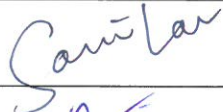



Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange****Quarterly EM&A Report
for November 2016 to January 2017**

[2/2017]

	Name	Signature
Prepared & Checked:	Sammi Lam	
Reviewed & Approved:	Y W Fung	

Version:	Rev. 0	Date: 17 Feb 2017
Disclaimer <p>This report is prepared for Environmental Protection Department and is given for its sole benefit in relation to and pursuant to Contract No. HY/2012/06 and may not be disclosed to, quoted to or relied upon by any person other than Environmental Protection Department without our prior written consent. No person (other than Environmental Protection Department) into whose possession a copy of this report comes may rely on this report without our express written consent and Environmental Protection Department may not rely on it for any purpose other than as described above.</p>		

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100 How Ming Street,
Kwun Tong, Hong Kong
Attn: Mr. James Penny

Your Reference

EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)

Our Reference

JFP/EC/ST/p/T329380/22
.05/L-0157

**Environmental Permit No. EP-324/2008/D
Quarterly EM&A Summary Report for November 2016 to January 2017 for the portion of Stage 2 works under Contract No. HY/2012/06**

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We refer to the revised Quarterly EM&A Summary Report for November 2016 to January 2017 for the captioned Project received on 15 February 2017 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c.
HyD
AECOM

Mr. Chung Lok Chin
Mr. Y W Fung

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EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under two works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. This report focuses on Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project only.

Pursuant to the EP (EP-324/2008/D) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 November 2016 and 31 January 2017. As informed by the Contractor, construction activities in the reporting period were as follows:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- Footbridge demolition
- Bridge construction
- Piling

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

One (1) air-related complaint was received on 13 January 2017 and followed up by the Environmental Team in the reporting month. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for January 2017.

No complaint, notification of summons or successful prosecution was received in the reporting period.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

1.1.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		C C Chow	9679 6315	2672 2501
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 Details of the construction works carried out by the Contractor in this reporting period are listed below:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- Footbridge demolition
- Bridge construction
- Piling

- 1.3.2 The general layout plan of the Project site showing the contract areas is shown in Figure 1.1.
- 1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.2a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.2a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

- 2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

3 AIR QUALITY MONITORING

- 3.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days.
- 3.1.2 The weather was mostly sunny, occasionally cloudy and rainy in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	72.5	66.6 – 78.2	317.8	500

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	52.2	16.4 – 88.4	200.7	260

3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.

3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.

3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.

4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A)) L_{eq} (30 mins)	Range (dB(A)) L_{eq} (30 mins)	Limit Level (dB(A)) L_{eq} (30 mins)
M2* (West Tai Wo)	68.9	63.6 – 70.2	75
M3# (Fanling Government Secondary School)	65.1	60.6 – 69.2	65/70

*+3dB(A) Façade correction included

Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.

4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

5.1.1 As advised by the Contractor, 5,790 m³ of inert C&D material was generated in the reporting period (868m³ was broken concrete, 1,830m³ was reused in the Contract, 1,794m³ was reused in other Projects and 1,298m³ was disposed as public fill to Tuen Mun 38). 1,190 kg of general refuse was disposed of at NENT landfill. 23,327 kg of metals, 203 kg of paper and 3,760 kg of plastics were collected by recycling Contractors, and 0 kg of chemical wastes were collected by licensed Contractors in the reporting period.

5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	1,298 m ³	Tuen Mun 38
Broken concrete	868 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	1,190 m ³	NENT Landfill
Paper/cardboard packaging	203 kg	Recycling Facilities
Plastics	3,760 kg	Recycling Facilities
Metals	23,327 kg	Recycling Facilities
C&D materials reused on site	1,830 m ³	Site Area
C&D materials reused in other projects	1,794 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

- 6.1.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 6.1.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 One (1) air-related complaint received on 13 January 2017 and followed up by the Environmental Team in the reporting month. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for January 2017.
- 7.1.2 No notification of summons or successful prosecution was received in the reporting period.
- 7.1.3 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.4 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fences and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Air Quality Impact

- The Contractor should provide wheel washing facilities at the vehicle exit point and clean up the mud trails for dust suppression.
- The contractor should remove or cover the dusty materials to avoid windblown dust emission.
- The Contractor should cover the stockpile entirely by impervious sheeting; or paved with hard surface and keep clear of dusty materials; to prevent windblown dust emission.
- The Contractor should provide sufficient measures to keep the public access road clear of dusty materials.
- The Contractor should spray the surface of breaking operation with water to prevent windblown dust emission.
- The Contractor should spray the open site areas with adequate water to prevent windblown dust emission.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor should remove the materials to ensure flow of water without obstruction.
- The Contractor should remove the sandy materials and implement measures to prevent surface runoff of site and silt from entering the drainage system.
- The Contractor should remove the muddy water and implement preventive measures to prevent sand from being flushed to public road.

Chemical and Waste Management

- The Contractor should set up designated areas for temporary storage of construction wastes to maintain the site clean and tidy, and re-use them where possible.
- The Contractor should remove the general refuse to keep the site clean and tidy.
- The Contractor should keep chemical containers in designated storage areas, provide drip trays to prevent potential leakage, and dispose of chemical containers that are no longer in use promptly.
- The Contractor should remove the construction materials and wastes and maintain the site clean and tidy.
- The Contractor should provide recycle bins for collection and sorting.

Landscape and Visual Impact

- The Contractor should remove the construction materials near trees for maximum protection.

Miscellaneous

- The Contractor should remove the stagnant water or apply larvicidal oil to prevent mosquito breeding.

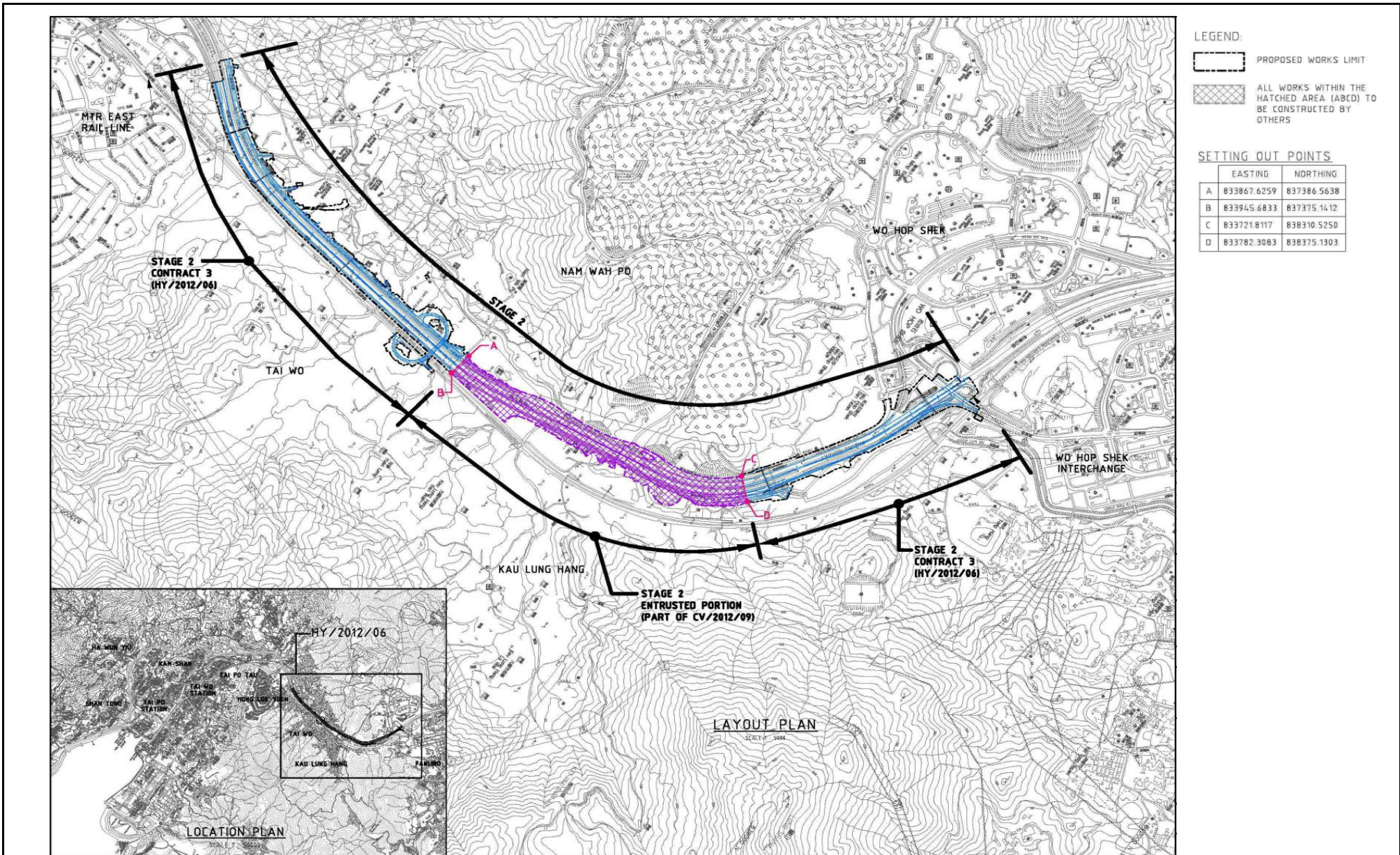
8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 8.3.3 One (1) air-related complaint received on 13 January 2017 and followed up by the Environmental Team in the reporting month. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for January 2017.
- 8.3.4 No notification of summons or successful prosecution was received in the reporting period.

