH7450)	45	45	14-Jan-16	12-Mar-16	20											-	Road	Formation	with 3 lane	is width of	Permaner	nt Road (b	between C	H7350 an	d CH7450])								
Number Note: Note	FHW-3150	Noise Barrier NB71 - Footing adjacent to SB lane (130m)	270	270	15-May-15	15-Apr-16	3								-					Noise Barrie	er NB71 - F	ooting adj	acent to S	8 lane (1	30m)											
• • • • • • • • • • • • • • •	FHW-3220	Noise Barrier NB69 - Footing adjacent to NB lane (108m)	160	160	21-Nov-15	13-Jun-16	31													No.	oise Barlier	NB69 Fo	ooting adja	acent to N	IB lane (10	18m)										
	FHW-3170	Road Formation (Hard Shoulder), Road Drainage, Kerb and Pavement (Eastern Side)	115	115	26-Jan-16	22-Jun-16	3											🛉		F	Road Form	ation (Har	Shoulde	r), Road E	Drainage, I	Kerb and I	avernent ((Eastern Sid	ie)							
• • • • • • • • • • • • • • •	FHW-3160*	Pipe Laying - DN600, DN1200 Watermains (CHB &CHC) along Fanling Highway (90m long, 3m denth)	324	324	10-Jul-15	13-Aug-16 3	30									-					Pip	e Laying -	DN600, D	N1200 W	/atemains	(CHB &C	HC) along	Fan ling Hig	ghway (90m	long, 3m; d	lepth)					1 th
Name	FHW-3230	Road Formation, Road Drainage & Kerb (Western Side)	112	112	31-Mar-16	13-Aug-16 4	11														n Ro	ad Format	ion, Read	Drainage	& Kerb (V	estern Sic	ie)									
• • • • • • • • • • • • • • •	FHW-3180	Footpath, DSD Access Track adjacent to SB lane	60	60	15-Aug-16	26-Oct-16 3	71															F.	ootpath, D	SD Acces	as Track ad	a cent to s	Blane									
witzwiski konzel 0	FHW-3300	Noise Barrier NB68A - Mini-Piling at central median (40nos)	120	120	08-Oct-16	08-Mar-17	10																	<u> </u>	Noise Barr	ier NB68A	- Mini-Pilin	g at central	median (40	nos)						
• • • • • • • • • • • • • • •	FHW-3310	Noise Barrier NB68A - Footing at central median (98m)	160	160	09-Mar-17	20-Sep-17	10																					Noise Barrie	r NB68A - R	ooting at c	entral media	an (98m)				
							10																						Read Form	ation & Cen	trat Barrier	Middle Part				
Normality							33																				T	ľ								
Note: Note: <td< td=""><td></td><td></td><td>000</td><td></td><td></td><td></td><td>22</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			000				22																													
			090																																	
Name							12		Ro	ad Formatior	n with 2 lanes	s width of	Permanent R	koad (Ease	em Side)																					
Numerican Numerican 0							07																													
中市市市市市市市市市市市市市市市市市市市市市市市市市市市市市	FHW-4110*	Pipe Laying - Twin DN1400 Watermains (CHE & CHF) along Fanling Highway (90m long, 3m depth)	166	166	10-Feb-14	30-Aug-14	22		-			Pipe Lay	ing: Twin DN	1400 Wat	ermains¢CHE	& CHF) alon	g Fanling H	ghway (90	im lang, 3m	depth)			TT											ΤΠ		
with any base base base base base base base base	FHW-4130	Noise Barrier NB71 & NB72 - Footing adjacent to SB lane (90m)	170	170	16-Jul-14	05-Feb-15 1	01							Noise B	Barner NB71 &	NB72 - Foot	ing adjacent	to SB lane	e (90m)																	
in strend	FHW-4150	Road Formation (Hard Shoulder), Road Drainage, Kerb and Pavement (Eastern Side)	156	156	25-Nov-14	11-Jun-15 3	05								r i i i i i i i i i i i i i i i i i i i	oad Formatic	oh (Hard Sho	ouker), Ro	ad Drainage	, Kelb and	l Pavement	(Eastern S	side)													
initial Works Dress Stars Tests Intelling initial Works Dress Stars Tests Tests Intelling initial Works	FHW-4140*	Pipe Laying - DN600, DN1200 Watermains (CHB &CHC) along Fanling Highway (90m long, 3m denth)	221	221	06-Sep-14	11-Jun-15 6	76									ipe Laying - E	N600, DN1	200 Wate	rmains (CHE	8&CHC) al	long Fanlin	g Highway	(90m lan	3m dep	n)											
Print doi: 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10	FHW-4160	Footpath, DSD Access Track adjacent to SB ia ne	60	60	12-Jun-15	22-Aug-15 7	17								-	Fo	apath, DSD	Access Tra	ack adja cent	to SB lane																
中市4 0 中<10	FHW-4200	Road Formation, Road Drainage & Kerb (Western Side)	112	112	14-Jan-16	06-Jun-16 4	15													Roa	ad Formati	on, Road I	Drainage i	s Kerb (W	/estern Sid	le)										
Image: Note: Section: Note: Section: Note: Section:			80		25-Jun-16		37		Noo Barte NBBA Fooing #														bing at ce	ntral media	in (40m)											
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中W 9000 HW 90000 HW 9000 HW 9000 <td>Kiu Tau Footbridge</td> <td>Reprovision (East)</td> <td>329</td> <td>329</td> <td>25-Nov-14</td> <td>08-Jan-16 1</td> <td>03</td> <td></td> <td colspan="14">KT493 - Piling Mode 2</td> <td></td>	Kiu Tau Footbridge	Reprovision (East)	329	329	25-Nov-14	08-Jan-16 1	03		KT493 - Piling Mode 2																											
中いいののの Ponon	FHW-5000B	KT-AB2 - Piling Works 1	30	30	25-Nov-14	31-Dec-14	3			CER3 -Piling Works 2																										
	FHW-5000D	KT-P3 - Piling Works 2	40	40	02-Jan-15	17-Feb-15 1	03		KTPD - Ping Wone 2 KTPAS - Ping Wone 3 KTAS2 - Ping Wone 3 KTAS2 - Ping Wone 3																											
FW 3000 CFR-PBrg Work4 0 <td>FHW-5000A</td> <td>KT-AB1 - Piling Works 3</td> <td>30</td> <td>30</td> <td>18-Feb-15</td> <td>31-Mar-15 1</td> <td>03</td> <td></td> <td></td> <td colspan="14" rowspan="8">Image: NCFB - Piling Works 2 Image: NCFB - Piling Works 3 Image: NCFB - Piling Works 3 Image: NCFB - Piling Works 3 Image: NCFB - Piling Works 4 Image: NCFB - Piling Works 4 Image: NCFB - Piling Works 4 Image: NCFB - Piling Works 5 Image: NCFB - Piling Works 5</td> <td>†</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td>1</td>	FHW-5000A	KT-AB1 - Piling Works 3	30	30	18-Feb-15	31-Mar-15 1	03			Image: NCFB - Piling Works 2 Image: NCFB - Piling Works 3 Image: NCFB - Piling Works 3 Image: NCFB - Piling Works 3 Image: NCFB - Piling Works 4 Image: NCFB - Piling Works 4 Image: NCFB - Piling Works 4 Image: NCFB - Piling Works 5 Image: NCFB - Piling Works 5														†									+		1	
PHW-3000 ft/93 - PBc Cap & Per 75	FHW-5010B	KT-AB2 - Pile Cap & Pier	75	75	02-Jan-15	10-Apr-15 2	19																													
PHW 9000 rtP2-Perg Works 30 20 24Maptify 29.Aartify 10 <td< td=""><td>FHW-5000E</td><td>KT-P4 - Piling Works 4</td><td>40</td><td>40</td><td>01-Apr-15</td><td>22-May-15 1</td><td>03</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	FHW-5000E	KT-P4 - Piling Works 4	40	40	01-Apr-15	22-May-15 1	03																													
PHW 4000C kTP2-Perg Works 5 30 20 400-15 20 400-15 100 <td>FHW-5010D</td> <td>KT-P3 - Pile Cap & Pier</td> <td>75</td> <td>75</td> <td>18-Feb-15</td> <td>29-May-15 1</td> <td>79</td> <td></td>	FHW-5010D	KT-P3 - Pile Cap & Pier	75	75	18-Feb-15	29-May-15 1	79																													
PHW 5012A KTAB1-Pie Cap & Pier 0 <							03																													
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IWP04Page 6 of 2430-Jan-14											IWPO)4				Pa	ge 6	of 2	4				30	-Jai	<u>n-14</u>										L	

	Activity ID	Activity Name	OD RI	Start	Finish	TF				2014					2015				2016				2017			21	018			2019
	FHW-5010E	KT-P4 - Pile Cap & Pier	75 7	5 23-May-15	21-Aug-15	109	A S Oct N	V D Jan	F Mar Apr	M Jun Jul 7	A S Oct	N Dec Ja	an F Mar	Apr M Ju				Mar Apr N	/ Jun Jul /	SOd	N Dec Jan	F Mar Apr	M Jun Jul	A S Oct	ov D Jan F Mar.	Apr M Jun	Jul A	S Oct N E	ec Jan F Ma	Ir Apr M Jun Jul A
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	FHW-5010C	KT-P2 - Pile Cap & Pier	75 7	5 30-Jun-15	25-Sep-15	103										КТ-Р2 - Рі	e Cap & Pie													
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	FHW-5100	Demolition of Existing Structure and Site Clearance	45 4	5 27-Jan-14	26-Mar-14	14		1	Den	olition of Existin	g Structure a	and Site Cle	sarance																	
	FHW-5120		0	0 04-Oct-14		161					• Int	plementatio	n of TTA - S	Schemie Et (s	hifting TWSR	East to new o	ompleted ro	àd near Fànli	ing Highway)											
• Create (Answer) • Cr	FHW-5110*	Pipe Laying & Connection - Twin DN1400 Watermains (CHE & CHG) adjacent to existing TWSRE (90m, 9m depth)	186 18	6 10-Apr-14	24-Nov-14	3						🗖 Pipe L	aying & Co	nnection - Tw	in DN 1400 W	atermains (CH	E&CHG)	adjacent to e:	xisting TWSRI	(90m, 9m de	epth)									
Marcine device from the strength of the strengt	FHW-5130	Noise Barrier NB73 - Mini-Piling adjacent to SB lane (18nos)	54 5	4 04-Oct-14	05-Dec-14	161						Nois	se Barrier NI	873 - Mini-Pili	ng adjacent to	SB lane (18n	os													
Note: Not:: Not:: Not:: Not:: Not:: <th< td=""><td>FHW-5170</td><td>Completion of Demolition of existing control valve house</td><td>0</td><td>D</td><td>24-Sep-15</td><td>113</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Completion</td><td>n of Demoli</td><td>tion of existin</td><td>g control valve</td><td>house</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	FHW-5170	Completion of Demolition of existing control valve house	0	D	24-Sep-15	113										Completion	n of Demoli	tion of existin	g control valve	house										
	FHW-5140	Noise Barrier NB72 & NB73 - Footing adjacent to SB lane (130m)	240 24	0 17-Jan-15	12-Nov-15	74							<u> </u>			No	ise Barner N	B72 & NB73	3 - Footing adj	acient to SB la	ane (130m)									
	FHW-5160	Demolition of existing Kiu Tau Footbridge	65 6	5 09-Jan-16	05-Apr-16	103		÷										Dem	olition of existi	ng Kiu Tau Fo	ootbridge									
with with with with with with with with	FHW-5150*		312 31	2 18-Mar-15	12-Apr-16	432												Pip	e Laving - DN	200 &DN600	0 Watermain:	CHB & CHC) along existing	TWSRE (120	long. 3m depth):					
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Image: Section of Section Sectin Section Section Section Section Section Section Sectio	FHW-5310	Permanent Road Drainage (Western Side)	165 16	5 13-Jan-17	09-Aug-17	67															=			Permanent I	Road Drainage (Wester	n Side)				
First 0 Read Presents in Solution (Signed Present Signed Present	Fanling Highway Zo	ne 6 between CH7600 and CH7660 (Existing Vehic ular Bridge)	957 95	7 07-Aug-14	08-Nov-17	67																								
With the last N25-Facily against 5.8 bit (56) 0 0 0.444 0.446 <td>At-Grade Roadwork</td> <td>ks (60m)</td> <td>957 95</td> <td>7 07-Aug-14</td> <td>08-Nov-17</td> <td>67</td> <td></td>	At-Grade Roadwork	ks (60m)	957 95	7 07-Aug-14	08-Nov-17	67																								
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Print 22* Print 2000 Wateringtic (264 C-C) (2000 Wateringtic (264 C-	FHW-6110	Noise Barrier NB73 - Footing adjacent to SB lane (75m)	166 16	6 02-May-15	18-Nov-15	192										N	oise Bamer	NB73 - Foloti	ng adjacent to	SB lane (75n	n)									
Image decision Image	FHW-6130	Remaining Road Formation, Road Drainage & Kerb (Eastern Side)	75 7	5 19-Nov-15	24-Feb-16	192												Remaining	Rpad Format	on, Road Dra	ainage & Kerl	(Eastern Side)							
Image decision Image	FHW-6120*	Pipe Laving - DN1200 &DN600 Watermains (CHB & CHC) along existing TWSRE (120m	216 21	6 26-Jun-15	18-Mar-16	449												Pipe La	wina - DN120	8DN600 Wa	atermains (C	HB & CHC) ald	ona existina TV	SRE (120m lør	a. Bm deoth					
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Prive 3:0 Permanent Road Diamage (Wattern 5:66) 75 76 0.0.4g-77 0.000-76 0.00																							Demoition of				ment (vvest	em Side)		
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Address Address <t< td=""><td>FHW-6310</td><td>Permanent Road Drainage (Western Side)</td><td>75 7</td><td>5 10-Aug-17</td><td>08-Nov-17</td><td>67</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Permanent Road Dra</td><td>iinage (West</td><td>rn Side)</td><td></td><td></td><td></td></t<>	FHW-6310	Permanent Road Drainage (Western Side)	75 7	5 10-Aug-17	08-Nov-17	67																			Permanent Road Dra	iinage (West	rn Side)			
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PHW-710 Road Formation and Pavement (Easten Sde) 100 162-dan 14 06-Aug-14 3 PHW-710 Road Formation and Pavement (Easten Sde) 70 <td>At-Grade Roadwork</td> <td>ks (265m)</td> <td>1400 139</td> <td>4 30-Aug-13 A</td> <td>25-Aug-18</td> <td>5</td> <td></td>	At-Grade Roadwork	ks (265m)	1400 139	4 30-Aug-13 A	25-Aug-18	5																								
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HW-7200 Demolston of Easting Central Dakker, Road Formation and Pavement (Western Skie) 75 75 13-Jan-17 21-Agn-17 100 FHW-7200 Permanent Road Damage (Western Skie) 100 13-Jan-17 25-Agn-17 3 HW-7200 Permanent Road Damage (Western Skie) 100 13-Jan-16 222 Permanent Central Barling Highway 45 45 13-Jan-16 222 Permanent Central Barling Highway 45 45 13-Jan-16 222 Permanent Central Barling Highway Actual Work CEEDD Contract No. CV/2012/09 Date Revision Checked Approx	FHW-7110	Road Formation and Pavement (Eastern Side)	160 16	0 16-Jan-14	06-Aug-14	3					Rpad Form	ation and Pa	avement (E							+++										
FHW-73 00 Permanent Road Dankage (Western Skie) 190 <th< td=""><td>FHW-7200</td><td>Road Formation and Road Drainage (Middle Part, Pavement Only)</td><td>70 7</td><td>0 18-Oct-16</td><td>10-Jan-17</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> 🛓</td><td>i i</td><td>oad Formatio</td><td>n and Road D</td><td>ainage (Middle</td><td>Part, Pavement Only)</td><td></td><td></td><td></td><td></td><td></td></th<>	FHW-7200	Road Formation and Road Drainage (Middle Part, Pavement Only)	70 7	0 18-Oct-16	10-Jan-17	3														🛓	i i	oad Formatio	n and Road D	ainage (Middle	Part, Pavement Only)					
FHW-210 Permanent Central Barrier (Mdde Part) 10 120 03 Apr-18 25 Aug-18 5 Miscellaneous Works for Facility Traffic Diversion of Facility Registry Traffic Diversion of Facilit	FHW-7300	Demolition of Existing Central Divider, Road Formation and Pavement (Western Side)	75 7	5 13-Jan-17	21-Apr-17	110																	Demolition of	xisting Central	Divider, Road Formatic	n and Paver	nent (Weste	m Side)		
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FHW-N-1000 Temporary Road for connecting sevened road at Ku Tuu and vehiculer bidge at TWSR East 45 45 19-Nov-15 13-Jan-16 222 Image: CEDD Contract No. CV/2012/09 Date Revision Checked Approx						222		ļ	ļļ					ļļ				ļ				ļ								
Actual Work CEDD Contract No. CV/2012/09 Date Revision Checked Approximation	_																						idealat Theorem	Eart						
	FHW-N-1000	remponency revaid for connecting elevated road at Klu Tau and vehiculer bridge at TWSR East	45 4	19-Nov-15	13-Jan-16	222											Temp	urary Road I	ur connecting	erevated road	u at; kiu Tau a	nd veniculer b	iuge;at TWSR	caSI						
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29-Jan-14 Rev4 Sam Danie							/ .												/					2	9-Jan-14	Rev	1	Sa	am	Daniel
Remaining Work Summary Bar Summary Bar			1			-			Liar	tana	/ 🏎	una	. v	on 14	lai P	CP.	Sito	Ear	mati	on 9	Infr	actru	ictur		1-Dec-13	Rev	3	De	ennis	Daniel
Summary Bar Liantarig / Heurig Tuen war BCF - Site Formation & Intrastructure	806 14	和建筑工程安阳公司	[Summa	ry Bai	r		Lidi	nang	, пе	ung	jiu									aจแ น	icture			_				Daniel
			<u>_</u> I		Critical F	Rema	ining Wo	ork							work	s, Co	ontr	act 3	5							_				Daniel
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Normal Processes Normal Processes<	Activity ID	Activity Name	OD	RD	Start	Finish	TF		_			2014			-		20	015			-			2016						2017			_		2	2018				20	19	=
image: image	Remaining Works for	No ise Barrier along wide ned Fanling Highway	880	880	17-Jan-15	17-Jan-18	10 :	S Oct	N D Ja	n F Mar	Apr M	Jun Jul	ASO	ct N De	ac Jan F	Mar Apr	r M Jun	Jul A	S Oct	t N De	c Jan F	Mar A	pr M J	Jun Jul	AS	Oct N	Dec Jan	F Mar A	√pr M J	un Jul	ASC	Oct Nov	D Jan F	Mar Ap	or M Ju	n Jul	ASC	Dat N De	ec Jan F	Mar Apr	M Jun	ul A
image: image	FHW-NB-120	Noise Barrier Steelworks & Panel for NB6 (123m), adiacent to Fanling Highway SB lanes at	12	12	17-Jan-15	30-Jan-15	394									voise Barrie	er Steelwoi	iks & Pai	nel for NB6	6 (123m).	adiacent	t to Fanlin	na Hiahw	way SB lane	es at Zor	ne 1																
		Zone 1	6				394									Noise Ban	ner Steelw	nrks & P	anel for NF	37 (60m)	adiacent	t to Fanir	na Hiahw	way SB lane	es et Zor	ne1																
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• • • • • • • • • • • • • • •		Zone 1	44				534									NOISE DA	Intel Steen	NOIKS & P	anenoria	570 231	ni, aujau			niney 30 ie																		
mail		Zones 4 & 5					545															T	se;same	er Steelwon	sarran	el tor NB/	r2 (107m),	acqacent	to Faning	g Highway	/ SB lanes	at zones	465									
minit		Zones 5 & 6					040																loise Bar	rrier Steetw	orks & Pa	anet for N	T															
mini- mini mini		Noise Barrier Steelworks & Panel for NB71 (254m), adjacent to Fanling Highway SB lanes at Zones 2,3 & 4	25	25	23-Jun-16	22-Jul-16	450																	м П	loise Bar	nier Steelv		1	11			11										
Number 1 0<	FHW-NB-320	Noise Barrier Steelworks & Panel for NB67 (85m), adjacent to Fanling Highway NB lanes at Zones 2 & 3	9	9	15-Aug-16	24-Aug-16	411																		Nois	e Barrier∜	Steelworks	& Panel f	or NB67 ((85m), adj	jacent to F	anling Hi	ghway NB I	lahes at Z	ohes 2 &	3						
Single description of the second	FHW-NB-330	Noise Barrier Steelworks & Panel for NB69 (109m), adjacent to Fanling Highway NB lanes near LR1 at Zone 3	11	11	25-Aug-16	06-Sep-16	411																		No	oise Barrie	r Steelwoh	ks & Pane	I for NB69	9 (109m),	adjacent t	to Fanling	Highway N	NB lanes r	nelar LIR 1	at Zone	3					
	FHW-NB-310	Noise Barrier Steelworks & Panel for NB66 (57m), adjacent to Fanling Highway NB lanes at Zone 1	6	6	15-Nov-16	21-Nov-16	349																			0	Noise Bain	ier Steelw	orks & Ra	inel for NE	366 (57m),	, adjaceh	t to Fanling	Highway	NB lanes	at Zone	-1					
Arrow Arrow <th< td=""><td>FHW-NB-210</td><td>Noise Barrier Steelworks & Panel for NB68 (77m), between Fanling Highway SB&NB lanes at Zones 1 & 3</td><td>8</td><td>8</td><td>04-Dec-17</td><td>12-Dec-17</td><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>Noise Ba</td><td>antier Steel</td><td>lworks & F</td><td>Panel for</td><td>NB68 (77</td><td>'m), betwe</td><td>er Fanling</td><td>lighway \$</td><td>B&NB lan</td><td>is at Zo</td></th<>	FHW-NB-210	Noise Barrier Steelworks & Panel for NB68 (77m), between Fanling Highway SB&NB lanes at Zones 1 & 3	8	8	04-Dec-17	12-Dec-17	10																									•	Noise Ba	antier Steel	lworks & F	Panel for	NB68 (77	'm), betwe	er Fanling	lighway \$	B&NB lan	is at Zo
• and set and	FHW-NB-220	Noise Barrier Steelworks & Panel for NB68A (279m), between Fanling Highway SB&NB lanes at Zones 2, 3, 8, 4	28	28	13-Dec-17	17-Jan-18	10																										- NO	xise Barrier	r \$teelwor	rks & Par	nel for NB	68Å (279m	n), between f	Fanling Hi	ighway SB	JNB lan
image: intermediation of the interm	At Grade Link Road a		593	593	14-Jan-16	20-Jan-18	7																																			
• • • • • • • • • • • • • • •	Link Road 1 (near Ab	utment AB1)	552	552	08-Mar-16	20-Jan-18	7		•					·+··+··		·	+																	·	+							
•••••••••••••••••••••••••••••	FHI-LR1-1000	Completion of Realigned TWSR West and Utilities Diversion at existing TWSR West	0	0		08-Mar-16	7															• Con	mpletion	of Realign	ed TW SI	R West ar	nd Utilities	Diversion	at existin	TWSR	West											
•••••••••••••••••••••••••••••) 55 55 06-Mar-16 20-Jann-16 7 (a) Readgined TWSR West and Ulitities Diversion at existing TWSR West 0 0 0 7 (a) Readgined TWSR West and Ulitities Diversion at existing TWSR West 12 123 00-Mar-16 7 (a) Relativing Wall 00 12 123 00-Mar-16 7 (b) Relativing Wall 00 19-4Mar-16 7 7 (a) Relativing Wall 05 06-Dece 16 7 (a) Second (COSm) 32 323 14-Jun-16 29-Jul-17 31 (a) Genhock & Transperet Panel - Noise Banter (44m) 30 03 06-Dece16 20-Jun-16 7 (a) Genhock & Transperet Panel - Noise Banter (44m) 30 03 06-Dece16 20-Jun-16 7 (a) Genhock & Transperet Panel - Noise Banter (44m) 30 03 06-Dece16 20-Jun-16 7 (a) Genhock & Transperet Panel - Noise Banter (44m) 30 04 15-Oct16 7 25 (a) Genehold Costelling Costeling Costelling Costelling Costelling Costelling Costell)																						
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1012001 10	FHI-LR2-2000	KAA1) 155 156 15-Oct-16 28 Apr-17 226 Instanting of Readigned TWSR East 0 0 15-Oct-16 226 </td <td>ned TW\$F</td> <td>₹East</td> <td></td>														ned TW\$F	₹East																									
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Pickade Number (D2) 10 1			C1) 185 185 14-Jan-16 01-Sep-16 415 of Traffic from Existing TWSR West to Realigned TWSR West 0 0 14-Jan-16 415 Image: Comparison of Traffic from Existing TWSR West to Realigned TWSR West Image: Comparison of Traffic from Existing TWSR West Im														est																									
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With 100 Note 100% CHARD 100% EAL TVSR Wite (br.1VSR Wite (br.1SR Wite (br.1VSR Wit	WA-1050	Pipe Laying - CHA 420 - 520 (DN450) near Realigned TWSR West (Re-TWSRW: CH530 - 640), 100m long & 2m depth	99	99	15-Mar-14	17-Jul-14	13			-		P1	pe Laying	- CHA 420) 520 (DI	N450) nea	ar Realigne	d TWSR	Rest (Re	TWSRV	V CH530	0 640, 1	100m ldn	ng 8 2m de	pth																	
ing ing </td <td>WA-1040</td> <td>Pipe Laying - CHA360 - 420 (DN450) near Ext. TWSR West, 60m long & 4m depth</td> <td>70</td> <td>70</td> <td>18-Jul-14</td> <td>10-Oct-14</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td> 🛉</td> <td>+</td> <td>Pipe Layi</td> <td>ing - CHA</td> <td>360 - 420</td> <td>(DN450) r</td> <td>near Ext.</td> <td>TWSR W</td> <td>est, 60m</td> <td>long & 4</td> <td>mt de pth</td> <td></td>	WA-1040	Pipe Laying - CHA360 - 420 (DN450) near Ext. TWSR West, 60m long & 4m depth	70	70	18-Jul-14	10-Oct-14	15					🛉	+	Pipe Layi	ing - CHA	360 - 420	(DN450) r	near Ext.	TWSR W	est, 60m	long & 4	mt de pth																				
With 100 Pipe Lung: -CHASD: -SP (DN450) mere Exat WSR W = 6 + WSR	WA-1000	Pipe Laying - CHA 0 - 60 (DN450) near Ext. TWSR West (Re-TWSRW: CH100 - 155), 60m long	58	58	14-Oct-14	19-Dec-14	13						1	++	Pipe La	iying - CH/	4:0 - 610 (DI	N450) ne	ear Ext. TV	VSR Wes	st (Re TW	VSRW: C	CH100 -1	155), 60m	long																	
(e06, dm mg & m age) (m - 100) (m - 100) <td>WA-1030</td> <td>Pipe Laying - CHA 260 - 360 (DN450) near Ext. TWSR West, 100m long & 2m depth</td> <td>65</td> <td>65</td> <td>30-Dec-14</td> <td>23-Mar-15</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td>Pip</td> <td>e Laying -</td> <td>CHA 26</td> <td>0 - 360 (DI</td> <td>N450) ne</td> <td>ar Ext. T\</td> <td>WSR We</td> <td>st 100 m</td> <td>n long & 2n</td> <td>n depth</td> <td></td>	WA-1030	Pipe Laying - CHA 260 - 360 (DN450) near Ext. TWSR West, 100m long & 2m depth	65	65	30-Dec-14	23-Mar-15	7								+	Pip	e Laying -	CHA 26	0 - 360 (DI	N450) ne	ar Ext. T\	WSR We	st 100 m	n long & 2n	n depth																	
Wh 100 Rev Layse Ch4205 C57 (M420) C4205 C57 (M420)	WA-1060	Pipe Laying - CHA 520 - 575 (DN450) near Realigned TWSR West (Re-TWSRW: CH640 - 695). 55m long & 2m deeth	50	50	05-Jun-15	04-Aug-15	3										-	F P	Pipe Laying	g-CHA5	520 - 575	(DN450)	near Re	aligned TV	vsr we	sst (Re-TV)	VSRW: CI		5), 65m (o	ng & 2m	depth											
Image:	WA-1070		140	140	05-Aug-15	21-Jan-16	3		-	+						+	+		- <u>4</u>	i	Pi	pé Laying	g-CHAS	575 - 675 (DN450)	near Ext,			oa dwo ikis)	, 100m lo	ng & 4m c	depth			+	-			-			
An degin And	WA-1080		188	188	22-Jan-16	13-Sep-16	3																		<u> </u>	ipe Laying	g - CHA	75 800 (C	DN450) he	ear Ext. T	WSR Wes	st (NoRp	advorks), 1:	25m long	& 4m de	pth						
an deph Method Work 修 和 建 第 工 程 有 限 公 司 CHUN Wo CONSTRUCTION & ENGINEERING CO, LTD, Milestone Actual Work Remaining Work Milestone Actual Work Actual Work Remaining Work Milestone Actual Work Actual W	WA-1090	Pipe Laying - CHA 800 - 960 (DN450) near Ext. TWSR West (No Roadworks), 160m long &	148	148	14-Sep-16	18-Mar-17	3																					Pi	ipe Laying	- CHAB	00 960 (D	DN450)n	earExt. TV	V\$R West	t (No Roa	dvo iks),	160m løn	ng & 3m;de	pth			
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後和建築工程有限公司 CHUN WO CONSTRUCTION & ENGINEERING CO, LTD. Milestone Summary Bar Critical Remaining Work Milestone Milestone Milestone Liantang / Heung Yuen Wai BCP - Site Formation & Infrastructure Works, Contract 3 Initial Works Programme Rev 4								ork																											-			_		_		
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CHUN WO CONSTRUCTION & ENGINEERING CO., LTD. Milestone Initial Works Programme Rev 4	《《》	和建築工程有限公司					-								5.																				-			De	ennis	D	aniel	
Milestone Initial Works Programme Rev 4	Chr	IN WO CONSTRUCTION & ENGINEERING CO. L	TD			Critical R	emair	ning W	ork									101		00	, i i i i	au										17-9	Sep-1	3	Rev	/1		De	ennis	D	aniel	
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IWP04Page 8 of 2430-Jan-14													.					_	- -								••															
												IWI	P04_						Page	e 8 c	ot 24	4					_30-	Jan	-14													

Activity ID	Activity Name	OD R	D Start	Finish	TF				2014					2015					201	16					2017					201	8			2019	
WA-1100	Pipe Laying - CHA3 0 - 24 (DN450) near Kiu Tau Footbridge, 24m long & 3m depth	42 4	42 20-Mar-17	13-May-17	3 A	S Oct N	D Jan F	Mar Apr	M Jun Jul	A S O	t N Dec	Jan F N	Mar Apr N	/ Jun Jul	ASO	oct N De	ec Jan F	Mar Apr	M Jun	Jul A	S Oct	N Dec	Jan F								Jul A S 1m long & 3m		ec Jan F Ma	ir Apr M	un Jul A
WA-1010	Pipe Laying - CHA 60 - 160 (DN450) near Ext. TWSR West, 100m long & 2m depth	99 9	99 15-May-17	08-Sep-17	3																						pe Laving -	CH460-1	160 (7) N 45	() near Fr		st. 100m long	a 8 2 m depth		
							ļļ																				pe cajing								
WA-1020	Pipe Laying - CHA 160 - 260 (DN450) near Ext. TWSR West, 100m long & 2m depth		99 09-Sep-17	09-Jan-18	3																							Pipe	Laying - C	HA 160 - 21	30 (DN450) i	iear Ext. TW	/SR West, 100	milong & 2m	depth
WA-2000	Pressure Testfor CHA	14 1	14 10-Jan-18	25-Jan-18	3																							E Pr	essure Te s	for CHA					
DN600 Water Mains		608 60	08 01-Sep-14	26-Sep-16	330																														
WB-1090	Pipe Laying - CHB 756 - 849 (DN600) near Realigned TWSR East (along Slip Road A), 93m long & GL	89 8	89 04-Oct-14	19-Jan-15	98							🗖 Pipe L	Laying - C⊦	IB 756 - 849	(DN600) n	ear Realig	ned TWSR	East(aloo	g Slip Roa	ad A), 93	n long &	GL													
WB-1070	Pipe Laying - CHB 635 - 700 (DN600) near Realigned TWSR East (TWSRE: CH380-456),		60 16-Dec-14	05-Mar-15	164								Pipe Layi	ng - CHB 63	5 - 700 (DN	1600) near	Realigned	TWSR E	st (TWSR	E: OH380	0-456), 65	\$m long &	GL												
WB-1080	65m long & GL	55 5	55 20-Jan-15	31-Mar-15	732		<u> </u>						Pine	Laving - CH	B 700 - 756	(DN600) r	near Realig	hed TWS	R Fast (alc	na Roun	dabout)	56m Jona	8 GI						<u></u>						
WB-1000	Pipe Laying - CHB 700 - 756 (DN600) near Realigned TWSR East (along Roundabout), 56m long & GL			00 11-115	687											450 (04)	600) near F		hway S/B	(TUN) 0		290), 153			with NB)										
	Pipe Laying - CHB 0 - 153 (DN600) near Fanling Highway S/B (FHW: CH7130-7290), 153m long (common trench with NB)		08 01-Sep-14	20-May-15										i Pipe Lay	ng - CHB 0	 - ιδο (ωινα 	ouu) near r	aniing nig	riway 5/D	(ГПИУ. С		290), 153		mmon uenc	NULL ND)										
WB-1020	Pipe Laying - CHB 245 - 335 (DN600) near Fanling Highway S/B (FHW: CH7380-7470), 90m long (common trench with NB)	221 22	21 06-Sep-14	11-Jun-15	676							11		Pipe L	aying - CHI	B 245 - 335	5 (DN600) (lear Fanlir	ng Highwa	iy S/B (Fit	IW: CH7	380-7470	, 90 m lor	g (cammon	rénch with	NB)									
WB-1060	Pipe Laying - CHB 538 - 635 (DN600) near Realigned TWSR East (TWSRE: CH270-380), 97m long & GL	109 10	09 06-Mar-15	20-Jul-15	164							6			Pipe Laying	- CHB 53	8 - 639 (DN	600) nea	Realigned	d TWSR 8	East (TW	SRE CH	270-380),	97m long &	GL										
WB-1050	Pipe Laying - CHB 510 - 538 (DN600) near Realigned TWSR East (acrossTWSRE CH100-270), 28m long & 5m depth	110 11	10 21-Jul-15	28-Nov-15	535											P	ipe Laying	CHB 51) - 538 (D	N600) nee	ar Realigr	ed TW SF	t East (a	rossTWSRE	CH100-2	0), 28m k	ng & 5m de	pth							
WB-1040	Pipe Laying - CHB 450 - 510 (DN600) near Fanling Highway S/B (FHW: CH7600-7660), 60m long (common trench with NB)	216 21	16 26-Jun-15	18-Mar-16	449		†				111							Pipe	Laying - C	HB 450	510 (DN	600) neai	Faning	lighway \$/B	(FHW: CI	7600-766	0), 60m løn	common	trench wit	h NB)					
WB-1030	Pipe Laying - CHB 335 - 450 (DN600) near Fanling Highway S/B (FHW: CH7470 -7600). 115m long (common tench with NB)	312 31	12 18-Mar-15	12-Apr-16	432								<u> </u>					P	ipe Laying	- CHB 3	35 - 450	DN600) I	ear Fanl	ng Highway	S/B (FHW:	CH7470-	'600), 115m	long (com	inon rend	h with NB					
WB-1010	Pipe Laying - CHB 153 - 245 (DN600) near Fanling Highway S/B (FHW: CH7290-7380), 92m	324 32	24 10-Jul-15	13-Aug-16	330															_	Pipe Layin	lg - CHB	53 - 245	(DN600) nei	r Fanling I	lighwlay S	B (FHW: CI	172 90 738	30), 92m lc	ng (commy	an triench with	NB)			
WB-2000	long (common trench with NB) Pressure Test for CHB		21 15-Aug-16	07-Sep-16	330																Press	ne Testfo	снв												
		7	-		330																														
WB-2010	Cleaning & Sterilization	<i>'</i>	7 08-Sep-16	15-Sep-16																	U Ciea	ning a su	niizapon												
WB-2020	Water Sampling	7	7 17-Sep-16	24-Sep-16	330																Wa	ter Sampl	ing												
WB-2030	Connection to Existing Mains	1	1 26-Sep-16	26-Sep-16	330																I Co	nnection t	o Existing	Mains											
DN1200 Water Main	ns (CHC)	758 75	58 27-Jan-14	30-Aug-16	417																														
WC-1020A	Implementation of TTA - Scheme W1	0	0 27-Jan-14		42		• II	nplementati	on of TTA - Sch	neme W1																									
WC-1040	Receiving Pit for Twins DN1200 (CHC)	50 5	50 10-Feb-14	09-Apr-14	3				eceiving Pit for	Twins DIN12	00 (CHC)																								
WC-1020B	Jacking Pit for Twins DN1200 (CHC) at existing TW SRW	60 6	60 27-Jan-14	14-Apr-14	42		+	÷	lacking Pt for T	wins DN 120	0 (CHC) at	existing TV	// SRW												+				+					+	
WC-1000	Pipe Laying - CHC 0 - 35 (DN1200) near Realigned TWSR West (TWSRW: CH100-155),	39 3	39 26-Aug-14	13-Oct-14	13					<u> </u>	Pipe Laying	g - CHC D	- 35 (DN12	200) near Re	aligned TW	/SR West ((TWSRW:	CH100-15	5), 35m ko	ng & 3m	depth														
WC-1030A	35m long & 3m depth Excavation - CHC 100 - 155 (DN1200) across Fanling Highway by Trenchless Method, 110m	169 16	69 15-Apr-14	08-Nov-14	116						Excava	ation - CHC	C 100 - 155	(DN1200)	across Fanli	ng Highwa	y by Trench	less Meth	od, †10m l	long for 2	shatts														
WC-1030B	long for 2 shafts Pipe Laying - CHC 100 - 155 (DN1200) across Fanling Highway & associated Grouting Works	46 4	46 10-Nov-14	05-Jan-15	116							Pipe La	ving - CHC	100 - 155 (DN1200) ac	ross Fanlir	ng Higbway	& associa	ted Grout	ina Works	s														
WC-1150	Pipe Laying - CHC 1030 - 1123 (DN1200) near Realigned TWSR East (along Slip Road A),		89 04-Oct-14	19-Jan-15	98							Pine I		IC 1030 - 1	23 (0N120	(I) near Re	aligned TA	SR Fact	along Sin	Road A	93 0 100														
WC-1130	sam long & GL		78 16-Dec-14	26-Mar-15	00		ļļ							aying - CHC											ļ				ļ						
	Pipe Laying - CHC 910 - 980 (DN1200) near Realigned TWSR East (TWSRE: CH380-456), 70m bng & GL				104																														
WC-1140	Pipe Laying - CHC 980 - 1030 (DN1200) near Realigned TWSR East (abng Roundabout), 50m long & GL		55 20-Jan-15	31-Mar-15	221								Pipe	Laying - CH																					
WC-1060	Pipe Laying - CHC 235 - 420 (DN1200) near Fanling Highway S/B (FHW: CH7130-7290), 185m long (common trench with NB)	208 20	08 01-Sep-14	20-May-15	500									Pipe Lay	ng - CHC 2	35 - 420 (D	0N1200) ne	ar Fanling	Highway	S/B (FHV	V: CH713	0-7290),	185m Ion) (common t	einch with I	IB)									
WC-1080	Pipe Laying - CHC 510 - 600 (DN1200) near Fanling Highway S/B (FHW: CH7380-7470), 90m long (common trench with NB)	221 22	21 06-Sep-14	11-Jun-15	676					-				📫 Pipe L	aying - CH	C 510 - 60	0 DN 1200	near Fan	ling Highw	vay S/B (F	HW: CH	7380-747	0), 90 m li	ing (commor	trench wit	NB)									
WC-1120	Pipe Laying - CHC 810 - 910 (DN1200) near Realigned TWSR East (TWSRE: CH270-380), 100m long & GL	91 9	91 27-Mar-15	20-Jul-15	164								÷	÷	Pipe Laying	- CHO 81	0-910 (DI	1200) ne	ar Realign	ed TWSR	R East (T∖	VSRE: C	1270-380), 100m long	& G L										
WC-1110	Pipe Laying - CHC 775 - 810 (DN1200) near Realigned TWSR East (across TWSRE:	111 1	11 21-Jul-15	30-Nov-15	621		†				1			-	·····	P	Pipe Laying	CHC 77	5 - 810 (D	N1200) n	ear Reali	gned TW	SR East (acio sis TW Si	E: CH100	270); 35n	long & 7m	depth	1						
WC-1050	CH100-270), 35m long & 7m depth Pipe Laying - CHC 155 - 235 (DN1200) near Fanling Highway S/B (FHW: CH6935-7130),	182 18	82 21-May-15	28-Dec-15	500											++	Pipe La	ying CH	C 155 - 28	5 (DN120	00) near F	anling Hi	ghwaly S/	3 (FHW: CH	6935-7130	80 m lon), 4nh depth								
WC-1100	Sum long, 4m deptn Pipe Laying - CHC 720 - 775 (DN1200) near Fanling Highway S/B (FHW: CH7600-7660).	216 21	16 26-Jun-15	18-Mar-16	449													Pipe:	Laying - C	HC 720	775 (DN	120 0) ne	ar Fahling	Highway, S/	STHW: C	H7600-76	50), 55 m for	ig (camma	n trench w	th NB)					
WC-1090	Som long (common trenon with NB)		12 18-Mar-15	12-Apr-16	432														hpe Laving		ľ			ling Highwar						-	2)				
WC-1090 WC-1010	Pipe Laying - CHC 600 - 720 (DN1200) near Fanling Highway S/B (FHW: CH7470-7600), 120m long (common trench with NB) Pipe Laying CHC 55 - 100 (DN1200) near avirting TWSPW 6 En long # 3m don'th		99 14-Jan-16	21-May-16	497																			i existing TW											
	Pipe Laying CHC 35 - 100 (DN1200) along existing TWSRW, 65m long & 3m depth				407														- npe																
WC-1070	Softward Softward														Highway	ыв (FHW): (J17290-73	ευ), 90 m (ong (comm	.an trench wit	n NB)														
WC-2000																																			
DN1400 Water Main																																			
WD-1000	Pipe Laying - CHD 0 - 60 (DN1400) near Fanling Highway S/B	60 6	60 15-Apr-14	30-Jun-14	42				Pip	e Laving C	HD 0 - 60 (C	DN1400) n	near Fanling	g Highway S	в																				
												<u> </u>) Co	ntre			~	1204	1.2/0	0						T	Date	—	R	evision		hecked	App	roved
				Actual W	/ork							C	EDI		ontra	act	NO.	C V/	201	12/0	19							an-14		Rev4		Sa		Dani	
				Remaini	ng Woi	ĸ										_	.	_			-							ec-13		Rev3			ennis	Dani	
				Summar	y Bar			Liar	ntang	j / He	eung	gΥι	uen							atio	n 8	k In	tra	struc	tur	е		Oct-13						-	
	和建築工程有限公司			Critical F	-	na Wo	ork							Wo	orks	, Co	ontra	act	3											Rev2			ennis	Dani	
Сн	IUN WO CONSTRUCTION & ENGINEERING CO., L	TD.																										ep-13		Rev1			ennis	Dani	
			• •	Mileston	е							Ini	itial	Wo	rks	Pro	ara	nm	e R	ev .	4						09-J	ul-13	$ \rightarrow$	Rev0		An	nselm	Dani	el
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Activity ID	Activity Name	OD	RD Start	Finish	TF	2	014		2015		2016				2017			2018				2019
WD-2000	Pressure Test for CHD	14	14 02-Jul-	4 17-Jul-14	A S Oα N D J 42	an F Mar Apr M Ju	Jul A S Oct N Dec Ja	in F Mar Apr 1	Jun Jul A S Oct	N Dec Jan F Mar /	Apr M Jun Ju	JIA S (Oct N Dec	Jan F Mar	Apr M Jun Jul	A S Oct N	lov D Jan F Mar	Apr M Jun Jul	A S Oct	N Dec Jan	F Mar A	or M Jun Jul A
WD-2010	Chapter Ostilization & COTI (Instable	18	18 18-Jul-	4 07 4	40		Deaning, Sterilization &	dominante											ļļ	·	-	
	Cleaning, Sterilization & CCTV Inspection				42			CCTV inspection														
WD-2020	Water Sampling	7	7 08-Aug	14 15-Aug-14	42		Water Sampling															
WD-2030	Connection to Existing Mains	1	1 16-Aug	14 16-Aug-14	42		Connection to Existin	Mains														
Twin DN1400 Water	Mains (CHE & CHG)	236	236 10-Feb	4 24-Nov-14	3																	
WE-1000	Pipe Laying - CHE & CHG 0 - 45 (Twins DN1400) near Fanling Highway S/B (FHW: CH7130-7290), 45m long & 6m depth	80	80 10-Feb	4 20-May-14	18	Pip	e Laying - CHE & CHG 0 - 45 (T	wins DN1400) nea	Fanling Highway S/B (FH	W: CH7130-7290), 45m I	ong & 6m depth											
WE-1020	CH7130-7290), 45m long & 6m depth Pipe Laying - CHE & CHG 135 - 225 (Twins DN1400) near Fanling Highway S/B (FHW:	166	166 10-Feb		22		Pine Laving - CHE		īvens DIN1400) near Fanlir	a Hiabway S/B (EHW) (1	H7380-7470 9	0m long & 3r	n deoth							·	-	
	CH7380-7470), 90m long & 3m depth																					
WE-1010	Pipe Laying - CHE & CHG 45 - 135 (Twins DN1400) near Fanling Highway S/B (FHW: CH7290-7380), 90m long & 3m depth	90	90 21-May		18				wihs DN1400) near Fanlin													
WE-1030	Pipe Laying - CHE & CHG 225 - 315 (Twins DN1400) near Fanling Highway S/B (FHW: CH7470-7600), 90m long & 8m depth	135	135 10-Apr-	4 23-Sep-14	3		Pipé Laying - C	HE & CHG 225 13	5 (Twins DN 1400) near F	anling Highway S/B (FHW	CH7470-7600)), 90m long 8	& 8nh depth									
WE-2000A	Pressure Test for CHE	14	14 24-Sep	14 11-Oct-14	3		Pressure Tes	t for CHIE														
WE-2000B	Pressure Testfor CHG	14	14 24-Sep	14 11-Oct-14	9		Pressure Tes	for CHG														
WE-2010A	Cleaning, Sterilization & CCTV Inspection for CHE	18	18 13-Oct-	4 01-Nov-14	3	+++++++++++++++++++++++++++++++++++++++	🗖 Cleaning,	Sterilization & CC1	V Inspection for CHE								-+-+-		++	~++++	(
WE-2010B	Cleaning, Sterilization & CCTV Inspection for CHG	18	18 13-Oct-	4 01-Nov-14	9		🔲 Cleaning.	Sterilization & CC1	V Inspection for CHG													
WE-2020A	Water Sampling for CHE	7	7 03-Nov	4 10-Nov-14	3		1 WaterS	ampling for CHE														
WE-2020B	Water Sampling for CHG	7	7 03-Nov					ampling for CHG														
WE-2030A	Valve, Chamber Inspection & Testing, Connection to Existing Mains (CHE)	20	20 25-Oct-	4 17-Nov-14	3			Chamber Inspectio														
WE-2030B	Valve, Chamber Inspection & Testing, Connection to Existing Mains (CHG)	20	20 01-Nov	4 24-Nov-14	3		Valve,	Champer Inspection	n & Testing: Connection to	Existing Mains (C(HG)												
DN2200 Water Mains	s (CHF)	100	100 18-Aug	14 15-Dec-14	164																	
WF-1000	Pipe Laying - CHF 0 - 112 (DN2200) near ext. TWSR West	60	60 18-Aug	4 29-Oct-14	42		Pipe Layir	g CHF0 112 (D	V2200) near ext. TWSR V	Vest												
WF-2000	Pressure Test for CHF	14	14 30-Oct-	4 14-Nov-14	164		Pressur	e Test for CHF														
WF-2010	Cleaning, Sterilization & CCTV Inspection for CHF	18	18 15-Nov	4 05-Dec-14	164		🗖 Clea	ning. Sterilization &	CCTV Inspection for CHF													
WF-2020	Water Sampling	7	7 06-Dec		404			ter Sampling												·	-	
					104																	
WF-2030	Connection to Existing Mains	1	1 15-Dec	14 15-Dec-14	164		I Ca	nnection to Existin	Mains													
DN2300 Water Mains	s and Leakage Collection System (CHJ & CHKA/CHK)	364	364 04-Oct-	4 28-Dec-15	235																	
WJ-1050	Pipe Laying - CHJ 200 - 279 (DN2300) near Realigned TWSR East (along Slip Road A), 79m long & GL	68	68 04-Oct-	4 22-Dec-14	98		P	pe Laying - CHJ 2	0 - 279 (DN2300) near R	aligoed TWSR East (alor	ng \$lip Road A),	79m long &	GL									
WJ-1010	Pipe Laying - CHJ 50 - 88 (DN2200) near existing TW SR East, 38m long & 6m depth	82	82 04-Oct-	4 24-Dec-14	152		P) -88 (DN2200) near exist													
WJ-1040	Pipe Laying - CHJ 170 - 200 (DN2300) near Realigned TWSR East (along Roundabout), 30 m	42	42 23-Dec	4 12-Feb-15	235	+			GHJ 170 - 200 DN2300	near Realigned TWSR E		ndebout), 30 r	m long & GL								<u></u>	
WJ-1100	long & GL DN300 Washout at CHJ 72	45	45 27-Deo	4 18-Feb-15	115			DN300 Wa	houtat CHJ 72													
WJ-1030	Pipe Laying - CHJ 88 - 170 (DN2300) near Realigned TW SR East, 82m long & 3m depth	104	104 13-Feb	15 29-Jun-15	235				Pida Latina CH	J 88 - 170 (DN2300) near	Roland TW	CD E- 4 070	n hha 8 3m d	onth								
					235																	
WJ-1020A	Pipe Laying - CHK 0 - 80 (DN1400) near RealignedTWSR East, 80m long & 4m depth		112 26-Feb		115					HK 0 - 80 (DN1400) nea	r Réaligned TWS	SR East, 80m	n long & #m d	epth								
WJ-1110	DN300 Washout at C HJ 155	20	20 30-Jun-	5 23-Jul-15	235				DN300 Wash	outatCHJ155												
WJ-1020B	Pipe Laying - CHKA 0 - 73 (DN1400) near Realigned TWSR East, 73m long & 4m depth	65	65 16-Jul-	5 18-Sep-15	138				Pipe	Laying - CHKA0 - 73 (Dr	11400) near Rei	aligned TWS	R East, 73m	ong & 4m de	pth							
WJ-2000A	Pressure Test for CHK/CHKA	7	7 19-Sep	15 26-Sep-15	264				0 Pre	ssume Testfor CHK/CHKA												
WJ-1000	Pipe Laying - CHJ 0 - 50 (DN2200) near Fanling Highway S/B, 50m long & 5m depth	78	78 24-Jul-	5 26-Oct-15	235				: 	Pipe Laying -CHJ 0 - 50) (DIN2200) neai	r Ranling Hig	hwaly S/B, 50	n long & 5m	depth							
WJ-2000B	Pressure Testfor CHJ	7	7 27-Oct-	5 03-Nov-15	235					Potessure Test for CHJ												
WJ-2010	Cleaning, Sterilization & CCTV Inspection	18	18 04-Nov	15 24-Nov-15	235					🔲 Cleaning, Sterilizati	on & CCTV In sn	ection										
WJ-2020	Water Sampling	7	7 25-Nov		235	+				Mater Sameling								<u> </u>			-	
WJ-2030	Valve, Chamber Inspection & Testing, Connection to Existing Mains		20 03-Dec		235					🔲 Valve, Çhamb	er Inspection &	resting, Coh	nection to Ex	sting Mains								
Kau Lung Hang Valv	re Control & Telemetry House Reprovision	486	486 27-Jan-	4 24-Sep-15	113																	
VCTH-1000	Civil Works Construction	150	150 27-Jan-	4 05-Aug-14	136		Civil Works Constructio															
VCTH-1010	BS and E&M Works	240	240 02-Sep	4 30-Jun-15	113				BS and E&N Wo	rks												
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				Actual V	/ork			CED	O Contra	ct No. C	//201	2/09				_	Date		ision	Chec		Approved
				Remaini	ng Work												9-Jan-14	Rev4		Sam		Daniel
				Summai	•	Lianta	ng / Heung	Yuen	Wai BCF	- Site F	orma	tion	& In	frast	ructure		1-Dec-13	Rev3		Denni		Daniel
人人人	和建築工程有限公司				-					Contrac						2	3-Oct-13	Rev2		Denni	s	Daniel
Сн	UN WO CONSTRUCTION & ENGINEERING CO., L	TD.		Critical F	Remaining Work					5511140						1	7-Sep-13	Rev1		Denni	s	Daniel
			◆	 Mileston 	е			lm [4] = 1	Marles 5							0	9-Jul-13	Rev0		Anseli	m	Daniel
								initial	Works P	rogram	ne Ke	₹V 4										
							WP04		Page	10 of 24_			;	30-Ja	n-14					<u>ــــــــــــــــــــــــــــــــــــ</u>		

Activity ID	Activity Name	OD	RD	Start	Finish TF					014					2015						2016			1		2	017				2018				2019	
VCTH-1020	Testing and Commissioning	28	28	02-Jul-15	03-Aug-15 113	A S Oct	N D Jan	F Mar A	Apr M Ju	1 Jul A	S Oct N	N Dec Ja	an F M	lar Apr I			g and Com			Apr M	Jun Jul 7	A S O	oct N De	ec Jan F	Mar Api	M Jun	Jul A	S Oct N	lov D Jan F Mai	r Apr M J	un Jul	A S Oc	t N Dec	Jan F Ma	Apr M J	in Jul A
VCTH-1030	Demolition of Existing KLH Valve Control & Telemetry House	45	45	04-Aug-15	24-Sep-15 113											-	Demoliti	ipn of Exi	sting (KLH)	/alve Con	trol & Telem	etry Hous	se													
Existing Nam Wa Po	Trunk Sewage Pumping Station (PST3)	45	45	26-Aug-14	20-Oct-14 963																															
PS-1000															I of Pumpin																					
	Demolition of Existing Boundary Wall of Pumping Station (PST3)	15															T Ľ																			
PS-1010	Construction of New Boundary Wall for Pumping Station (PST3)	30	30	13-Sep-14	20-Oct-14 963							onstruction	in of New I	Boundary	Wall for Pu	Imping S	tation (PST	3)																		
Demolition of Existin	g Structures	60	60	27-Jan-14	14-Apr-14 1115																															
DE-1020	Demolition of Existing Structure at Land License No. STT1372	20	20	27-Jan-14	25-Feb-14 14		¢	Demo	olition of E	isting Structu	ire at Land	I License I	No. STT1	372																						
DE-1000	Demolition of Existing Structure at Land License No. MOT36366	20	20	26-Feb-14	20-Mar-14 388			Þ	emolition o	f Existing Str	ucture at L	and Licen	nse No. M	10736366																						
DE-1010	Demolition of Existing Structure at Land License No. MOT34712	20	20	21-Mar-14	14-Apr-14 1115				Demblit	on of Existing	Structure	at Land L	License No	0. MOT34	712																					
Stage 1A - Realignm	ent of Tai Wo Service Road West (KD-7)	697	670	15-Oct-13A	08-Mar-16 7																															
	eeen CH100 and CH155	548			02-Sep-15 111																															
At-Grade Roadwork	S	548	521	16-0a-13A	02-Sep-15 111																															
TWSRW-1110	Site Clearance	6	6	24-Dec-13	02-Jan-14 13		D Si	e Clearano	æ																											
TWSRW-1100	Tree Survey, Tree Felling and Transplanting	81	48	16-Oct-13 A	18-Jan-14 13	-		free Survey	y, Tree Fell	ng and Trans	planting, T	ree Surve	∋y, Tnee Fe	elling and	Transplanti	ng																				
TWSRW-1120	Noise Barrier NB4 - Footing adjacent to Realigned TWSR West (48m)	85	85	11-Jan-14	02-May-14 13				🔲 Noise	Barrietr NB#	- Footing a	adjacent ti	to Realign	ied TW\$F	West (48m	na)																				
TWSRW-1130	Laying of Southern Trunk Sewer (West)	95	95	03-May-14	25-Aug-14 13		-				aying of S	Southern 1	Trunk Sew	ver (West)																			+			
TWSRW-1140*	Pipe Laying - DN450 & DN1200 Watermains (CHA & CHC)	97	97	26-Aug-14	19-Dec-14 13							- Pi	ipe Laying	- DN450	& DN1200	Waterm	ans (CHA	& CHC)																		
TWSRW-1150	Installation of Cable Ducts for Utilities Diversion Works at Area 1 (Approx. 100m) (by utilities	154	154	20-Dec-14	22-May-15 40										Instellati	ion of Ca	hie Ducts f	or I Itilitio	Diversion	Works at	Area 1 (App	mr 1000	n) (hv utiliti		(male											
	undertakers)											T											ii) by diiib													
TWSRW-1160	Road Formation, Road Drainage, Kerb, Planter & Pavement	85	85	23-May-15	02-Sep-15 111												Road Form	ation, Ro	ad Diainag	je, Kerb, F	Planter & Pa	wernent														
TWSRW Zone 2 betw	eeen CH155 and CH280	514	514	13-Mar-14	08-Dec-15 31																															
At-Grade Roadwork	s	514	514	13-Mar-14	08-Dec-15 31																															
TWSRW-2100	Mass Concrete Wall (FL/RW3)	35	35	13-Mar-14	26-Apr-14 131				Mass	Concrete Wa	I (FL/RW3)																								
TWSRW-2110	Noise Barrier NB4 - Footing adjacent to Realigned TWSR West (60m)	85	85	03-May-14	13-Aug-14 127					No.	ise Banier	NB4 - Fo	ooting adja	acent to F	ealigned T	WSR We	st (60m)																			
TWSRW-2120	Road Formation, Road Drainage, Kerb, Planter and Pavement	omation, Read Dairage, Keb, Planter and Pavement 165 165 234.89-15 0.69 Oct.5 31 80 and CH315 209 234.99-16 0.69 Oct.5 31 1																																		
	eeen CH280 and CH315	200																																		
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At-Grade Roadwork																																				
TWSRW-3100	Noise Barrier NB1a - Footing adjacent Realigned TWSR West (31m)	80	80	03-May-14	07-Aug-14 161					Noi	se Barrier I	NB1a - Fo	ooting adj	jacent Re	aligned TW	\$R West	(81m)																			
TWSRW-3110	Installation of Cable Ducts for Utilities Diversion Works at Area 2 (Approx. 120m) (by utilities undertakers)	187	187	08-Aug-14	10-Feb-15 261								🛑 (nst	talation o	f Gable Du	ots for Uti	lilies Divers	sion Wor	a at Área 2	(Approx.	120m) (by u	tilties un	dertakers)													
TWSRW-3120	Road Formation, Road Drainage, Kerb, Planter and Pavement	65	65	11-Feb-15	09-May-15 207								-	+	Road For	mation, R	oad Draina	age, Kert	Planter ar	nd Plavern	ent															
TWSRW Zone 4 betw	eeen CH315 and CH376	532	505	15-0ct-13A	14-Aug-15 127																															
Construction of Brid	lge E	421	394	15-Oct-13A	28-Mar-15 2		-			+			-+-+-			++	++												-++				+			
TWSRW-4000	Implementation of TTA - Scheme W2	0	0	15-Oct-13A		♦ fm	nplementation	of TA-So	cherne W2																											
TWSRW-4000A		10	0		31-Oct-13.A		Cable Reter	ion & CI P	Undernow	nd 11KV Cal	le Diversio	in at Ame																								
TWSRW-4010B																																				
TWSRW-4020B		18	18	09-Dec-13	31-Dec-13 72		Pla	nt Moblizat																												
TWSRW-4000B	CLP Overhead 11KV Cable Diversion at Area B	140	125	04-Nov-13 A	30-Apr-14 19				CLP	ovenhead 111	(V Cable D	Diversion a	at Area B,	CLP Ove	nhead 11K\	v Cable E	Diversion at	Area B				T														
TWSRW-4010A	Pre-Drilling for E1	15	15	02-May-14	20-May-14 19				🗖 Pr	Drilling for E	1																									
TWSRW-4030B	Bored Pile Works for E2	48	48	01-Apr-14	03-Jun-14 2				++	Bored Pile W	orks for E2																									
TWSRW-4020A	eff All 34 15-Oct13A 24Mar/L 24Mar/L </td <td></td>																																			
TWSRW-4040B	Pile Test for E2	14	14	04-Jun-14	19-Jun-14 74					Pile Test to	E2																									
TWSRW-4050B	Pile Cap for E2	30	30	20-Jun-14	25-Jul-14 74	ļ				Pile C	an for F2							ļ																		
					Actual Work	<i>.</i>							C	EDI) (ont	ract	: No	D. C'	V/2	012/	09							Date		Revis	sion	Ch	ecked	Арр	roved
																				- / '								2	9-Jan-14	Re	v4		Sar	n	Dani	
					Remaining			Lie	nt-	na I	Ц <i>а</i> .	unc	. v.		W ~	; D/	CD	c:	40 E	or	nati	~ n	<u>د</u> ا د	fra	ofr-		Iro		1-Dec-13	Re	v3		Der	nis	Dani	el
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	和建築工程有限公司				Critical Rem	aining W	ork								W	ork	s, C	on	trac	:t 3									7-Sep-13	Re			Der		Dani	
Сн	UN WO CONSTRUCTION & ENGINEERING CO., L	TD.	٠		Milestone	-																							9-Jul-13	Re			-	elm	Dani	
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Activity ID	Activity Name	OD RD	Start	Finish	TF			2014				2015			2	2016				2017			201	8			2019
TWSRW-4030A	Bored Pile Works for E1	48 48	03-Jul-14	27-Aug-14	2 A S	Oct N D	Jan F Mar Apr		S Oct N D Bored Pile Wor		F Mar Apr M	Jun Jul A S	Oct N Dec	Jan F Mar	Apr M Ju	n Jul A S	S Oct N D	ec Jan F Mai	Apr M Ju	in Jul A S	Oct Nov D Ja	1 F Mar Ap	r M Jun J	al A S C	Jct N Dec.	an F Mar	Apr M Jun Jul A
TWSRW-4040A	Pile Test for E1	14 14	28-Aug-14	13-Sep-14	2				Pile Testfor	E1																	
TWSRW-4050A	Pile Cap for E1	30 30	15-Sep-14	21-Oct-14	2				Pile C	an for E1																	
					-				ΤΞ																		
TWSRW-4060				23-Dec-14	14					Erectio		port System for S		n (vvork in dry	(season)												
TWSRW-4070A	Install Precast Segments on Scaffold Support System	24 24	24-Dec-14	23-Jan-15	14					•	nstall Precast Seg	ments on Scaffold	Support System	m													
TWSRW-4070B	Cast In-situ Abutment	90 90	22-Oct-14	06-Feb-15	2						Cast In-situ Abu	ment															
TWSRW-4080	Permanent Prestressing	14 14	07-Feb-15	02-Mar-15	2						Permanent	restressing															
TWSRW-4090B	Cast In-situ Stitch Joint	25 25	11-Feb-15	18-Mar-15	2						💼 Cast In-si	u Stitch Joint															
TWSRW-4090A	Remove Scaffold System	9 9	19-Mar-15	28-Mar-15*	2						Remove	Scaffold System															
At-Grade Roadwork	IS CONTRACTOR OF C	120 120	19-Mar-15	14-Aug-15 1	127	•••••• <mark>•</mark> •••••		-++-									++-+										
TWSRW-4100	Cast Parapet, Lay Surfacing and Road Furniture for Footpath and Carriageway	120 120	19-Mar-15	14-Aug-15 1	127							Cas	Parapet, Lay 9	urfacing and	Road Funditu	re for Footpat	h and Camiag	eway									
TWSRW Zone 5 betw	recen CH376 and CH520	656 616	15-Oct-13A	13-Jan-16	3																						
Construction of Ret		481 441	15-Oct-13A	13-Jun-15	13																						
TWSRW-5000			15-Oct-13A				ation of TTA - Scher																				
TWSRW-5040A				005111																							
	-		28-Dec-13*	20-Feb-14	45			f Earth Platfdrm																			
TWSRW-5060	Removal of grave at Portion FH8	25 25	27-Jan-14	03-Mar-14	36		Remova	l of grave at Portion	FH8																		
TWSRW-5050A	Construction of Bored Pile Wall (4 no. Piles) (with existing access road)	48 48	31-Dec-13	04-Mar-14	35		Constru	tion of Bored Pile V	/all (4 no. Piles	i) (with exi	isting access road																
TWSRW-5010	Noise Barrier NB2 - Footing and Retaining Structure adjacent to Realigned TW SR West (54m)	85 85	06-Dec-13	25-Mar-14	3		Nois	Barrier NB2 - Foot	ng and Retain	ing Struct	ture adjacent to R	ealigned TW SR V	/est (\$4m)														
TWSRW-5030A	Completion of Overhead Cable Diversion	0 0		30-Apr-14	70		•	Completion of Ove	rhead Cable D	iversion																	
TWSRW-5020	Permanent Vehicular Access to Lot 81	28 28	26-Mar-14	02-May-14	3			Permanent Vehicul	ar Access to Lo	ot 81																	
TWSRW-5050B	Construction of Bored Pile Wall (10 no. Piles) (with earth platform provided)	80 80	12-Apr-14	22-Jul-14	3			Const	ruction of Bare	d Pile Wa	all (10 no. Piles) (v	ith earth platform	provided)														
TWSRW-5050C	Construction of Bored Pile Wall (8 no. Piles) and Capping Beam (conflict with overhead cable)	152 152	23-Jul-14	22-Jan-15	3					c	Construction of Bo	red Pile Wall (6 no	Piles) and Ca	pping Beam (conflict with o	verhead cable)										
TWSRW-5070	Construction of Mass Concrete Wall (FL/RW4)	20 20	23-Jan-15	14-Feb-15	3						Construction of	Mass Concrete V	all (FL/RW4)														
TWSRW-5080		90 90		13-Jun-15	13							Slope Work in	d 53 nos Soil	Nail for 35W-0	/C898 & 3SI	W-D/C29											
TWSRW-5090		110 110		13-Jun-15	2							Lagging Wall															
					3							a cayying wai	SOI BUOLINII														
At-Grade Roadwork		265 265		13-Jan-16	3																						
TWSRW-5100	Remaining Noise Barrier NB2 - Footing and Retaining Structure adjacent to Realigned TWSR West (12m)			14-May-15	3							emaining Noise E	arrier NB2 - Fo	oting and Ret	aining Structu	ure adjacent to	Realigned T	NSR West (12m									
TWSRW-5110	Road Formation, Road Drainage, Kerb, Planter and Pavement	175 175	15-Jun-15	13-Jan-16	3									Road For	mation, Road	d Drainage, Ke	erb, Planter an	d Pavement									
TWSRW Zone 6 betw	eeen CH520 and CH530	475 475	27-Jan-14	11-Sep-15 1	103																						
Box Culvert Extensi	on - BC01	49 49	27-Jan-14	31-Mar-14	0																		T				
TWSRW-6000	Flow Diversion of Existing Stream	4 4	27-Jan-14	30-Jan-14	0		Flow Diversio	n of Existing Stream																			
TWSRW-6010	Excavation and Sub-base	5 5	07-Feb-14	12-Feb-14	0		Excavation	and Sub-base																			
TWSRW-6020	Bay 1 - Base Slab	14 14	10-Feb-14	25-Feb-14	0		📕 Bay 1 - B	ase Slab																			
TWSRW-6030	Bay 2 - Base Slab	14 14	18-Feb-14	05-Mar-14	0		Bay 2 - I	Base Slab																			
TWSRW-6040	Bay 1 - Wall and Top Slab	22 22	26-Feb-14	22-Mar-14	7	+	Bay 1	- Wall and Top Stat	,							+	+					+					
TWSRW-6050	Bay 2 - Wall and Top Slab	22 22	06-Mar-14	31-Mar-14	0		📕 Bay	2 - Wall and Top \$k	ab																		
Construction of Ret		170 170		03-Feb-15 2	233																						
TWSRW-6070		25 25		06-Aug-14	63			D Prei	aration works	forimelia	nentation of TTA	chama W/4															
				00-nug-14																							
TWSRW-6080		0 0			63			◆ Inhp			4 to divert existing																
TWSRW-6090		0 0		29-Oct-14	49						Pipe Laying of D			g TW/SRW													
TWSRW-6060	Construction of Retaining Wall (FL/RW2)	40 40	16-Dec-14	03-Feb-15 2	233					Ħ	Construction of R	etaining Wall (FL	(RW2)														
		1 -					1				CEDD	Cont	act N		1//20	12/0	0				Da	ate	Re	vision	T Ch	ecked	Approved
]				Actual Wo								Conti	aur	νυ. C	v/20	12/0	3				29-Jan-		Rev4		Sam		Daniel
				Remaining	g Work			1 m m - 1	11				<u></u>			- 4" -		• f =			21-Dec		Rev3		Den		Daniel
	and the second			Summary	Bar		Lian	tang /	Heur	۱g						atio	n & li	ntrast	ruct	ure	23-Oct-		Rev2		Den		Daniel
	和建築工程有限公司			Critical Re	mainin	g Work	1					Work	s, Co	ntrad	ct 3						17-Sep		Rev1		Den		Daniel
Сну	UN WO CONSTRUCTION & ENGINEERING CO., LT	D.	•			•	1														09-Jul-		Rev0		Anse		Daniel
			•	MICSIONE			1			- h	nitial \	Norks	Proc	gram	me F	Rev 4	Ļ				109-Jul-	13	Trevu		Anse	2011	Daniel
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								IWP04	4			Pag	ge 12 d	of 24				_30-Ja	n-14				<u> </u>				