FIGURES



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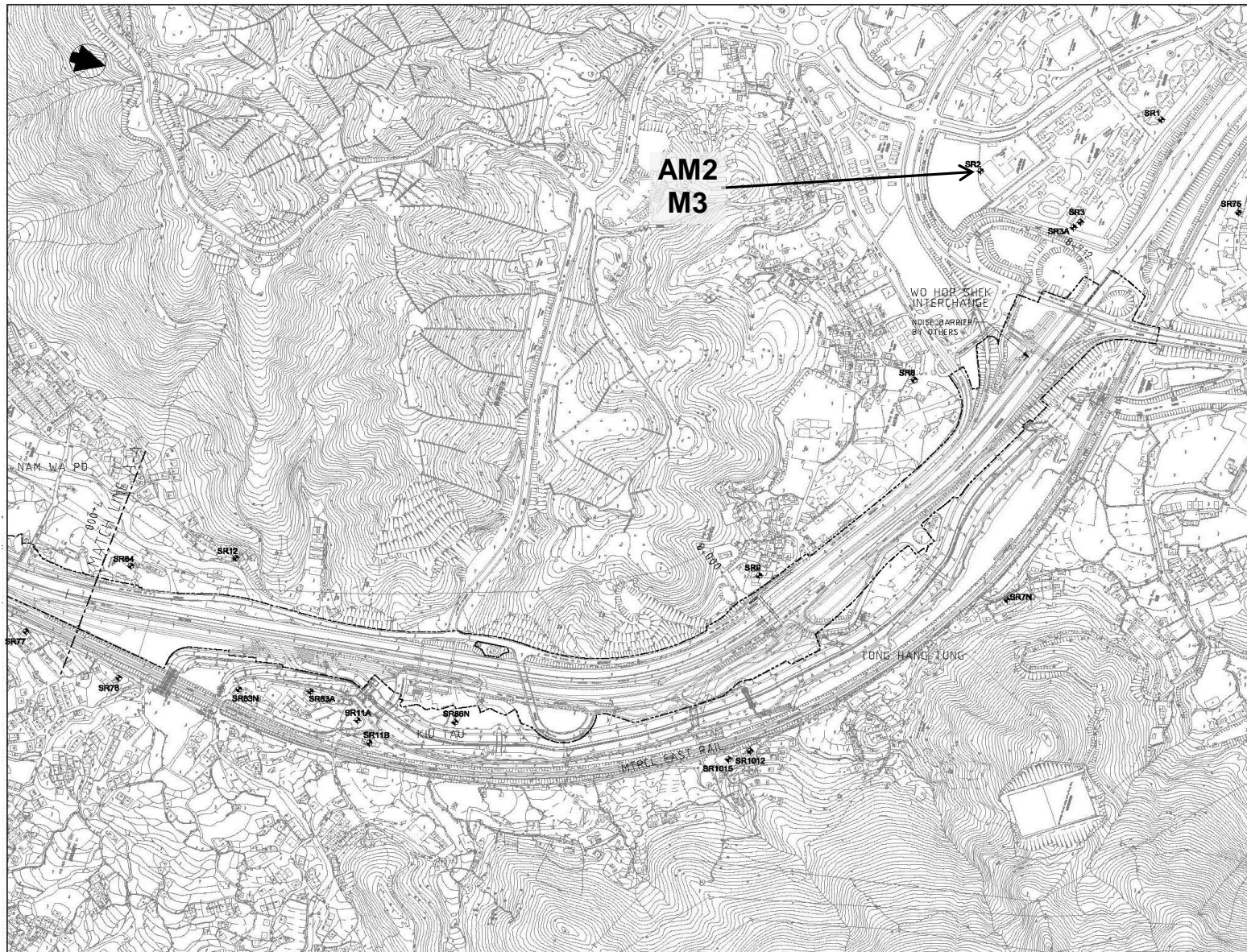
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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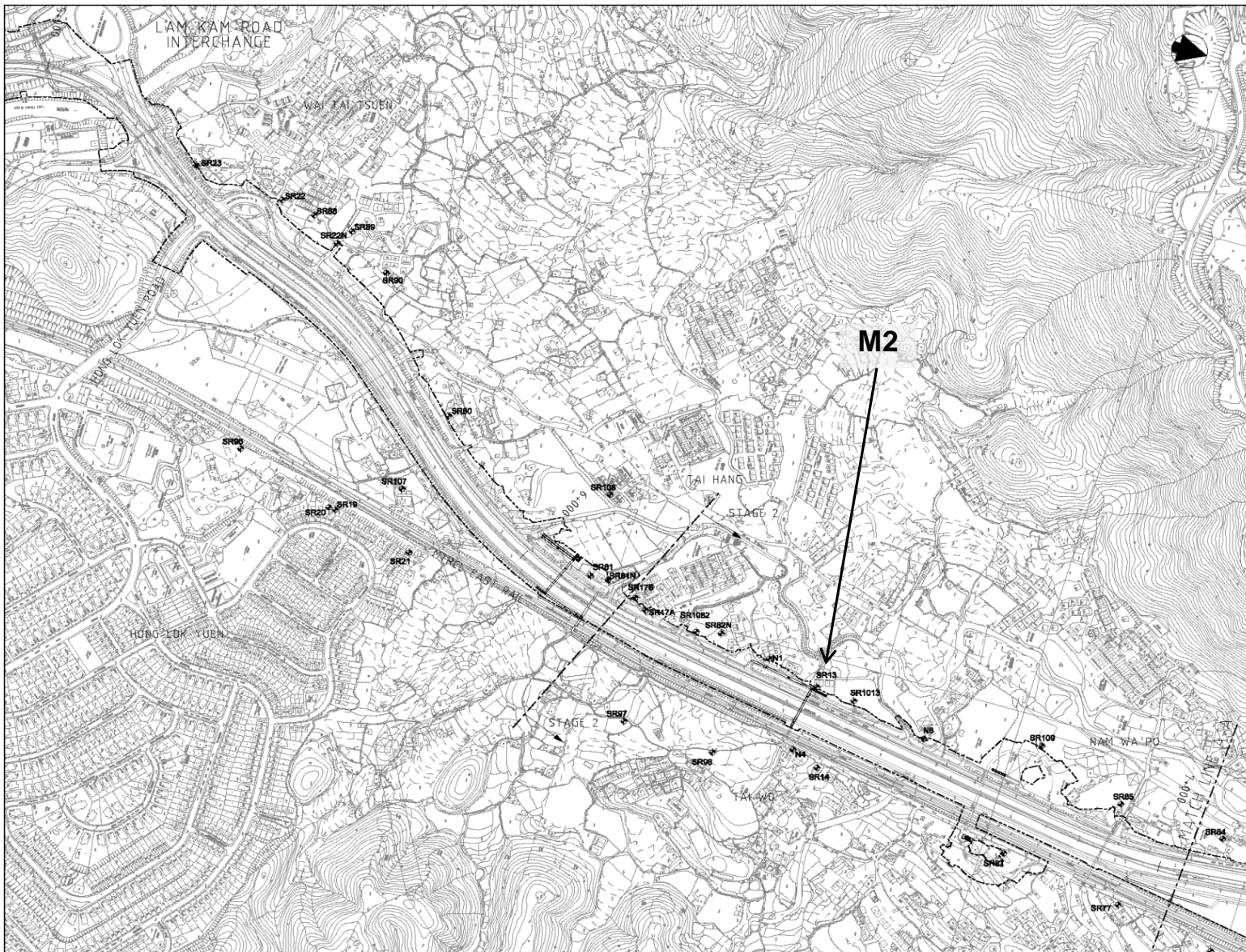
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.2a



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 - TAI HANG TO WO HOP SHEK INTERCHANGE

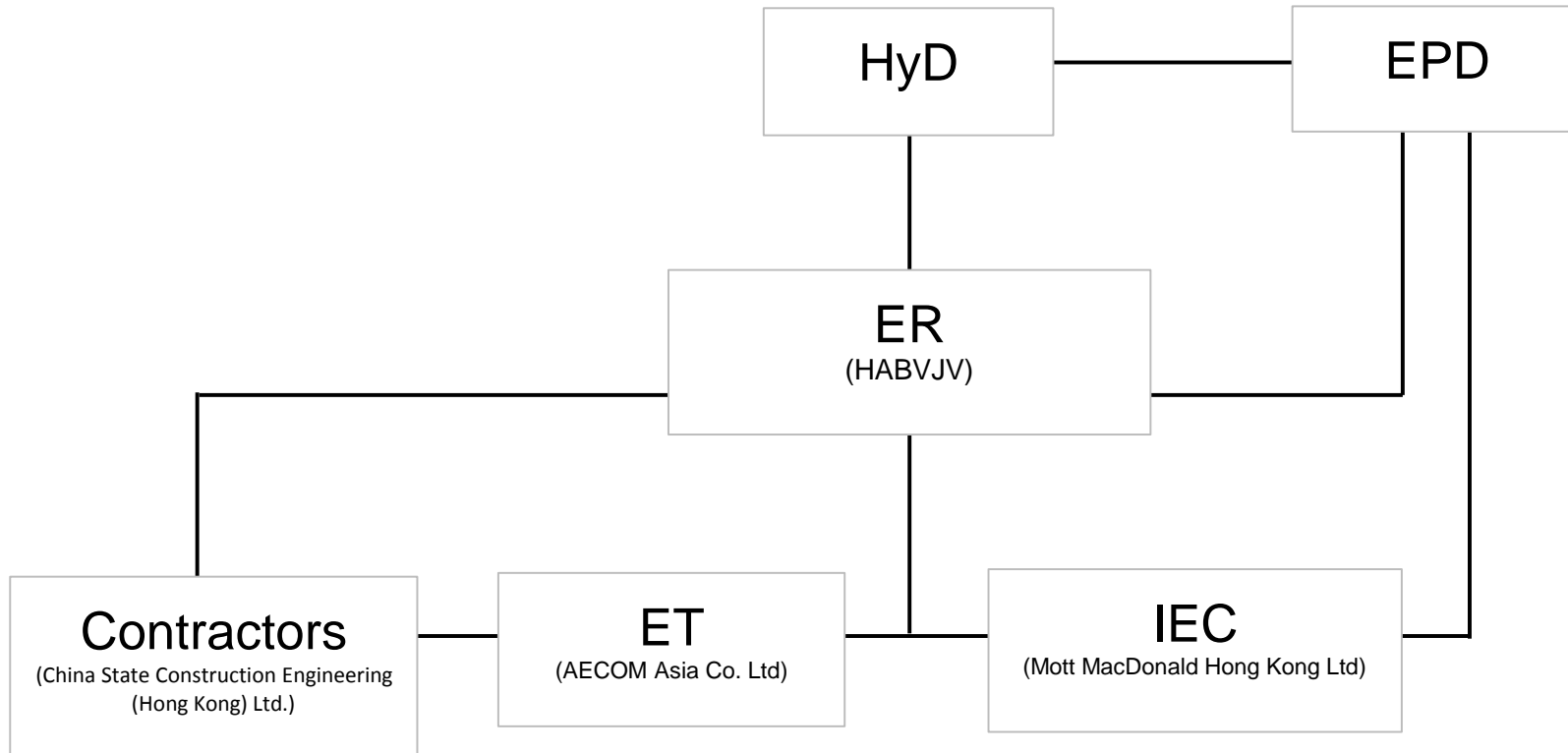


Locations of Monitoring Station

Date: Dec 2013

Figure 1.2b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

**CONSTRUCTION PROGRAMME OF
NOVEMBER 2016**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017	
								Nov	Dec	Jan	Feb	Jan	Feb
Contract Condition													
General													
Contract Condition													
Contract Condition													
KD20	KD-20 (1064d)- Stage 1: Achievement: Whole length of	0%	0	0		30-Dec-16	4						30-Dec-16* ◆ KD-20 (1064d)- Stage 1: Achievement: Whol
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Nov-16		1327						◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Nov-16*		-689						◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Nov-16*		-491						◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Nov-16*		-356						◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)													
Noise Barrier Along TWSR-West and Laying New Utilities													
DSD Southern Trunk Sewer, Water Main, Fire Main Works													
DSD Southern Trunk Sewer, Water Main Fire Main Works													
DSD0090	DSD Truck Sewer Laying complete	0%	0	0	01-Dec-16		2						◆ DSD Truck Sewer Laying complete
DSD0100	DSD Trunk Sewer Laying - overall testing (Zone 1 & Zone 2)	25%	9	12	20-Oct-16 A	01-Dec-16	2						
DSD0110	DSD Trunk Sewer Laying - overall inspection	0%	12	12	01-Dec-16	14-Dec-16	2						
DSD0120	DSD Trunk Sewer Laying - overall rectification	0%	12	12	15-Dec-16	30-Dec-16	2						
NB42 (Ch.5640-5740)-TWSR West Side													
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10140	Firemain installation (along NB42)	66.22%	25	74	20-Aug-16 A	19-Dec-16	33						
NB42A (Ch.5750-5810)-TWSR West Side													
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10190	Firemain installation (along NB42A)	67.12%	24	73	20-Aug-16 A	17-Dec-16	34						
Noise Barrier Along Fanling Highway N/B													
Site Clearance & Demolition of Existing Structure													
Underground Utility Works													
ADVZ20175	All UU and backfill along TWSR-W complete	0%	0	0		01-Dec-16	0						01-Dec-16 ◆ All UU and backfill along TWSR-W complete
ADVZ20180	Utility cable changeover period (NWT)	0%	184	184	02-Dec-16	03-Jun-17	227						
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	0%	273	273	02-Dec-16	31-Aug-17	138						
TWSR-West Construction													
Drainage & Road Works													
Ch 5640-5880													
RDZ10090	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	39.41%	103	170	15-Aug-16 A	31-Mar-17	0						
ZONE 2 (Ch. 5880 to 6930)													
General													
DRM Proposal													
DRM Proposal													
ADVZ20190	Utility cable duct laying & backfill complete	0%	0	0		20-Nov-16	-19						20-Nov-16* ◆ Utility cable duct laying & backfill complete
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	0%	273	273	20-Nov-16	19-Aug-17	150						
ADVZ20220	New TWSR-W construction period	44.02%	103	184	15-Aug-16 A	31-Mar-17	0						
Noise Barrier Along TWSR-West and Laying New Utilities													
NB48 (Ch.5995-6120)-TWSR West Side													
Noise Barrier Works													
NB00390	NB48 (Ch5995-6060) - backfilling	66.67%	6	18	05-Oct-16 A	26-Nov-16	54						
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10440	Firemain installation (along NB48, 0-60m)	82.05%	28	156	20-Jun-16 A	22-Dec-16	15						
TSZ10490	Firemain installation (along NB48, 60-110m)	82.05%	28	156	20-Jun-16 A	22-Dec-16	15						
NB49 (Ch.6145-6215)-TWSR West Side													
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10530	Watermain installation (along NB49)	93.43%	9	137	01-Jun-16 A	30-Nov-16	34						
TSZ10540	Firemain installation (along NB49)	35.29%	33	51	15-Sep-16 A	30-Dec-16	10						
Underground Utility Works													
UUZ20140	Utility cable laying by Utility companies (Along NB49, 0-70m)	95.79%	9	214	03-Feb-16 A	30-Nov-16	-26						
NB49B (Ch.6215-6235)-TWSR West Side													
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10590	Firemain installation (along NB49B)	0%	33	33	21-Nov-16	30-Dec-16	67						
Underground Utility Works													
UUZ20150	Utility cable laying by Utility companies (Along NB49B, 0-16m)	92.44%	9	119	10-Jun-16 A	30-Nov-16	-26						
NB54 (Ch.6240-6280)-TWSR West Side													
Noise Barrier Works													
NB00720	NB54 - NB post & panel installation	0%	5	5	21-Nov-16	25-Nov-16	714						
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10630	Watermain installation (along NB54)	91.97%	11	137	20-May-16 A	02-Dec-16	59						
TSZ10640	Firemain installation (along NB54)	0%	30	30	03-Dec-16	10-Jan-17	59						
NB54A (Ch.6290-6350)-TWSR West Side													
Noise Barrier Works													
NB00770	NB54A - backfilling	0%	12	12	02-Dec-16	15-Dec-16	63						
NB00780	NB54A - NB production	77.27%	45	198	20-May-16 A	03-Jan-17	842						
NB00790	NB54A - NB post & panel installation	0%	5	5	04-Jan-17	09-Jan-17	679						
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10680	Watermain installation (along NB54A)	90.71%	21	226	14-Mar-16 A	14-Dec-16	27						