twity ID Activity Name	OD	RD	Start	Finish	TF					2014					2	015					2	2016					2	017					2018		1		2019	
At-Grade Roadworks	45	45	22-Jul-15	11-Sep-15	103 A S	Oct N	D Jan	F Mar	Apr M	Jun Jul	ASC	Oct N De	ec Jan F	Mar Ap	r M Jur	Jul A	S Oct	t N Dec	Jan F	Mar Apr	M Jur	n Jul A	SO	a ND	ec Jan I	F Mar Ap	or M Jur	Jul A	S Oct I	Nov D Ja	n F Mar A	pr M Ju	in Jul 7	A S Od	N Dec	Jan F Mar	Apr M	n Jul A
TWSRW-6110 Road Formation, Road Drainage, Kerb, Planter and Pavement	45	45	22-Jul-15	11-Sep-15	103												Road	Formatic	n, Road I	Ørainage,	Kerb Pl	lanter and	Paverne	int														
TWSRW Zone 7 betweeen CH530 and CH640	610	610	02-Dec-13	31-Dec-15	13																																	
Construction of Retaining Structures	269	269	02-Dec-13	03-Nov-14	13										· - · · ·									-++-			++											
TWSRW-7000 Implementation of TTA - Scheme W2 (Part 2)	0	0	02-Dec-13		13		Implem	entation o	of TTA - S	cheme W2	(Part 2)																											
TWSRW-7010 Slope Cutting and Drainage Channel	80	80	02-Dec-13	14-Mar-14	13			 s	Slope Cut	ting and Dr	ainage Cl	annel																										
TWSRW-7020 Installation of Soil Nail (129 nos)	75	75	15-Mar-14	18-Jun-14	37					🔲 Install	ation of Sc	il Nail († 29) nos)																									
TWSRW-7030* Pipe Laying - DN450 Watermains (CHA)	99	99	15-Mar-14	17-Jul-14	13						ipe Laying	- DN450 \	Watermain	ns (CHA)																								
TWSRW-7040 Construction of Retaining Wall (FL/RW2)	90	90	18-Jul-14	03-Nov-14	13							Cons	struction of	Retainin	g:Wall(FL	/RW2)		<u></u>									·++	····	-									
At-Grade Roadworks	341	341	04-Nov-14	31-Dec-15	13																																	
TWSRW-7100 Implementation of TTA - Scheme W3	0	0	04-Nov-14		13							🔶 Imple	ementation	nof TIA-	Sicheme V	V3																						
TWSRW-7110 Filling Works Behind FL/RW2			04-Nov-14	02-Dec-14	13								Filing Worl	ks Behind	1 FL/RW2																							
TWSRW-7120 Installation of Cable Ducts for Utilities Diversion Works at Area 4 (Approx. 150m) (by utilities			03-Dec-14	21-Jul-15	15											Ins	stallation of	fCable Du	cts for Ut	lities Dive	rsion W.	ontos at Are	e 4 (Ann	15Dn	n) (by utilit	ies underta	akers)											
undertakers) TWSRW-7140 Road Formation. Road Drainage. Kerb. Planter and Pavement	135		22-Jul-15	31-Dec-15	13																L														ļ			
TWSRW Zone 8 betweeen CH640 and CH695	347		18-Aug-14	22-Oct-15	83																																	
Kiu Tau Footbridge Reprovision (West)	347		18-Aug-14	18-Sep-15	109																																	
Kur Jau Pootsnage Reprovision (west) TWSRW-8000 Pre-Drilling Works for Socket H-Pile	7	7	18-Aug-14	25-Aug-14							Brei	niling W	10 km dr-1																									
TWSRW-8000 Pre-Draing Works for Socket H-Pile TWSRW-8010 Installation of Socket H-Pile for Proposed Kiu Tau Footbridge	7		18-Aug-14 26-Aug-14	25-Aug-14 24-Nov-14	2						a rieb		ks for Sock		LI DII- 4	Brent	d Kiu Tau F																					
· · · · · · · · · · · · · · · · · · ·					°								iscentation o																									
TWSRW-8020 Construction of Pile Cap and Abutment	90		25-Nov-14	19-Mar-15	3										nstruction	or Pilé Ci	ap and Abu																					
TWSRW-8030 Steel Truss Installation at TWSR West	12		05-Sep-15	10 000 10	109												Stee	el Truss Ins	tallation a	at TWSR	West																	
At-Grade Roadworks	175		20-Mar-15	22-Oct-15	71																																	
TWSRW-8100 Fill Replacement Works	60	60	20-Mar-15	04-Jun-15	3									T		ill Replac		orks																				
TWSRW-8110* Pipe Laying - DN450 Watermains (CHA)	50	50	05-Jun-15	04-Aug-15	3										-	-	Pipe Laying	g - DN450	Waterma	ains (CHA																		
TWSRW-8120 Road Formation, Road Drainage, Kerb, Planter and Pavement	65	65	05-Aug-15	22-Oct-15	71											-		Road Fo	rmation, I	Road Dra	inage, K	erb, Plante	er and P	avement														
Remainder of the Works	579	579	08-Aug-14	08-Mar-16	8																																	
TWSRW-9020* Utilities Diversion in Area 2 (along Re-aligned TWSRW CH 280 - CH31 5)	187	187	08-Aug-14	10-Feb-15	261								+	Utilities C	Diversion ir	Area 2	(along Re-a	aligned TV	VSRW CI	H 280 - C	H315)																	
TWSRW-9010* Utilities Diversion in Area 1 (along Re-aligned TWSRW CH100 - CH280)	154	154	20-Dec-14	22-May-15	40								÷		Uti	lities Dive	raion in Are	ea 1 (along	Re-align	ed TWSF	W CH1	00 - CH28	x()															
TWSRW-9040* Utilities Diversion in Area 4 (along Re-aligned TWSRW CH530 - CH640)	231	231	03-Dec-14	21-Jul-15	15							=				Uti		sion in Are	a 4 (along		ed TWS	RW CH53		40)														
TWSRW-9030 Utilities Diversion in Area 3 (along existing TWSRW, Approx. 150m) (by utilities undertakers)	231	231	24-Mar-15	09-Nov-15	8									t t				🗖 Utilitie	s Diversio			existing T	WSRW,	Approx	150m) (by	utilities un	dertakers)											
TWSRW-9050 Utilities Connection Works (Change-over) at Re-aligned TWSR West	120	120	10-Nov-15	08-Mar-16	8													-		Utilitie	s Conne	ction Wor	rks (Char	nge-over)	at Re-alig	ned TWSR	R West											
Remaining Works for No ise Barrier along realigned TWSR West	278	278	14-Aug-14	27-Jul-15	143																																	
TWSRW-NB-110 Noise Barrier Steelworks & Panel for NB4 (105m) at Zones 1 & 2	60	60	14-Aug-14	25-Oct-14	321						÷	Noise	Barrier Ste	elworks &	Panel for	NB4 (10	5m) at Zon	nes 1 & 2																				
TWSRW-NB-120 Noise Barrier Steelworks & Panel for NB1a (31m) at Zone 3	20	20	27-Oct-14	18-Nov-14	321							🔲 No	oise Bahier	r Steelwor	ks & Plane	for NB1	a (31mi) at	Zone 3																				
TWSRW4NB-130 Noise Barrier Steelworks & Panel for NB1b (54m) at Zone 4	20	20	19-Mar-15	15-Apr-15	227									+++++++++++++++++++++++++++++++++++++++	Noise Ba	arrier Stee	Works & P	anel for N	B1b (54m) at Zone	4	++	+	+++		++	+	+			+++++	++						
TWSRW-NB-140 Noise Barrier Steelworks & Panel for NB2 (77m) at Zone 5	60	60	15-May-15	27-Jul-15	143										-	N	oise Barrier	r Steelwor	s & Pane	I for NB2	(77m) at	t Zone 5																
Stage N4A & N4B - Realignment of Tai Wo Service Road East (KD-13 & KD-14)	913	913	07-Nov-13 A	31-Dec-16	316																																	
TWSRE Zone 1 between CH100 and CH270	729	729	07-Nov-13 A	23-May-16	8																																	
Box Culvert Extension - BC02	76	76	07-Nov-13 A	27-Feb-14	122																																	
TWSRE-1000 Flow Diversion of Existing Stream	7		07-Nov-13 A	14-Nov-13A		8	low Dive	sion of Ex	disting Str	eam							+														+							
TWSRE-1010 Excavation, Sub-base and Blinding	40		15-Nov-13 A		122		Excava	ion, Sub-b	base and		xcavation,	Sub-base	and Blindi	ing																								
TWSRE-1020 Bay 1 - Base Slab	21		28-Nov-13		122		Bav	1 - Base S	Slab																													
	Т			Actual Wo	ork		Τ						C	CEL	DD (Cor	ntra	ct N	lo.	CV	/20	12/	09						L	Da		-	Revis	ion	_	ecked		roved
				Remainin																										9-Jan		Rev			Sam		Dani	
				Summary	-			Lia	ant	ang	/ H	eur	ng Y	′ue	n W	/ai	BCF	P - (Site	Fo	orm	atio	on	& lı	nfra	str	ucti	ure		1-Dec		Rev			Den		Dani	
🙌 俊和建築工程有限公司				-		- 14/-				3	_						rks,							-	-			-		3-Oct-		Rev			Den		Dani	
CHUN WO CONSTRUCTION & ENGINEERING CO.,	LTD.			Critical Re	-	y vvoi	IK										,				-									7-Sep		Rev			Den		Dani	
		•	•	Milestone									In		al W	lor	ks P)rov	irai	mm		2017	۸						0	9-Jul-	13	Rev	/0		Ans	elm	Dani	ગ
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										IWF	201					P	age	12	of 2	4					20	Jan	-14											
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ctivity ID	Activity Name	OD	RD	Start	Finish	TF		1			2014					2045			-		_	2016	_		- 1			2017			-	_	2044				2010		=
TWSRE-1030	Bay 2 - Base Slab	21	21	14-Dec-13	10-Jan-14	122 A	S Oct 1	V D Ja	an F Mar Bay 2 - Ba		Jun Jul	ASO	t N Dec	Jan F N	Mar Apr 1	ZU 15 V Jun Ju	AS	Oct N	Dec Jan	F Mar	Apr M	1 Jun Jul	AS	Oct N	Dec Ja	n F Mar	Apr M	Jun Jul	ASC	Oct Nov	D Jan F	Mar Apr	M Jun J	ulAS	Oct N	Dec Jan F M	ar Apr M	1 Jun Jul	A
TWSRE-1040	Bay 1 - Wall and Top Slab	35	35	23-Dec-13	11-Feb-14	136		II		1 - Wall an	d Top Sipp																												1
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TWSRE-1050	Bay 2 - Wall and Top Slab	35	35	11-Jan-14	27-Feb-14	122				ay 2 - Wall	and liop \$4	10																											
At-Grade Roadwork			366	14-Feb-15	23-May-16	8																																	
TWSRE-1100	Installation of Mini-Pile for PC01 & PC02 (22nos)	66	66	14-Feb-15	14-May-15	8										Installati		Pile for PC			0																		
TWSRE-1110	Noise Barrier NB3 - PC01 & PC02 Pile Cap Construction	55	55	15-May-15	21-Jul-15	8											Noise E	arrier NB3	- PC01 &	PC02 Pil	le Cap Ci	onstruction																	
TWSRE-1130	Retaining Wall Construction for FL/RW5	55	55	22-Jul-15	23-Sep-15	8											+	Retainin	g Wall Co	onstruction	n for FL/F	RW5																	
TWSRE-1120	Noise Barrier NB3 - Footing adjacent to Realigned TWSR East (96m)	170	170	22-Jul-15	18-Feb-16	29		 	+				\uparrow				++	den den d	÷	Nois	se Barrier	r NB3 Fo	oting adja	acent to R	tealigned	TWSR Eas	t (96m)			-+-+		r===†						-	_
TWSRE-1160	Road Formation, Road Drainage, Kerb, Planter and Pavement (Incl. FL/F8A, FL/F9)	190	190	24-Sep-15	23-May-16	8																Road Fo	dmation,	, Road Dr	alnage, K	(elb, Plante	rand Pav	lement (Ink	d. FL/F8A	FL/F9)									
TWSRE Zone 2 betwe	en CH270 and CH380	566	566	15-Jan-15	17-Dec-16	3																																	
At-Grade Roadwork	3	566	566	15-Jan-15	17-Dec-16	3																																	
TWSRE-2020*	Pipe laying - DN600, DN1400 & DN1200 Watermains (CHB, CHK & CHC) along Realigned TWSR East	116	116	26-Feb-15	20-Jul-15	164											Pipe la	ina - DN60	0. DIN140	0 & DN1:	200 Wat	termains (C	нв. Сни	K& CHC)	along Re	eationed TV	VSR East												
TWSRE-2010	TWSR East Noise Barrier NB3 - Footing adjacent to Realigned TWSR East (96m)		170	15-Jan-15	17-Aug-15	31		ļ									No	o Ramor M	UB3 Foo	ting adjac	cent to R	tealigned T	WSRE	(96m)								ļļ							÷
TWSRE-2020		55	55	24-Sep-15	30-Nov-15												Τľ	Dunier						(0011)															1
	Retaining Wall Construction for FL/RW6					53														ing wall C		ion for FL/I	WV6																1
TWSRE-2030	Road Formation, Road Drainage, Kerb, Planter and Pavement	90	90	01-Dec-15	24-Mar-16	53															Road F	ormation,	Road Dra	anage, K		tet and Pav													
TWSRE-2040	Completion of New Vehicular Bridge by Other Contractor	0	0		25-Aug-16	3																	♦ Co	ompletion	of New ∖	/ebicular Bri	dge by O	ther Contr	actor										
TWSRE-2050	Erection of Scaffolding for Demolition Works	60	60	16-Jun-16	25-Aug-16	3																-	En	rection of \$	Scaffold in	g for Demo	lition Wo	ks											
TWSRE-2070	Commissioning of Realigned TWSR East	0	0	15-Oct-16		3		<u>†</u> †-		1			T				$\uparrow \uparrow$			T.	1		1	♦ Cor	mmissioni	ng of Reali	gned TW	SR East				11	TT						
TWSRE-2060	Demolition of Existing Vehicular Bridge	95	95	26-Aug-16	17-Dec-16	3																			i pe	mblition of I	Existing V	ehicular Br	idge										
TWSRE Zone 3 betwee	en CH380 and CH456	230	230	04-Oct-14	18-Jul-15	255																																	
At-Grade Roadwork	5	230	230	04-Oct-14	18-Jul-15	255																																	
TWSRE-3010	Noise Barrier NB3 - Footing adjacent to Realigned TWSR East (62m)	85	85	04-Oct-14	14-Jan-15	31								Noise	Barrier NB	3 - Footing	adjacent	to Realign	ed TWSR	East (62)	tm)																		
TWSRE-3020*	Pipe Laying - DN600 & DN1200 Watermain's (CHB & CHC) abng Realigned TWSR East	78	78	16-Dec-14	26-Mar-15	164		ļ					+		Pipe I	aving - Dh	1600 & D	1200 Wa		<u> </u>		ng Realigne	ed TWSR	REast								<u>∔</u> ‡							
TWSRE-3030	Road Formation, Road Drainage, Kerb, Planter and Pavement (Incl. FL/F10)	90	90	27-Mar-15	18-Jul-15	255											Road F	umation R	load Drai	nane. Ker	m Planta	ariand Paul	11	ELET															
	toad and Access Road	554			10-Dec-15	200														age rui																			
				21-Jan-14		525																																	
TWSRE-4000	Site Formation, Preparation Works & Tree Transplant			21-Jan-14	14-Apr-14	21				Site F	ormation, I		Works & 1		lant																								
TWSRE-4010B	Filling Works for Slip Road Y	120	120	15-Apr-14	10-Sep-14	21						Fille	g Works fo	or Slip Road	1Y																								
TWSRE-4010A	Implementation of TTA - Scheme E1 (Shifting Ext. TWSR East to Fanling Highway S/B)	0	0	04-Oct-14		3						•	mplement	ation of TIA	- Scheme	E1 (Shiftin	g Ext. TV	SR East to	Fanling I	Highway S	S/B)																		
TWSRE-4050*	Pipe laying - DN600, DN1200 & DN2300 Watermains (CHB, CHC & CHJ) along Access Road A & Roundabout	144	144	04-Oct-14	31-Mar-15	732						-	1 1		Pipe	laying - DI	1600, DN	200 & DN	2300 Wa	ilemains ((анв. а	нс & сни) along A	iccess Roi	ad A & Ro	oundatiout													
TWSRE-4030	Noise Barrier NB74 - Footing adjacent to Realigned TWSR East (72m)	166	166	04-Oct-14	30-Apr-15	86							1 1	1 1 1	÷.	Ndise Barr	er NB74	Footing a	djacent to	Realigne	d TW SR	East 72n																	
TWSRE-4020	Slip Road Y (CH260-CH404) - Road Formation, Road Drainage, Kerb, Planter and Pavement	184	184	04-Oct-14	22-May-15	3										Slip Ro	ad Y (CH	60-CH404) - Road I	Formation	n, Road E	Dainage, I	kerb, Plar	nter and F	Pavement														
TWSRE-4040	Slip Road Y (CH100-CH230) - Road Formation, Road Drainage, Kerb, Planter and Pavement	155	155	05-Jan-15	20-Jul-15	86											Slip Ro	d Y (CH10	0-CH230	- Road F	Formatio	in Road D	rainage, I	Kerb, Plar	nter and F	Pavement													
TWSRE-4060	Access Road A - Road Formation, Road Drainage, Kerb, Planter and Pavement	130	130	23-May-15	28-Oct-15	3		+					+			-	<u></u>	Ao	cess Roai	d A - Road	dFormat	tion, Road	Drainage		lanterano	l Pavemen				+									
TWSRE-4070	Roundabout A - Road Formation, Road Drainage, Kerb, Planter and Pavement	120	120	21-Jul-15	10-Dec-15	134													Roun	dabout A	-Road F	ormation,	11	anaga, Ki		ter and Pav	ement												
Remaining Works for	Noise Barrier along realigned TWSR East	310	310	11-Dec-15	31-Dec-16	316																																	
TWSRE-NB-110	Installation of Steelwork & Transparent Panel - Noise Barrier NB74 (90m)	35	35	11-Dec-15	23-Jan-16	591														Installe*	ion of Str	eelwork 8 7	lanster	nt Ponel	Noise P	antier MR74	(90m)												
TWSRE-NB-110 TWSRE-NB-120		35 65	65	11-Dec-15 15-Oct-16	23-Jan-16 31-Dec-16	316													T	magailab	ATT US OTE		anaµai9	and r digel -	NOISE B	nstallation of	(3010)			nol 81-1	Barrier NB3								
	Installation of Steelwork & Transparent Panel - Noise Barrier NB3 (254m)					310				ļ				<u> </u>												navanation (- 2166IMC	nk a Iranş	parent Par	iei iNOISE	Damer NB3	(((magaz)							Ш
	tructure & TCSS Civil Provisions (KD-9)		982	31-Oct-13A	30-Mar-17	2																																	
Preliminaries		708	683	31-Oct-13A	05-Apr-16	20																																	
B-2020	Completion of Cable Detection & CLP Underground 11KV Cable Diversion at Area A	0	0		31-Oct-13 A		•	Completio	n of Cable	Detection	& CLP Und	lerground 1	1KV Cabl	e Diversion a	at Area A																								
B-3000	Plant Mobilization for Pling Rig (Plant 1)	13	0	05-Nov-13 A	19-Nov-13 A		-	Plant N	lobilization	for Piling R	tig (Plant 1)																												
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					Actual W	/ork								С	EDI	DC	ont	ract). C	V/2	2012	2/09	9							Date	\rightarrow		vision			- ·	oprove	<u> </u>
					Remaini	ng Wo	rk					_						_												<u> </u>	lan-14		Rev4			iam	_	niel	—
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Activity ID	Activity Name	OD	RD S	tart	Finish T	F				2014					2015			-		201	16		- 1			2017			_	2018	_	_	_	2019	
B-3040	Plant Mobilization for Pling Rig (Plant 5)	25	25 29-N	ov-13*	30-Dec-13 3	A S Oct			Apr M .			Dct N Dec	Jan F M	ar Apr M	Jun Jul	ASO	OctND	ec Jan F	Mar Apr	r M Jun	Jul A	S Oct	N Dec	an F Ma	Apr M	un Jul A	S Oct N	lov D Jan F M	ar Apr N	vi Jun Ju	ASC	Oct N Dec	Jan F Ma	ar Apr M	Jun Jul A
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B-3010	Plant Mobilization for Piling Rig (Plant 2)	25	25 16-D	ec-13*	16-Jan-14	8		Plant Mo	bilization fp	r Piling R	ig (Plant 2)																								
B-3020	Plant Mobilization for Piling Rig (Plant 3)	25	25 27-J	an-14*	03-Mar-14	2	1	PI PI	ant Mobiliz	ation for	Piling Rig (Plant 3)																							
B-3030	Plant Mobilization for Piling Rig (Plant 4)	25	25 27-J	an-14*	03-Mar-14	2	. I I	р р	ant Mobiliz	ation for	Piling Rig (Plant 4)																							
B-1000	ADMS Installation inside MTRCL Railway	21	21 05-N	lar-14	28-Mar-14 7	77			ADMS b	nstallation	inside MT	RCLRatiway																							
B-1010	Demonstration to MTRCL	1	1 29-N	lar-14	29-Mar-14 7	77			Demons	tration to:	MTRCL																								
B-1020	Base-line Monitoring	7	7 31-1	lar-14	08-Apr-14 7	7	<mark> </mark>		Base-in	ne Monite	rina														·			-+							
B-2030	Completion of CLP Overhead 11KV Cable Diversion at Area B	0	0		30-Apr-14 2							erhelad 1/1KV (Cablo Divor	rsion at Area																					
									- Cu					ision attrice																					
B-2000	CLP 11KV Cable Diversion at Area C	80	80 27-J	an-14	13-May-14 14	14				LP 11KV	Cable Div	ersion at Area	C																						
B-2010	CLP LV Cable Diversion at Area D	80	80 27-J	an-14	13-May-14 1	9	1		ŕ	LP LV C	ible Divers	ion at Arlea D																							
B-2040	Completion of CLP 11KV Cable Diversion at Area C	0	0		13-May-14 14	и						1KV Cable Di		unea C																					
B-2050	Completion of CLP LV Cable Diversion at Area D	0	0		13-May-14 1	19			•0	ompletion	of CLP L	V Cable Dive	sion at Area	D		1																			
B-3050	Relocation of Plant including Pre-drilling Works	14	14 16-N	lar-16	05-Apr-16 2	20													R	elocation	of Plant in	cluding Pre	-driling W	orks											
Foundation & Pier C	Construction	861	847 20-No	w-13 A	13-Oct-16 2	1																													
Bridge A		827	827 14-0	ec-13	13-Oct-16 2	20																													
BA-12-1000	Pier AA12 - Piling Works	24	24 14-0	ec-13	14-Jan-14 1	3		Pior AA12	- Piling We	ortes																									
BA-05-1000		12																		ļ													ļ		
	Pier AA5 - Piling Works				30-Jan-14	8			5 - Piling V																										
BA-12-1010	Pier AA12 - Pile Test	14	14 15-F	eb-14	03-Mar-14 4	16		Pi Pi	er AA 12 - F	Pile Test																									
BA-05-1010	PierAA5 - Pile Test	14	14 04-N	lar-14	19-Mar-14 1	16		-	Pier AA5	Pile Test																									
BA-13-1000	PierAA13 - Piling Works	24	24 22-F	eb-14	21-Mar-14 5	5		-	Pier AA13	- Piling V	/orks																								
BA-17-1000	PierAA17 - Piling Works	24	24 24-F	eb-14	22-Mar-14	8		🛑	Pier AA17	- Pling V	Vorks																								
BA-12-1020	PierAA12 - Pile Cap	30	30 14-N	lar-14	22-Apr-14 3	37	 		Pier	4A12 - P0	e Cap							-													++				
BA-05-1020	PierAA5 - Pile Cap	30	30 20-M	ar-14*	28-Apr-14 1	16			Pier	AA5 - PI	Cap																								
BA-13-1010	PierAA13 - Pile Test	14	14 17-4	pr-14	08-May-14 5	5			р р	erAA13	Pile Test																								
BA-17-1010	PierAA17 - Pile Test	14	14 22.4	pr-14	09-May-14 1	19				erAA17	Pile Test																								
BA-14-1000	PierAA14 - Piling Works	12			30-May-14 14	и				PierAA	4 - Pilina V	Vorks																							
BA-04-1000	PierAA4 - Piling Works	12	12 27-N		10-Jun-14					Dior A	4 - Piling V	Notes																					ļ		
						0					1																								
BA-05-1030	Pier AA5 - Pier Construction	17			14-Jun-14 1	6					A5 - Pier C																								
BA-17-1020	Pier AA17 - Pile Cap	30			14-Jun-14 1	9					A17 - Pile																								
BA-02-2000	PierAA2E - Piling Works	12	12 04-J	un-14	17-Jun-14 2	22			1	Pier	A2E - Piir	ig Works																							
BA-03-1000	PierAA3 - Piling Works	12	12 07-J	un-14	20-Jun-14	8				Pier	AA3 - Piling	Works																							
BA-12-1030	Pier AA12 - Pier Construction	31	31 20-N	ay-14	25-Jun-14 12	26			-	Pier	AA12 Pe	r Construction																							
BA-09-1000	Pier AA9 - Piling Works	24	24 04-J	un-14	02-Jul-14	2				🗖 Pie	r AA9 - Pili	ng Works																							
BA-02-1000	Pier AA2W - Piling Works	12	12 20-J	un-14	04-Jul-14 2	22				Pie	r AA2W	Piling Works																							
BA-13-1020	PierAA13 - Pile Cap	30	30 30-N	ay-14	05-Jul-14 3	37				Pie	ar AA13 - F	ile Cap																							
BA-15-1000	PierAA15 - Piling Works	24	24 09-J	un-14	07-Jul-14 22	1				н р	er AA 15 - F	lling Works																							
BA-14-1010	PierAA14 - Pile Test	14		un-14	12-Jul-14 21	н	 - 				ierAA14								·												+				
BA-04-1010	PierAA4 - Pile Test	14				23					Pier AA4																								
BA-04-1010 BA-01-1000	Abutment AA1 - Piling Works	24				22						tAA1 - Piling)																							
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BA-02-2010	Pier AA2E - Pile Test	14				32					Pier AA2E																								
BA-03-1010	PierAA3 - Pile Test	14	14 17-	lul-14	01-Aug-14 3	31					Pier AA3	- Pile Test																							
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Activity ID	Activity Name	OD RD	Start	Finish	TF		[2014						2015			[201	6					2017					201				20	019	
BA-17-1030	PierAA17 - Pier Construction	24 24	15-Jul-14	11-Aug-14	16 A	A S Oct	ND.	Jan F Ma	lar Apr M	/ Jun Ju	Pier.	Oct N AA17 Pie	Dec Jan Constru	F Mai ction	ir Apr 1	VI Jun Jul	ASC	Oct N De	Jan F	Mar Apr	M Jun	Jul A 1	S Oct 1	N Dec Ja	in F Mar	Apr M	Jun Jul	ASC	Oct Nov D	Jan F	Mar Apr	M Jun	Jul A S	3 Oct N	Dec Jan F	Mar Apr	M Jun	Jul A
BA-09-1010	PierAA9 - Pile Test	14 14	28-Jul-14	12-Aug-14	154						🖨 Pier	AA9 - Pile	Test																									
BA-02-1010	PierAA2W - Pile Test	14 14	30-Jul-14	14-Aug-14	38						Pier	AA2W - F	Ne Test																									
BA-18-1000	PierAA18 - Piling Works	12 12	01-Aug-14	14-Aug-14	22						🗖 Pier	AA18 - Pi	ing Works																									
BA-15-1010	PierAA15 - Pile Test	14 14	01-Aug-14	16-Aug-14	221						Pier	AA15 - P	le Test																									
BA-04-1020	PierAA4 - Pile Cap	30 30		02-Sep-14	17						- <mark></mark> - F	PierAA(4 - I	Ne Cap																									
BA-16-1000		12 12		04-Sep-14	264							PerAA16		orks																								
BA-01-1010		14 14		08-Sep-14									AA1 Pik																									
BA-18-1010		14 14	-	25-Sep-14							ΙT	PierAA																										
BA-03-1020		30 30		27-Sep-14							11	PierAA																										
														J																	ļ	Ļ						
BA-02-1020		30 30		10-Oct-14	22							Pier/	AA16 - PI																									
BA-16-1010		14 14		18-Oct-14	264																																	
BA-09-1020		30 30		22-Oct-14	126							Pie																										
BA-14-1020		30 30		22-Oct-14	157							Pie																										
BA-10-1000		24 24		25-Oct-14	118							Pie																										
BA-18-1020		30 30		04-Nov-14	20								Per AA18																									
BA-04-1030	PierAA4 - Pier Construction	17 17	18-Oct-14	06-Nov-14	2							-	erAA4 -	Pier Cons	struction																							
BA-02-2020	PierAA2E - Pile Cap	30 30	11-Oct-14	14-Nov-14	22							-	Pier AA2E	- Pile Ca	ap																							
BA-03-1030	PierAA3 - Pier Construction	10 10	07-Nov-14	18-Nov-14	2								Pier AA3	Pier Co	onstructio	n																						
BA-13-1030	PierAA13 - Pier Construction	38 38	09-Oct-14	21-Nov-14	136							-	PierAA1	8 - Pler C	Construc	tion																						
BA-15-1020	PierAA15 - Pile Cap	30 30	23-Oct-14	26-Nov-14	167							-	PierAA	15 - Pile (Cap															-								
BA-10-1010	PierAA10 - Pile Test	14 14	20-Nov-14	05-Dec-14	118								PierA	A10 - Pile	e Test																							
BA-18-1030	Pier AA18 - Pier Construction	24 24	04-Dec-14	03-Jan-15	16								P	NerAA18	- Pier Co	onstruction																						
BA-01-1020	Abutment AA1 - Pile Cap & Abutment Construction	45 45	17-Nov-14	10-Jan-15	77								÷	Abuthen	it AA1 - I	Pilé Cap & A	butmient C	onstruction																				
BA-14-1030	PierAA14 - Pier Construction	45 45	22-Nov-14	16-Jan-15	152							1		Pier AA1	4 - Pier (Construction																						
BA-10-1020	PierAA10 - Pile Cap	30 30	13-Dec-14	20-Jan-15	112						·		-	PierAA1	10 - Pije	Cap															+							
BA-02-2030	PierAA2E - Pier Construction	10 10	14-Jan-15	24-Jan-15	47								•	Pier AA	2E - Pie	r Constructio	n																					
BA-07-1000	PierAA7 - Piling Works	24 24	30-Dec-14	27-Jan-15	99									PierAA	A7 - Pilin	g Works																						
BA-02-1030	PierAA2W - Pier Construction	10 10	26-Jan-15	05-Feb-15	47									Pier A	42W-F	Pier Constru	tion																					
BA-11-1000	PierAA11 - Pilng Works	24 24	24-Jan-15	27-Feb-15	154									рі	ier AA11	- Piling Wor	s																					
BA-15-1030	Pier AA15 - Pier Construction	31 31	17-Jan-15	28-Feb-15	152						• • • • • • • • • • • • • • • • • • • •			Pi	ier AA15	- Pier Cons	ruction														+	·						
BA-07-1010	PierAA7 - Pile Test	14 14	28-Feb-15	16-Mar-15	99										Pier AA	7 Pile Test																						
BA-16-1020	PierAA16 - Pile Cap	30 30	09-Feb-15	21-Mar-15	171										PierAA	416 - Pile Ca	p																					
BA-08-1000	Pier AA8 - Piling Works	12 12	18-Mar-15	31-Mar-15	290										Piér/	AA8 - Piling	Works																					
BA-02-2040	Portal AA2 - Portal Construction	20 20	10-Mar-15	01-Apr-15	47											al AA2 - Port		ion																				
BA-11-1010	PierAA11 - Pie Test	14 14	25-Mar-15	14-Apr-15	154							.			⊨ ■ P⊭	ar AA11 - Pile	Test		ļ																			
BA-07-1020		30 30		08-May-15	88											Pier AA7 -																						
BA-08-1010		14 14	30-Apr-15	16-May-15	290											PierAA8	Pile Test																					
BA-11-1020		30 30		05-Jun-15												Pier A/		ap																				
BA-09-1030		24 24		15-Jun-15	78											Pier A																						
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Activity ID	Activity Name	OD	RD	Start	Finish TF			2014					2015			[20						2017			_	201				20		
BA-07-1030	Pier AA7 - Pier Construction	17	17	16-Jun-15	A S Oct N 07-Jul-15 78	D Jan F	F Mar Apr M	I Jun Jul	ASO	ct N Dec	lan F Mai	r Apr M	Iun Jul A	S Oct VA7 - Pier (N Dec Constructi	Jan F In	Mar Apr	M Jun	Jul A	S Oct	N Dec J	an F Mar	Apr M Ju	in Jul .	A S Oct	lov D Jan F	Mar Apr	r M Jun	IUL A S	Oct N D	ec Jan F	Mar Apr	M Jun Jul	A
BA-10-1030	PierAA10 - Pier Construction	24	24	06-Jul-15	01-Aug-15 146								E F	ierAA10 -	Pier Cons	truction																		
BA-11-1030	Pier AA11 - Pier Construction	31	31	03-Jul-15	07-Aug-15 150									Per AA11 -		taurton																		
																aucuon																		
BA-08-1020	PierAA8 - Pile Cap	30	30	14-Jul-15	17-Aug-15 244									Pier AA8																				
BA-08-1030	PierAA8 - Pier Construction	17	17	11-Sep-15	02-Oct-15 244									Pi	er AA8 - F	er Constr	tuction																	
BA-06-1000	PierAA6 - Piling Works	24	24	05-May-16	02-Jun-16 26													Pi	rAA6 - Pili	ing Works														
BA-06-1010	Pier AA6 - Pile Test	14	14	29-Jun-16	15-Jul-16 26														PierA	A6 Pile Te	est													
BA-06-1020	Pier AA6 - Pile Cap	30	30	23-Jul-16	26-Aug-16 20														-	Pier AA6 -	Pile Cap													
BA-06-1030	Pier AA6 - Pier Construction	17	17	22-Sep-16	13-Oct-16 20															- Pi	er AA6 - P	er Construct	on											
Bridge B		759	759	07-Feb-14	05-Sep-16 51			·······																				+						
BB-05-1000	Pier AB5 - Piling Works	12	12	07-Feb-14	20-Feb-14 8		PierAB5 - Pi	iling Works;																										
BB-09-1000	PierAB9 - Piling Works	24	24	04-Mar-14	31-Mar-14 2		🔲 Pier Al	B9 - Pling W	/orks																									
BB-05-1010	PierAB5 - Pile Test	14	14	18-Mar-14	02-Apr-14 9			.85 - Pile Tes																										
BB-05-1020	PierAB5 - Pile Cap	30	30	03-Apr-14*	14-May-14 9			Pier AB5 - P																										
																																		Ļ
BB-09-1010	PierAB9 - Pile Test	14	14	30-Apr-14	17-May-14 6			Pier AB9 + F																										
BB-08-1000	PierAB8 - Piling Works	12	12	23-May-14	06-Jun-14 8			Pier A&																										
BB-09-1020	PierAB9 - Pile Cap	30	30	19-May-14	23-Jun-14 6			Pier A	AB9 - Pile C	ap																								
BB-05-1030	Pier AB5 - Pier Construction	24	24	16-Jun-14	14-Jul-14 16			Pi	erAB5 - Pi	er Construction	in																							
BB-07-1000	PierAB7 - Piling Works	24	24	18-Jun-14	16-Jul-14 8			Pi	ier AB7 Pi	ling Werks																								
BB-08-1010	PierAB8 - Pile Test	14	14	03-Jul-14	18-Jul-14 8			D P	ierAB8 P	le Test																		+						
BB-06-1000	PierAB6 - Piling Works	24	24	14-Jul-14	09-Aug-14 109				Pier AB6	- Piling Wor	s																							
BB-09-1030	Pier AB9 - Pier Construction	24	24	19-Jul-14	15-Aug-14 11			1	Pier AB	Pier Cons	ruction																							
BB-08-1020	PierAB8 - Pile Cap	30	30	19-Jul-14	22-Aug-14 8				Pier AE	8 - Pile Cap																								
BB-07-1010	Pier AB7 - Pile Test	14	14	11-Aug-14	26-Aug-14 8				PierA	B7 - Pile Test																								
BB-06-1010	Pier AB6 - Pile Test	14	14	04-Sep-14	20-Sep-14 269	ļļ				erAB6 - Pile	Toot				ļļ			ļ														ļ		.
BB-07-1020																																		
	PierAB7 - Pile Cap	30	30	27-Aug-14	03-Oct-14 8					Pier AB7 - Pi																								
BB-08-1030	PierAB8 - Pier Construction	24	24	18-Sep-14	17-Oct-14 8					Pier AB8	Pier Constru	ction																						
BB-10-1000	Pier AB10 - Piling Works	24	24	04-Oct-14	31-Oct-14 100					Pier AB1	0 - Piling Wo	otks																						
BB-11-1000	PierAB11 - Piling Works	24	24	21-Oct-14	17-Nov-14 441					Pier A	B11 - Piling \	Vorks																						
BB-07-1030	Pier AB7 - Pier Construction	24	24	29-Oct-14	25-Nov-14 8					Pier	AB7 - Pier C	onstruction											T					1 I I						Î
BB-10-1010	Pier AB10 - Pile Test	14	14	26-Nov-14	11-Dec-14 100					<u>р</u> в	er AB10 - Pil	e Test																						
BB-11-1010	PierAB11 - Pile Test	14	14	12-Dec-14	30-Deo-14 453						PierAB11 -	Pile Test																						
BB-12-1000A	Abutment AB12/AD14 - Piling Works	45	45	14-Nov-14	08-Jan-15 441						Abutment	AB12/AD1	I - Piling Wo	rks																				
BB-10-1020	PierAB10 - Pile Cap	30	30	12-Jan-15	14-Feb-15 77						Pier	AB10 - Pile	Сар																					
BB-12-1010	Abutment AB12/AD14 - Pile Test	14	14	03-Feb-15	18-Feb-15 441	+		+			🗖 Abi	Itment AB1	2/AD14 Pil	Test														+ + + +						÷
BB-06-1020	PierAB6 - Pile Cap	30	30	17-Jan-15	27-Feb-15 173							erAB6 - Pik																						
BB-03-1000	PierAB3 - Piling Works	24	24	28-Jan-15	03-Mar-15 109							ier AB3 - Pil																						
BB-11-1020	PierAB11 - Pile Cap	30	30	28-Jan-15	10-Mar-15 430							Pier AB11																						
BB-02-1000	PierAB2 - Piling Works	12	12	04-Mar-15	17-Mar-15 169							Pier AB2																						
BB-01-1000	Abutment AB1 - Piling Works	24	24	18-Feb-15	24-Mar-15 179							Abutment		Works																				
BB-03-1010	Pier AB3 - Pile Test	14	14	28-Mar-15	17-Apr-15 109							Pier A	B3 - Pile Tes	a																				
					A -1 134/1			<u> </u>			CE	DD	Cor	tra	ct N		CV	/201	12/0	0						Date	, <u></u>	Re	evision		hecke	d A	Approve	əd
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Activity ID	Activity Name	OD RI	5 Start	Finish	TF	2014		2015		2016			2017		2018		2019
BB-02-1010	PierAB2 - Pile Test	14 1	4 16-Apr-15	02-May-15	A S Oct N D .	an F Mar Apr M Jun Jul A S Oc		Jun Jul A S Oct N I rAB2 - Pile Tetst	Dec Jan F Mar Apr	M Jun Jul A S	Oct N Dec Jan	F Mar Apr M Ju	in Jul A S	Oct Nov D Jan F Mar A	pr M Jun Jul A S O	t N Dec Jan F Ma	ar Apr M Jun Jul A
BB-01-1010	Abutment AB1 - Pile Test	14 1	4 23-Apr-15	09-May-15	179			outment AB1 - Pile Test									
BB-06-1030	PierAB6 - Pier Construction	24 2	4 23-Apr-15		152			Pier AB6 - Pier Construction									
					130												
BB-12-1020	Abutment AB12/AD14 - Pile Cap & Abutment Construction	60 6			130			Abutmeht AB12/AD14 - Pile	Cap & Abutment Const	ruction							
BB-03-1020	PierAB3 - Pile Cap	30 3		13-Jun-15	92			Pier AB3 - Pile Cap									
BB-10-1030	Pier AB10 - Pier Construction	24 2	4 22-May-15	19-Jun-15	33			Pier AB10 - Pier Construction	tion								
BB-02-1020	PierAB2 - Pile Cap	30 3	0 06-Jun-15	13-Jul-15	141			Pier AB2 - Pile Cap									
BB-01-1020	Abutment AB1 - Pile Cap & Abutment Construction	45 4	5 15-Jun-15	07-Aug-15	150			Abutment AB1 -	Pile Cap & Abutment Co	onstruction							
BB-03-1030	Pier AB3 - Pier Construction	10 1	0 28-Jul-15	07-Aug-15	78			Pler AB3 - Pier C	onstruction								
BB-02-1030	PierAB2 - Pier Construction	10 1	0 28-Aug-15	08-Sep-15	123			🗖 PierAB2 - P	ier Construction								
BB-11-1030	PierAB11 - Pier Construction	24 2	4 29-Oct-15	25-Nov-15	273				Pier AB11 - Pier Consta	uction							
BB-04-1000	PierAB4 - Piling Works	24 2	4 06-Apr-16	04-May-16	20					PierAB4 - Piling Wo	ones						
BB-04-1010	PierAB4 - Pile Test	14 1	4 31-May-16	16-Jun-16	20					PierAB4 - Pil	le Test						
BB-04-1020	PierAB4 - Pile Cap	30 3			20					PierAB						+	
BB-04-1030	PierAB4 - Pier Construction	17 1		05-Sep-16							Pler AB4 - Plier Cons						
	mer Ab4 - mer Construction				35						Plei Ab4 - mer Gons	ucaon					
Bridge C		566 55		10-Oct-15	256												
BC-04-1000	PierAC4 - Piling Works	24 2	3 20-Nov-13 A	17-Dec-13	13 P	er AC4 - Piling Works, Pier AC4 - Piling Work											
BC-04-1010	PierAC4 - Pile Test	14 1	4 15-Jan-14	30-Jan-14	37	Piér AC4 - Pile Tést											
BC-04-1020	PierAC4 - Pile Cap	30 3	0 07-Feb-14*	13-Mar-14	37	PierAC4 - Pile Cap											
BC-01-1000	Abutment AC1 - Piling Works	24 2	4 04-Mar-14	31-Mar-14	2	Abutment AC1 - Piling Works											
BC-05-1000	PierAC5 - Piling Works	24 2	4 19-Mar-14	16-Apr-14	64	Pier AC5 Piling Works											
BC-04-1030	PierAC4 - Pier Construction	24 2	4 09-Apr-14	12-May-14	132	Pier AC4 - Pier Construc	ion										
BC-06-1000	PierAC6 - Piling Works	24 2	4 14-Apr-14	16-May-14	73	Pier AC6 - Piling Works											
BC-01-1010	Abutment AC1 - Pile Test	14 1	4 30-Apr-14	17-May-14	25	Abutment AC1 - Pile Te	st									+	
BC-09-1000	PierAC9 - Piling Works	24 2		23-May-14	8	Pier AC9 - Piling Work											
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BC-05-1010	PierAC5 - Pile Test	14 1		03-Jun-14	04	PierAC5 - Pile Test											
BC-06-1010	Pier AC6 - Pile Test	14 1	4 12-Jun-14	27-Jun-14	73	PierAC6 - Pile Ti	șt										
BC-09-1010	PierAC9 - Pile Test	14 1	4 19-Jun-14	05-Jul-14	26	Pier AÇ9 - Pile	fest										
BC-07-1000	PierAC7 - Piling Works	24 2	4 04-Jul-14	31-Jul-14	230	Pier AC7 - I	Aling Works										
BC-05-1020	PierAC5 - Pile Cap	30 3	0 07-Jul-14	09-Aug-14	37	PierAC5	Pile Cap										
BC-09-1020	PierAC9 - Pile Cap	30 3	0 07-Jul-14	09-Aug-14	26	PierAC9	Pile Čap										
BC-10-1000	PierAC10 - Piling Works	12 1	2 13-Aug-14	26-Aug-14	109	Pier AC	0 - Piling Works										
BC-11-1000	PierAC11 - Piling Works	12 1	2 15-Aug-14	28-Aug-14	25	D PierAC	11 - Piling Works										
BC-07-1010	PierAC7 - Pile Test	14 1	4 26-Aug-14	11-Sep-14	230	Pier.	VC7 - Pile Test					+ + + + + + + + + + + + + + + + + + +			-+-+-+-+-+-	+	
BC-06-1020	PierAC6 - Pile Cap	30 3	0 11-Aug-14	15-Sep-14	37	Pier	AC6 - Pile Cap										
BC-02-1000	PierAC2 - Piling Works	24 2	4 28-Aug-14	25-Sep-14	112	Pi	tAC2 - Pilling Works										
BC-09-1030	PierAC9 - Pier Construction		7 17-Sep-14	08-Oct-14	16		er AC9 - Pier Construction										
BC-10-1010	PierAC10 - Pile Test		4 22-Sep-14	09-Oct-14	109		er AC10 Pile Test										
	PierAC10 - Mie lest				24											ļ. ļ. ļ. l.	
BC-11-1010			4 24-Sep-14		34		PierAC11 - Pile Test										
BC-08-1000	PierAC8 - Piling Works	24 2			282		PierAC8 - Piling Works										
BC-05-1030	PierAC5 - Pier Construction	24 2	4 09-Oct-14	05-Nov-14	16		Pier AC5 - Pier Construction										
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BC-02-1010	PierAC2 - Pile Test	14	14 2	23-Oct-14	07-Nov-14 112	D Jan F	n F Mar	Apr M	Jun Jul	AS		Dec Jan Per AC2 - P		Apr M Ji	un Jul	ASC	Dat N D	Dec Jan	F Mar	Apr M	Jun Jul	IAS	Oct N	Dec Jar	F Mar	Apr M	lun Jul .	A S Oct	Nov D	Jan F Mar	Apr M	Jun Jul	A S	Oct N De	ic Jan F	Mar Apr	M Jun Jul A
BC-11-1020	PierAC11 - Pile Cap	30	30 1	13-Oct-14	15-Nov-14 34							Pier AC11	- Pile Cap																								
BC-06-1030	PierAC6 - Pier Construction	24	24 0	06-Nov-14	03-Dec-14 16							PierAG	BiorCo										ļ	ļ					ļ			ļ	ļļ				