	Project ID: WP Rev 04 (1611)	Contract No. HY/2012/06			Date	Revision	C...	A..
	Layout: 3 Month Rolling Program	Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange			13-May-14	WP Rev 1		
	Page 1 of 6	3 Month Rolling Program(20-Nov-16)			30-Jun-14	WP Rev 1A		
					28-Aug-15	WP Rev 2		
				07-Apr-16	WP Rev 3			
				08-Nov-16	WP Rev 4			

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017		
								Nov		Dec		Jan		Feb
TSZ10690	Firemain installation (along NB54A)	0%	25	25	15-Dec-16	16-Jan-17	27							
Underground Utility Works														
UUZ20170	Utility cable laying by Utility companies (Along NB54A, 0-60m)	89.9%	10	99	05-Jul-16 A	01-Dec-16	-27							
NB57 (Ch.6365-6445)-TWSR West Side														
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10730	Watermain installation (along NB57)	0%	27	27	21-Nov-16	21-Dec-16	4							
TSZ10740	Firemain installation (along NB57)	0%	30	30	22-Dec-16	06-Feb-17	4							
TSZ10990	Backfilling for UU and Firemain & Watermain	0%	12	12	07-Feb-17	20-Feb-17	4							
NB58 (Ch.6445-6480)-TWSR West Side														
Noise Barrier Works														
NB00930	NB58 - NB post & panel installation	2.08%	47	48	20-Sep-16 A	17-Jan-17	672							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10790	Firemain installation (along NB58)	82.35%	9	51	29-Aug-16 A	30-Nov-16	1063							
Underground Utility Works														
UUZ20190	Utility cable laying by Utility companies (Along NB58, 0-45m)	93.57%	9	140	16-May-16 A	30-Nov-16	-26							
NB59 (Ch.6490-6590)-TWSR West Side														
Noise Barrier Works														
NB01000	NB59 - NB post installation	25%	12	16	15-Oct-16 A	03-Dec-16	707							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10840	Firemain installation (along NB59)	78.75%	34	160	20-May-16 A	31-Dec-16	24							
NB63 (Ch.6610-6700)-TWSR West Side														
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10340	Firemain installation (along NB63)	97.71%	3	131	20-Jun-16 A	23-Nov-16	82							
Noise Barrier Along Fanling Highway N/B														
Site Clearance & Demolition of Existing Structure														
General														
ADVZ20160	TTA for NB works	0%	60	60	13-Jan-17	31-Mar-17	235							
Bridge Construction														
New Tai Hang Footbridge														
General														
THBF0350	Steel Staircase & Ramp prefabrication (THFB-TWSR-W)	90.11%	9	91	20-Jul-16 A	30-Nov-16	379							
THBF0360	Steel Staircase & Ramp available on site (THFB-TWSR-W side)	0%	0	0	01-Dec-16		379						◆ Steel Staircase & Ramp available on site (THFB-TWSR-W side)	
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	90%	9	90	20-Jul-16 A	30-Nov-16	409							
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	01-Dec-16		409						◆ Steel Staircase & Bridge available on site (THFB-TWSR-E side)	
THBF0390	Steel Bridge prefabrication (THFB)	75.25%	25	101	20-Jul-16 A	19-Dec-16	393							
THBF0400	Steel Bridge available on site (THFB)	0%	0	0	20-Dec-16		393						◆ Steel Bridge available on site (THFB)	
TWSR-West/ FL Highway N/B Side Section														
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		21-Nov-16	478						21-Nov-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W side)	
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	83.21%	47	280	01-Feb-16 A	17-Jan-17	341							
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		17-Jan-17	341						17-Jan-17 ◆ Steel Ramp ready for erection	
THBF0410	Erect Staircase (THFB-TWSR-W side)	0%	30	30	01-Dec-16	07-Jan-17	469							
THBF0420	Erect Ramp	0%	60	60	18-Jan-17	06-Apr-17	341							
Crossing Fanling Highway Section														
THBF0530	THP1 - Predrilling	0%	12	12	31-Dec-16	14-Jan-17	216							
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	45	45	16-Jan-17	16-Mar-17	216							
TWSR-East FL Highway S/B Side Section														
THBF0470	THAB1 - pile cap & abutment wall	0%	85	85	21-Nov-16	10-Mar-17	268							
THBF0730	THP3 - Pile cap, Pier and Pier Head	0%	45	45	06-Feb-17	29-Mar-17	317							
THBF0770	THP4 - Pile cap, Pier and Pier Head	50%	56	112	20-Jul-16 A	27-Jan-17	302							
THBF0780	Modified existing column head of existing footbridge	0%	30	30	06-Feb-17	11-Mar-17	302							
Lift at TWSR-W Side														
L1520	Lift shaft & roof	33.91%	76	115	16-Jul-16 A	28-Feb-17	312							
L1557	Lift submission & ordering period	49.17%	122	240	02-Jul-16 A	27-Apr-17	340							
L1600	CLP Power available (by CLP)	38.58%	242	394	21-Jun-16 A	19-Jul-17	419							
Lift at FLHY S/B														
L1370	Lift shaft & roof	46.36%	59	110	20-Sep-16 A	08-Feb-17	346							
L1380	Structural Laminated glass wall installation	0%	30	30	09-Feb-17	15-Mar-17	376							
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	09-Feb-17	15-Mar-17	346							
L1450	CLP Power available (by CLP)	38.58%	242	394	21-Jun-16 A	19-Jul-17	422							
New Tai Wo Footbridge														
General														
TWFB1050	Steel Staircase & Ramp prefabrication (TWFB-TWSR-W)	87.78%	11	90	15-Aug-16 A	02-Dec-16	80							
TWFB1060	Steel Staircase & Ramp available on site (TWFB-TWSR-W side)	0%	0	0	03-Dec-16		80						◆ Steel Staircase & Ramp available on site (TWFB-TWSR-W side)	
TWFB1090	Steel Bridge prefabrication (TWFB)	87.78%	11	90	15-Aug-16 A	02-Dec-16	558							
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	03-Dec-16		558						◆ Steel Bridge available on site (TWFB)	
TWSR-West/ FL Highway N/B Side Section														
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	95.24%	11	231	18-Feb-16 A	02-Dec-16	80							
TWFB1240	TWAB2 - pile cap & abutment wall	89.81%	11	108	20-Jul-16 A	02-Dec-16	1061							
TWFB1250	TWAB2 - Backfilling (~4m)	59.26%	11	27	12-Nov-16 A	02-Dec-16	80							
TWFB1260	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		02-Dec-16	80						02-Dec-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W side)	
TWFB1300	TWP4, TWP5 - Pile cap, Pier and Pier Head	98.97%	3	292	16-Nov-15 A	23-Nov-16	88							
TWFB1360	Steel Ramp ready for erection (TWFB-TWSR-W side)	0%	0	0		23-Nov-16	88						23-Nov-16 ◆ Steel Ramp ready for erection (TWFB-TWSR-W side)	
TWFB1370	Erect Staircase (TWFB-TWSR-W side)	0%	30	30	03-Dec-16	10-Jan-17	80							