														11																							
BC-08-1010	PierAC8 - Pile Test	14		21-Nov-14	06-Deo-14 282							PierAC																									
BC-10-1020	PierAC10 - Pile Cap	30	30 0	05-Nov-14	09-Dec-14 87							PierAC	:10 - Pile (Cap																							
BC-02-1020	PierAC2 - Pile Cap	30	30 0	08-Nov-14	12-Dec-14 112							Pier AC	C2 - Pile C	ар																							
BC-07-1020	PierAC7 - Pile Cap	30	30 2	27-Nov-14	03-Jan-15 167							Pie Pie	r AC 7 - Pi	e Qap																							
BC-11-1030	Pier AC11 - Pier Construction	17	17 0	05-Jan-15	23-Jan-15 16		TT						Pier AC 11	- Pler Cor	nstruction							1		1													
BC-03-1000	PierAC3 - Piling Works	24	24 3	30-Dec-14	27-Jan-15 116								PierAC8	Piling We	orks																						
BC-03-1010	PierAC3 - Pile Test	14	14 2	28-Feb-15	16-Mar-15 116								– •	ier AC3 F	Pile Test																						
BC-07-1030	PierAC7 - Pier Construction	24	24 0)2-Mar-15	28-Mar-15 152									PierAC7	- Pier Con	struction																					
BC-03-1020	PierAC3 - Pile Cap	30	30 2	21-Mar-15	29-Apr-15 112									Pier/	AC3 - Pile	Cap																					
BC-10-1030	PierAC10 - Pier Construction	17		27-Apr-15	16-May-15 47		+							Di Pi	erAC10 -	Pier Con:	struction						ļ	÷								ļ	ļ				
BC-08-1020	PierAC8 - Pile Cap	30		2-May-15	06-Jun-15 171											8 - Pile Ca																					
BC-02-1030	PierAC2 - Pier Construction	17		13-Jun-15	04-Jul-15 146												er Constru	iction																			
BC-03-1030	Pier AC3 - Pier Construction	17		08-Jul-15	27-Jul-15 78											Pier AC3 ·	PierCon	struction																			
BC-08-1030	PierAC8 - Pier Construction	24	24 0)3-Aug-15	29-Aug-15 146											Pier.	ACB - Pier	r Constru	ction																		
BC-01-1020	Abutment AC1 - Pile Cap & Abutment Construction	45	45 1	18-Aug-15	10-Oct-15 256											+	Abutme	ntAC1	Pile Cap	& Abutm	ent Cons	struction															
Bridge D		525	525 1	11-Jan-14	28-Oct-15 258																																
BD-02-1000	PierAD2 - Piling Works	12	12 1	11-Jan-14	24-Jan-14 13	🗖 Pie	Pier AD	2 - Piling W	/orks																												
BD-03-1000	PierAD3W - Piling Works	12	12 2	22-Jan-14	11-Feb-14 22		Pier/	D3W - Pé	ng Works																												
BD-03-2000	PierAD3E- Piling Works	12	12 1	12-Feb-14	25-Feb-14 22		🔲 Pie	AD3E-P	ling Works																												
BD-02-1010	PierAD2 - Pile Test	14	14 2	26-Feb-14	13-Mar-14 13		+	Pier AD2 -	Pile Test														ļ										ļ	r			
BD-03-1010	PierAD3W - Pile Test	14		08-Mar-14	24-Mar-14 58			Pier AD3		tot																											
BD-03-2010	PierAD3E - Pile Test	14		22-Mar-14	08-Apr-14 22			PierA																													
BD-07-1000	PierAD7 - Piling Works	24		20-Mar-14	17-Apr-14 8			Pier A																													
BD-02-1020	Pier AD2 - Pile Cap	30	30 14	4-Mar-14*	22-Apr-14 13		•	Pier/	AD2 - Pile (Cap																											
BD-10-1000	PierAD10 - Piling Works	24	24 2	28-Mar-14	29-Apr-14 2			Pie	AD10 - Pi	iling Wo	eks																										
BD-09-1000	PierAD9 - Piling Works	24	24 2	26-Apr-14	26-May-14 8			-	Pier AD9	- Piling V	Vorks																										
BD-03-1020	PierAD3W - Pile Cap	30	30 2	23-Apr-14	29-May-14 37			-	Pier AD3\	W - Pile	Сар																										
BD-03-2020	PierAD3E - Pile Cap	30	30 2	23-Apr-14	29-May-14 13			-	Pier AD38	E - Pile C	Сар																										
BD-02-1030	Pier AD2 - Pier Construction	10	10 2	20-May-14	30-May-14 51				Pier AD2	- Pier Co	onstructio	'n																									
BD-07-1010	Pier AD7 - Pile Test	14	14 1	19-May-14	04-Jun-14 22		+	-	Pler AD 7	7 - Pile Te	est												+														
BD-04-1000	PierAD4 - Piling Works	12	12 2	28-May-14	11-Jun-14 141				Pier AD	04 - Piling	Works																										
BD-10-1010	Pier AD10 - Pile Test	14	14 2	27-May-14	12-Jun-14 2				Pier AD	010 - Pile	e Test																										
BD-03-1030	PierAD3W - Pier Construction	10	10 2	26-Jun-14	08-Jul-14 136				D Pie	er AD3W	- Pier C.	onstruction																									
BD-09-1010	Pier AD9 - Pile Test	14		21-Jun-14	08-Jul-14 11				- Pie																												
BD-10-1020	PierAD10 - Pile Cap	30		13-Jun-14	18-Jul-14 2					Ner AD10														ļļ					ļļ			ļ	ļļ				
BD-03-2030	Pier AD3E - Pier Construction	10		09-Jul-14	19-Jul-14 136					Pier AD38	I																										
BD-04-1010	PierAD4 - Pile Test	14	14 (08-Jul-14	23-Jul-14 141					PierAD4																											
BD-07-1020	PierAD7 - Pile Cap	30	30 2	24-Jun-14	29-Jul-14 6					PierAD	7 - Pile C	ap																									
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Activity ID	Activity Name	OD	RD	Start	Finish TF	2014 2015 2016 2017 2018	3	2019
BD-09-1020	Pier AD9 - Pile Cap	30	30	19-Jul-14	22-Aug-14 2 Jan	MarlApr M Jun Jul A S Oct N Dec Lan F MarlApr M Jun Jul A S Oct N Dec Lan F MarlApr M Jun Ju A S Oct N Dec Lan F MarlApr M Jun Ju A S Oct N Dec Lan F MarlApr M Jun Ju A S Oct Nov D Jan F MarlApr M Jun Ju	ul A S Oct N Dec Jan F Mar	r Apr M Jun Jul A
BD-05-1000	Pier AD5 - Piling Works	24	24	29-Jul-14	25-Aug-14 239		-+-+-	
BD-08-1000	PierAD8 - Piling Works	12	12	27-Aug-14	10-Sep-14 127			
BD-07-1030	Pier AD7 - Pier Construction	17	17	23-Aug-14	12-Sep-14 6	Per/07-Per Construction		
				-				
BD-10-1030	Pier AD 10 - Pier Construction	24	24	16-Aug-14	13-Sep-14 11	Per 4D 10: Per Costinuzion		
BD-04-1020	PierAD4 - Pile Cap	30	30	11-Aug-14	15-Sep-14 126	PerADa Phe Cap		
BD-11-1000	PierAD11 - Piling Works	24	24	01-Sep-14	29-Sep-14 25	Per ADY - Pirce Vices		
BD-06-1000	Pier AD6 - Piling Works	24	24	02-Sep-14	30-Sep-14 273	Page Alge - Alleng Woods		
BD-05-1010	PierAD5 - Pile Test	14	14	20-Sep-14	08-Oct-14 239			
BD-03-2040	Portal AD3 - Portal Construction	45	45	14-Aug-14	08-Oct-14 136			
BD-09-1030	Pier AD9 - Pier Construction	24	24	18-Sep-14	17-Oct-14 2	Per AD9 - Per Construction		
BD-08-1010	PierAD8 - Pile Test	14	14	08-Oct-14	23-Oct-14 127			
BD-13-1000	PierAD13 - Piling Works	24	24	24-Sep-14	23-Oct-14 441			
BD-11-1010	PierAD11 - Pile Test	14	14	27-Oct-14	11-Nov-14 25			
BD-06-1010	Pier AD6 - Pile Test	14	14	28-Oct-14	12-Nov-14 273	Per/D6-Pie Fest		
BD-01-1000	Abutment AD1 - Piling Works	24	24	27-Oct-14	22-Nov-14 124	🚍 : Abulmer): AD(1 - Pling) Works		
BD-12-1000	Pier AD12 - Piling Works	24	24	04-Nov-14	01-Dec-14 104	Period Part AD12 - Princip Works		
BD-13-1010	PierAD13 - Pile Test	14	14	18-Nov-14	03-Dec-14 444	D PerAD13-PPE Res		
BD-11-1020	PierAD11 - Pile Cap	30	30	15-Nov-14	19-Dec-14 22			
BD-01-1010	Abutment AD1 - Pile Test	14	14	18-Dec-14	06-Jan-15 124			
BD-10-1040	Portal AB8/ AD1 0 - Portal Construction	45	45	19-Nov-14	13-Jan-15 2	temi ABV ABY O-Porta Construion		
BD-12-1010	Pier AD 12 - Pile Test	14	14	29-Dec-14	14-Jan-15 104			
BD-08-1020	PierAD8 - Pile Cap	30	30	10-Dec-14	16-Jan-15 87	- Percos		
BD-13-1020	PierAD13 - Pile Cap	30	30	20-Dec-14	27-Jan-15 430	PérAD(3-Pie Cap		
BD-05-1020	PierAD5 - Pile Cap	30	30	05-Jan-15	07-Feb-15 167	nierAD5 - Pie Čap		
		45						
BD-09-1040	Portal AB7/AD9 - Portal Construction		45	20-Dec-14	13-Feb-15 8			
BD-11-1030	Pier AD11 - Pier Construction	24	24	24-Jan-15	27-Feb-15 16	PerAD)1 - Per Constantin		
BD-01-1020	Abutment AD1 - Pile Cap & Abutment Construction	45	45	21-Jan-15	20-Mar-15 112	Abufmeri ADI - Pip Capis Abufmeri Construction		
BD-08-1030	Pier AD8 - Pier Construction	24	24	14-Feb-15	20-Mar-15 84	Per 203: Per Costruction		
BD-12-1020	PierAD12 - Pile Cap	30	30	16-Feb-15	28-Mar-15 77	Pag-b02-7#a Cap		
BD-05-1030	Pier AD5 - Pier Construction	17	17	30-Mar-15	22-Apr-15 152			
BD-04-1030	Pier AD4 - Pier Construction	17	17	02-Apr-15	25-Apr-15 47			
BD-06-1020	PierAD6 - Pile Cap	30	30	23-Mar-15	30-Apr-15 171	PeirADB-FRecep		
BD-11-1040	Portal AB9/ AD11 - Portal Construction	45	45	25-Mar-15	21-May-15 16	Pompu Agiv Apri - Pompu Agiv Apri - Pompu Agiv Apri - Pompu Agivana Alion		
BD-08-1040	Portal AC11/AD8 - Portal Construction	45	45	20-Apr-15	12-Jun-15 84	Ponal AC 11/AD 8- Ponal Construction		
BD-12-1030	PierAD12 - Pier Construction	24	24	22-Jun-15	20-Jul-15 33	Perk012 - Per Construction		
BD-06-1030	Pier AD6 - Pier Construction	17	17	08-Aug-15	27-Aug-15 123		-+	
BD-12-1040	Portal AB10/ AD 12 - Portal Construction	45	45	14-Aug-15	27-Sep-15 39			
				-		PoterApTurPut ProteinUngendum		
BD-13-1030	Pier AD13 - Pier Construction	24	24	29-Sep-15	28-Oct-15 258	Per AD 3 - Per Construction		
ViaductBridge Sege	ement Erection	643		04-Dec-14	17-Feb-17 2			
Bridge A		584	584	04-Dec-14	30-Nov-16 6			
			_		A - t 13A/1	CEDD Contract No. CV/2012/09 Date Rev	vision Checked	Approved
					Actual Work	29-Jan-14 Rev4		Daniel
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Activity ID	Activity Name	OD H	RD Start	Finish	F		(2014					2015			-			2016			_			2017					201					2019	
EA-1120	Bridge Deck Construction at Pier AA12 by Typical Lifting Frame (20 nos)	60	60 04-Dec-14	14-Feb-15	A S C	Dat N D	Jan F Mar	Apr M J	un Jul A	S Oct N	Dec Jan					Oct N D					A S	Oct	N Dec J	an F Ma	ar Apr M	Jun Jul A	S Oct	Nov D	Jan F I	Mar Apr 1	M Jun J	ul A S	Oct N	Dec Jar	n F Ma	IT Apr M	Jun Jul
EA-1130	Bridge Deck Construction at Pier AA13 by Typical Lifting Frame (25 nos)	23	23 27-May-15	23-Jun-15	6									Brido	e Deck C	onstruction	n at PierA	A1B by 1	Typical L	ifting Fram	e (25 no																
EA-1140	Bridge Deck Construction at Pier AA14 by Typical Lifting Frame (21 nos)	10	10 03-Sep-15	14-Sep-15	6										1 B	ridne Deck	Constra	rtion at R	Pior d d 1	4 ov Tivpica	Lifting F	Frame	21 009)														
EA-1180	Bridge Deck Construction at Pier AA18 by Typical Lifting Frame (27 nos)		22 03-Nov-15	27-Nov-15	0															at Pier AA																	
EA-1170			15 28-Nov-15	15-Dec-15														Deck Co		oh at Pier/		TT		ΠŢ													
	Bridge Deck Construction at Pier AA17 by Typical Lifting Frame (19 nos)				•																				"												
EA-1150	Bridge Deck Construction at Pier AA15 by Typical Lifting Frame (20 nos)		11 16-Dec-15	30-Dec-15	6												T			iction at Pie		11			T I												
EA-1020	Bridge Deck Construction at Portal AA2 by Typical Lifting Frame (17 nos)		10 15-Jan-16	26-Jan-16	6															nstruction a																	
EA-1010	Bridge Deck Construction at Abutment AA1 (End-span) by Falsework & Crane (6 nos)	13	13 22-Jan-16	05-Feb-16 1	55													Blidge	Deck Cr	onstruction	at Albutn	ment AA	1 (End-spa	in) by Fal	iework & Cre	ne (6 nos)											
EA-1030	Bridge Deck Construction at Pier AA3 by Typical Lifting Frame (20 nos)	10	10 27-Jan-16	06-Feb-16	6												•	Bridge	Deck C	ohstruction	at Pler A	ААЗ БУ Т	Typical Lifti	ng Franne	(20 nois)												
EA-1040	Bridge Deck Construction at Pier AA4 by Typical Lifting Frame (20 nos)	11	11 15-Feb-16	26-Feb-16	6													🗖 Brid	lge Decl	k Construct	tion at Pi	ier AA4 t	oy Typical I	ifting Fra	me (20 nos)												
EA-1160	Bridge Deck Construction at Pier AA16 by Typical Lifting Frame (28 nos)	13	13 30-Mar-16	14-Apr-16	6													-	Brid	ge Deck C	onstructio	ion at Pie	er AA16 by	Typical L	fting Frame	(28 nos)											
EA-1050	Bridge Deck Construction at Pier AA5 by Typical Lifting Frame (16 nos)	11	11 27-May-16	08-Jun-16	6															🛱 Bridge	Deck C	Construct	tion at Pier	AA5 by T	pical Lifting	Frame (16 n	os)										
EA-1100	Bridge Deck Construction at Pier AA10 by Typical Lifting Frame (25 nos)	20	20 10-Jun-16	04-Jul-16	6															в	idge Dec	ck Const	truction at	Pier AA 10	by Typical L	fting Frame	(25 nos)										
EA-1090	Bridge Deck Construction at Pier AA9 by Typical Lifting Frame (17 nos)	10	10 02-Aug-16	12-Aug-16	6																🛛 Bridg	ge Deck	Construct	ion at Pie	AA9 by Typ	cal Lifting Fr	ame (17 n	as)									
EA-1080	Bridge Deck Construction at Pier AA8 by Typical Lifting Frame (20 nos)	11	11 13-Aug-16	25-Aug-16	6																🗖 Bri	ridge Die	ck Constru	iction at P	ier AA8 by T	pical Lifting	Frame (20	nos)									
EA-1110	Bridge Deck Construction at Pier AA11 by Typical Lifting Frame (23 nos)	11	11 10-Sep-16	23-Sep-16	6								-+									Bridge	e Djeck Co	nstruction	at Pier AA1	by Typical L	ifting Fram	te (23 nos					+			+	+
EA-1070	Bridge Deck Construction at Pier AA7 by Typical Lifting Frame (18 nos)	10	10 22-Oct-16	02-Nov-16	6																		Bridge De	ck Const	uction at Pie	r AA7 by Typ	ical Lifting	Framje (1	s nos)								
EA-1060	Bridge Deck Construction at Pier AA6 by Typical Lifting Frame (27 nos)		13 16-Nov-16	30-Nov-16	6																		Bridg	e Deck C	onstruction a	t Pier AA6 b	y Typical Li	fting Fram	e (27 nos)								
Bridge B		547 5	547 10-Apr-15	17-Feb-17	2																																
EB-1080	Bridge Deck Construction at Pier AB8 by Special Lifting Frame (38 nos)		18 10-Apr-15	30-Apr-15	2								Bribi	te Deck (Constructio	on at Pier	AB8 by S	pedial Lif	ting Fra	mle (38 nov	5)																
EB-1070	Bridge Deck Construction at Pier AB7 by Special Lifting Frame (30 nos)		23 29-May-15	25-Jun-15	2		 									onstruction				ifting From	e (33 nos							ļļ									
EB-1090			93 29-Jul-15	17-Nov-15	2										le rieck o			NDI, UY S	peualt		e (33 no:																
	Bridge Deck Construction at Pier AB9 by Special Lifting Frame (41 nos)				2												nuge Dec	x Qonsa	ucuon a	L Her Abs I	ay opeca	a Lifting		r nos)													
EB-1060	Bridge Deck Construction at Portal AB6 by Typical Lifting Frame (27 nos)		11 27-Feb-16	10-Mar-16	6																iction at I				Frame (27 n												
EB-1100	Bridge Deck Construction at Pier AB10 by Special Lifting Frame (60 nos)		93 18-Nov-15	15-Mar-16	2														Bridgle D		uctioh at				Frame (60												
EB-1050	Bridge Deck Construction at Pier AB5 by Typical Lifting Frame (20 nos)		11 13-May-16	26-May-16	6															Bridge D	leck Con	nstruction	n at PierA	B5 by Typ		ame (20 nos											
EB-1020	Bridge Deck Construction at Pier AB2 by Typical Lifting Frame (23 nos)	13	13 26-Aug-16	09-Sep-16	6																•	Bridge E		truction a		Typical Liftir											
EB-1010	Bridge Deck Construction at Abutment AB1 (End-span) by Falsework & Crane (11 nos)	13	13 02-Sep-16	17-Sep-16 0	57																•	Bridge		istruction		AB1 (End-sp	ian) by Fal	sework &	Cran e (11	nos)							
EB-1030	Bridge Deck Construction at Pier AB3 by Typical Lifting Frame (26 nos)	12	12 07-Oct-16	21-Oct-16	6																	•				AB3 by Typic	a Lifting F	rame (26	nos)								
EB-1040	Bridge Deck Construction at Pier AB4 by Typical Lifting Frame (27 nos)	11	11 03-Nov-16	15-Nov-16	6																		Bridge	Deck Con	struction at	ier AB4 by T	ypical Liftir	ng Frame	(27 nos)								
EB-1120	Bridge Deck Construction at Abutment AB12/AD14 (End-span) by Falsework & Crane (8 nos)	26	26 23-Nov-16	22-Dec-16	2																		ф в	ridge Diec		n at Abutme	nt AB12/A		span) by F	alse work &	\$Crane (8	nas)					
EB-1110	Bridge Deck Construction at Pier AB11 by Special Lifting Frame (60 nos)	72	72 16-Nov-16	17-Feb-17	2																			Br		onstruction a			al Lifting F	rame (60) n	105)						
Bridge C		478 4	478 16-Feb-15	06-Oct-16	6																																
EC-1040	Bridge Deck Construction at PierAC4 by Typical Lifting Frame (22 nos)	14	14 16-Feb-15	10-Mar-15	6							📫 Eri	dge Deck	Construc	tion at Pie	arAC4 by	Typical Lif	fting Fran	ne (22 n	ios)																	
EC-1050	Bridge Deck Construction at Pier AC5 by Typical Lifting Frame (24 nos)	10	10 13-Mar-15	24-Mar-15	6								Bridge Die	ck Constr	uction at F	PierAC5 b	vy Typical	Lifting Fr	rame (24	t hos)																	
EC-1060	Bridge Deck Construction at Pier AC6 by Typical Lifting Frame (18 nos)	13	13 24-Jun-15	09-Jul-15	6									e en	idge Deck	Construct	tion at Ple	er AC6 by	Typical	Lifting Fra	me (18 n	nos)															
EC-1090	Bridge Deck Construction at Pier AC9 by Typical Lifting Frame (25 nos)	12	12 10-Jul-15	23-Jul-15	6								-+		Bridge De	ck Constru	uction at F	Pier AC9	by Typic	al Lifting F	tame((25	5 nos)			+								+			+	+
EC-1100	Bridge Deck Construction at Pier AC10 by Typical Lifting Frame (14 nos)	15	15 24-Jul-15	10-Aug-15	6										Bridge	Deck Con	struction	at Pier A	C10 by 1	Typical Liftir	ng Frame	e (14 no	is)														
EC-1110	Bridge Deck Construction at Portal (AC11 & AD8) by Typical Lifting Frame (17 nos)		13 17-Oct-15	02-Nov-15	6											Bride	ge Deck (Construct	tion at P	ortal (AC1	& AD8)) by Typic	cal Lifting I	rame (17	nos)												
EC-1070	Bridge Deck Construction at Pier AC7 by Typical Lifting Frame (27 nos)		12 31-Dec-15	14-Jan-16	6															truction at l																	
EC-1080	Bridge Deck Construction at Pier ACP by Typical Lifting Frame (22 nos)		13 11-Mar-16	29-Mar-16	6												ſĨ		Bridge						Frame (22	0.05)											
EC-1080	Bridge Deck Construction at Pier AC6 by Typical Lifting Frame (22 nos) Bridge Deck Construction at Pier AC6 by Typical Lifting Frame (25 nos)	24		01-Aug-16	6		 																			al Lifting Fra	me (2#	a)					ļļ.				
20-1020	sings cost construction at the notice by typical Litting Flattier (25 tros)	24	2-4 UD-JUF16	ormag-to	Ĭ																orange			n at Pier/			re (23 110)	*									
				Actual Wo	rk							CE	DD	Со	ntra	act	No	. C	V/2	2012	2/09	9						[Date		Re	vision		Che	cked	Ap	prove
				Remaining																		-						29-Ja	n-14	F	Rev4			Sam		Da	niel
				-			11	anta	ang /	Неі	ina	Yue	n V	Vai	BC	:P -	Sit	e F	or	mat	ion	<u>۹</u>	Inf	ras	truc	ture		21-De	ec-13	F	Rev3			Denni	is	Dai	niel
ANG. 14	和建築工程有限公司			Summary I			- '									5, Co												23-0	ct-13	F	Rev2		1	Denni	is	Dai	niel
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	In The Construction & Enderteening Co. L		• •	Milestone								lua ! 4 !	-L 14	Ne	Iza	D			-								0	09-Ju	I-13	F	Rev0			Ansel	lm	Dai	niel
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Activity ID	Activity Name	OD	RD	Start	Finish	TF			1 2 1 4		2014	1 0 10 1				20)15					20	016			1			2017		a . II				2018					2019		
EC-1010	Bridge Deck Construction at Abutment AC1 (End-span) by Falsework & Crane (16 nos)	26	26	12-Jul-16	10-Aug-16	39 39	S Oct	N D Ja	n F Mar	Apr M Ju	n Jul A	S Oct	N Dec	Jan F	Mar Apr	r M Jun	Jul A	S Oct	N Dec	Jan F	Mar Api	r M Jun						Apr M J						Apr M	Jun Jul	AS	Oct N	Dec Jan	F Mar	Apr M J	In Jul A	4
EC-1030	Bridge Deck Construction at Pier AC3 by Typical Lifting Frame (20 nos)	10	10	24-Sep-16	06-Oct-16	6																		ļ	Bridge D	eck Con	struction	at Pier AC	3 by Typica	al Lifting	Frame (2)	0 nos)										
Bridge D		525	525	30-Jan-15	15-Nov-16	19																																				
ED-1100	Bridge Deck Construction at PortaIAD10 by Special Lifting Frame (50 nos)	50	50	30-Jan-15	09-Apr-15											Bridge Dec																										
						2																																				
ED-1010	Bridge Deck Construction at Abutment AD1 (End-span) by Falsework & Crane (8 nos)	12	12	31-Mar-15	17-Apr-15	487										Bridge De						1	ork&Cran	vê (8 nos	9							1										
ED-1020	Bridge Deck Construction at Pier AD2 by Typical Lifting Frame (11 nos)	24	24	25-Mar-15	25-Apr-15	6										Bridge D	leck Cons	truction a	at Pier AD	by Typic	I Lifting I	Frame (11	nos)																			
ED-1030	Bridge Deck Construction at Portal AD3 by Typical Lifting Frame (16 nos)	24	24	27-Apr-15	26-May-15	6									1	En Bric	ge Deck	Construct	tion at Po	al AD3 b	y Typical	Lifting Fra	ime (16 ni	ors)																		
ED-1090	Bridge Deck Construction at Portal AD9 by Special Lifting Frame (20 nos)	22	22	02-May-15	28-May-15	2										🔲 Brid	dge Deck	Construc	sion at Po	tal AD9 b	y Special	Lifting Fr	ame (20 r	nos)																		
ED-1110	Bridge Deck Construction at Portal AD11 by Special Lifting Frame (36 nos)	27	27	26-Jun-15	28-Jul-15	2											Brid	dge Deck	Construc	tion at Po	tal AD11	by Spiecia	al Lifting F	tame (3	6 nos)							1										
ED-1070	Bridge Deck Construction at Pier AD7 by Typical Lifting Frame (30 nos)	20	20	11-Aug-15	02-Sep-15	6	+ + +	•	++			+				+ + - + + - + - + - + - + - + - + -		Bridge	Deck Co	struction	at Pier Al	D 7 by Typ	ical Lifting	Frame	(30 noś)							(*****	++		+	++'						
ED-1040	Bridge Deck Construction at Pier AD4 by Typical Lifting Frame (18 nos)	14	14	15-Sep-15	02-Oct-15	6												ы	ndge Dec	Constru	tion at P	ier AD4 b	y Typical L	itting Fra	ame (18 r	nos)						1										
ED-1080	Bridge Deck Construction at Portal (AC11 & AD8) by Typical Lifting Frame (18 nos)	12	12	03-Oct-15	16-Oct-15	6													Bridge D	ck Const	uction at	Portal (Al	C11 & AD	e)byTyp	xical Liftin	g Frame	(18 nos					1										
ED-1050	Bridge Deck Construction at Pier AD5 by Typical Lifting Frame (17 nos)	10	10		26-Apr-16	6																Bridge	Deck Con	struction	at PierA	DSbyT	nicel Lift	ling Frame	(17 nos)													
ED-1060	Bridge Deck Construction at Pier AD6 by Typical Lifting Frame (22 nos)	13	13	27-Apr-16	12-May-16	-																	e Deck C		11		1	Lifting Fram				:										
																						- dilog	Deux C				1			<u></u>		<u></u>										
ED-1120	Bridge Deck Construction at Pier AD12 by Special Lifting Frame (52 nos)	160	160	16-Mar-16	28-Sep-16	2															Т							at PierAD1														
ED-1140	Bridge Deck Construction at Abutment AD14/AB12 (End span) by False work & Crane (14 nos)	26	26	07-Oct-16	07-Nov-16	26																			Bind	lge Deck	Constru	ction at Ap	utment AD	14/AB1	2 (End sp	an) by Fa	alsew,ork &	Crane (114 nos)							
ED-1130	Bridge Deck Construction at Pier AD13 by Special Lifting Frame (60 nos)	39	39	29-Sep-16	15-Nov-16	2																			Bri	idge Dec	k Const	uction at P	ier AD13 b	y Specia	al Lifting F	rame (60	nos									
Civil Provision) Works	184	184	15-Aug-16	30-Mar-17	2																																				
C-3010	TCSS Civil Provision Works for Bridge C	90	90	19-Sep-16	06-Jan-17	67																			1 1	T¢	SSCivil	Provision V	Vorks for E	tridge C		:										
C-1010	TCSS Civil Provision Works for Bridge A	120	120	15-Aug-16	07-Jan-17	66	+	•	+-+			+				+			+							тс	SS Civil	Provision V	Vorks for E	Bridge A			++									-
C-4010	TCSS Civil Provision Works for Bridge D	60	60	16-Nov-16	27-Jan-17	49																			-		TCSS C	Sivil Provisic	in Works f	or Bridge	D											
C-2010	TCSS Civil Provision Works for Bridge B	60	60	06-Dec-16	23-Feb-17	32																					тс:	SS Civil Pro	vision Wo	rks for Br	idge B											
C-4000	Cast Parapet, Lay Surfacing and Road Furniture for Bridge D	90	90	16-Nov-16	10-Mar-17	19																					<u> </u>	last Parane	rt, Lay Sur	fading ar	nd Road	Fumiture	for Bridge	a D								
C-3000	Cast Parapet, Lay Surfacing and Road Furniture for Bridge C	150	150	19-Sep-16	24-Mar-17	7																		I L	IT		Τ		pet, Lay S				le fol Brid									
						<u> </u>													L					T										[
C-1000	Cast Parapet, Lay Surfacing and Road Furniture for Bridge A	180	180	15-Aug-16	25-Mar-17	6																					Τ		ipet, Lay S				ute for Brid	ge A								
C-2000	Cast Parapet, Lay Surfacing and Road Furniture for Bridge B	90	90	06-Dec-16	30-Mar-17	2																			•			Cast Par	apet, Lay	Sudacing	and Ro	ad Furnit	ure for Bri	dge B								
Section VI - W	orks in Portion FH9 (KD-6A)	702	702	24-Sep-14	17-Feb-17	2																																				
S6-1020	Construction of Abutment AB12/AD14 (including Piling, Pile Cap & Abutment construction)	151	151	14-Nov-14	26-May-15	430							-			Cor	nstruction		ient AB12	AD14 (inc	luding Pi	ling, Pile (Cap & Abi	utment c	onstruetic	on)																
S6-1010	Construction of PierAD13 (including Piling, Pile Cap & Pier construction)	321	321	24-Sep-14	28-Oct-15	258						-							Constr	ction of P	er AD 13	including	Piling, Pi	le Cap 8	Fier obn	struction))					1										
S6-1000	Construction of PierAB11 (including Piling, Pile Cap & Pier construction)	324	324	21-Oct-14	25-Nov-15	273		1	11							4 1 1			Co	nstruction	of Pier A	B11 (inclu	cing Piling	g Pile Ca	ap & Piler	con struit	tion)	1-1-1				(1	111								-
S6-1040	Bridge Deck Construction at Pier AD13	39	39	29-Sep-16	15-Nov-16	2																			Bri	idge Dep	k Const	uction at P	ier AD13													
S6-1050	Bridge Deck Construction at Abutment AB12/AD14 (End-span)	65	65	07-Oct-16	22-Dec-16	2																				Bridg	e Deck (Construction	n at Aburr	ient AB1	2/AD14 (Endspa	0									
S6-1030	Bridge Deck Construction at Pier AB11	72	72	16-Nov-16	17-Feb-17	2																					Bridg	ge Deck Co	instruction	at Pier A	B11											
	mpletion of Road Widening (SBZ2) and to Allow Access for HY/2012/06 (KD-10)	0	0	24-Nov-16	24-Nov-16	3																																				
SS4-1000	Completion of Road Widening (SEE2) and to Nitor Recess for This 2000 (RD-10)	0	0		24-Nov-16			.					ļļ			Ļ		ļļ	ļļ			ļļ	ļļ	ļļ.			n ef P-	ad Widertin	va of Ear		ugu (Jaku	19872	ļļ,	ļ		ļļ']
																												as mudfill	guratii	-9 i ngin	a y mu ili											
	mpletion of Road Widening (NBZ1) and to Allow Access for HY/2012/06 (KD-11)	0	0	07-Sep-17	07-Sep-17	3																																				
SN4-1000	Completion of Road Widening of Fanling Highway within NBZ1	0	0		07-Sep-17	3																								◆ C	ompletion	of Road	I Widening) of Fanl	iling Highwa	y within N	BZ1					
	& Establishment Works (KD-4, 4A, 5, 5A, 6)	1045		14-Jan-16	11-Aug-19	18																																				
Secton IIIA - L	and scaping Softworks in NBZ1	270	270	08-Sep-17	11-Aug-18	17																																				
S3A-1000	Transplanting at Fanling Highway Eastern Side (18 nos.)	180	180	08-Sep-17	24-Apr-18	17			11							tt		†	111						$\uparrow \uparrow$							=	÷÷	To To	ansplantin	gatFanlin	g Highwa	Eastern	Side (18	os.)		
S3A-1010	Landscaping Softworks in NBZ1	90	90	25-Apr-18	11-Aug-18	17																										8		📛	÷	🚐 Land	caping S	oftworks i	NBZ1			
						i																					_					ᆂ		느	느	<u> </u>					<u> </u>	-
					Actual W	/ork								С	ED	DD (Con	tra	ct l	lo.	C۷	/20	12/	09							<u> </u>	Da		4		ision/		Chec	ked		roved	Ц
					Remaini	ng Wa	ork																									Jan-		_	Rev4			am		Dani		
					Summar				Li	anta	ing	/ He	eune	g Y	uer	n W	ai E	BCF	- - ;	Site	Fc	orm	atio	on (& Ir	nfra	ast	ruct	ure	•		Dec-		_	lev3			enni		Dani		
222	俊和建築工程有限公司										5		•	-			Vor															Oct-		_	lev2			enni		Dani		
	CHUN WO CONSTRUCTION & ENGINEERING CO., L	TD.			Critical R		ung W	OLK										,	50			-										Sep		_	lev1		D	enni	s	Dani		
			•	•	Mileston	е								-1				Г. Г.)		~ ~										09-	Jul-1	3	R	lev0		A	nsel	n	Dani	el	
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Secton III - Remaind	er of Landscaping Softworks Not Included in Secton IIIA	589 58	89 14-Jan-16	16-Jan-18	11		JU	. Wa	- 179 ² M	Jour Juli		IN	Jourgal	, mai /		Jui			Jugadi	· mid	1.41	Jul	odi		Ju		Juli	md	140	. sun	A			J Judi					0	54	. Dec	1 100	mdl	1 401	Jui	
S3-1000	Transplanting a long R ealigned TWSR West	120 12	20 14-Jan-16	16-Jun-16	330																	-	Transp	planting	along	R eetligr	ned TW	SR We	st																	l
\$3-1020	Transplanting near MTR East Rail Line	240 24	40 10-Jun-16	31-Mar-17	96																			+				+	Tran	planting	nearM	R East	Rail Lin	е												l
S3-1010	Transplanting along Fanling Highway	180 18	80 01-Dec-16	18-Jul-17	11		†-†	+		+		t tr				++				t tr	+-+				+	-			+		Trai	splantin	g along l	Farling	Highw	y		++						-+-		
S3-1030	Lanscaping Softworks	150 15	50 19-Jul-17	16-Jan-18	11																										÷		1 1	┿	Lansc	aping So	ftworks									l
Establishment Work	s for Landscape Softworks under Section IIIA	365 36	65 12-Aug-18	11-Aug-19	20																																									
S4A-1000	Establishment Works at NBZ1	365 36	65 12-Aug-18	11-Aug-19	20																																		4				-		<u> </u>	-
Establishment Work	s for Landscape Softworks under Section III	365 36	65 17-Jan-18	16-Jan-19	13																																									l
S4-1000	Establishment Works for Remaining Part of Site	365 36	65 17-Jan-18	16-Jan-19	13	·····	+																				·								<u> </u>			+				Es	stablish	nent V	Vorksfc	Rer
Preservation and Pro	otection of Trees	0	0 24-Apr-18	24-Apr-18	107																																									l
S5-1000	Substantial Completion of Works	0	0	24-Apr-18	107																																Substa	antial Co	mpletior	ofWo	rks					l
Section VII - All Geo	ntechnical Fieldworks & All Associated Laboratory Tests (KD-6B)	143 14	49 05-Nov-13 A	30-May-14	63																																									ł
Installation of Geote	chnical Instruments / Ground Investigation	108 11	14 05-Nov-13 A	14-Apr-14	98																																									ł
S7-2000	Trial Pit - No. A-ATP71	7	7 05-Nov-13 A	28-Nov-13	205		Trial P	it - No. A-	ATP71, Tr	iai Pit - No.	A-ATP71																			- -					+-+											
S7-2010	Trial Pit - No. A-ATP72	7	7 05-Nov-13 A		205					ial Pit - No.																																				ł
S7-2020	Trial Pit - No. A-ATP73		7 05-Nov-13 A		205					iad Pit - No.																																				
S7-2020	Trial Pit - No. A-ATP74		7 05-Nov-13 A		205	ΙI				ia) Pit-No.																																				ł
S7-2030 S7-1000	Ground Investigation Works - Drilhole No. BDH1		15 28-Nov-13		93					Vorks Dril																																				l
					94								ļļ	ļļ.						ļļ			ļļ.						ļļ.															ļļ.		
S7-1030	Ground Investigation Works - Drilhole No. VDH1		15 28-Nov-13		01					Vorks - Dril																																				l
S7-3040	Installation of Groundwater Instrument at Drillhole No. ADH149		12 16-Dec-13		93				n of Groun			Drillhole		1,49																																l
S7-1040	Ground Investigation Works - Drilhole No. VDH2		15 16-Dec-13		81					n Woks -																																				l
S7-3000	Installation of Groundwater Instrument at Drillhole No. ADH3		12 02-Jan-14		93					undwater li				рнз																																
S7-1080	Ground Investigation Works - Drilhole No. VDH6		15 06-Jan-14	22-Jan-14	81		<u>i </u>			ation Works	- Drilhole	e No VD	H6																																	I
S7-3010	Installation of Groundwater Instrument at Drilhole No. ADH4		12 16-Jan-14		93				lation of G	roundwate		nt at Drill		ADH4																																
\$7-1050	Ground Investigation Works - Drilhole No. VDH3		15 23-Jan-14	15-Feb-14	81					stigation W																																				l
S7-3030	Installation of Groundwater Instrument at Drillhole No. ADH7	12 1	12 27-Jan-14	15-Feb-14	84			🗖 Inst	tallation of	fGroundwa	ter lostru	ment at D	Drillhole N	d ADH7																																
S7-1010	Ground Investigation Works - Drilhole No. BDH2	15 1	15 27-Jan-14	19-Feb-14	63			🗖 Gr	round Inve	estigation V	orks - Dri	hole No	BDH2																																	
\$7-3020	Installation of Groundwater Instrument at Drillhole No. ADH5	12 1	12 30-Jan-14	19-Feb-14	93			🗖 Ins	stallation c	of Groundw	ater Instru	ment at (Drilhde N	Ip. ADH5																																
S7-3050	Installation of Groundwater Instrument at Drillhole No. RND/A2	12 1	12 17-Feb-14	01-Mar-14	84		1	I Ir	nstallation	of Ground	water Inst	tument at	t Drillhole	No. RNDA	2														t t			1	11		11			11								
S7-1100	Ground Investigation Works - Dnilhole No. VDH8	15 1	15 17-Feb-14	05-Mar-14	81			•	Ground In	ivestigation	Works - [brilhdie M	No. VIDHE																																	
S7-1020	Ground Investigation Works - Drilhole No. BDH3	15 1	15 20-Feb-14	08-Mar-14	63			•	Ground Ir	westigation	Woks -	Drilhole I	No. BDH:	3																																
S7-1070	Ground Investigation Works - Drilhole No. VDH5	15 1	15 20-Feb-14	08-Mar-14	93			•	Ground Ir	westigation	Works -	Drilhole I	No. VDH	5																																l
S7-1120	Ground Investigation Works - Drilhole No. VDH10	15 1	15 03-Mar-14	19-Mar-14	84				Ground			Drilhole	No. VDI	H10																																l
S7-1130	Ground Investigation Works - Drilhole No. VDH11	15 1	15 04-Mar-14	20-Mar-14	118	·	<u>+</u>	+	Ground		on Works	- Drifhole	No. VD	H11		+					+-+				+		++		+	+		+-	++		++			+-+						$\left - \right $		
\$7-1060	Ground Investigation Works - Drilhole No. VDH4	15 1	15 06-Mar-14	22-Mar-14	81				Ground	l Investigat	on Works	- Drithole	e No.VD	144																																
S7-1090	Ground Investigation Works - Drilhole No. VDH7	15 1	15 10-Mar-14	26-Mar-14	63				Groun	d Investiga	tion Work	s - D¢llhoi	le No. VE	3H7																																
S7-1110	Ground Investigation Works - Dnilhole No. VDH9		15 27-Mar-14	14-Apr-14	63				Gro	und Invest	gation W	orks Drill	hole No.	VDH9																																
Submission of Labo	vatory Tests	128 12	28 16-Dec-13	30-May-14	63																																									
S7-5000	Testing & Submission of Laboratory Test Report (Drilhole No. BDH1)	35 3	35 16-Dec-13	28-Jan-14	156		╞╌ <u></u>	Testin	ig & Subm	ission of La	boratory	est Repo	ort (Drilho	le No. BDH	11)														+																	
S7-5030	Testing & Submission of Laboratory Test Report (Drillhole No. VDH1)		35 16-Dec-13	28-Jan-14	156				ig & Subm					le No. VDH	11)																															
S7-5040	Testing & Submission of Laboratory Test Report (Drillhole No. VDH2)		35 06-Jan-14		141		T							ithole No. V	11																															
				21700114					a su		- control	., .qo. R																																		
				Actual W	ork									CE	DD	Со	ontr	act	No). C	:V/:	20 ⁻	12	/09	9									Da			F	Revis	sion		Ch	eck	ed	A	ppro	ve
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6 6	和建築工程有限公司			Summary				-			, , ,						orks						~**			~						ĺ	23-0	Oct-	13		Rev	2			Den	nnis		Da	aniel	
Сн	UN WO CONSTRUCTION & ENGINEERING C	O. LTD.		Critical Re		ig Wo	ork										21 N 3	, U		ua												- P	17-9			_	Rev				Den	nnis		-	aniel	
			• •	Milestone	9									10:4:	<u>م</u> ۱	N~-	rka	D	~~~	~ ~	m			, A									09-	Jul-'	13		Rev	0			Ans	elm	1	Da	aniel	
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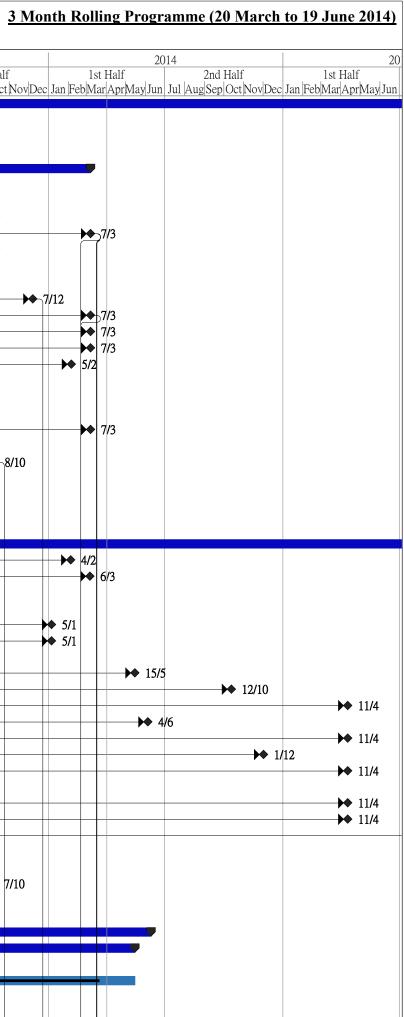
Activity ID	Activity Name	OD	RD	Start	Finish	TF			_																																							_	
-												_	_	2014							2015							20	16						2017						2018		_			_	2019		
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S7-5080	Testing & Submission of Laboratory Test Report (Drillhole No. VDH6)	35	35	23-Jan-14	11-Mar-14	126					1	Testing	g&\$	ubmissio	n of Lab	oratory	Test Re	port (Dri	lhole No	. VDH6																													
S7-5050	Testing & Submission of Laboratory Test Report (Drilhole No. VDH3)	35	35	17-Feb-14	28-Mar-14	111								Submis	sion of L	aborat	ory Test I	Report (I	Dellhole	No VDI	13)																												
S7-5010	Testing & Submission of Laboratory Test Report (Drilhole No. BDH2)	35	35	20-Feb-14	01-Apr-14	108				5		Tes	sting 8	k Submis	sion of L	aborat	tory Test	Report	(Drillhole	No. BD	H2)	T																											
S7-5100	Testing & Submission of Laboratory Test Report (Drillhole No. VDH8)	35	35	06-Mar-14	16-Apr-14	96						•	Testin	g & Subr	nission c	fLab	ratoly Te	est Repo	rt (Drillio	ble No. \	DH8)																												
S7-5020	Testing & Submission of Laboratory Test Report (Drillhole No. BDH3)	35	35	10-Mar-14	23-Apr-14	93							Testir	ng & Sub	mission	of Lab	oratory T	lest Rep	ort (Drill	ole No.	BDH3)																												
S7-5070	Testing & Submission of Laboratory Test Report (Drillhole No. VDH5)	35	35	10-Mar-14	23-Apr-14	93							Testir	ng & Sub	mission	of Lab	oratory T	lest Rep	ort (Drill	ole No.	VDH5)																												
S7-5120	Testing & Submission of Laboratory Test Report (Drillhole No. VDH10)	35	35	20-Mar-14	05-May-14	84					9		Tes	ting & S	ubmissio	n of Le	boratory	y Test Re	eport (Dr	ilhqle N	o. VDH1	0)																											
S7-5060	Testing & Submission of Laboratory Test Report (Drilhole No. VDH4)	35	35	24-Mar-14	09-May-14	81					6		Te	sting & S	ubmissio	on of L	aborator	ry Test R	eport (D	rillhole N	40. VDH4	4																											
S7-5090	Testing & Submission of Laboratory Test Report (Drilhole No. VDH7)	35	35	27-Mar-14	13-May-14	78					4		Te	sting &	Submissi	ion of L	abdrato	ny Test R	teport (C	rillhole f	No. VDH	7)																											
S7-5110	Testing & Submission of Laboratory Test Report (Drillhole No. VDH9)	35	35	15-Apr-14	30-May-14	63							=	Testing	& Subm	ission t	f Labora	atory Tes	t Report	(Dfilhol	e No. VE	DH9)																											

		Actual W	Nork		CEDD Contract No. CV/2012/09		Date	Revision	Checked	Approved
			-				29-Jan-14	Rev4	Sam	Daniel
			ning Work	Liantana / Houna V	uen Wai BCP - Site Formation &	Infrastructure	21-Dec-13	Rev3	Dennis	Daniel
	俊和建築工程有限公司	Summar	ary Bar			innastructure	23-Oct-13	Rev2	Dennis	Daniel
1.1	CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.			17-Sep-13	Rev1	Dennis	Daniel			
	CHUN WO CONSTRUCTION & ENGINEERING CO., LTD.	♦ Milestone				09-Jul-13	Rev0	Anselm	Daniel	
		Initial Works Programme Rev 4								
				IWP04	Page 24 of 24	30-Jan-14		·	·	



D	WBS	Task Name	Duration	Start	Finish	%			2	2013			
						Complete	lst Ha		л. <u>т</u> .	T1 A	2nd Ha		I tom by 1
1	1	Key Dates	1110 days	28/3/2013	10/4/2016	0%	FebMarAj	<u>orµvi</u>	<u>ay</u> Jur	1 JUI A	ug Sep Oc	n Inov[Dec	Jan Fel
2	1.1	Contract Award & Commencement	15 days	28/3/2013	11/4/2013	100%		,					
3	1.1.1	Letter of Acceptance	0 days	28/3/2013	28/3/2013	100%		28/3					
	1.1.1	Commencement of Works	0 days	11/4/2013	11/4/2013	100%	\sim	511. ⊢11.					
	1.1.2	Site Possession Date	330 days	11/4/2013	7/3/2014	0%	Ĥ						
	1.2.1	Portion BCP 1 (partial only)(30/4, 19/7/2013)	0 days	11/5/2013	11/5/2013	100%			511/5	5			
_	1.2.2	Portion BCP 2 (partial only)(16/4,30/5,17/7,19/7,24/7,2/9/2013)	0 days	10/6/2013	10/6/2013	100%			1	10/6			
	1.2.3	Portion BCP 3 (30/7, 2/9/2013, 22/10/2013)	0 days	8/9/2013	8/9/2013	100%			Ë		8/9		
	1.2.4	Portion BCP 4	0 days	7/3/2014	7/3/2014	0%							
	1.2.5	Portion BCP 5 (19/7/2013)	0 days	8/9/2013	8/9/2013	100%			Ш	<u> </u>	8/9		
_	1.2.6	Portion BCP 6 (18/9/2013)	0 days	8/9/2013	8/9/2013	100%					8/9		
_	1.2.0	Portion BCP 7 (3/10/2013)	0 days	8/9/2013	8/9/2013	100%					8/9		
	1.2.7	Portion CR 2 (29/11/2013)	0 days	7/12/2013	7/12/2013	100%					10/9	•••	7/10
			•			0%							1/12
	1.2.9	Portion CR 40	0 days	7/3/2014	7/3/2014								i
	1.2.10	Portion CR 41	0 days	7/3/2014	7/3/2014	0%				Π			1
	1.2.11	Portion CR 42	0 days	7/3/2014	7/3/2014	0%							•
	1.2.12	Portion CR 44 (28/2/2014)	0 days	5/2/2014	5/2/2014	100%]				•
	1.2.13	Area LMH 0 (11/4/2013)	0 days	11/4/2013	11/4/2013	100%		11	14				
	1.2.14	Area LMH 1 (19/7/2013)	0 days	8/9/2013	8/9/2013	100%					▶ 8/9		
_	1.2.15	Area LMH 2 (partial)(30/4/2013, 30/5/2013)	0 days	11/5/2013	11/5/2013	100%			11/5	1			
	1.2.16	Area LMH 3 (18/9/2013)	0 days	7/3/2014	7/3/2014	0%			tt –	1			1
	1.2.17	Area LMH 4 (18/9/2013)	0 days	8/9/2013	8/9/2013	100%			-		8/9		i l
	1.2.18	Area LMH 5 (24/9/2013)	0 days	8/10/2013	8/10/2013	100%			+	+		8/10	
	1.2.19	Area RS 1 (30/4/2013)	0 days	11/5/2013	11/5/2013	100%			11/5	\$			
	1.2.20	Area RS 2 (Omitted)	0 days	11/5/2013	11/5/2013	0%			11/5	\$			i l
	1.2.21	Area RS 3 (30/4/2013)	0 days	11/5/2013	11/5/2013	100%			511/5	\$			i l
	1.2.22	Area RS 4 (8/5/2013)	0 days	11/5/2013	11/5/2013	100%			11/5	5			i l
	1.3	Section Completion Date	976 days	8/8/2013	10/4/2016	0%							
	1.3.1	KD-1 Section I of the Works - G.I. field works	0 days	4/2/2014	4/2/2014	100%					$\left\ \right\ $		••
	1.3.2	KD-2 Section II of the Works - All laboratory tests for Section I	0 days	6/3/2014	6/3/2014	100%			╂──		+		
	1.3.3	KD-3 Section III of the Works - Site formation works for portion RS1, RS2 & RS3	0 days	8/8/2013	8/8/2013	100%				*	8/8		
	1.3.4	KD-4 Section IV of the Works - Village house within portion RS4	0 days	5/1/2014	5/1/2014	100%			╂──		+		◆ 5/1
	1.3.5	KD-5 Section V of the Works - All works within portion RS4 exclude Section IV	0 days	5/1/2014	5/1/2014	100%							◆ 5/1
	1.3.6	KD-7 Section VII of the Works - All works within Area CRD	0 days	15/5/2014	15/5/2014	0%			╂──		+		
	1.3.7	KD-8 Section VIII of the Works - All works within Area BCPA	0 days	12/10/2014	12/10/2014	0%					+-+-		;
	1.3.8	KD-8 Section IX of the Works - All works within Area BCPB	0 days	11/4/2015	11/4/2015	0%			₩—		┼──╢──		;
	1.3.9	KD-10 Section X of the Works - All works within Area BCPC	0 days	4/6/2014	4/6/2014	0%			⊢		+		
	1.3.10	KD-11 Section XI of the Works - All works within Area BCPD	0 days	11/4/2015	11/4/2015	0%					┼─┼┼──		<u> </u>
	1.3.11	KD-12 Section XII of the Works - All works within Area LMH	0 days	1/12/2014	1/12/2014	0%			₩		+-+-		<u></u>
	1.3.12	KD-13 Section XIII of the Works - Works not covered in any other Sections	0 days	11/4/2015	11/4/2015	0%					$\left\ \right\ $		
	1.3.13	KD-14 Section XIV of the Works - Trees preservation and protection	0 days	11/4/2015	11/4/2015	0%			Ш	4			í
_	1.3.14	KD-15 Section XV of the Works - Landscape soft works	0 days	11/4/2015	11/4/2015	0%			\parallel	<u> </u>			
	1.3.15	KD-16 Section XVI of the Works - Establishment works for landscape soft works	0 days	10/4/2016	10/4/2016	0%			╫─		$\left\ \right\ $		
	1.4	Stage Completion Date	60 days	8/8/2013	7/10/2013	100%							i l
	1.4.1	KD-17 Stage I of the Works - Temporary vehicular bridge J and temporary Lin	0 days	7/10/2013	7/10/2013	100%						7/10	i l
		Ma Hang Road										//10	
	1.4.2	KD-18 Stage II of the Works - Temporary ArchSD Depot	0 days	8/8/2013	8/8/2013	100%					8/8		
	2	Preliminaries and Statuary / Contractual Submissions	424 days	11/4/2013	9/6/2014	92%							
	2.1	Site Establishment	399 days	11/4/2013	15/5/2014	89%		1.	1				
	2.1.1	Take over of the Engineer Accommodation	0 days	11/4/2013	11/4/2013	100%		11	14				
	2.1.3	Initial Survey (to be extended until handover of BCP4, CR40-42)	399 days	12/4/2013	15/5/2014	86%							
	2.1.5	Setup and Management of TMLG	60 days	12/4/2013	10/6/2013	100%	•	1					
2	2.1.6	Setup and Management of ULG	60 days	12/4/2013	10/6/2013	100%		4		11	1 11	1	(

Sang Hing Civil - Richwell Machinery JV



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ID	WBS	Task Name	Duration	Start	Finish	%	2013	2014	20
	W DS		Duration	Start	1 111511	Complete			1st Half
						Compiete		tNovDec Jan FebMar Apr May Jun Jul Aug Sep Oct Nov	
53	2.2	Applications to Government Department	89 days	12/4/2013	9/7/2013	100%			
54	2.2.1	Application of excavation permit	89 days	12/4/2013	9/7/2013	100%			
55	2.2.2	Application of Waste water discharge license	44 days	12/4/2013	25/5/2013	100%			
56	2.2.3	Application of chemical waste producer permit	44 days	12/4/2013	25/5/2013	100%			
57	2.2.4	Application of trip ticket system	44 days	12/4/2013	25/5/2013	100%			
	2.3	Temporary Traffic Arrangement (TTA) Scheme for temp. LMH Rd	131 days	12/4/2013	20/8/2013	100%			
	2.3.1	Submission / approval of traffic consultant	6 days	12/4/2013	17/4/2013	100%			
	2.3.2	Preparation of TTA scheme	45 days	18/4/2013	1/6/2013	100%			
61	2.3.3	Comment & approval of TTA scheme by TD & RMO	66 days	2/6/2013	6/8/2013	100%			
	2.3.4	Obtain roadwork advice from RMO	14 days	7/8/2013	20/8/2013	100%			
63	2.4	Liaison with Utility Undertakers	363 days	12/4/2013	9/4/2014	95%			
64	2.4.1	Obtain most update utility drawings from various utility undertakers	29 days	12/4/2013	10/5/2013	100%			
65	2.4.2	Liaise with various utility undertakers (to be extended)	363 days	12/4/2013	9/4/2014	94%			
66	2.5	Environmental Baseline & Impact Monitoring	132 days	11/4/2013	21/8/2013	100%			
67	2.5.1	Obtain Environmental Permit (EP) EP-404/2011	0 days	11/4/2013	11/4/2013	100%			
68	2.5.2	Appointment of ET	0 days	11/4/2013	11/4/2013	100%			
69	2.5.3	Approval of ET from EPD	6 days	13/4/2013	18/4/2013	100%			
	2.5.4	Preparation of method statement for baseline monitoring by ET	20 days	19/4/2013	8/5/2013	100%			
	2.5.5		35 days	12/4/2013	16/5/2013	100%			
	2.5.6		15 days	17/5/2013	31/5/2013	100%			
	2.5.7	Verify the EM&A manual, management plans & reports by IEC	20 days	22/5/2013	10/6/2013	100%			
74	2.5.8	Management plans & reports submitted to EPD three month before commencement of Construction works	97 days	17/5/2013	21/8/2013	100%			
75	2.5.9		35 days	11/6/2013	15/7/2013	100%	╡╴╴║╴║╴║ _{┺╼┻┻} ╷╓╁╌╵║		
	2.5.10	0 Baseline monitoring report submitted to EPD one month before	36 days	16/7/2013	20/8/2013	100%			
77	2.6	commencement of Construction worksGeneral Site Clearance (to be extended until handover of BCP4, CR40-42)	124 dava	12/4/2013	9/6/2014	81%			
78	3	Stage of the Works	424 days 180 days	11/4/2013	7/10/2013	100%			
	3.1	Stage 0 the Works - Temporary vehicular bridge B and temporary Lin Ma	179 days	12/4/2013	7/10/2013	100%			
		Hang Road							
	3.1.1	Submissions	69 days	12/4/2013	19/6/2013	100%			
81	3.1.2	Approval of Submissions	69 days	14/6/2013	21/8/2013	100%			
82	3.1.3	Construction of temporary vehicular bridge "B"	47 days	22/8/2013	7/10/2013	100%			
83	3.1.3.	•	9 days	22/8/2013	30/8/2013	100%			
	3.1.3.	e e e e e e e e e e e e e e e e e e e	24 days	24/8/2013	16/9/2013	100%			
85	3.1.3.	0	17 days	17/9/2013	3/10/2013	100%			
86	3.1.3.	5 1 1	4 days	4/10/2013	7/10/2013	100%			
	3.1.4		47 days	22/8/2013	7/10/2013	100%			
88	3.1.4.	· · · · · · · · · · · · · · · · · · ·	47 days	22/8/2013	7/10/2013	100%			
89	3.1.4.	Lin Ma Hang Road Bridge	47 days	22/8/2013	7/10/2013	100%			
	3.2	Stage II of the Works - Temporary ArchSD Depot (LMH2)	78 days	11/4/2013	27/6/2013	100%			
	3.2.1	Liaison with ArchSD	49 days	11/4/2013	29/5/2013	100%			
	3.2.2		29 days	30/5/2013	27/6/2013	100%			
	3.2.3		0 days	27/6/2013	27/6/2013	100%	27/6		
94	4	Section of the Works	1095 days	12/4/2013	10/4/2016	27%			
95	4.1	Section I of the Works - Ground Investigation field works (Drg. 7101A-7111A)	251 days	30/5/2013	4/2/2014	100%			
96	4.1.1	Submit method statement and specialist	48 days	30/5/2013	16/7/2013	100%	」 ━━╪═ _}		
97	4.1.2	Approve method statement and specialist from ER	45 days	17/7/2013	30/8/2013	100%			
98	4.1.3	56nrs. Inspection pits (IP) & 56nrs. Boreholes (BO)	154 days	22/8/2013	22/1/2014	100%	」		
99	4.1.4	G.I works including installation of Settlement Plate (SP84 nrs.), Extensometer (EX16 nrs.), Ground Settlement Marker (GSM18nrs.)	167 days	22/8/2013	4/2/2014	100%			
100	4.2	Section II of the Works - All laboratory tests for Section I	188 days	31/8/2013	6/3/2014	100%	1 ∖∳≂∔		
101	4.2.1	Propose laboratory	45 days	31/8/2013	14/10/2013	100%	│		
102	4.2.2	Approve laboratory from ER	42 days	15/10/2013	25/11/2013	100%			
	4.2.3	Laboratory preparation and Carry out laboratory tests	93 days	26/11/2013	26/2/2014	100%	1		
			-			1			

Sang Hing Civil - Richwell Machinery JV

h Rolling Programme (20 March to 19 June 2014)

ID	WBS	Task Name	Duration	Start	Finish	%	2013	2014	
			2	~~~~		Complete	1st Half 2nd H	alf 1st Half 2nd Half	1st Half
							FebMarAprMayJun Jul AugSepC	Oct NovDec Jan FebMar AprMayJun Jul AugSepOctNovDe	ec Jan FebMarAprMayJu
	4.2.4	Preparation of lab report	90 days	7/12/2013	6/3/2014	100%			
105	4.3	Section III of the Works - Site formation works for Portions RS1, RS2 & RS3	89 days	12/5/2013	8/8/2013	100%			
106	4.3.1	General Site Clearance for RS1,RS2, and RS3	14 days	12/5/2013	25/5/2013	100%			
107	4.3.2	Submission & approval of method statement	28 days	12/5/2013	8/6/2013	100%			
108	4.3.3	RS1 - Site formation (1500m3) for re-site and dwarf wall construction (length	76 days	25/5/2013	8/8/2013	100%			
		approx. 84m)							
109	4.3.4	RS2 - Omitted under VO No.1	0 days	12/5/2013	12/5/2013	100%	◆ 12/5 ↔		
110	4.3.5	RS3 - Site formation for re-site and dwarf wall construction (approx. 840m3,	74 days	27/5/2013	8/8/2013	100%			
		wall length app. 135m)							
111	4.4	Section IV of the Works - Village house within portion RS4 - 8.25m(L) x 7.88m(W) x 10.3m (H)	354 days	12/4/2013	31/3/2014	98%			
	4.4.1	Actual Site Instruction from the Engineer (Issued EOT 1)	116 days	12/4/2013	5/8/2013	100%			
113	4.4.2	Submissions / Approval of material	44 days	6/8/2013	18/9/2013	100%			
114	4.4.3	Foundation (House 1 to 4)	61 days	25/8/2013	24/10/2013	100%			
115	4.4.4	G/F - Ground beam, slab, wall (House 1 to 4)	51 days	13/9/2013	2/11/2013	100%	╡╴║╹║║║║╿╫┲┡╋		
116	4.4.5	1/F - Beam, wall, slab (House 1 to 4)	48 days	24/10/2013	10/12/2013	100%			
117	4.4.6	2/F - Beam, wall, slab (House 1 to 4)	53 days	24/11/2013	15/1/2014	100%			
118	4.4.7	R/F - Beam, slab (House 1 to 4)	23 days	31/12/2013	22/1/2014	100%			
119 120	4.4.8	SH and Parapet (House 1 to 4) Building Services (House 1 to 4)	24 days	9/1/2014 16/1/2014	1/2/2014 31/3/2014	85%			
120	4.4.9 4.5	Section V of the Works-All works within portion RS4 exclude Section IV	75 days 269 days	10/1/2014 12/4/2013	5/1/2014 5/1/2014	14%	• • • • • • • • • • • • • • • • • • •		
121	4.5.1	Submissions and method statement	37 days	12/4/2013	18/5/2013	14 70			
122	4.5.2	Approvals from ER	30 days	26/4/2013	25/5/2013	100%			
123	4.5.3	Construction of footbridge and staircase with mini-piles 8 nos. x Ø273 and staircase (Wait for confirmation of construction)	235 days	16/5/2013	5/1/2014	0%			
125	4.5.3.1	Mini-piles	61 days	16/5/2013	15/7/2013	0%			
120	4.5.3.2	Pile Caps	52 days	19/6/2013	9/8/2013	0%			
127	4.5.3.3	Abutments	45 days	13/7/2013	26/8/2013	0%			
128	4.5.3.4	Wing walls	45 days	30/7/2013	12/9/2013	0%			
129	4.5.3.5	Mass concrete	41 days	16/8/2013	25/9/2013	0%			
130	4.5.3.6	Remove sheetpiles from abutments	11 days	26/9/2013	6/10/2013	0%] 🌾		
131	4.5.3.7	Beams	45 days	7/10/2013	20/11/2013	0%			
132	4.5.3.8	Deck	34 days	21/11/2013	24/12/2013	0%			
133	4.5.3.9	Compact fill behind abutments	14 days	7/10/2013	20/10/2013	0%			
134	4.5.3.10	New footpath	21 days	21/10/2013	10/11/2013				
	4.5.3.11	New staircase	36 days	11/11/2013	16/12/2013	0%			
	4.5.3.12	Miscellaneous (pedestrian parapet, granite tile etc.)	20 days	17/12/2013	5/1/2014	0%			
137 138	4.6 4.6.1	Section VII of the Works - All works within Area CRD Submission of pipe jacking	249 days 30 days	9/9/2013 9/9/2013	15/5/2014 8/10/2013	20% 100%			
138	4.6.2	Approval of submissions of pipe jacking	31 days	23/9/2013	23/10/2013	100%			
140	4.6.3	Remaining works at other portions within CRD (Not in this Area CRD)	120 days	16/1/2014	15/5/2014	0%			
153	4.6.4	 4 nos. of Ø1650 pipe jacking LV006 works including jacking / receiving pit at BCP3 (approx. 60m in BQ, 25m in Drg. 8401A) 	184 days	24/10/2013	25/4/2014	20%			
154	4.6.4.1	Pits construction	49 days	24/10/2013	11/12/2013	83%			
155	4.6.4.1.1	utility detection of the area	2 days	24/10/2013	25/10/2013	100%			
156	4.6.4.1.2	inspection pits for jacking pit and receiving pit	5 days	26/10/2013	30/10/2013	100%			
157	4.6.4.1.3	temporary work & excavation for jacking pit	21 days	31/10/2013	20/11/2013	100%			
158	4.6.4.1.4	temporary work & excavation for receiving pit	21 days	21/11/2013	11/12/2013	60%			
159	4.6.4.2	Jack Sleeve Pipes	128 days	21/11/2013	28/3/2014	0%			
160	4.6.4.2.1	For jacking the 1st pipe	32 days	21/11/2013	22/12/2013	0%			
161	4.6.4.2.2	For jacking the 2nd pipe	32 days	23/12/2013	23/1/2014	0%			
162	4.6.4.2.3	For jacking the 3rd pipe	34 days	24/1/2014	26/2/2014	0%			
163	4.6.4.2.4	For jacking the 4th pipe	30 days	27/2/2014	28/3/2014	0%			
164	4.6.4.3	HDPE pipes	28 days	29/3/2014	25/4/2014	0%			
	4.6.4.3.1	Lay HDPE pipes	11 days	29/3/2014	8/4/2014	0%			
166	4.6.4.3.2	Grout HDPE pipes	9 days	9/4/2014	17/4/2014	0%			