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017				
								Nov		Dec		Jan		Feb		
TWFB1380	Erect Ramp	0%	30	30	03-Dec-16	10-Jan-17	80									
TWFB1390	Finishes Work	0%	30	30	11-Jan-17	22-Feb-17	634									
Crossing Fanling Highway Section																
TWFB1410	TWP2 - Predrilling	0%	18	18	20-Dec-16	12-Jan-17	80									
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	0%	30	30	13-Jan-17	24-Feb-17	80									
Lift at TWSR-W Side																
L1670	Lift shaft & roof	78.75%	34	160	21-Jun-16 A	31-Dec-16	491									
L1680	Structural Laminated glass wall installation	0%	30	30	03-Jan-17	14-Feb-17	534									
L1690	RC Link slab connect to bridge	0%	30	30	03-Jan-17	14-Feb-17	491									
L1700	Metal cover on RC platform	0%	30	30	15-Feb-17	21-Mar-17	491									
L1730	Lift submission & ordering period	40.14%	176	294	02-Jul-16 A	04-Jul-17	422									
L1780	CLP Power available (by CLP)	23.29%	303	395	20-Aug-16 A	18-Sep-17	526									
Temporary Tai Wo Footbridge																
Design Works																
TWFB-T1020	Engineer Comment	81.03%	22	116	28-Jun-16 A	15-Dec-16	90									
TWFB-T1030	Design amendment	0%	73	73	16-Dec-16	22-Mar-17	90									
Construction Works																
TWFB-T1065	TW Bridge Ramp at TWSR-W available	0%	0	0		10-Jan-17	244									
TWSR-West Construction																
Drainage & Road Works																
Ch 5880-6740																
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	14.17%	103	120	01-Nov-16 A	31-Mar-17	0									
Noise Barrier Along Fanling Highway S/B																
NB46A (Ch.5880-5935)-FH S/B Side																
Noise Barrier Works																
NB03230	Sheet piling for DN600 watermain diversion work (VO70)	0%	14	14	21-Nov-16*	06-Dec-16	480									
NB03240	Excavation & DN600 pipe laying	0%	75	75	07-Dec-16	15-Mar-17	480									
NB51 (Ch.5935-6055)-FH S/B Side																
Noise Barrier Works																
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	26.67%	66	90	20-Oct-16 A	16-Feb-17	309									
NB02290	NB51 ID1-3 (0-25m) - backfilling	0%	50	50	17-Feb-17	20-Apr-17	309									
NB02300	NB51 ID1-3 (0-25m) - NB production	0%	45	45	17-Feb-17	02-Apr-17	753									
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)																
Noise Barrier Works																
NB02370	NB52 - Sheet piling & Excavation	0%	26	26	20-Oct-16 A	20-Dec-16	588									
NB02380	NB52 - Footing & Wall Structure	0%	50	50	21-Dec-16	28-Feb-17	588									
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)																
Noise Barrier Works																
NB02430	Precautionary Measure installation	0%	26	26	21-Nov-16	20-Dec-16	520									
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	21-Dec-16	23-Jan-17	567									
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	24-Jan-17	12-Apr-17	567									
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	06-Jan-17	17-Jan-17	509									
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	18-Jan-17	25-Feb-17	509									
NB02590	NB53 (125-180m) - NB production	91.62%	14	167	20-May-16 A	03-Dec-16	873									
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	05-Dec-16	09-Dec-16	702									
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)																
Noise Barrier Works																
NB02640	NB55 - Footing & Wall Structure	95.95%	24	593	07-Nov-14 A	17-Dec-16	509									
NB02650	NB55- backfilling	0%	50	50	19-Dec-16	25-Feb-17	509									
NB02660	NB55 - NB production	87.46%	40	319	15-Jan-16 A	29-Dec-16	847									
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)																
Noise Barrier Works																
NB02730	NB56 - NB production	94.55%	14	257	20-Feb-16 A	03-Dec-16	873									
NB02740	NB56 - NB post & panel installation	0%	5	5	05-Dec-16	09-Dec-16	702									
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)																
Noise Barrier Works																
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	21-Nov-16	10-Dec-16	601									
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	12-Dec-16	18-Feb-17	601									
NB02800	NB61 (0-50m) - NB production	0%	45	45	18-Feb-17	04-Apr-17	751									
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Nov-16	03-Jan-17	842									
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Jan-17	09-Jan-17	679									
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)																
Noise Barrier Works																
NB02920	NB61A (0-50m) - NB production	84.38%	45	288	20-Feb-16 A	03-Jan-17	842									
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Jan-17	09-Jan-17	679									
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	88.87%	57	512	01-Apr-15 A	06-Feb-17	622									
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	07-Feb-17	01-Mar-17	637									
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	07-Feb-17	23-Mar-17	763									
NB03040	NB61A (75-190m) - NB production	94.19%	15	258	20-Feb-16 A	04-Dec-16	872									
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Dec-16	09-Dec-16	702									
Box Culvert ID3 Works																
VO58 Extension of ID3																
ID30095	Preparation work	0%	30	30	20-Oct-16 A	24-Dec-16	342									
ID30100	Demolish existing wing walls (N&S)	0%	30	30	28-Dec-16	09-Feb-17	195									

10-Jan-17 ♦ TW Bridge Ramp at TWSR-W avail

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017		
								Nov		Dec		Jan		Feb
ID30110	Rock fill to the box culvert level	0%	20	20	10-Feb-17	04-Mar-17	195							
Other Works														
Site Clearance & Demolition of Existing Structure														
Contract Condition														
MCLT1090	New MCLT - finishes works	52.28%	115	241	20-May-16 A	19-Apr-17	604							
TCSS Works														
G54														
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		21-Nov-16	689							
21-Nov-16 ♦ Slow lane footing - G54 (NB61)														
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)														
Noise Barrier Along TWSR-West and Laying New Utilities														
NB63A (Ch.6710-6840)-TWSR West Side														
Noise Barrier Works														
NB01200	NB63A-3 - NB post installation	3.23%	30	31	17-Sep-16 A	24-Dec-16	689							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10860	DSD Trunk Sewer laying (along NB63A)	98.48%	3	198	14-Mar-16 A	23-Nov-16	8							
TSZ10880	Watermain installation (along NB63A)	23.33%	23	30	02-Nov-16 A	16-Dec-16	20							
TSZ10890	Firemain installation (along NB63A)	0%	30	30	17-Dec-16	24-Jan-17	20							
NB64 & NB64A (Ch.6860-6920)-TWSR West Side														
Noise Barrier Works														
NB001040	NB64 & NB64A -backfilling	0%	12	12	16-Jan-17	06-Feb-17	43							
NB001060	NB64 & NB64A -NB post & panel installation	85.17%	31	209	14-Mar-16 A	28-Dec-16	688							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10910	DSD Trunk Sewer laying (along NB64)	94.38%	9	160	20-Apr-16 A	30-Nov-16	2							
TSZ10920	Backfill up to NB64 footing level	0%	6	6	01-Dec-16	07-Dec-16	43							
TSZ10940	Firemain installation (along NB64)	0%	30	30	08-Dec-16	14-Jan-17	43							
TSZ11028	Demolish existing pile caps at Watermain	0%	30	30	02-Dec-16	09-Jan-17	99							
TSZ11030	Demolish existing pile cap at Watermain after NWP bridge	0%	30	30	27-Jan-17	10-Mar-17	54							
Underground Utility Works														
UUZ20220	Utility cable laying by Utility companies (Along NB64 & NB64A,	95%	10	200	29-Feb-16 A	01-Dec-16	-27							
Bridge Construction														
Kau Lung Hang Vehicular Bridge														
KLH Bridge - West Ramp														
KLH.1290	West Ramp - Planting	0%	21	21	21-Nov-16	14-Dec-16	698							
KLH Bridge - Deck 1														
KLH.3430	Deck 1 - Planting	0%	21	21	21-Nov-16	14-Dec-16	698							
KLH.3630	Pedestrian walkway Roof P2 to P3	0%	38	38	21-Nov-16*	06-Jan-17	6							
KLH.3640	Pedestrian walkway floor finishes P2 to P3	0%	14	14	07-Jan-17	23-Jan-17	6							
KLH Bridge - Deck 2														
KLH.3160	Pedestrian walkway Roof P5-P6	0%	38	38	21-Nov-16*	06-Jan-17	10							
KLH.3170	Pedestrian walkway floor finishes P5-P6 (include barrier and lighting)	0%	14	14	03-Jan-17	18-Jan-17	10							
KLH.3260	Pedestrian walkway Roof P4 to P5	0%	37	37	21-Nov-16*	05-Jan-17	7							
KLH.3270	Pedestrian walkway floor finishes P4 to P5 (include barrier and	0%	14	14	06-Jan-17	21-Jan-17	7							
KLH.3360	Pedestrian walkway Roof P3 to P4	0%	38	38	21-Nov-16*	06-Jan-17	6							
KLH.3370	Pedestrian walkway floor finishes P3 to P4 (include barrier and	0%	14	14	07-Jan-17	23-Jan-17	6							
KLH Bridge - Deck 3														
KLH.3500	Deck 3 - Planting	0%	21	21	21-Nov-16	14-Dec-16	730							
KLH.3650	Pedestrian walkway Roof P6 to P7	0%	25	25	01-Dec-16*	31-Dec-16	10							
KLH.3660	Pedestrian walkway floor finishes P6 to P7 (include barrier and	0%	14	14	03-Jan-17	18-Jan-17	10							
KLH Bridge - East Ramp														
KLH.3590	East Ramp - Planting	0%	34	34	21-Nov-16	31-Dec-16	1038							
KLH Bridge - Ramp R1														
Z2.KLH.1667	Additional Disruption to R1P1 period by UU duct laying	0%	9	5	01-Nov-16 A	30-Nov-16	-21							
Z2.KLH.1680	Ramp R1 - Ramp construction (Abutment R1 to R1P1)	50%	49	98	20-Aug-16 A	07-Feb-17	-21							
Z2.KLH.1685	Ramp R1 - Ramp construction (R1P1 to P1P3)	0%	30	30	19-Nov-16 A	07-Feb-17	-21							
Z2.KLH.3610	Ramp R1 - Steel roof	0%	30	30	10-Jan-17	21-Feb-17	-21							
Z2.KLH.3620	Ramp R1 - finishes work (include barrier and lighting)	0%	30	30	19-Jan-17	02-Mar-17	-21							
KLH Bridge - Ramp R2														
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	21-Nov-16*	17-Dec-16	669							
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	19-Dec-16	20-Jan-17	669							
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	97.01%	9	301	20-Nov-15 A	30-Nov-16	1063							
Z2.KLH.1540	Ramp R2 - Ramp construction	0%	45	45	17-Nov-16 A	14-Jan-17	-2							
Z2.KLH.1545	Ramp R2 - Ramp construction (section after VBP6-7 deck)	0%	35	35	02-Dec-16	14-Jan-17	4							
Z2.KLH.1550	Ramp R2 - Steel roof	0%	40	40	10-Dec-16	06-Feb-17	4							
Z2.KLH.1920	Ramp R2 - finishes work (include barrier and lighting)	0%	30	30	24-Dec-16	08-Feb-17	-2							
Bridge Road Work														
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	21-Nov-16	25-Apr-17	599							
Lift at TWSR-W Side														
L01094	Lift submission & ordering period	31.63%	201	294	01-Aug-16 A	02-Aug-17	429							
L01140	CLP Power available (by CLP)	55.83%	182	412	04-Apr-16 A	20-May-17	685							
Lift at FLHY S/B														
L01180	Earliest date for lift construction resume	0%	0	0	10-Dec-16		417							
L01190	Set up & Pile test	0%	30	30	10-Dec-16	17-Jan-17	417							
L01200	Temp work & Pier cap	0%	45	45	18-Jan-17	18-Mar-17	417							

♦ Earliest date for lift construction resume

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017			
								Nov		Dec		Jan		Feb	
L01300	CLP Power available (by CLP)	51.69%	214	443	04-Apr-16 A	21-Jun-17	659								
Demolition of Existing Nam Wa Po Footbridge															
Demolition Work															
Z2.NWP.1060	Temporary support installation at existing Fanling Highway	0%	65	65	07-Dec-16	03-Mar-17	-21								
TWSR-West Construction															
Drainage & Road Works															
General															
CW01	1st interface connection to CW at S/B	0%	0	0		31-Jan-17	0						31-Jan-17* ◆ 1st interface con		
Noise Barrier Along Fanling Highway S/B															
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)															
Noise Barrier Works															
NB03080	NB62 (0-80m) - Sheet piling & Excavation	0%	18	18	01-Nov-16 A	10-Dec-16	601								
NB03090	NB62 (0-80m) - Footing & Wall Structure	0%	60	60	12-Dec-16	02-Mar-17	601								
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	12-Dec-16	24-Dec-16	624								
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	28-Dec-16	26-Jan-17	624								
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	27-Jan-17	20-Feb-17	645								
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	27-Jan-17	12-Mar-17	774								
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	21-Nov-16	10-Dec-16	601								
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	12-Dec-16	02-Mar-17	601								
NB70 (Ch.6910-6930)-FH S/B Side															
Noise Barrier Works															
NB03280	NB70 - NB production	81.33%	14	75	20-Sep-16 A	03-Dec-16	873								
NB03290	NB70- NB post & panel installation	0%	5	5	05-Dec-16	09-Dec-16	702								
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)															
Bridge Construction															
New Ho Ka Yuen Footbridge															
TWSR-West/ FL Highway N/B Side Section															
HKY1250	HKYAB3 - pile cap & abutment wall	57.65%	36	85	20-Aug-16 A	04-Jan-17	673								
HKY1260	HKYAB3 - Backfilling (~4m)	0%	12	12	05-Jan-17	18-Jan-17	673								
HKY1270	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		18-Jan-17	673						18-Jan-17 ◆ Steel Staircase ready for er		
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	19-Jan-17	02-Mar-17	673								
HKY1440	Remaining Finishes works of HKYFB	0%	150	150	21-Nov-16	02-Jun-17	556								
TWSR-East FL Highway S/B Side Section															
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	16.67%	30	36	13-Oct-16 A	24-Dec-16	721								
Other Works															
Slope Works															
TWSR-East FL Highway S/B Side Section															
S1000	Slope S51-Fill ~3m	0%	40	40	21-Nov-16	09-Jan-17	615								
ZONE 4 (Ch. 7925 to 8700)															
Noise Barrier Along Fanling Highway N/B															
NB75 (Ch.7930-8090)-FH N/B Side															
Noise Barrier Works															
NB4040	NB75 -Pre-drilling (Ch7930-7990)	0%	24	24	28-Nov-16	24-Dec-16	61								
NB4050	NB75 - piling (NB75/01-05, 0.19m -24no)	0%	48	48	28-Dec-16	02-Mar-17	61								
NB4100	NB75 -Pre-drilling (Ch7990-8000)-(HKY-P1) & G34	0%	24	24	28-Dec-16	25-Jan-17	174								
NB4160	NB75 -Pre-drilling (Ch8000-8050)	0%	48	48	28-Dec-16	02-Mar-17	61								
NB77 (Ch.8090-8450)-FH N/B Side															
Noise Barrier Works															
NB4285	TTA for FH N/B (Stage 6) start	0%	0	0	28-Nov-16		0						◆ TTA for FH N/B (Stage 6) start		
NB4290	NB77 -Pre-drilling (Ch8090-8190)	0%	24	24	28-Nov-16	24-Dec-16	0								
NB4300	NB77 - piling (NB77/01-08, 0.19m -34no)	0%	68	68	14-Dec-16	14-Mar-17	0								
NB4350	NB77 -Pre-drilling (Ch8190-8290)	0%	72	72	28-Nov-16	02-Mar-17	20								
NB4360	NB77 - piling (NB77/09-17, 0.19m -36no)	0%	72	72	10-Feb-17	11-May-17	20								
NB4410	NB77 -Pre-drilling (Ch8290-8390)	0%	60	60	28-Dec-16	16-Mar-17	14								
Bridge Construction															
New Wo Hop Shek Pedstrian & Cycle Bridge															
General															
WHS1120	Diversion of existing pedestrian from existing to proposed footbridge	0%	1	1	28-Nov-16	28-Nov-16	7								
TWSR-West/ FL Highway N/B Side Section															
WHS1300	Existing WHS bridge structure removed	0%	0	0		16-Feb-17	287						16-Feb-17 ◆ E		
WHS1350	WHSAB2 - Predrilling (VO018)	0%	24	24	17-Feb-17	16-Mar-17	287								
WHS2020	Diverse pedestrian from existing ramp to new ramp	0%	0	0		26-Nov-16	7						26-Nov-16 ◆ Diverse pedestrian from existing ramp to new ramp		
Crossing Fanling Highway Section															
WHS1490	Finishes Work	88%	6	50	20-Sep-16 A	26-Nov-16	7								
WHS1500	Bridge Structure complete (WHSB-Cross fanling highway)	0%	0	0		26-Nov-16	7						26-Nov-16 ◆ Bridge Structure complete (WHSB-Cross fanling highway)		
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge															
TWSR-West/ FL Highway N/B Side Section															
WHS1870	Install Temp support to remove existing ramp	0%	25	25	28-Nov-16	28-Dec-16	287								
WHS1880	Remove existing ramp for 2nd half new ramp construction	0%	35	35	29-Dec-16	16-Feb-17	287								
WHS1890	Demolish existing WHS footbridge (TWSR-W side)	0%	30	30	29-Nov-16	05-Jan-17	548								
WHS2030	Remove temp filled platform	0%	30	30	06-Jan-17	17-Feb-17	548								
Crossing Fanling Highway Section															
WHS1790	Erect Temp platform for bridge demolition	7.5%	37	40	17-Oct-16 A	05-Jan-17	438								
WHS1800	Demolish existing WHS Footbridge	0%	60	60	06-Jan-17	24-Mar-17	438								
TWSR-East FL Highway S/B Side Section															

**CONSTRUCTION PROGRAMME OF
DECEMBER 2016**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016		2017		
								Dec	Jan	Feb	Mar	
Contract Condition												
General												
Contract Condition												
KD20	KD-20 (1064d)- Stage 1: Achievement: Whole length of	0%	0	0		31-Dec-16	3					31-Dec-16* ◆ KD-20 (1064d)- Stage 1: Achievement: Whole length of Southern Trunk
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Dec-16		1297					◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Dec-16*		-719					◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Dec-16*		-521					◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Dec-16*		-386					◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along TWSR-West and Laying New Utilities												
DSD Southern Trunk Sewer, Water Main, Fire Main Works												
DSD Southern Trunk Sewer, Water Main Fire Main Works												
DSD0110	DSD Trunk Sewer Laying - overall inspection	58.33%	5	12	05-Dec-16 A	24-Dec-16	5					
DSD0120	DSD Trunk Sewer Laying - overall rectification	25%	9	12	17-Dec-16 A	31-Dec-16	1					
NB42 (Ch.5640-5740)-TWSR West Side												
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10140	Firemain installation (along NB42)	66.22%	25	74	20-Aug-16 A	20-Jan-17	28					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
Underground Utility Works												
ADVZ20175	All UU and backfill along TWSR-W complete	0%	0	0		20-Dec-16	22					20-Dec-16 ◆ All UU and backfill along TWSR-W complete
ADVZ20180	Utility cable changeover period (NWT)	0%	184	184	20-Dec-16	21-Jun-17	209					
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	0%	273	273	20-Dec-16	18-Sep-17	120					
TWSR-West Construction												
Drainage & Road Works												
Ch 5640-5880												
RDZ10090	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	54.12%	78	170	15-Aug-16 A	31-Mar-17	0					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	17.95%	224	273	20-Oct-16 A	31-Jul-17*	0					
ADVZ20220	New TWSR-W construction period	57.61%	78	184	15-Aug-16 A	31-Mar-17	0					
Noise Barrier Along TWSR-West and Laying New Utilities												
NB48 (Ch.5995-6120)-TWSR West Side												
Noise Barrier Works												
NB00390	NB48 (Ch5995-6060) - backfilling	66.67%	6	18	05-Oct-16 A	28-Dec-16	60					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10440	Firemain installation (along NB48, 0-60m)	88.46%	18	156	20-Jun-16 A	12-Jan-17	0					
TSZ10490	Firemain installation (along NB48, 60-110m)	88.46%	18	156	20-Jun-16 A	12-Jan-17	0					
NB54 (Ch.6240-6280)-TWSR West Side												
Noise Barrier Works												
NB00720	NB54 - NB post & panel installation	0%	5	5	20-Dec-16	24-Dec-16	689					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10630	Watermain installation (along NB54)	85.4%	20	137	20-May-16 A	14-Jan-17	1027					
TSZ10640	Firemain installation (along NB54)	0%	30	30	19-Dec-16 A	26-Jan-17	76					
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00770	NB54A - backfilling	0%	12	12	20-Dec-16	05-Jan-17	79					
NB00790	NB54A - NB post & panel installation	0%	5	5	06-Jan-17	11-Jan-17	677					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10680	Watermain installation (along NB54A)	91.15%	20	226	14-Mar-16 A	14-Jan-17	1027					
TSZ10690	Firemain installation (along NB54A)	0%	31	25	19-Dec-16 A	27-Jan-17	17					
NB57 (Ch.6365-6445)-TWSR West Side												
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10730	Watermain installation (along NB57)	0%	37	27	12-Dec-16 A	11-Feb-17	1					
TSZ10740	Firemain installation (along NB57)	0%	30	30	17-Jan-17	28-Feb-17	1					
TSZ10990	Backfilling for UU and Firemain & Watermain	0%	12	12	01-Mar-17	14-Mar-17	1					
NB58 (Ch.6445-6480)-TWSR West Side												
Noise Barrier Works												
NB00930	NB58 - NB post & panel installation	54.17%	22	48	20-Sep-16 A	17-Jan-17	672					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10790	Firemain installation (along NB58)	82.35%	9	51	29-Aug-16 A	31-Dec-16	1038					
NB59 (Ch.6490-6590)-TWSR West Side												
Noise Barrier Works												
NB01000	NB59 - NB post installation	25%	12	16	15-Oct-16 A	05-Jan-17	682					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10840	Firemain installation (along NB59)	94.38%	9	160	20-May-16 A	31-Dec-16	24					
NB63 (Ch.6610-6700)-TWSR West Side												
DSD Southern Trunk Sewer, Water Main Fire Main Works												