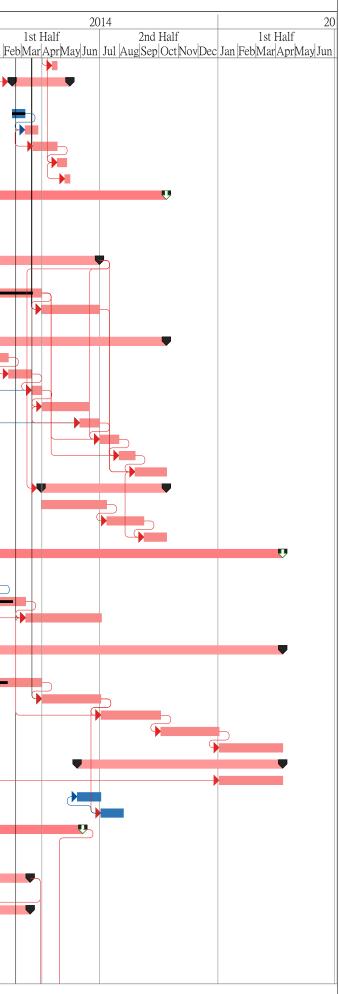
Sang Hing Civil - Richwell Machinery JV

<u>3 Month Rolling Programme (20 March to 19 June 2014)</u>

ID	WBS	Task Name	Duration	Start	Finish	%	2013	
						Complete		
67	16422	Domosio tomporene such a subbashfilling	0	10/4/2014	25/4/2014	00/	FebMarAprMayJun Jul AugSep(Oct Nov
167 168	4.6.4.3.3	Remove temporary works and backfilling	8 days	18/4/2014	25/4/2014	0% 20%		
168	4.6.5	132kV Overhead Terminal Pole Relocation (CLP confirmed to terminate on late April 2014)	90 days	15/2/2014	15/5/2014	20%0		
69	4.6.5.1	fill area for terminal pole installation by CLP 132kV	20 days	15/2/2014	6/3/2014	100%		
170	4.6.5.2	install terminal pole inside & outside site boundary by CLP 132kV	20 days 20 days	7/3/2014	26/3/2014	0%		
171	4.6.5.3	ducts laying under DSD Contract by CLP 132kV	38 days	19/3/2014	25/4/2014	0%		
172	4.6.5.4	remove existing cable by CLP 132kV	15 days	26/4/2014	10/5/2014	0%		
173	4.6.5.5	filling for relevant areas	8 days	8/5/2014	15/5/2014	0%		
174	4. 0. <i>3</i> . <i>3</i>	Section VIII of the Works - All works within Area BCPA	489 days	11/6/2013	12/10/2014	36%		
174	4.7.1	Submission for Site Formation Works & import fill	72 days	11/6/2013	21/8/2013	100%		
176	4.7.1	Approval of submission for Site Formation Works	50 days	22/8/2013	10/10/2013	100%		
170 177	4.7.2			28/9/2013	5/12/2013	95%		
		Approval for sources of import fill	69 days					
178	4.7.4	Site formation of land (import fill 121433m3)	263 days	11/10/2013	30/6/2014	57%		
179	4.7.4.1	site formation (A1-A9)	82 days	11/10/2013	31/12/2013	90%		
180	4.7.4.2	site formation (A10-13, A15-20, A23, A24-A25) (delayed by VO 022)	90 days	1/1/2014	31/3/2014	85%		
181	4.7.4.3	site formation (A14, A22, A26) (delayed by Delay possession of BCP4)	91 days	1/4/2014	30/6/2014	0%		
182	4.7.5	Slope drainage works (Drg. 7156B-7159B) (waiting for clarifing details)	284 days	2/1/2014	12/10/2014	0%		
183	4.7.5.1	submission of design of sedimentation tank/pond	38 days	2/1/2014	8/2/2014	0%		
184	4.7.5.2	approval of design of sedimentation tank/pond	36 days	9/2/2014	16/3/2014	0%		
185	4.7.5.3	discharge to existing Box Culvert No. 4 & sedimentation tank	16 days	17/3/2014	1/4/2014	0%		
186	4.7.5.4	DN1050 from CP to sedimentation tank	73 days	2/4/2014	13/6/2014	0%		
187	4.7.5.5	shortcreted TC (from A3,A2,A1,A5)	31 days	31/5/2014	30/6/2014	0%		
188	4.7.5.6	shortcreted TC (from A10-13)	30 days	1/7/2014	30/7/2014	0%		
189	4.7.5.7	shortcreted TC (from A10,A15,A19)	25 days	31/7/2014	24/8/2014	0%		
190	4.7.5.8	shortcreted TC (from A20-24A26,A14)	49 days	25/8/2014	12/10/2014	0%		
191	4.7.6	Chain link fence (1120m)	195 days	1/4/2014	12/10/2014	0%		
192	4.7.6.1	chain link fence (A1-5,A10,A15,A19)	102 days	1/4/2014	11/7/2014	0%		
192	4.7.6.2	chain link fence (A4,A9,A14,A26,A24)	58 days	12/7/2014	7/9/2014	0%		
194	4.7.6.3	chain link fence (A21-24)	35 days	8/9/2014	12/10/2014	0%		
195	4. 7.0.3	Section IX of the Works - All works within Area BCPB (Delayed by Delay	492 days	6/12/2014	11/4/2015	11%		
		Possession of BCP4)						
196	4.8.1	Submission for demolition of existing building structures	37 days	20/12/2013	25/1/2014	100%		
197	4.8.2	Approval of submission for demolish existing building structures	41 days	26/1/2014	7/3/2014	50%		
198	4.8.3	Demolition of existing building structures UPON instruction (Drg. 6152A,	118 days	8/3/2014	3/7/2014	0%		
		6153A)	105.1	2 14 - 1 · · ·				
199	4.8.4	Site formation works (import fill 370523m3)	492 days	6/12/2013	11/4/2015	7%		
200	4.8.4.1	site formation works (B20)	28 days	6/12/2013	2/1/2014	0%		
201	4.8.4.2	site formation works (B1,3,6,9,21,22)	89 days	3/1/2014	1/4/2014	40%		
202	4.8.4.3	site formation works (B2,5)	92 days	2/4/2014	2/7/2014	0%		
203	4.8.4.4	site formation works (B7,11,12)	93 days	3/7/2014	3/10/2014	0%		
204	4.8.4.5	site formation works (4,8,10,13,14,16,17)	91 days	4/10/2014	2/1/2015	0%		
205	4.8.4.6	site formation works (B15,18,19)	99 days	3/1/2015	11/4/2015	0%		
206	4.8.5	Temp. boundary fence, chain link fence (Drg.1002C, 1032B, 1033B)	320 days	27/5/2014	11/4/2015	0%		
207	4.8.5.1	chain link fence (780m)	99 days	3/1/2015	11/4/2015	0%	1	
208	4.8.5.2	fabricate temporary boundary fence & post	37 days	27/5/2014	2/7/2014	0%		
209	4.8.5.3	fix temporary boundary fence (105m)	35 days	3/7/2014	6/8/2014	0%	1	
210	4.9	Section X of the Works - All works within Area BCPC	269 days	9/9/2013	4/6/2014	17%		
211	4.9.1	Submission for retaining wall no. 2	12 days	9/9/2013	20/9/2013	100%		
212	4.9.2	Approval of Submission for retaining wall no. 2	25 days	21/9/2013	15/10/2013	100%	🖬	
213	4.9.3	Construction of retaining wall RW2-CH840-1025 (Waiting for Modification of RW2)	150 days	16/10/2013	14/3/2014	0%		•
214	4.9.3.1	Phase 1A - Bay 2137-2110 (28 bays)	150 days	16/10/2013	14/3/2014	0%		
214	4.9.3.1.1	excavation / sheetpile	35 days	16/10/2013	19/11/2013	0%		
213	4.9.3.1.1	grade 200 rock fill	28 days	25/10/2013	21/11/2013	0%		
210	4.9.3.1.2		28 days 25 days	30/10/2013	23/11/2013	0%	{	
2. I I	+.7.3.1.3	blinding layer			25/1/2013	0%		
	4.9.3.1.4	bases	83 days	4/11/2013	75/1/2014			

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<u>3 Month Rolling Programme (20 March to 19 June 2014)</u>



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ID	WBS	Task Name	Duration	Start	Finish	%		2013			_
						Complete		T. 1	2nd H		
219	4.9.3.1.5	walls	120 days	15/11/2013	14/3/2014	0%	FebMarAprMa	iy Jun Jul	AugSep		ec Jan Fe
220	4.9.4	Site Formation works (C1-C8) (also delay by possession of DC/2011/06 edge areas)	92 days	2/1/2014	3/4/2014	60%					
221	4.9.5	Drainage Works & Irrigation System (Drg.1305C, 1975B)	62 days	4/4/2014	4/6/2014	0%					7
222	4.9.5.1	drainage for CP26 (SMH9962-CP26)	20 days	4/4/2014	23/4/2014	0%					
223	4.9.5.2	drainage for CP24 (SMH9924 to CP24)	16 days	8/4/2014	23/4/2014	0%					
224	4.9.5.3	drainage for CP23 (SMH9923 to CP23)	13 days	24/4/2014	6/5/2014	0%					
225	4.9.5.4	irrigation system in Area BCPC	58 days	8/4/2014	4/6/2014	0%					
226	4.10	Section XI of the Works - All works within Area BCPD (Delayed by Claim No.007-Delay due to Non-Possession of Parts of Portion BCP3 due to Resistant by Local Resident) & (Program may not be revised)	598 days	22/8/2013	11/4/2015	2%					
227	4.10.1	Submissions	23 days	22/8/2013	13/9/2013	100%					
228	4.10.2	Approval of Submissions	37 days	14/9/2013	20/10/2013	100%				_	
229	4.10.3	Construction of retaining wall RW2 - CH0 to 840 (Waiting for Modification of RW2)	281 days	21/10/2013	28/7/2014	0%					
230	4.10.3.1	Phase 1 - Bay 2001-2036 (36 bays)	281 days	21/10/2013	28/7/2014	0%					
231	4.10.3.1.1	excavation / sheetpile	41 days	21/10/2013	30/11/2013	0%					
232	4.10.3.1.2	grade 200 rock fill	35 days	30/10/2013	3/12/2013	0%					
233	4.10.3.1.3	blinding layer	32 days	4/11/2013	5/12/2013	0%					
234	4.10.3.1.4	Bay 2001 to Bay 2036	263 days	8/11/2013	28/7/2014	0%	-				
235	4.10.3.2	Phase 2 - Bay 2037-2072 (36 bays)	281 days	21/10/2013	28/7/2014	0%	-				f - F
236	4.10.3.2.1	excavation / sheetpile	41 days	21/10/2013	30/11/2013	0%	-				
237	4.10.3.2.2	grade 200 rock fill	35 days	30/10/2013	3/12/2013	0%	-				
238	4.10.3.2.3	blinding layer	32 days	4/11/2013	5/12/2013	0%	_				
239	4.10.3.2.4	Bay 2037 to Bay 2072	263 days	8/11/2013	28/7/2014	0%	-				
240	4.10.3.3	Phase 3 - Bay 2073-2109 (37 bays)	281 days	21/10/2013	28/7/2014	0%	-				
241	4.10.3.3.1	excavation / sheetpile	43 days	21/10/2013	2/12/2013	0%	-				
242	4.10.3.3.2	grade 200 rock fill	35 days	30/10/2013	3/12/2013	0%	-				
	4.10.3.3.3	blinding layer	32 days	4/11/2013	5/12/2013	0%	-				
244	4.10.3.3.4	Bay 2109 to Bay 2109	263 days	8/11/2013	28/7/2014	0%	-				
245	4.10.4	Boundary fence (Drg.1002C, 1003A)	267 days	12/4/2014	3/1/2015	0%	-				
246	4.10.4.1	fabricate boundary fence including Section XII	108 days	12/4/2014	28/7/2014	0%	-				
	4.10.4.2 4.10.4.3	fix boundary fence (after RW2) fix boundary fence (after Bridge J & subway)	156 days 67 days	29/7/2014 12/7/2014	31/12/2014 16/9/2014	0%	-				
248	4.10.4.3	fix boundary fence (after RW1 & 1A)	109 days	17/9/2014	3/1/2015	0%	-				
249	4.10.4.4	Modified CEDD hoarding Type III (Drg. 1032B)	-	18/10/2014	11/4/2015	0%	-				
250	4.10.5.1	hoarding (after RW2)	176 days 101 days	1/1/2015	11/4/2015	0%	-				
251	4.10.5.2	hoarding (after Bridge J & subway)	75 days	18/10/2014	31/12/2014	0%	-				
252	4.10.5.3	hoarding (after RW1 & 1A)	98 days	4/1/2015	11/4/2015	0%	-				
253	4.10.5.5	Site Formation works (import fill 104958m3) including slope drainage works	423 days	7/1/2014	5/3/2015	8%	-				
255	4.10.6.1	(Drg. 7155B-7159B) D1-D2	84 days	7/1/2014	31/3/2014	35%					
255	4.10.6.2	D3, D10,D11, D17, D12- D14	95 days	27/5/2014	29/8/2014	0%	-				
250	4.10.6.3	D4, D15, D16	93 days 94 days	30/8/2014	1/12/2014	0%					
257	4.10.6.4	D5-D9	94 days 94 days	2/12/2014	5/3/2015	0%					
259	4.10.7	Sewerage, Drainage & Water Works (Drg. 1323B,1305C,1309A)	368 days	21/10/2013	23/10/2014	0%					
260	4.10.7.1	Sequence 1a - Sewer for FMH511 to Box Culvert No. 3 (DN300)	82 days	21/10/2013	10/1/2014	0%	-				
260	4.10.7.2	Sequence 1a - Sewer for FMH515 to temp cap after FMH520 (DN300)	26 days	11/1/2014	5/2/2014	0%	-				
262	4.10.7.3	Sequence 10 Sewer for temp. cap to connect from BCP (DN300)	25 days	6/2/2014	2/3/2014	0%	-				5
263	4.10.7.4	Sequence 1d - Rising main CHC799.644-650m (2xDN100DI)	36 days	3/3/2014	7/4/2014	0%	-				
263	4.10.7.5	Sequence 1d - Rising main CHC793.044-050in (2xD1100D1) Sequence 1e - Pipe laying for SMH9930, 9929 to 9922 (DN300-525)	91 days	7/5/2014	5/8/2014	0%					
265	4.10.7.6	Sequence 1a -Drainage for SMH9937 to 9961 (DN300,450,900)	87 days	11/1/2014	7/4/2014	0%	-				
266	4.10.7.7	Sequence 1-1 Pipe laying for CP25 to SMH9702, 9702A, 9651 to Pump Room	127 days	21/10/2013	24/2/2014	0%				*	
267	4.10.7.8	Sequence 1-2 Rising main CHA 0-157.882 (DN400)	137 days	15/11/2013	31/3/2014	0%				┍┼┼┍┝━━━	
268	4.10.7.9	Sequence 2-1a Watermain CHL229-283(DN250)	25 days	8/4/2014	2/5/2014	0%					
	4.10.7.10	Sequence 2-1b Watermain CHL150-229(DN250)	37 days	3/5/2014	8/6/2014	0%				(111)	



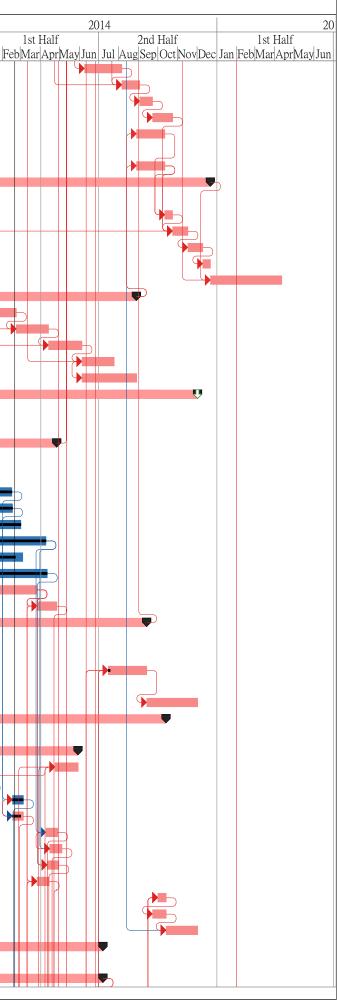
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ID	WBS	Task Name	Duration	Start	Finish	%		2013			
						Complete			2nd H		
							FebMarAprMay	Jun Jul	Aug Sep (<u> </u>	ec Jan Feb
	4.10.7.11	Sequence 2-2 Pipe laying for SMH9937 to 9930 (DN525,750,900)	58 days	9/6/2014	5/8/2014	0%	-				
	4.10.7.12	Sequence 2-3 Drainage for SMH9941, 9952 to 9942 (DN300, 525)	28 days	6/8/2014	2/9/2014	0%					
272	4.10.7.13	Sequence 2-3 Pipe laying for SMH9931 to 9942 (DN450)	20 days	3/9/2014	22/9/2014	0%					
273	4.10.7.14	Sequence 2-4 Watermain CHL283-335.749(DN250)	31 days	23/9/2014	23/10/2014	0%					
274	4.10.8	Irrigation system (sequence 3)(see Appendix C) adjacent to underpass & depressed road	44 days	29/8/2014	11/10/2014	0%					
275	4.10.9	Irrigation system (sequence 4) (see Appendix C) next to BCPC	44 days	29/8/2014	11/10/2014	0%					
276	4.10.10	Utilities works (Drg. 1405A) (see Appendix A)	369 days	18/12/2013	21/12/2014	0%					,
277	4.10.10.1	Sequence 1 - allow ducts for 11kV & LV across the underpass	13 days	18/12/2013	30/12/2013	0%					
278	4.10.10.2	Sequence 5a - 132kV	12 days	12/10/2014	23/10/2014	0%					\neg
279	4.10.10.3	Sequence 5b - 11kV	24 days	24/10/2014	16/11/2014	0%					
280	4.10.10.4	Sequence 5c - LV	23 days	17/11/2014	9/12/2014	0%					
	4.10.10.5	Sequence 5d - PCCW	12 days	10/12/2014	21/12/2014	0%					
	4.10.11	Road works and Road lighting works (Drg.1205A,1505C,1605B)	111 days	22/12/2014	11/4/2015	0%					
	4.10.12	Construction of depressed road & underpass-9.3m wide x168m long	241 days	31/12/2013	28/8/2014	0%				 	
	4.10.12.1	Bay 16015-16012	54 days	31/12/2013	22/2/2014	0%					
285	4.10.12.2	Bay 16013-16012 Bay 16011-16008	50 days	23/2/2014	13/4/2014	0%				NII	
<u>285</u> 286	4.10.12.2	Bay 16007-16004	52 days	14/4/2014	4/6/2014	0%				\downarrow	1
280	4.10.12.3	Bay 16003-16004 Bay 16003-16001	52 days	5/6/2014	24/7/2014	0%					T
	4.10.12.4	miscellaneous works		5/6/2014	28/8/2014	0%	-				
288 289	4.10.12.5 4.11	Section XII of the Works - All works within Area LMH	85 days	22/8/2013	1/12/2014	32%					
			467 days								
290	4.11.1	Submissions for method statement of subway & staircase	70 days	22/8/2013	30/10/2013	100%				I	
291	4.11.2	Approval of Submissions for method statement of subway & staircase	68 days	30/8/2013	5/11/2013	100%	-				
292	4.11.3	Construction of retaining wall RW1 - CH0 to 561.053m	213 days	26/9/2013	26/4/2014	87%	-				
293	4.11.3.1	Bay 1075 to Bay 1068 (8 bays) -H1	77 days	26/9/2013	11/12/2013	100%					
	4.11.3.2	Bay 1067 to Bay 1060 (8 bays) -H2	77 days	8/10/2013	23/12/2013	100%	_				
	4.11.3.3	Bay 1059 to Bay 1052 (8 bays) - H3	93 days	15/11/2013	15/2/2014	100%	_				
296	4.11.3.4	Bay 1051 to Bay 1044 (8 bays) -H4	80 days	29/11/2013	16/2/2014	100%					
297	4.11.3.5	Bay 1043 to Bay 1036 (8 bays) - H5	79 days	13/12/2013	1/3/2014	100%					
298	4.11.3.6	Bay 1035 to Bay 1028 (8 bays) -H5,H6	83 days	17/1/2014	9/4/2014	100%	-				
299	4.11.3.7	Bay 1027 to Bay 1020 (8 bays) -H6	79 days	16/12/2013	4/3/2014	85%					
300	4.11.3.8	Bay 1019 to Bay 1012 (8 bays) -H7	105 days	28/12/2013	11/4/2014	100%					
301	4.11.3.9	Bay 1011 to Bay 1004 (8 bays) H7,H8	87 days	30/12/2013	26/3/2014	30%					
302	4.11.3.10	Bay 1003 to Bay 1001 (3 bays) - H8	31 days	27/3/2014	26/4/2014	0%					
303	4.11.4	Construction of retaining wall RW1A-CH561.053 to 612.457m (length approx 51.4m)	368 days	11/9/2013	13/9/2014	48%					
304	4.11.4.1	Bay 1076 to Bay 1078 (base & wall)	49 days	11/9/2013	29/10/2013	100%			╷║╚┝═══		
305	4.11.4.2	Bay 1079 to Bay 1082 (after divert existing Rd i.e. after Staircase & Lift Shaft)	60 days	16/7/2014	13/9/2014	5%					
306	4.11.5	Filling & Slope drainage behind RW1A (involve TTA)	79 days	14/9/2014	1/12/2014	0%					
307	4.11.6	Site formation works (import fill 15300m3) including slope drainage works (Drg. 7154B, 7159B) (see Appendix B)	294 days	24/12/2013	13/10/2014	24%				•	
308	4.11.6.1	site formation (H1-H8) & slope drainage works	157 days	24/12/2013	29/5/2014	29%					
309	4.11.6.1.1	fill H1	36 days	24/4/2014	29/5/2014	0%]				
	4.11.6.1.2	fill H2	20 days	24/12/2013	12/1/2014	95%				•	┝╪┼
	4.11.6.1.3	fill H3	17 days	17/2/2014	5/3/2014	95%					
	4.11.6.1.4	fill H4	17 days	17/2/2014	5/3/2014	75%					
	4.11.6.1.5	fill H5	18 days	10/4/2014	27/4/2014	0%					
	4.11.6.1.6	fill H6	19 days	16/4/2014	4/5/2014	0%					
	4.11.6.1.7	fill H7	18 days	12/4/2014	29/4/2014	0%					
	4.11.6.1.8	fill H8	19 days	27/3/2014	14/4/2014	0%					
	4.11.6.2	Remove existing Lin Ma Hang Road	13 days	1/10/2014	13/10/2014	0%					
	4.11.6.3	Fill H9 & B15 for slope	21 days	23/9/2014	13/10/2014	0%					
	4.11.0.5	Boundary fence & chain link fence on top of slope	49 days	14/10/2014	1/12/2014	0%					
	4.11.7 4.11.8	Drainage works at Lin Ma Hang Road (Drg. 1304B, 1306A, 1307A, 1309A) (see Appendix B)	244 days	6/11/2013	7/7/2014	0% 2%					
371	4 11 8 1	H1-SM16-9062, 9201 & 9105A-9062, 9054-9062, 9101-9105	244 days	6/11/2013	7/7/2014	0%					
321	4.11.8.1	FIT-SWITU-2002, 2201 & 2103A-2002, 2034-2002, 2101-2103	∠44 uays	0/11/2013	////2014	U 70					

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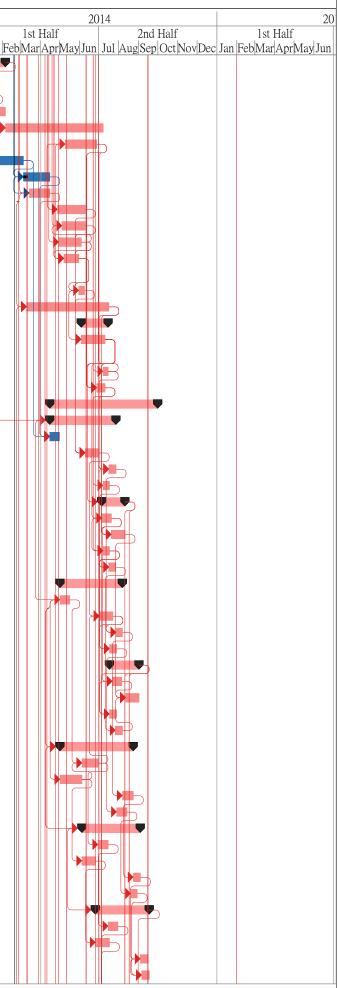


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D	WBS	Task Name	Duration	Start	Finish	% 2013
						Complete 1st Half 2nd Half
.	4 11 0 1 1		02.1	(/11/2012	5/2/2014	FebMarAprMayJun Jul AugSepOct NovDe
	4.11.8.1.1	Temporary Traffic Arrangement (TTA) Schemes	92 days	6/11/2013	5/2/2014	
	4.11.8.1.1.1	Preparation of TTA scheme	35 days	6/11/2013	10/12/2013	
	4.11.8.1.1.2	Comment & approval of TTA scheme by TD & RMO	37 days	11/12/2013	16/1/2014	
	4.11.8.1.1.3	Obtain roadwork advice from RMO	20 days	17/1/2014	5/2/2014	0%
	4.11.8.1.2	Pipe laying	152 days	6/2/2014	7/7/2014	0%
	4.11.8.2	SMH6895-6808, 6804-6808	49 days	10/5/2014	27/6/2014	0%
	4.11.8.3	H2 - SMH9054-45,44, 9043	52 days	13/1/2014	5/3/2014	15%
	4.11.8.4	H3 - SMH9043-37, 9036 (DN900)	41 days	6/3/2014	15/4/2014	15%
	4.11.8.5	H4 - SMH9036-30,9029 (DN900)	32 days	15/3/2014	15/4/2014	0%
	4.11.8.6	H5 - SMH9029-22,9021 (DN750,900)	43 days	28/4/2014	9/6/2014	0%
	4.11.8.7	H6 - SMH9021-14,9013 (DN750)	36 days	5/5/2014	9/6/2014	0%
	4.11.8.8	H7 - SMH9013-06,9005 (DN600,750)	35 days	30/4/2014	3/6/2014	0%
ŀ	4.11.8.9	H8 - SMH9005-03,9002 (DN450)	23 days	8/5/2014	30/5/2014	0%
;	4.11.8.10	H8 - SMH9002-9001 (DN300)	9 days	31/5/2014	8/6/2014	0%
_	4.11.9	Water works at Lin Ma Hang Road (Drg.1914B-1917B)	128 days	11/3/2014	16/7/2014	0%
	4.11.10	Irrigation System at Lin Ma Hang Road (Drg.1974B, 1976A, 1977A)	42 days	4/6/2014	15/7/2014	0%
	4.11.10	from Phase H2-H8	37 days	4/6/2014	10/7/2014	
	7.11.10.1		57 duys	4/0/2014	10/7/2014	
	4.11.10.2	for Phase H1	8 days	8/7/2014	15/7/2014	0%
	4.11.10.3	after Phase H8	13 days	28/6/2014	10/7/2014	0%
	4.11.11	Utility Works	168 days	16/4/2014	30/9/2014	0%
_	4.11.11.1	CLP - LV (west side of new Lin Ma Hang Road)	103 days	16/4/2014	27/7/2014	0%
	4.11.11.1.1	from chainage 840 to chainage 1125	15 days	16/4/2014	30/4/2014	0%
	4.11.11.1.2	from chainage 630 to chainage 840	22 days	10/6/2014	1/7/2014	0%
	4.11.11.1.3	from chainage 475 to chainage 630	11 days	17/7/2014	27/7/2014	0%
	4.11.11.1.4	from chainage 1125 to chainage 1270	10 days	8/7/2014	17/7/2014	0%
	4.11.11.2	CLP - LV (east side of new Lin Ma Hang Road)	36 days	6/7/2014	10/8/2014	0%
	4.11.11.2.1	from chainage 840 to chainage 1125	15 days	6/7/2014	20/7/2014	0%
	4.11.11.2.2	from chainage 630 to chainage 840	-	21/7/2014	10/8/2014	0%
	4.11.11.2.2		21 days	8/7/2014	17/7/2014	
		from chainage 475 to chainage 630	10 days			
	4.11.11.2.4	from chainage 1125 to chainage 1270	10 days	17/7/2014	26/7/2014	
	4.11.11.3	CLP - 11kV (west side of new Lin Ma Hang Road)	97 days	2/5/2014	6/8/2014	0%
	4.11.11.3.1	from chainage 840 to chainage 1125	15 days	2/5/2014	16/5/2014	0%
	4.11.11.3.2	from chainage 630 to chainage 840	21 days	2/7/2014	22/7/2014	0%
	4.11.11.3.3	from chainage 475 to chainage 630	10 days	28/7/2014	6/8/2014	0%
_	4.11.11.3.4	from chainage 1125 to chainage 1270	11 days	18/7/2014	28/7/2014	0%
	4.11.11.4	CLP - 11kV (east side of new Lin Ma Hang Road)	46 days	18/7/2014	1/9/2014	0%
	4.11.11.4.1	from chainage 840 to chainage 1125	15 days	22/7/2014	5/8/2014	0%
_	4.11.11.4.2	from chainage 630 to chainage 840	21 days	12/8/2014	1/9/2014	0%
	4.11.11.4.3	from chainage 475 to chainage 630	11 days	18/7/2014	28/7/2014	0%
	4.11.11.4.4	from chainage 1125 to chainage 1270	11 days	27/7/2014	6/8/2014	0%
	4.11.11.5	PCCW (west side of new Lin Ma Hang Road)	114 days	2/5/2014	23/8/2014	0%
_	4.11.11.5.1	from chainage 840 to chainage 1125	25 days	5/6/2014	29/6/2014	0%
	4.11.11.5.2	from chainage 630 to chainage 840	34 days	2/5/2014	4/6/2014	0%
	4.11.11.5.3	from chainage 475 to chainage 630	17 days	7/8/2014	23/8/2014	0%
	4.11.11.5.4	from chainage 1125 to chainage 1270	16 days	29/7/2014	13/8/2014	0%
	4.11.11.6	HGC (west side of new Lin Ma Hang Road)	91 days	5/6/2014	3/9/2014	0%
_	4.11.11.6.1	from chainage 840 to chainage 1125	16 days	30/6/2014	15/7/2014	0%
	4.11.11.6.2	from chainage 630 to chainage 840	21 days	5/6/2014	25/6/2014	0%
	4.11.11.6.3	from chainage 475 to chainage 630	11 days	24/8/2014	3/9/2014	
			-			
	4.11.11.6.4 4.11.11.7	from chainage 1125 to chainage 1270	10 days	20/8/2014	29/8/2014	
		NWT (west side of new Lin Ma Hang Road)	84 days	26/6/2014 16/7/2014	17/9/2014 30/7/2014	
				16(1/201/4)	30/7/2014	
	4.11.11.7.1	from chainage 840 to chainage 1125	15 days			0%
2 3 4			15 days22 days12 days	26/6/2014 4/9/2014	17/7/2014 15/9/2014	0% 0% 0%

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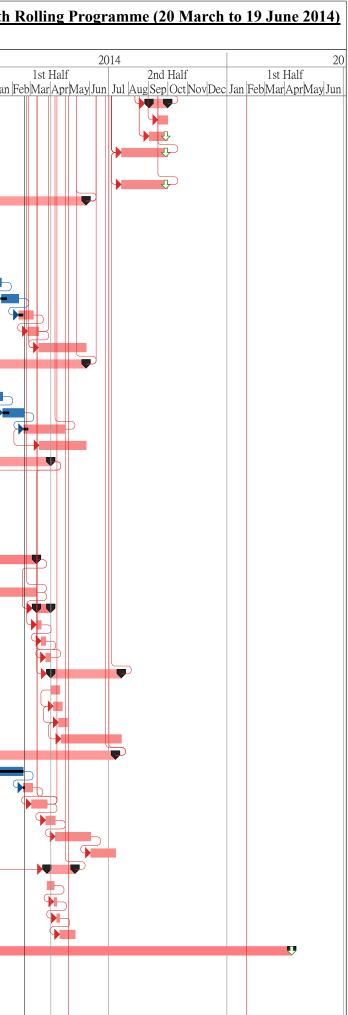
h Rolling Programme (20 March to 19 June 2014)



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ID	WBS	Task Name	Duration	Start	Finish	%		2013			_
						Complete	1st Half		2nd I		
	4 11 11 0		20.1	2/0/2014	20/0/2014		FebMarAprMa	ıy Jun Jul	AugSep	Oct Nov D	Dec Jan Fe
877	4.11.11.8	Street lighting work	29 days	2/9/2014	30/9/2014	0%					
78	4.11.11.8.1	west side of new Lin Ma Hang Road	15 days	16/9/2014	30/9/2014	0%				- ₽	
79	4.11.11.8.2	east side of new Lin Ma Hang Road	29 days	2/9/2014	30/9/2014	0%					
30	4.11.12	Roadwork of carriageway (new Lin Ma Hang Road for BCPA)	72 days	21/7/2014	30/9/2014	0%					
81	4.11.13	Construction of footpath (for BCPA)	72 days	21/7/2014	30/9/2014	0%					
32	4.11.14	Construction of pedestrian subway & pump room	202 days	6/11/2013	26/5/2014	40%					
83	4.11.14.1	prepare formation of sheetpiling/excavation	9 days	6/11/2013	14/11/2013	90%					
84	4.11.14.2	excavation &/or sheetpiling	33 days	15/11/2013	17/12/2013	85%					•
85	4.11.14.3	rubble mound	16 days	2/12/2013	17/12/2013	85%					
86	4.11.14.4	cast blinding layer	17 days	11/12/2013	27/12/2013	50%					
7	4.11.14.5	pump house	30 days	16/12/2013	14/1/2014	85%				G	
8	4.11.14.6	subway 8th bay	27 days	15/1/2014	10/2/2014	30%					
9	4.11.14.7	subway 7th bay	23 days	11/2/2014	5/3/2014	30%					
,)	4.11.14.8	subway 6th bay	17 days	25/2/2014	13/3/2014	0%					
	4.11.14.9	miscellaneous works	74 days	14/3/2014	26/5/2014	0%					
12	4.11.14.9 4.11.15	Construction of staircase with lift shaft with 6 nos. of mini pile	225 days	14/3/2014 14/10/2013	26/5/2014 26/5/2014	40%					
3	4.11.15.1	mini-piles	54 days	14/10/2013	6/12/2013	100%					$\supset \square$
4	4.11.15.2	lift shaft	41 days	7/12/2013	16/1/2014	85%					
5	4.11.15.3	Bay 9	33 days	17/1/2014	18/2/2014	30%					
6	4.11.15.4	Staircase	64 days	19/2/2014	23/4/2014	10%					K I
7	4.11.15.5	miscellaneous works	73 days	15/3/2014	26/5/2014	0%					
8	4.11.16	1 no. DN1650 pipe jacking LV009 including jacking & receiving pits	147 days	6/11/2013	1/4/2014	8%					
)	4.11.16.1	Pits construction	36 days	6/11/2013	11/12/2013	32%					b
)	4.11.16.1.1	utility detection of the area	3 days	6/11/2013	8/11/2013	100%					
L	4.11.16.1.2	inspection pits for jacking pit and receiving pit	5 days	9/11/2013	13/11/2013	100%					
2	4.11.16.1.3	temporary work & excavation for receiving pit	14 days	28/11/2013	11/12/2013	0%					Ы
3	4.11.16.1.4	temporary work & excavation for jacking pit	14 days	14/11/2013	27/11/2013	25%					5
	4.11.16.2	Jack sleeve Pipes	89 days	12/12/2013	10/3/2014	0%					
;	4.11.16.2.1	establishment of jacking equipment	15 days	12/12/2013	26/12/2013	0%					
_	4.11.16.2.2	jack pipe and excavate	74 days	27/12/2013	10/3/2014	0%					
5	4.11.16.3	HDPE pipes	22 days	11/3/2014	1/4/2014	0%					
3	4.11.16.3.1	Lay HDPE pipes	7 days	11/3/2014	17/3/2014	0%					
,)	4.11.16.3.2	Grout HDPE pipes	7 days	18/3/2014	24/3/2014	0%					
,)	4.11.16.3.3	Remove temporary works and backfilling	8 days	25/3/2014	1/4/2014	0%					
0 1	4.11.17	Construction of retaining wall RW9 - CH0 to 75m (length 75m)	110 days	2/4/2014	20/7/2014	0%					
1 2	4.11.17.1	drive sheetpile & excavation	14 days	2/4/2014	15/4/2014	0%					
		•				0%					
3	4.11.17.2	grade 200 rock fill	14 days	6/4/2014	19/4/2014						
4	4.11.17.3	cast blinding layer	14 days	14/4/2014	27/4/2014	0%					
5	4.11.17.4	Bay 9001-9010	94 days	18/4/2014	20/7/2014	0%					
6	4.11.18	Construction of Bridge J with 6 x Ø1500 bored piles	217 days	7/12/2013	11/7/2014	34%					
7	4.11.18.1	bored piles	73 days	7/12/2013	17/2/2014	100%					
8	4.11.18.2	pile caps	15 days	18/2/2014	4/3/2014	10%					9
9	4.11.18.3	abutment walls	24 days	3/3/2014	26/3/2014	0%					
0	4.11.18.4	falsework for deck	15 days	25/3/2014	8/4/2014	0%					
1	4.11.18.5	deck	55 days	9/4/2014	2/6/2014	0%					
2	4.11.18.6	parapet	39 days	3/6/2014	11/7/2014	0%					
3	4.11.19	Construction of retaining wall RW5 - CH0 to 60m (length 60m)	44 days	27/3/2014	9/5/2014	0%					
4	4.11.19.1	drive sheetpile & excavation	11 days	27/3/2014	6/4/2014	0%					
5	4.11.19.2	grade 200 rock fill	4 days	7/4/2014	10/4/2014	0%					
;	4.11.19.3	cast blinding layer	5 days	11/4/2014	15/4/2014	0%					
, 7	4.11.19.4	Bay 5001-5008	24 days	16/4/2014	9/5/2014	0%					
, 3	4.12	Section XIII of the Works - Works not covered in any other Sections	598 days	22/8/2013	11/4/2015	20%					
	4.12.1	Submissions	70 days	22/8/2013	30/10/2013	100%					
)											
0	4.12.2 4.12.3	Approval of Submissions Temporary Traffic Arrangement (TTA) Scheme for Works at existing	68 days	16/9/2013	22/11/2013	100%					
1		Lemnorary Trattic Arrangement (TTA) Scheme for Works at existing	92 days	23/8/2013	22/11/2013	100%		`			

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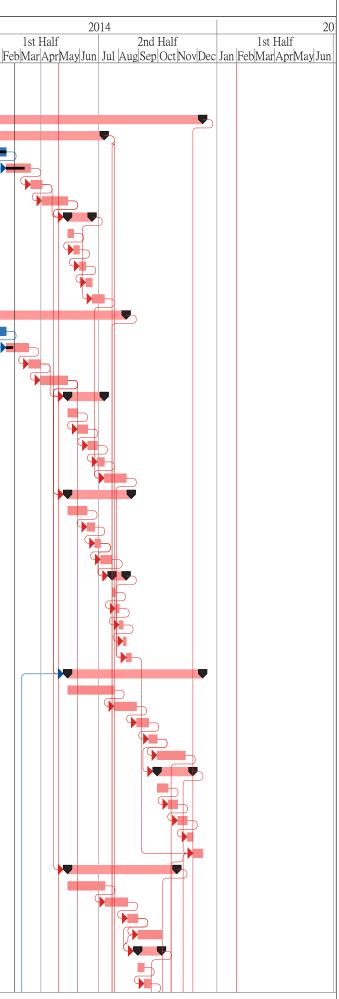
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ID	WBS	Task Name	Duration	Start	Finish	% 2013	
						Complete 1st Half 2nd Half	
32	4.12.3.1	Preparation of TTA scheme	21 days	23/8/2013	12/9/2013	FebMarAprMayJun Jul AugSepOct	NovDec
<u>2</u> 3	4.12.3.1	Comment & approval of TTA scheme by TD & RMO	55 days	13/9/2013	6/11/2013		L
, 1	4.12.3.2	Obtain roadwork advice from RMO	16 days	7/11/2013	22/11/2013	100%	
	4.12.3.3 4.12.4			23/11/2013	9/12/2013	15%	
5		Northbound of Re-aligned Lin Ma Hang Road (west side)	382 days				
5	4.12.4.1	Works from chainage 190 to chainage 310	229 days	23/11/2013	9/7/2014		
7	4.12.4.1.1	Drainage & slope drain	76 days	23/11/2013	6/2/2014	100%	
8	4.12.4.1.2	Waterwork	38 days	7/2/2014	16/3/2014	75%	
)	4.12.4.1.3	Irrigation System	18 days	17/3/2014	3/4/2014	0%	
)	4.12.4.1.4	Roadwork	40 days	4/4/2014	13/5/2014	0%	
1	4.12.4.1.5	Utilities works	38 days	14/5/2014	20/6/2014	0%	
2	4.12.4.1.5.1	11kV	9 days	14/5/2014	22/5/2014	0%	
3	4.12.4.1.5.2	LV	9 days	23/5/2014	31/5/2014	0%	
4	4.12.4.1.5.3	NWT	10 days	1/6/2014	10/6/2014	0%	
5	4.12.4.1.5.4	Highway lighting	10 days	11/6/2014	20/6/2014	0%	
6	4.12.4.1.6	Footpath	19 days	21/6/2014	9/7/2014	0%	
7	4.12.4.2	Works from chainage 380 to chainage 580	263 days	23/11/2013	12/8/2014	18%	
3	4.12.4.2.1	Drainage	76 days	23/11/2013	6/2/2014	50%	
9	4.12.4.2.2	Waterwork	35 days	7/2/2014	13/3/2014	30%	
) 0	4.12.4.2.3	Irrigation System	18 days	14/3/2014	31/3/2014	0%	
, l	4.12.4.2.4	Roadwork	43 days	1/4/2014	13/5/2014	0%	
2	4.12.4.2.5	Utilities works	57 days	14/5/2014	9/7/2014	0%	
<u>2</u> 3	4.12.4.2.5.1	11kV	15 days	14/5/2014	28/5/2014		
3 4	4.12.4.2.5.1	LV	16 days	29/5/2014	13/6/2014	0%	
4 5	4.12.4.2.5.2	NWT	15 days	14/6/2014	28/6/2014	0%	
			-			0%	
6	4.12.4.2.5.4	Highway lighting	11 days	29/6/2014	9/7/2014		
7	4.12.4.2.6	Footpath	34 days	10/7/2014	12/8/2014	0%	
8	4.12.4.3	Works from chainage 310 to chainage 380	99 days	14/5/2014	20/8/2014	0%	
9	4.12.4.3.1	Drainage	30 days	14/5/2014	12/6/2014	0%	
60	4.12.4.3.2	Waterwork	12 days	13/6/2014	24/6/2014	0%	
51	4.12.4.3.3	Irrigation System	9 days	25/6/2014	3/7/2014	0%	
52	4.12.4.3.4	Roadwork	18 days	4/7/2014	21/7/2014	0%	
3	4.12.4.3.5	Utilities works	22 days	22/7/2014	12/8/2014	0%	
64	4.12.4.3.5.1	11kV	5 days	22/7/2014	26/7/2014	0%	
55	4.12.4.3.5.2	LV	6 days	27/7/2014	1/8/2014	0%	
6	4.12.4.3.5.3	NWT	6 days	2/8/2014	7/8/2014	0%	
57	4.12.4.3.5.4	Highway lighting	5 days	8/8/2014	12/8/2014	0%	
8	4.12.4.3.6	Footpath	8 days	13/8/2014	20/8/2014	0%	
<u>59</u>	4.12.4.4	Works from chainage 580 to chainage 780	210 days	14/5/2014	9/12/2014	0%	
70	4.12.4.4.1	Drainage	72 days	14/5/2014	24/7/2014	0%	
	4.12.4.4.2	Waterwork	35 days	25/7/2014	28/8/2014	0%	
	4.12.4.4.3	Irrigation System	19 days	29/8/2014	16/9/2014	0%	
13	4.12.4.4.4	Sewerage	13 days	17/9/2014	29/9/2014	0%	
/3 /4	4.12.4.4.4	Roadwork	44 days	30/9/2014	12/11/2014		
		Utilities works	2		24/11/2014		
15	4.12.4.4.6		56 days	30/9/2014			
6	4.12.4.4.6.1	11kV	17 days	30/9/2014	16/10/2014	0%	
7	4.12.4.4.6.2		15 days	17/10/2014	31/10/2014	0%	
8	4.12.4.4.6.3	NWT	15 days	1/11/2014	15/11/2014	0%	
9	4.12.4.4.6.4	Highway lighting	9 days	16/11/2014	24/11/2014	0%	
0	4.12.4.4.7	Footpath	15 days	25/11/2014	9/12/2014	0%	
1	4.12.4.5	Works from chainage 80 to chainage 190	170 days	14/5/2014	30/10/2014	0%	
2	4.12.4.5.1	Drainage	58 days	14/5/2014	10/7/2014	0%	
3	4.12.4.5.2	Waterwork	35 days	11/7/2014	14/8/2014	0%	
4	4.12.4.5.3	Irrigation System	16 days	15/8/2014	30/8/2014	0%	
5	4.12.4.5.4	Roadwork	37 days	31/8/2014	6/10/2014	0%	
6	4.12.4.5.5	Utilities works	37 days	31/8/2014	6/10/2014	0%	
7	4.12.4.5.5.1	11kV	10 days	31/8/2014	9/9/2014	0%	
		1 115 7	10 uays	J 1/ 0/ 401 T	7/7/4017	0,0	

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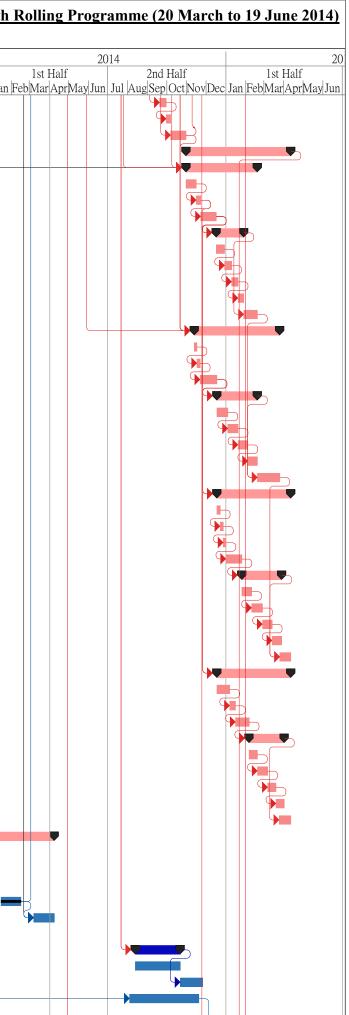
h Rolling Programme (20 March to 19 June 2014)



3 Month

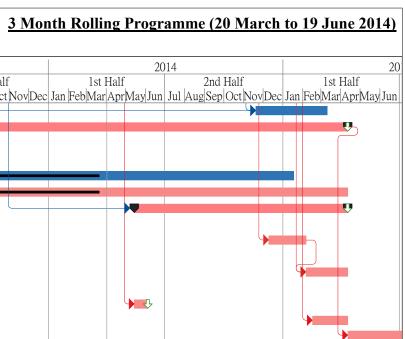
ID	WBS	Task Name	Duration	Start	Finish	%			20)13				
						Complete	1st F				2nd H		1	
					/- /		FebMar	Apr <u>Ma</u>	y Jun	Jul Aı	ug Sep (Oct Nov D	ec Jan	Feb
489	4.12.4.5.5.3	NWT	10 days	20/9/2014	29/9/2014	0%								
490	4.12.4.5.5.4	Highway lighting	7 days	30/9/2014	6/10/2014	0%								
491	4.12.4.5.6	Footpath	24 days	7/10/2014	30/10/2014	0%								
492	4.12.5	Southbound of Re-aligned Lin Ma Hang Road (east side)	163 days	31/10/2014	11/4/2015	0%								
493	4.12.5.1	Works from chainage 60 to chainage 200	111 days	31/10/2014	18/2/2015	0%								-
494	4.12.5.1.1	Drainage	16 days	31/10/2014	15/11/2014	0%								
495	4.12.5.1.2	Irrigation System	7 days	16/11/2014	22/11/2014	0%								
496	4.12.5.1.3	Roadwork	24 days	23/11/2014	16/12/2014	0%								
497	4.12.5.1.4	Utilities works	43 days	17/12/2014	28/1/2015	0%								
498	4.12.5.1.4.1	11kV	13 days	17/12/2014	29/12/2014	0%								
499	4.12.5.1.4.2	LV	11 days	30/12/2014	9/1/2015	0%								
500	4.12.5.1.4.3	HGC	10 days	10/1/2015	19/1/2015	0%								
501	4.12.5.1.4.4	Highway lighting	9 days	20/1/2015	28/1/2015	0%								
502	4.12.5.1.5	Footpath	21 days	29/1/2015	18/2/2015	0%								
503	4.12.5.2	Works from chainage 400 to chainage 600	133 days	13/11/2014	25/3/2015	0%								
504	4.12.5.2.1	Waterwork	4 days	13/11/2014	16/11/2014	0%								
505	4.12.5.2.2	Irrigation System	5 days	17/11/2014	21/11/2014	0%								
506	4.12.5.2.3	Roadwork	26 days	22/11/2014	17/12/2014	0%								
507	4.12.5.2.4	Utilities works	63 days	18/12/2014	18/2/2015	0%								
508	4.12.5.2.4.1	11kV	17 days	18/12/2014	3/1/2015	0%								
509	4.12.5.2.4.2	LV	16 days	4/1/2015	19/1/2015	0%								
510	4.12.5.2.4.2	HGC	15 days	20/1/2015	3/2/2015	0%								
510	4.12.5.2.4.3			4/2/2015	18/2/2015	0%								
		Highway lighting	15 days											
512	4.12.5.2.5	Footpath	35 days	19/2/2015	25/3/2015	0%								
513	4.12.5.3	Works from chainage 200 to chainage 400	115 days	18/12/2014	11/4/2015	0%								
514	4.12.5.3.1	Slope drain	5 days	18/12/2014	22/12/2014	0%								
515	4.12.5.3.2	Irrigation System	5 days	23/12/2014	27/12/2014	0%								
516	4.12.5.3.3	Waterwork	4 days	28/12/2014	31/12/2014	0%								
517	4.12.5.3.4	Roadwork	25 days	1/1/2015	25/1/2015	0%								
518	4.12.5.3.5	Utilities works	62 days	26/1/2015	28/3/2015	0%								
519	4.12.5.3.5.1	11kV	15 days	26/1/2015	9/2/2015	0%								
520	4.12.5.3.5.2	LV	17 days	10/2/2015	26/2/2015	0%								
521	4.12.5.3.5.3	HGC	15 days	27/2/2015	13/3/2015	0%								
522	4.12.5.3.5.4	Highway lighting	15 days	14/3/2015	28/3/2015	0%								
523	4.12.5.3.6	Footpath	17 days	26/3/2015	11/4/2015	0%								
524	4.12.5.4	Works from chainage 600 to chainage 780	115 days	18/12/2014	11/4/2015	0%								
525	4.12.5.4.1	Sewerage	20 days	18/12/2014	6/1/2015	0%								
526	4.12.5.4.2	Irrigation System	9 days	7/1/2015	15/1/2015	0%								
527	4.12.5.4.3	Roadwork	21 days	16/1/2015	5/2/2015	0%								
528	4.12.5.4.4	Utilities works	55 days	6/2/2015	1/4/2015	0%								
529	4.12.5.4.4.1	11kV	13 days	6/2/2015	18/2/2015	0%								
530	4.12.5.4.4.2	LV	16 days	19/2/2015	6/3/2015	0%								
531	4.12.5.4.4.3	HGC	13 days	7/3/2015	19/3/2015	0%								
531	4.12.5.4.4.3	Highway lighting	13 days	20/3/2015	1/4/2015	0%								
			2											
533	4.12.5.4.5	Footpath	18 days	25/3/2015	11/4/2015	0%								
534	4.12.6	Archaeological survey (Sections T1 to T3)(Drg. 6403A)	167 days	24/10/2013	8/4/2014	66%						04/1	0	
535	4.12.6.1	AMO Permit issue	0 days	24/10/2013	24/10/2013	100%						◆24/10	v	
536	4.12.6.2	Notice commencement of excavation to AMO	16 days	24/10/2013	8/11/2013	100%								
537	4.12.6.3	Phase 1 - ch 380 to ch 580 (Section T1)	14 days	9/11/2013	22/11/2013	100%								
538	4.12.6.4	Phase 3 - ch 580 to ch 780 (Section T2 (AWB))	31 days	16/1/2014	15/2/2014	100%								-
539	4.12.6.5	Phase 4 - ch 730 to ch 780 (Section T3) (Delyed possession of CR40-42)	32 days	8/3/2014	8/4/2014	0%								C
540	4.12.7	Construction of retaining wall RW8 - CH0 to 22 (3 bays)	70 days	13/8/2014	21/10/2014	0%								
541	4.12.7.1	Bay 8001 to Bay 8003 (3 bays)	70 days	13/8/2014	21/10/2014	0%								
542	4.12.8	Site Formation works for ArchSD Depot (Drg. 1001B)	35 days	22/10/2014	25/11/2014	0%								
543	4.12.9	Existing road to be improved & run-in to the site to be constructed at RS1	108 days	4/8/2014	19/11/2014	0%		Ļ				_		

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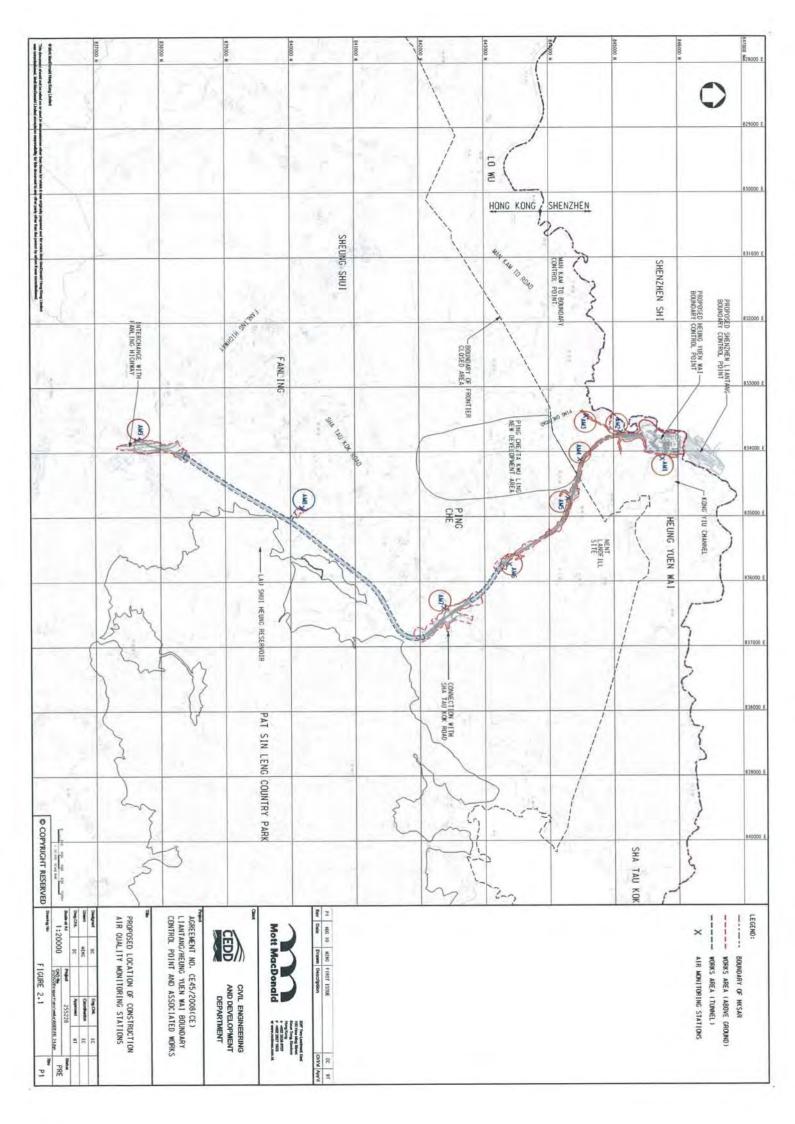
ID	WBS	Task Name	Duration	Start	Finish	%	20	13	
						Complete	1st Half FebMarAprMayJun	2nd Half Jul AugSepOctNov	vDec Jan F
544	4.12.10	Access road to be re-constructed / upgraded at RS3 (Drg/1203)	111 days	20/11/2014	10/3/2015	0%			
545	4.13	Section XIV of the Works - Trees preservation and protection	730 days	12/4/2013	11/4/2015	44%)		
546	4.13.1	Submissions	69 days	12/4/2013	19/6/2013	100%			
547	4.13.2	Approval of Submissions	70 days	20/6/2013	28/8/2013	100%			
548	4.13.3	Tree felling/removal works and tree transplanting works	499 days	6/9/2013	17/1/2015	39%			
549	4.13.4	Preservation and Protection of Existing Trees in all Portion of the Site	591 days	29/8/2013	11/4/2015	35%		•••••	
550	4.14	Section XV of the Works - Landscape soft works (including transplant trees to permanent locations)	332 days	15/5/2014	11/4/2015	0%			
551	4.14.1	tree & shrub planting at re-aligned Lin Ma Hang Road (west) for Section XIII of the Works	58 days	10/12/2014	5/2/2015	0%			
552	4.14.2	tree & shrub planting at re-aligned Lin Ma Hang Road (east) for Section XIII of the Works	65 days	6/2/2015	11/4/2015	0%			
553	4.14.3	shrub planting at BCPC for Section X of the Works	21 days	15/5/2014	4/6/2014	0%			
554	4.14.4	tree & shrub planting at BCPD Section XI of the Works	55 days	16/2/2015	11/4/2015	0%]		
555	4.15	Section XVI of the Works - Establishment works for landscape soft works	365 days	12/4/2015	10/4/2016	0%			

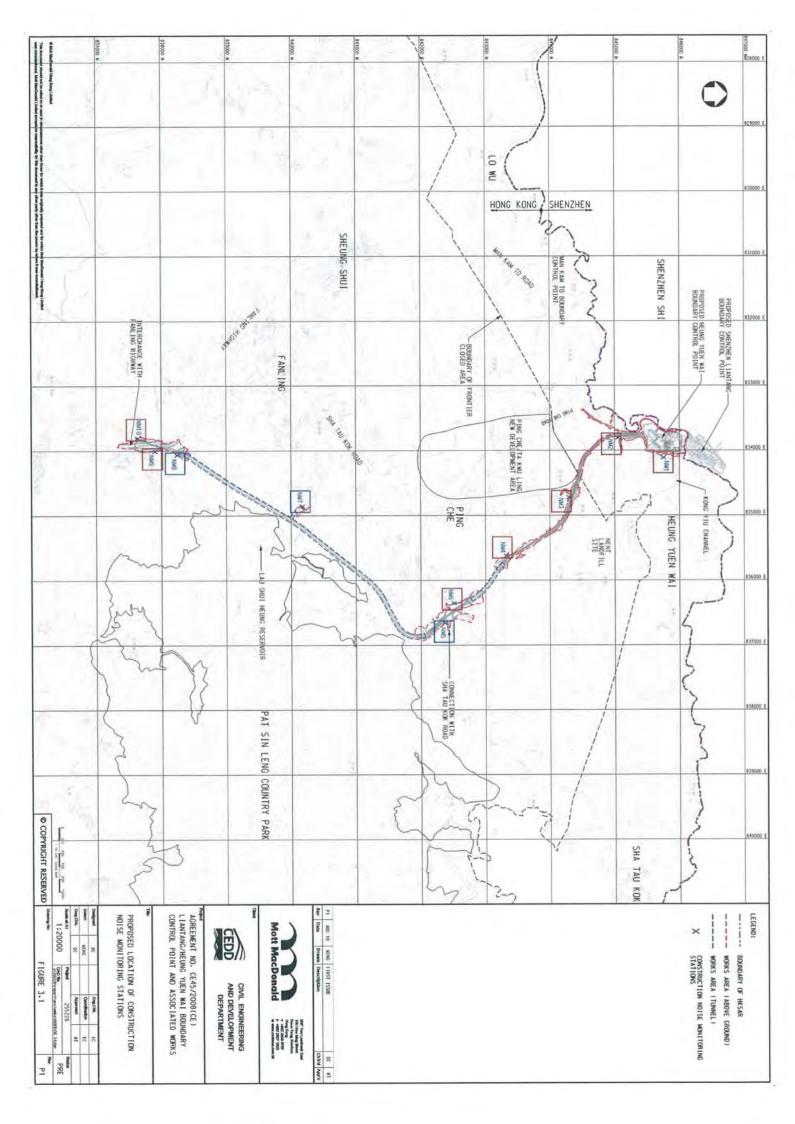


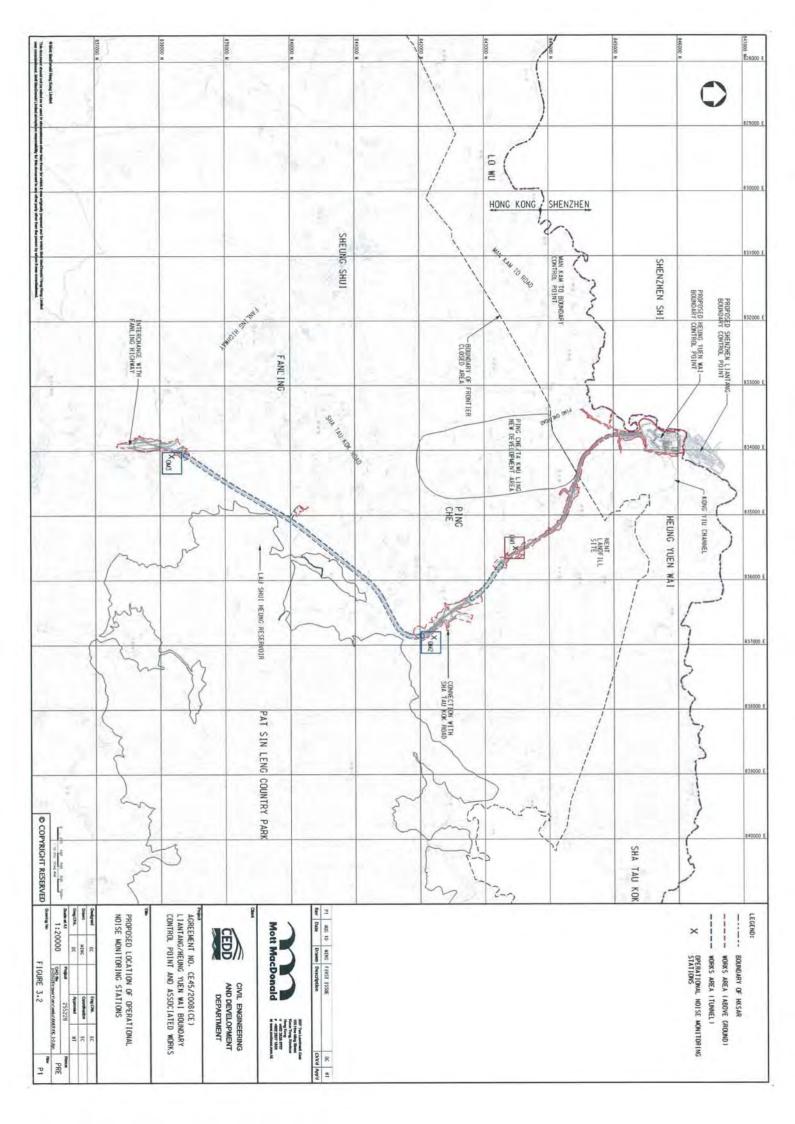


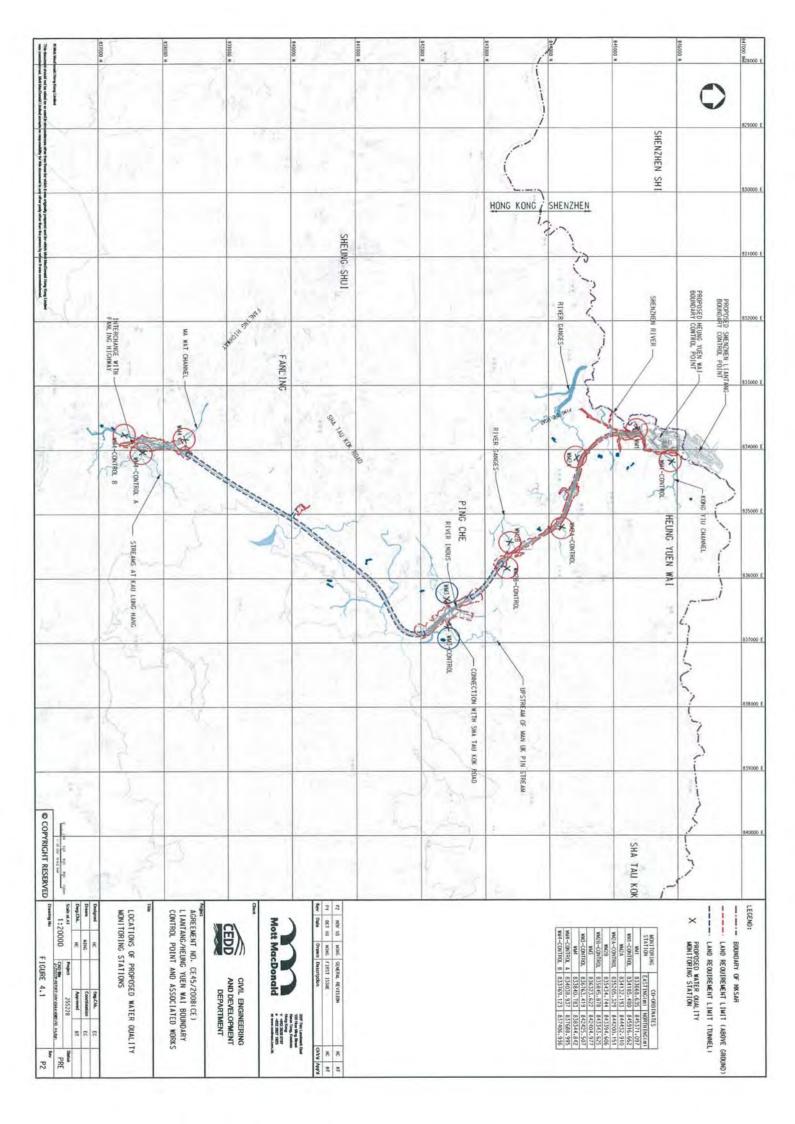
Appendix D

Designated Monitoring Locations as Recommended in the Approved EM&A Manual







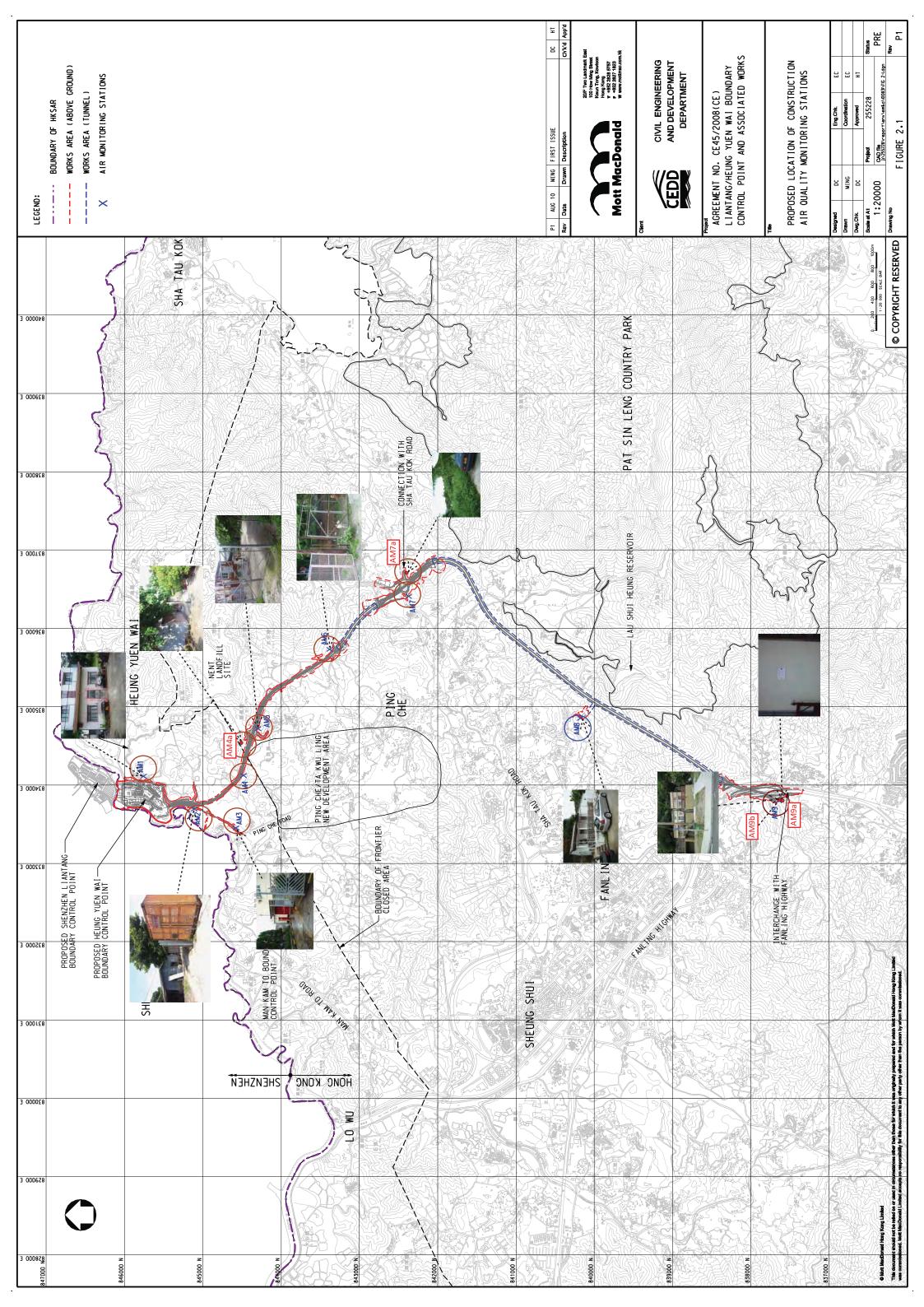




Appendix E

Monitoring Locations for Impact Monitoring

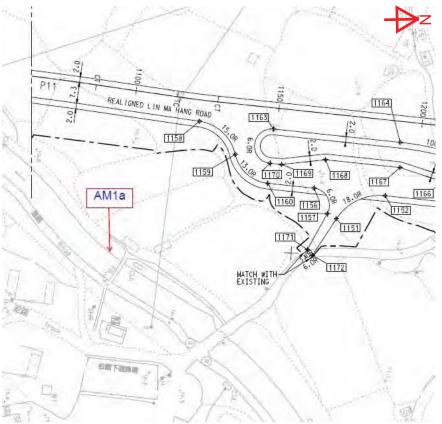
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Annex A - Location Map for Air Monitoring Location AM1 and AM1a



Location Map for of Air Monitoring Locations AM1 and AM1a



Location Map for Proposed Monitoring Location AM1a

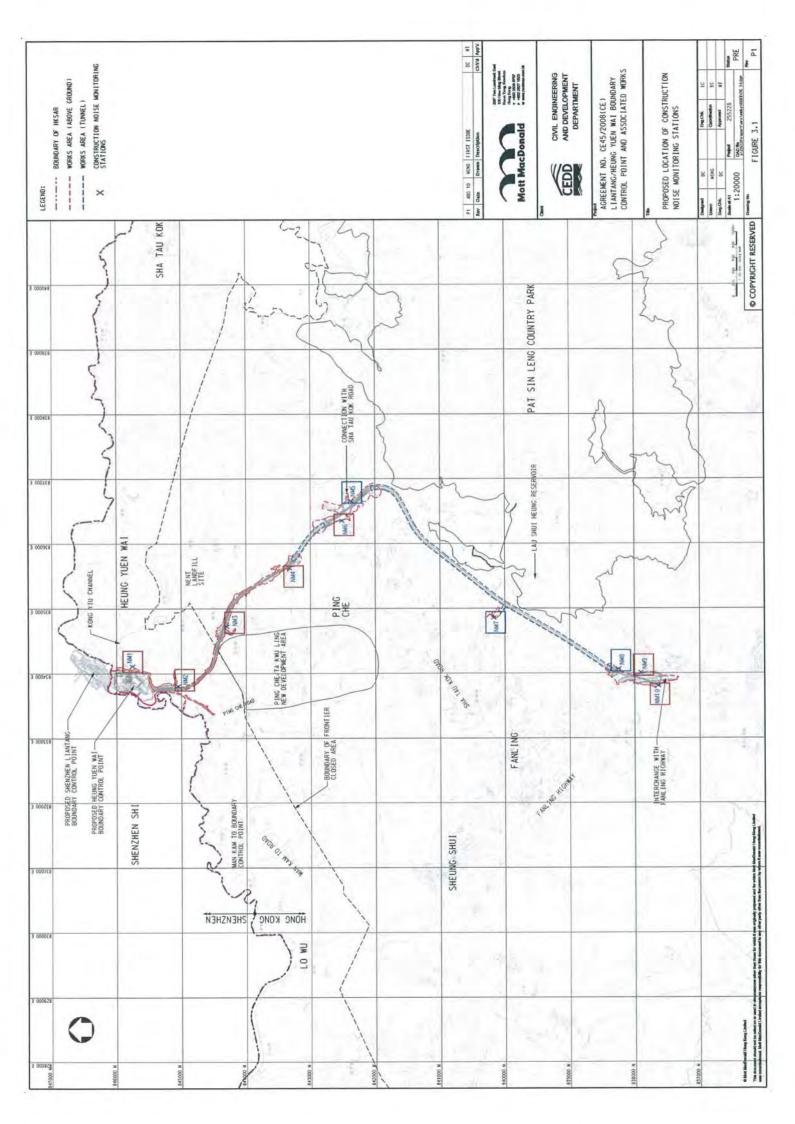
Annex B - Photo Record for Proposed Monitoring Location AM1a

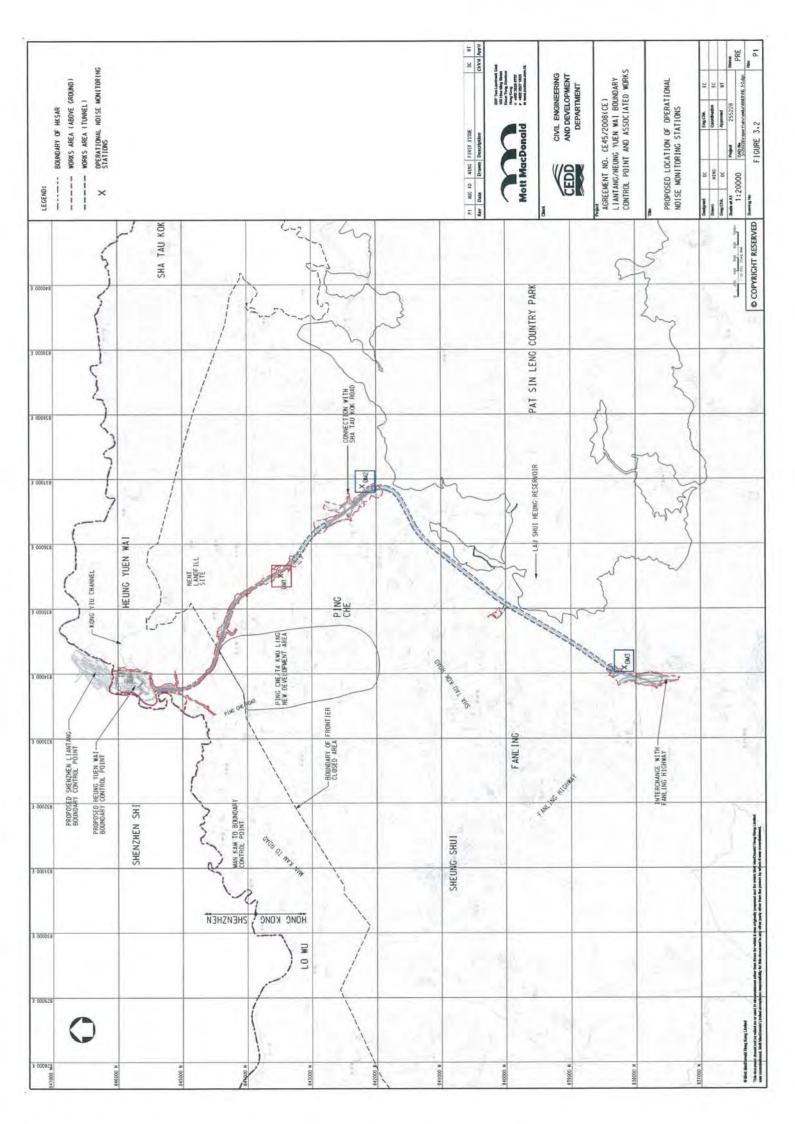


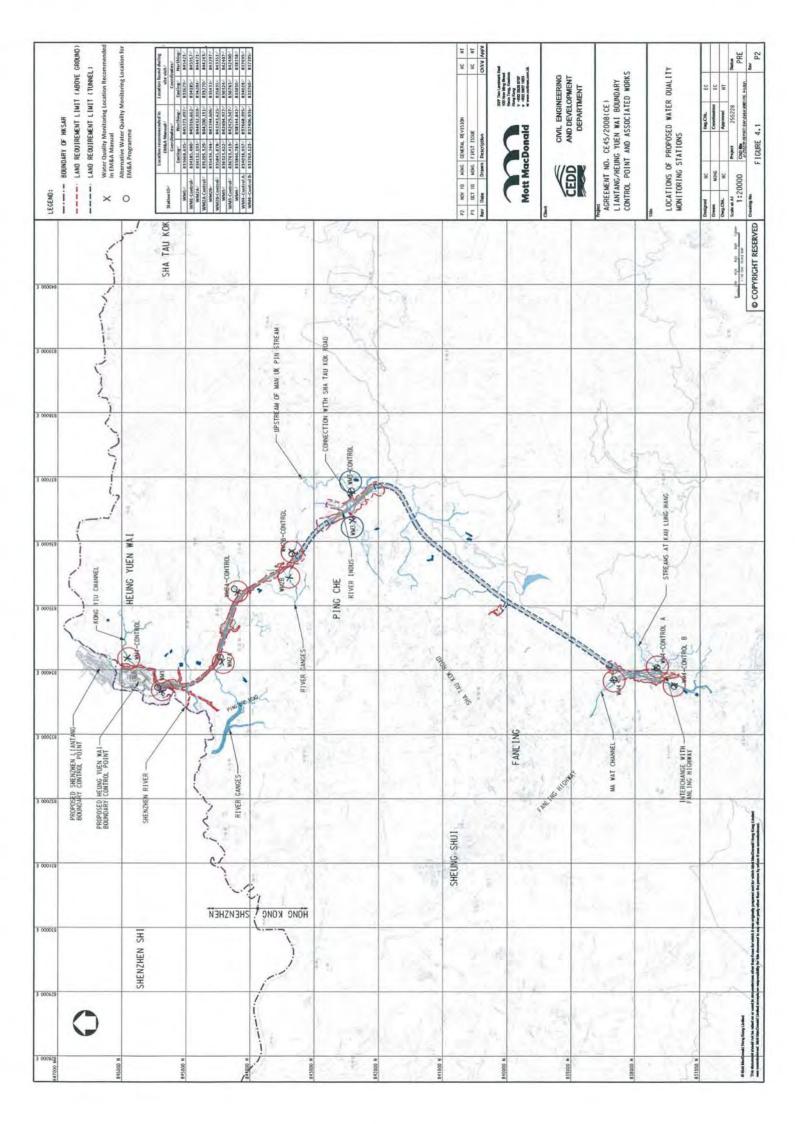
Full view of proposed Air Quality Monitoring Location AM1a (Garden Farm, Tsung Yuen Ha Village)



Proposed location for the HVS installation inside AM1a







Photographic Records for Water Quality Monitoring Location









Appendix F

Event and Action Plan

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Event and Action Plan for Air Quality

Event	ET	IE	CE	Action R Contracto
Action Level				
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 		unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance	1. Identify source:	1. Check monitoring data		
for two or more consecutive samples	 Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedi measures.	notification of failure in writing; 2. Notify Contractor 3. Ensure remedial measures properly implemented.	within 3 working
Limit Level				
1. Exceedance	1. Identify source,	1. Check monitoring data	1. Confirm receipt o	f 1. Take immediate
for one sample	investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Monitor theimplementation of remedial measures.	notification of failure in writing; 2. Notify Contractor 3. Ensure remedial measures properly implemented.	e action to avoid further
2. Exceedance	1. Notify IEC, ER, Contractor	1. Check monitoring data		
for two or more consecutive samples	and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC	submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise	notification of failure in writing; 2. Notify Contractor 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented;	further exceedance; 2. Submit proposals for remedial actions
ren 7. / Cor act and the 8. I	nedial actions to be taken; 5. I Assess effectiveness of imp	ER accordingly; Monitor the plementation of remedial vasures.	continues, consider what portion of the work is responsible and instruct the Contractor to stop	under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Event and Action Plan for Construction Noise

Event	ET	IEC	ER	Action Contractor
Action Level	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Advise the ER on the effectiveness of the proposed remedial measures. 	Confirm receipt of notification of failure in writing; Z. Notify Contractor; J. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; A. Supervise the implementation of remedial measures.	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals.
Limit Level	I. Inform IEC, ER, Contractor and EPD; Z. Repeat measurements to confirm findings; J. Increase monitoring frequency; I. Identify source and investigate the cause of exceedance; S. Carry out analysis of Contractor's working procedures; D. Contractor's working S. Carry out analysis of Contractor's working Procedures; D. Contra	Discuss amongst ER, ET, and Contractor on the optential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	Confirm receipt of notification of failure in writino: Z. Notify Contractor; J. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; C	1. Take immediate action to avoid further exceedance: 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still
	 Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 		 If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. 	not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated.