	Project ID: WP Rev 04 (1612)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Dec-16)		Date	Revision	C...	A..
	Layout: 3 Month Rolling Program			13-May-14	WP Rev 1		
	Page 1 of 6			30-Jun-14	WP Rev 1A		
				28-Aug-15	WP Rev 2		
	07-Apr-16	WP Rev 3					
	08-Nov-16	WP Rev 4					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017			
								2016		2017		2017			
								Dec	Jan	Feb	Mar				
TSZ10340	Firemain installation (along NB63)	76.34%	31	131	20-Jun-16 A	27-Jan-17	60								
Noise Barrier Along Fanling Highway N/B															
Site Clearance & Demolition of Existing Structure															
General															
ADVZ20160	TTA for NB works	0%	60	60	13-Jan-17	31-Mar-17	235								
Bridge Construction															
New Tai Hang Footbridge															
General															
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	90%	9	90	20-Jul-16 A	31-Dec-16	384								
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	03-Jan-17		384								◆ Steel Staircase & Bridge available on site (THFB-TWSR-E side)
TWSR-West/ FL Highway N/B Side Section															
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		20-Dec-16	453								20-Dec-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W side)
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	92.14%	22	280	01-Feb-16 A	17-Jan-17	341								
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		17-Jan-17	341								17-Jan-17 ◆ Steel Ramp ready for erection (THFB-TWSR-W side)
THBF0410	Erect Staircase (THFB-TWSR-W side)	0%	30	30	20-Dec-16	26-Jan-17	453								
THBF0420	Erect Ramp	0%	60	60	18-Jan-17	06-Apr-17	341								
Crossing Fanling Highway Section															
THBF0530	THP1 - Predrilling	0%	12	12	31-Dec-16	14-Jan-17	216								
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	45	45	16-Jan-17	16-Mar-17	216								
THBF0550	THP1 - Pile Test	0%	28	28	17-Mar-17	13-Apr-17	265								
TWSR-East FL Highway S/B Side Section															
THBF0470	THAB1 - pile cap & abutment wall	29.41%	60	85	21-Nov-16 A	10-Mar-17	268								
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	11-Mar-17	03-Apr-17	268								
THBF0730	THP3 - Pile cap, Pier and Pier Head	0%	76	45	26-Nov-16 A	29-Mar-17	317								
THBF0770	THP4 - Pile cap, Pier and Pier Head	50%	56	112	20-Jul-16 A	06-Mar-17	277								
THBF0780	Modified existing column head of existing footbridge	0%	30	30	07-Mar-17	11-Apr-17	277								
Lift at TWSR-W Side															
L1520	Lift shaft & roof	33.91%	76	115	16-Jul-16 A	29-Mar-17	287								
L1557	Lift submission & ordering period	59.58%	97	240	02-Jul-16 A	27-Apr-17	340								
L1600	CLP Power available (by CLP)	46.19%	212	394	21-Jun-16 A	19-Jul-17	419								
Lift at FLHY S/B															
L1370	Lift shaft & roof	46.36%	59	110	20-Sep-16 A	09-Mar-17	321								
L1380	Structural Laminated glass wall installation	0%	30	30	10-Mar-17	18-Apr-17	351								
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	10-Mar-17	18-Apr-17	321								
L1450	CLP Power available (by CLP)	46.19%	212	394	21-Jun-16 A	19-Jul-17	422								
New Tai Wo Footbridge															
General															
TWFB1090	Steel Bridge prefabrication (TWFB)	87.78%	11	90	15-Aug-16 A	04-Jan-17	533								
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	05-Jan-17		533								◆ Steel Bridge available on site (TWFB)
TWSR-West/ FL Highway N/B Side Section															
TWFB1240	TWAB2 - pile cap & abutment wall	94.44%	6	108	20-Jul-16 A	28-Dec-16	1041								
TWFB1250	TWAB2 - Backfilling (~4m)	66.67%	9	27	12-Nov-16 A	31-Dec-16	1038								
TWFB1260	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		31-Dec-16	1038								31-Dec-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W side)
TWFB1360	Steel Ramp ready for erection (TWFB-TWSR-W side)	0%	0	0		20-Dec-16	1047								20-Dec-16 ◆ Steel Ramp ready for erection (TWFB-TWSR-W side)
TWFB1370	Erect Staircase (TWFB-TWSR-W side)	70%	9	30	07-Dec-16 A	31-Dec-16	77								
TWFB1380	Erect Ramp	70%	9	30	07-Dec-16 A	31-Dec-16	77								
TWFB1390	Finishes Work	0%	30	30	03-Jan-17	14-Feb-17	641								
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		14-Feb-17	641								14-Feb-17 ◆ Bridge Structure complete (TWFB-TWSR-W side)
Crossing Fanling Highway Section															
TWFB1410	TWP2 - Predrilling	0%	18	18	09-Jan-17*	06-Feb-17	66								
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	0%	30	30	07-Feb-17	13-Mar-17	66								
TWFB1430	TWP2 - Pile Test	0%	28	28	14-Mar-17	10-Apr-17	85								
Lift at TWSR-W Side															
L1670	Lift shaft & roof	80.63%	31	160	21-Jun-16 A	27-Jan-17	469								
L1680	Structural Laminated glass wall installation	0%	30	30	06-Feb-17	11-Mar-17	512								
L1690	RC Link slab connect to bridge	0%	30	30	06-Feb-17	11-Mar-17	469								
L1700	Metal cover on RC platform	0%	30	30	13-Mar-17	20-Apr-17	469								
L1730	Lift submission & ordering period	48.64%	151	294	02-Jul-16 A	04-Jul-17	422								
L1780	CLP Power available (by CLP)	30.89%	273	395	20-Aug-16 A	18-Sep-17	526								
Temporary Tai Wo Footbridge															
Design Works															
TWFB-T1020	Engineer Comment	81.03%	22	116	28-Jun-16 A	17-Jan-17	65								
TWFB-T1030	Design amendment	0%	73	73	18-Jan-17	25-Apr-17	65								
Construction Works															
TWFB-T1065	TW Bridge Ramp at TWSR-W available	0%	0	0		31-Dec-16	251								31-Dec-16 ◆ TW Bridge Ramp at TWSR-W available
TWSR-West Construction															
Drainage & Road Works															
Ch 5880-6740															
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	35%	78	120	01-Nov-16 A	31-Mar-17	0								
Noise Barrier Along Fanling Highway S/B															
NB46A (Ch.5880-5935)-FH S/B Side															
Noise Barrier Works															
NB03230	Sheet piling for DN600 watermain diversion work (VO70)	0%	14	14	20-Dec-16*	07-Jan-17	455								

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017				
								Dec		Jan		Feb		Mar		
								Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar	
Bridge Construction																
Kau Lung Hang Vehicular Bridge																
KLH Bridge - West Ramp																
KLH.1290	West Ramp - Planting	0%	21	21	20-Dec-16	16-Jan-17	673									
KLH Bridge - Deck 1																
KLH.3430	Deck 1 - Planting	0%	21	21	20-Dec-16	16-Jan-17	673									
KLH.3630	Pedestrian walkway Roof P2 to P3	63.16%	14	38	09-Dec-16 A	07-Jan-17	5									
KLH.3640	Pedestrian walkway floor finishes P2 to P3	0%	14	14	09-Jan-17	24-Jan-17	5									
KLH Bridge - Deck 2																
KLH.3160	Pedestrian walkway Roof P5-P6	0%	14	14	09-Dec-16 A	07-Jan-17	9									
KLH.3170	Pedestrian walkway floor finishes P5-P6 (include barrier and lighting)	0%	14	14	04-Jan-17	19-Jan-17	9									
KLH.3260	Pedestrian walkway Roof P4 to P5	0%	9	9	09-Dec-16 A	31-Dec-16	10									
KLH.3270	Pedestrian walkway floor finishes P4 to P5 (include barrier and lighting)	0%	14	14	03-Jan-17	18-Jan-17	10									
KLH.3360	Pedestrian walkway Roof P3 to P4	0%	6	6	09-Dec-16 A	28-Dec-16	13									
KLH.3370	Pedestrian walkway floor finishes P3 to P4 (include barrier and lighting)	0%	14	14	29-Dec-16	14-Jan-17	13									
KLH Bridge - Deck 3																
KLH.3500	Deck 3 - Planting	0%	21	21	20-Dec-16	16-Jan-17	705									
KLH.3650	Pedestrian walkway Roof P6 to P7	24%	19	25	01-Dec-16 A	13-Jan-17	0									
KLH.3660	Pedestrian walkway floor finishes P6 to P7 (include barrier and lighting)	0%	14	14	14-Jan-17	07-Feb-17	0									
KLH Bridge - East Ramp																
KLH.3590	East Ramp - Planting	0%	34	34	20-Dec-16	08-Feb-17	1013									
KLH Bridge - Ramp R1																
Z2.KLH.1685	Ramp R1 - Ramp construction (R1P1 to P1P3)	76.67%	7	30	19-Nov-16 A	29-Dec-16	0									
Z2.KLH.1740	Ramp R1 complete	0%	0	0		06-Feb-17	0									
Z2.KLH.3610	Ramp R1 - Steel roof	0%	20	20	30-Dec-16	23-Jan-17	0									
Z2.KLH.3620	Ramp R1 - finishes work (include barrier and lighting)	0%	20	20	06-Jan-17	06-Feb-17	0									
KLH Bridge - Ramp R2																
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-Dec-16*	19-Jan-17	644									
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	20-Jan-17	27-Feb-17	644									
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	97.01%	9	301	20-Nov-15 A	31-Dec-16	2									
Z2.KLH.1540	Ramp R2 - Ramp construction	55.56%	20	45	17-Nov-16 A	14-Jan-17	0									
Z2.KLH.1545	Ramp R2 - Ramp construction (section after VBP6-7 deck)	42.86%	20	35	17-Nov-16 A	14-Jan-17	0									
Z2.KLH.1550	Ramp R2 - Steel roof	0%	24	24	13-Mar-17	10-Apr-17	-53									
Z2.KLH.1920	Ramp R2 - finishes work (include barrier and lighting)	0%	12	12	16-Jan