Event and Action Plan for Water Quality

EVENT	ET	IEC	ER	ACTION
Action level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings; Identify reasons for non-compliance and sources of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures 	 Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures.
Action Level being exceeded by more than two consecutive sampling days	 Repeat in-situ measurement to confirm findings; Identify reasons for non-compliance and sources of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor; sworking mathode: Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures 	 Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER writin 2 working reserved mitigation measures.
Limit Level being exceeded by one sampling day	exceedance. 1. Repeat in-situ measurement to confirm findings; 2. Identify reasons for non-compliance and sources of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures.
Limit level being exceeded by more than one consecutive sampling days	Level. 1. Repeat in-situ measurement to confirm findings; 2. Identify reasons for non-compliance and sources of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days.	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit Level. 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures; As directed by the ER, to slow down or to stop all or part of the construction activities.

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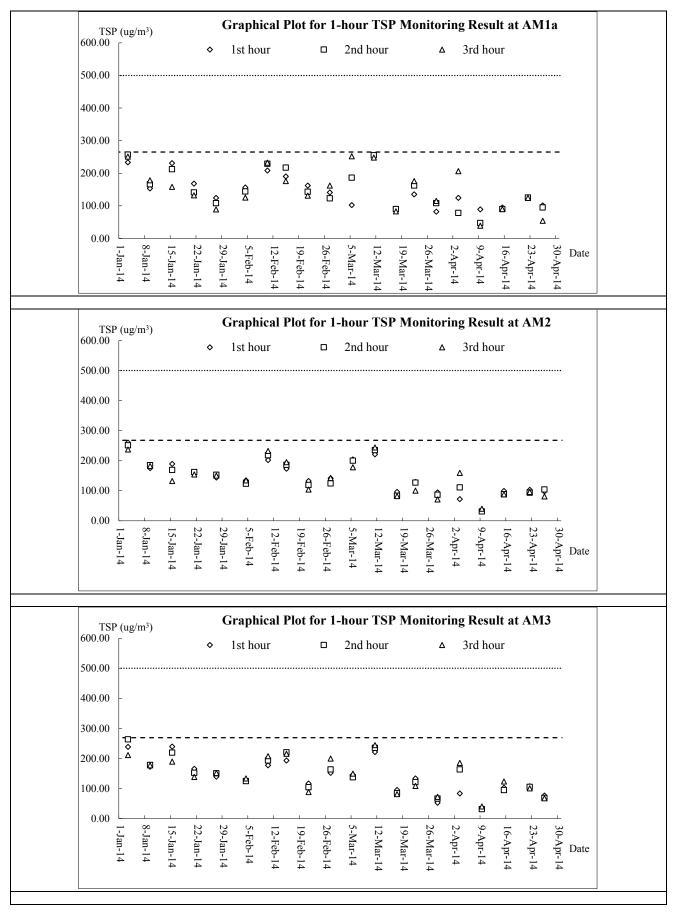


Appendix G

Graphical Plots for Monitoring Result



Air Quality – 1-hour TSP

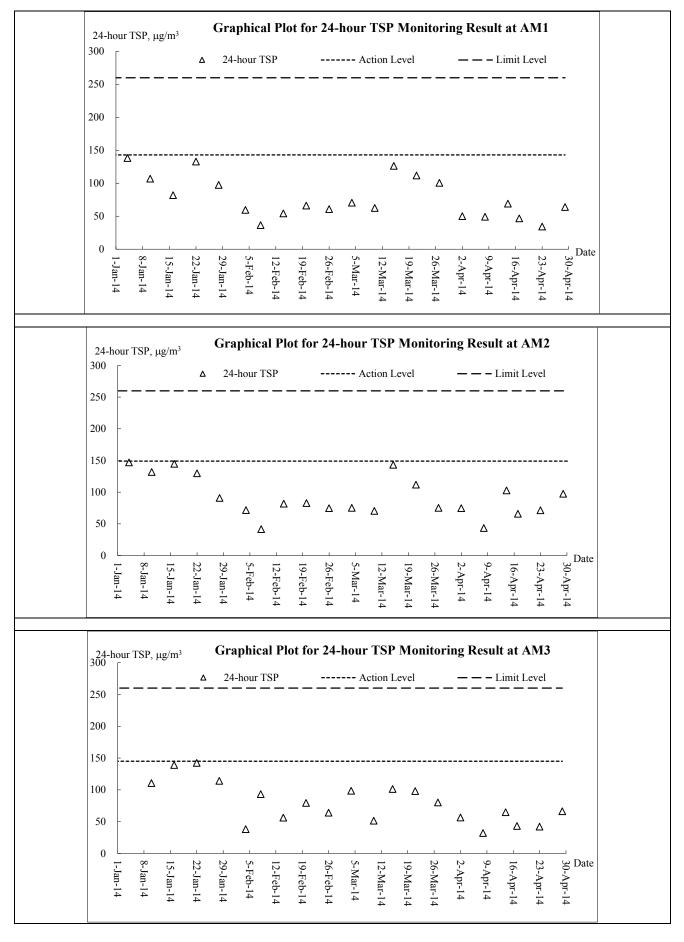




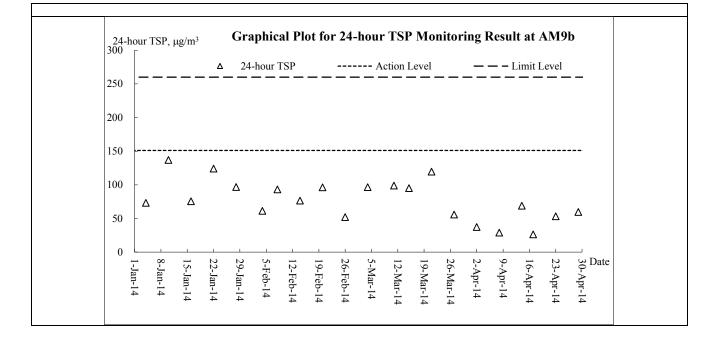
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Air Quality – 24-hour TSP

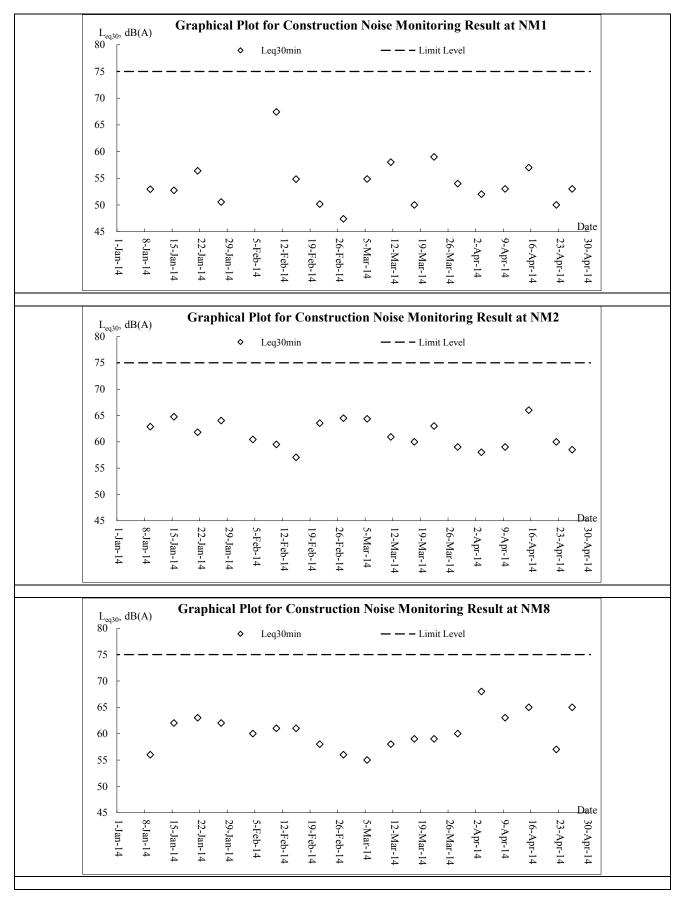








Noise

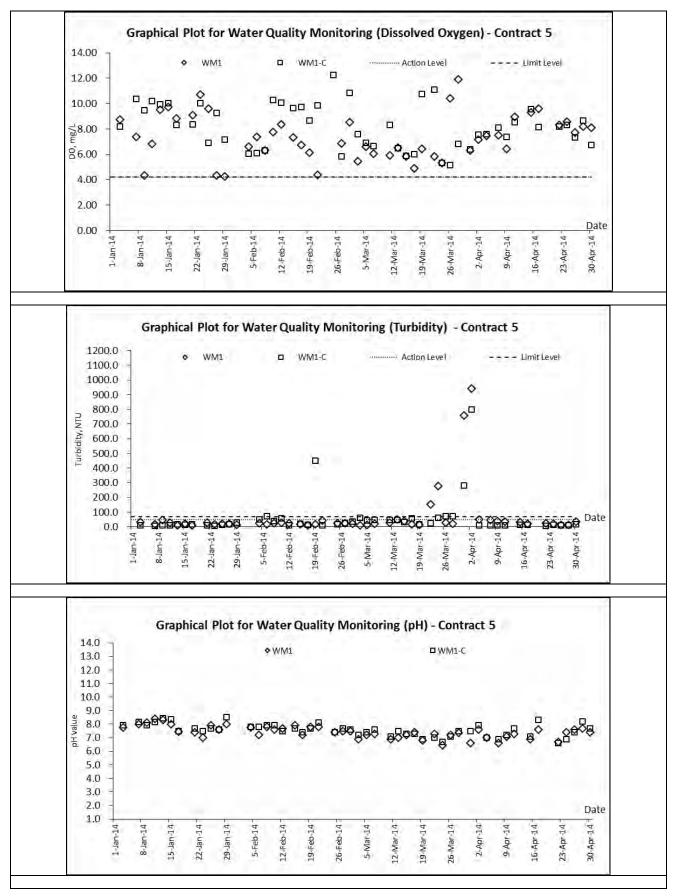




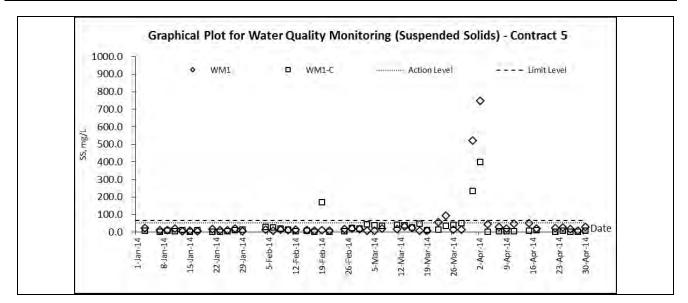
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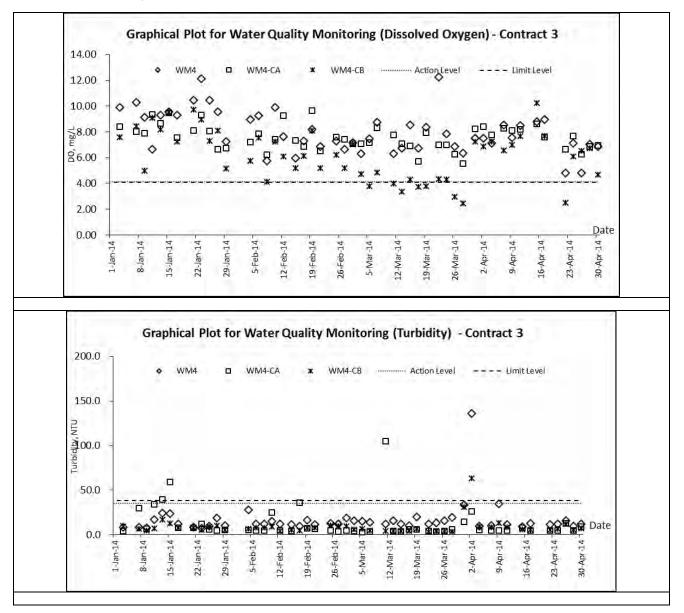
Water Quality - Contract 5



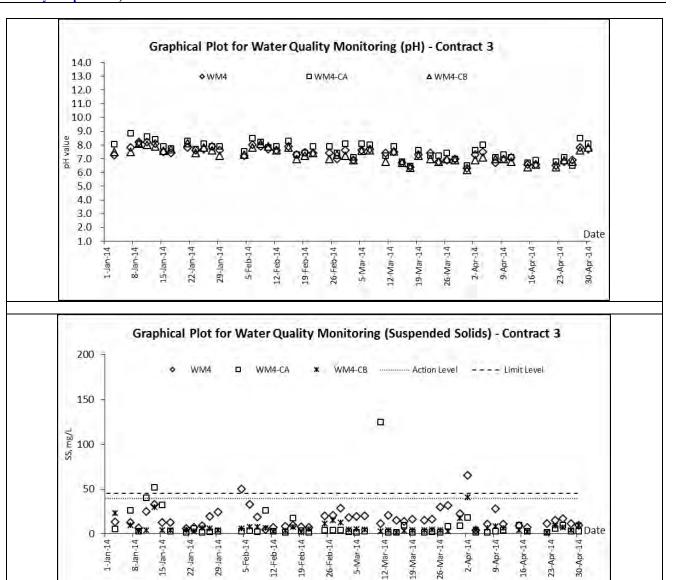




Water Quality - Contract 3



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Appendix H

Weather information



Weather Condition Extracted from HKO

The weather of February 2014

With several rounds of transition between warm and cold air masses along the coast of Guangdong, the weather of Hong Kong in February 2014 was marked by fluctuating temperatures. The mild episodes in the first and last weeks of the month contrasted sharply against the chilly weather that prevailed in mid-February. On the whole, February 2014 was cooler than usual with a monthly mean temperature of 15.5 degrees, 1.3 degrees below the normal figure of 16.8 degrees. February 2014 was also drier than normal. The monthly rainfall of 39.5 millimetres was about 27 percent below the normal figure of 54.4 millimetres. Without any measurable rainfall in January 2014, the accumulated rainfall of 39.5 millimetres in the first two months of the year was only about half of the normal figure of 78.9 millimetres for the same period.

The weather of March 2014

March 2014 was characterized by gloomy weather during the first-half of the month and heavy rain episodes towards the end of the month. While the monthly total duration of bright sunshine of 86.0 hours was slightly below normal by 5 percent, there were only 5.0 hours of bright sunshine from 1 to 15 March. The month was also cooler and wetter than usual. The monthly mean temperature of 18.7 degrees was 0.4 degree below the normal figure of 19.1 degrees. The total rainfall of the monthly rainfall fell between 29 and 31 March. The accumulated rainfall of 247.1 millimetres since 1 January was about 53 percent above the normal figure of 161.3 millimetres for the same period.

The weather of April 2014

Pending to updated from HKO.

Remark: The meteorological data during the Reporting Period is presented in the relevant monthly EM&A report.



Appendix I

Waste Flow Table

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Monthly Summary Waste Flow Table for 2014 (year)

	Actu	al Quantities	of Inert C&D	Materials Ge	enerated Mon	thly	Actua	l Quantities o	f C&D Wastes	Generated M	onthly
Month	Total Quantity Generated (in '000m ³)	Hard Rock and Large Broken Concrete (in '000m ³)	Reused in the Contract (in '000m ³)	Reused in other Projects (in '000m ³)	Disposed as Public Fill (in '000m ³)	Imported Fill (in '000m ³)	Metals (in '000m ³)	Paper/ cardboard packaging (in '000m ³)	Plastics (see Note 3) (in '000m ³)	Chemical Waste (in '000m ³)	Others, e.g. general refuse (in '000m ³)
Jan	0.409	0.084	0	0	0.409	0.200	0	0	0.010	0	0.110
Feb	1.697	0.356	0.380	0	1.473	0	0.002	0	0	0.019	0.040
Mar	3.954	0.506	1.092	0	2.862	0	0	0	0	0	0.265
Apr	1.600	0.054	0.672	0	0.928	0.200	0	0	0	0.020	0.135
May											
Jun											
Sub-total	7.660	1.000	2.144	0.000	5.672	0.400	0.002	0.000	0.010	0.039	0.550
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	7.660	1.000	2.144	0.000	5.672	0.400	0.002	0.000	0.010	0.039	0.550

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

2. Assume the density of rock and broken concrete is 2.5 ton/m^3 .

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

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

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

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

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

Contract No. CV/2013/03 Particular Specification Appendix 1.27 Liantang/Heung Yuen Wai Boundary Control Point Site Formation and infrastructure Works -Contract 5

Name of Department: CEDD

	А	ctual Quantities	of Inert C&D M	Iaterials Gener	rated Monthly	у	Actual Q	uantities of C	C&D Wastes	Generated	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
JAN	0	0	0	0	0	16.571	0	0	0	0	0.85
FEB	0	0	0	0	0	18.672	0	0	0	0	0.005
MAR	0	0	0	0	0	2.968	0	0	0	6	0.01
APRIL	0	0	0	0	0	1.664	0.87	0	0	0	0.245
MAY											
JUN											
Sub Total	0	0	0	0	0	39.875	0.87	0	0	6	1.11
JUL											
AUG											
SEP											
OCT											
NOV											
DEC											
Total	0	0	0	0	0	39.88	0.87	0	0	6	1.11

Monthly Summary Waste Flow Table for 2014

Notes:

Name of Department: CEDD

<u> </u>	Fore	cast of Total Qu	antities of C&	D Materials	to be Generate	ed from the	Contract (see	e Note 4)		
Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
0	0	0	0	0	350	30	4	2	1	4

Notes:

(1) The performance targets are given in PS clause 6(14) above.

(2) The waste flow table shall also include C&D materials that are specified in the Contractor to be imported for use at the Site.

(3) Plastic refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature

- Hard Rocks and Large Broken Concrete = Cannot be defined at this stage

- Imported Fill = Estimated by the Contractor = 1 loading = 8m 3

- Metal = Estimated by the Contractor

- Paper/cardboard packaging = Estimated by the Contractor

- Plastics = Estimated by the Contractor

- Chemical Waste = Estimated by the Contractor (Spent lubricating oil, assume density 0.9kg/L)

- Other, e.g. general refuse = Estimated by the Contractor



Appendix J

Implementation Schedule for Environmental Mitigation Measures



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
Air Quali	ty Impact (Construction)					
3.6.1.1	2.1	 General Dust Control Measures The following dust suppression measures should be implemented: Frequent water spraying for active construction areas (4 times per day for active areas in Po Kak Tsai and 8 times per day for all other active areas), including areas with heavy construction and slope cutting activities 80% of stockpile areas should be covered by impervious sheets Speed of trucks within the site should be controlled to about 10 km/hr All haul roads within the site should be paved to avoid dust 	To minimize adverse dust emission generated from various construction activities of the works sites	Contractor	Construction Works Sites	During Construction	EIA Recommendation and Air Pollution Control (Construction Dust) Regulation
	2.1	emission due to vehicular movement			Construction During		
3.6.1.2	2.1	Best Practice for Dust Control The relevant best practices for dust control as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted to further reduce the construction dust impacts of the Project. These best practices include:	To minimize adverse dust emission generated from various construction activities of the	Contractor	Construction Works Sites	During Construction	EIA Recommendation and Air Pollution Control (Construction Dust) Regulation
		 Good site management The Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. 	works sites				
		 Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimize the release of visible dust emission. 					
		 Any piles of materials accumulated on or around the work areas should be cleaned up regularly. 					
		 Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimizing generation of fugitive dust emissions. 					
		 The material should be handled properly to prevent fugitive dust emission before cleaning. Disturbed Parts of the Roads 					
		 Each and every main temporary access should be paved with 					



EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the Recommended Measure	Who to implement	Location of the	When to implement the	What requirements or standards for the
	Ref.		& Main Concerns to address	the measure?	measure	measure?	measure to achieve?
		concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or					
		 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 					
		Exposed Earth					
		Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.					
		Loading, Unloading or Transfer of Dusty Materials					
		 All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 					
		Debris Handling					
		 Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 					
		 Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 					
		Transport of Dusty Materials					
		 Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 					
		Wheel washing					
		Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.					
		Use of vehicles					
		Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.					
		Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.					



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		Site hoarding					
		Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.					
		Blasting					
		The areas within 30m from the blasting area should be wetted with water prior to blasting.					
Air Quali	ty Impact (Operation)					
3.5.2.2	2.2	 The following odour containment and control measures will be provided for the proposed sewage treatment work at the BCP site: The treatment work will be totally enclosed. Negative pressure ventilation will be provided within the enclosure to avoid any fugitive odorous emission from the treatment work. Further odour containment will be achieved by covering or confining the sewage channels, sewage tanks, and equipment with potential odour emission. Proper mixing will be provided at the equalization and sludge holding tanks to prevent sewage septicity. Chemical or biological deodorisation facilities with a minimum odour removal efficiency of 90% will be provided to treat potential odorous emissions from the treatment plant including sewage channels / tanks, filter press and screening facilities so as to minimize any potential odour impact to the nearby ASRs. 	To minimize potential odour impact from operation of the proposed sewage treatment work at BCP	DSD	BCP	Operation Phase	EIA recommendation
Noise Im	pact (Cons	truction)					
4.4.1.4	3.1	Adoption of Quieter PME	To minimize the	Contractors	Construction	During	EIA recommendation,
		Use of the recommended quieter PME such as those given in the BS5228: Part 1:2009 and presented in Table 4.14 , which can be found in Hong Kong.	construction air- borne noise impact		Work Sites	Construction	EIAO and Noise Control Ordinance (NCO)



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
4.4.1.4	3.1	Use of Movable Noise Barrier The use of movable barrier for certain PME can further alleviate the construction noise impacts. In general, a 5 dB(A) reduction for movable PME and 10 dB(A) for stationary PME can be achieved depending on the actual design of the movable noise barrier. The Contractor shall be responsible for design of the movable noise barrier with due consideration given to the size of the PME and the requirement for intercepting the line of sight between the NSRs and PME. Barrier material with surface mass in excess of 7 kg/m ² is recommended to achieve the predicted screening effect.	To minimize the construction air- borne noise impact	Contractors	Construction Work Sites	During Construction	EIA recommendation, EIAO and NCO
4.4.1.4	3.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the GW-TM.	To minimize the construction air- borne noise impact	Contractors	Construction Work Sites	During Construction	EIA recommendation, EIAO and NCO
4.4.1.4	3.1	Use of Noise Insulating Fabric Noise insulating fabric can be adopted for certain PME (e.g. drill rig, pilling auger etc). The insulating fabric should be lapped such that there are no openings or gaps on the joints. Technical data from manufacturers state that by using the Fabric, a noise reduction of over 10 dB(A) can be achieved on noise level.	To minimize the construction air- borne noise impact	Contractors	Construction Work Sites	During Construction	EIA recommendation, EIAO and NCO



			Objectives of the	Who to			What requirements
EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Recommended Measure	implement the	Location of the measure	When to implement the	or standards for the measure to
	nei.		& Main Concerns to address	measure?	measure	measure?	achieve?
4.4.1.4	3.1	Good Site Practice	To minimize the	Contractors	Construction	During	EIA recommendation,
		The good site practices listed below should be followed during each phase of construction:	construction air- borne noise impact		Work Sites	Construction	EIAO and NCO
		• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;					
		 Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction programme; 					
		• Mobile plant, if any, should be sited as far from NSRs as possible;					
		 Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; 					
		• Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and					
		• Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.					
Noise Im	pact (Oper	ation)					
		Road Traffic Noise					
Table 4.42 and Figure 4.20.1 to 4.20.4	3.2	Erection of noise barrier/ enclosure along the viaduct section.	To minimize the road traffic noise along the connecting road of BCP	Contractor	Loi Tung and Fanling Highway Interchange	Before Operation	EIAO and NCO
		Fixed Plant Noise					
Table 4.46	3.2	Specification of the maximum allowable sound power levels of the proposed fixed plants during daytime and night-time.	To minimize the fixed plant noise impact	Managing Authority of the buildings / Contractor	BCP, Administration Building and all ventilation buildings	Before Operation	EIA recommendation, EIAO and NCO



	ientai wor	nitoring and Audit Manual	Objectives of the				
EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirement or standards for th measure to achieve?
4.5.2.4	3.2	 The following noise reduction measures shall be considered as far as practicable during operation: Choose quieter plant such as those which have been effectively silenced; Include noise levels specification when ordering new plant (including chillier and E/M equipment); Locate fixed plant/louver away from any NSRs as far as practicable; Locate fixed plant in walled plant rooms or in specially designed enclosures; Locate noisy machines in a basement or a completely separate building; Install direct noise mitigation measures including silencers, acoustic louvers and acoustic enclosure where necessary; and Develop and implement a regularly scheduled plant maintenance programme so that equipment is properly operated and serviced in order to maintain a controlled level of noise. 	To minimize the fixed plant noise impact	Managing Authority of the buildings / Contractor	BCP, Administration Building and all ventilation buildings	Before Operation	EIAO and NCO
Vater Qu	uality Impa	ct (Construction)					
5.6.1.1	4.1	 Construction site runoff and drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts: At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractor prior to the commencement of 	To control site runoff and drainage; prevent high sediment loading from reaching the nearby watercourses	Contractor	Construction Works Sites	Construction Phase	Practice Note for Professional Persons on Construction Site Drainage (ProPECC Note PN 1/94)

The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas.

construction.



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure	Who to implement the	Location of the	When to implement the	What requirements or standards for the
	nel.		& Main Concerns to address	measure?	measure	measure?	or standards for the measure to achieve?
		Temporary ditches should be provided to facilitate the runoff discharge into stormwater drainage system through a sediment/silt trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates, if practical.					
	•	Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractor prior to the commencement of construction.					
	•	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.					
	•	Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities.					
	•	If surface excavation works cannot be avoided during the wet season (April to September), temporarily exposed slope/soil surfaces should be covered by tarpaulin or other means, as far as practicable, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Interception channels should be provided (e.g. along the crest/edge of the excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC Note PN 1/94.					



EIA Ref. R	kA ef.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		the erosive potential of surface water flows.					

All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.

- Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.
- Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers.
- Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.
- Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.

5.6.1.1	4.1	Good site practices for works within water gathering grounds	To minimize water	Contractor	Construction	Construction	ProPECC Note PN
		The following conditions should be complied, if there is any works to be	quality impacts to		Works Sites	Phase	1/94
		carried out within the water gathering grounds:	the water gathering		within the water		
			grounds		gathering		

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	nitoring and Audit Manual					
IA Ref. EM&A Ref. Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for th measure to achieve?
	 Adequate measures should be implemented to ensure n or siltation occurs to the catchwaters and catchments. 	o pollution		grounds		
	 No earth, building materials, oil or fuel, soil, toxic materials materials that may possibly cause contamination to wate grounds are allowed to be stockpiled on site. 					
	 All surplus spoil should be removed from water gathering as soon as possible. 	g grounds				
	 Temporary drains with silt traps should be constructed a boundary before the commencement of any earthworks. 					
	 Regular cleaning of silt traps should be carried out to ensoperation at all time. 	sure proper				
	 All excavated or filled surfaces which have the risk of erc should always be protected form erosion. 	osion				
	 Facilities for washing the wheels of vehicles before leavi should be provided. 	ng the site				
	 Any construction plant which causes pollution to catchwa catchments due to the leakage of oil or fuel should be re site immediately. 					
	No maintenance activities which may generate chemical should be undertaken in the water gathering grounds. Ve maintenance should be confined to designated paved ar and any spillages should be cleared up immediately usin absorbents and waste oils should be collected in designa prior to disposal off site. All storm water run-off from thes should be discharged via oil/petrol separators and sand/ traps.	ehicle eas only ng ated tanks se areas				
	Any soil contaminated with fuel leaked from plant should removed off site and the voids arising from removal of contaminated soil should be replaced by suitable materia by the Director of Water Supplies.					
	 Provision of temporary toilet facilities and use of chemica insecticide of any kind are subject to the approval of the Water Supplies. 					

Drainage plans should be submitted for approval by the Director of



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		 An unimpeded access through the waterworks access road should always be maintained. 					
		 Earthworks near catchwaters or streamcourses should only be carried out in dry season between October and March, 					
		 Advance notice must be given before the commencement of works on site quoting WSD's approval letter reference. 					
5.6.1.2	4.1	Good site practices of general construction activities		Contractor	All construction works sites	Construction phase	EIA Recommendation
		Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby stormwater drain. Stockpiles of cement and other construction materials should be kept covered when not being used.					
		Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby stormwater drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.					
5.6.1.3	4.1	Sewage effluent from construction workforce	To minimize water	Contractor	All construction	Construction	EIA Recommendation
		Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	quality impacts		works sites with on-site sanitary facilities	phase	and Water Pollution Control Ordinance (WPCO)
5.6.1.4	4.1	Hydrogeological Impact	To minimize water	Contractor	Construction works sites of the drill and blast tunnel	Construction phase	EIA Recommendation and WPCO
		Grout injection works would be conducted before blasting, for sealing a limited area around the tunnel with a grout of a suitable strength for controlling the potential groundwater inflows. The pre-injection grouting method would be supplemented by post-injection grouting where necessary to further enhance the groundwater inflow control. On-site treatment for the groundwater ingress pumped out would be required to remove any contamination by grouting materials before discharge off-site.					
Water Qu	ality Impa	ct (Operation)					
		No mitigation measure is required.					



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns	Who to implement the	Location of the measure	When to implement the measure?	What requirements or standards for the measure to
			to address	measure?			achieve?
Sewage a	and Sewera	age Treatment Impact (Construction)					
6.7	5	The sewage generated by the on-site workforce should be collected in chemical toilets and disposed of off-site by a licensed waste collector.	To minimize water quality impacts	Contractor	All construction works sites with on-site sanitary facilities	Construction phase	EIA recommendation and WPCO
Sewage a	and Sewera	age Treatment Impact (Operation)					
6.6.3	5	Sewage generated by the BCP and Chuk Yuen Village Resite will be collected and treated by the proposed on-site sewage treatment facility using Membrane Bioreactor treatment with a portion of the treated wastewater reused for irrigation and flushing within the BCP.	To minimize water quality impacts	DSD	BCP	Operation phase	EIA recommendation and WPCO
6.5.3	5	Sewage generated from the Administration Building will be discharged to the existing local sewerage system.	To minimize water quality impacts	DSD	Administration Building	Operation phase	EIA recommendation and WPCO
Waste Ma	anagement	t Implication (Construction)					
7.6.1.1	6	Good Site Practices Adverse impacts related to waste management such as potential hazard, air, odour, noise, wastewater discharge and public transport as mentioned in section 3.4.7.2 (ii)(c) of the Study Brief are not expected to arise, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities include:	To minimize adverse environmental impact	Contractor	Construction works sites (general)	Construction Phase	EIA recommendation Waste Disposal Ordinance; Waste Disposal (Chemical Wastes) (General) Regulation; and ETWB TC(W) No.
		 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 					19/2005, Environmental Management on Construction Site
		 Training of site personnel in proper waste management and chemical handling procedures 					
		 Provision of sufficient waste disposal points and regular collection of waste 					
		 Dust suppression measures as required under the Air Pollution Control (Construction Dust) Regulation should be followed as far as practicable. Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by covering trucks or in enclosed containers 					
		 General refuse shall be removed away immediately for disposal. As 					



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		 Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction from public road 					
		 Covers and water spraying system should be provided for the stockpiled C&D material to prevent dust impact or being washed away 					
		 Designate different locations for storage of C&D material to enhance reuse 					
		 Well planned programme for transportation of C&D material to lessen the off-site traffic impact. Well planned delivery programme for offsite disposal and imported filling material such that adverse noise impact from transporting of C&D material is not anticipated 					
		 Site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be adopted as far as practicable, such as cleaning and maintenance of drainage systems regularly 					
		 Provision of cover for the stockpile material, sand bag or earth bund as barrier to prevent material from washing away and entering the drains 					
.6.1.2	-	Waste Reduction Measures		Contractor	Construction works sites (General)	Construction Phase	EIA recommendation and Waste Disposal Ordinance
		Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:					
		 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal 					
		 Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force 					
		 Proper storage and site practices to minimise the potential for damage or contamination of construction materials 					
		Plan and stock construction materials carefully to minimise amount					



EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?
		of worth concreted and avoid uppercents concretion of worth	to address	measure :			acineve
		 of waste generated and avoid unnecessary generation of waste In addition to the above measures, specific mitigation measures are recommended below for the identified waste arising to minimise environmental impacts during handling, transportation and disposal of these wastes. 					
7.6.1.3	6	C&D Materials In order to minimise impacts resulting from collection and transportation of C&D material for off-site disposal, the excavated materials should be reused on-site as backfilling material as far as practicable. The surplus rock and other inert C&D material would be disposed of at the Government's Public Fill Reception Facilities (PFRFs) at Tuen Mun Area 38 for beneficial use by other projects in the HKSAR as the last resort. C&D waste generated from general site clearance and tree felling works would require disposal to the designated landfill site. Other mitigation requirements are listed below: A Waste Management Plan should be prepared and implemented	To minimize impacts resulting from C&D material	Contractor	Construction Works Sites (General)	Construction Phase	EIA recommendation; Waste Disposal Ordinance; and ETWB TCW No. 31/2004
		 in accordance with ETWB TC(W) No. 19/2005 Environmental Management on Construction Site; and In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills, and to control fly-tipping, a trip-ticket system (e.g. ETWB TCW No. 31/2004) should be included. 					
7.6.1.4	6	General refuse General refuse should be stored in enclosed bins or compaction units separated from other C&D material. A reputable waste collector is to be employed by the Contractor to remove general refuse from the site separately. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' litter.	To minimize impacts resulting from collection and transportation of general refuse for off-site disposal	Contractor	Construction works sites (General)	Construction phase	Waste Disposal Ordinance and Public Health and Municipal Services Ordinance - Public Cleansing and Prevention of Nuisances Regulation
7.6.1.5	6	Chemical waste If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the <i>Code of Practice on the</i> <i>Packaging, Labelling and Storage of Chemical Wastes</i> . Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical	To minimize impacts resulting from collection and transportation of chemical waste for off-site disposal	Contractor	Construction works sites (General)	Construction phase	Waste Disposal (Chemical Waste) (General) Regulation and Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes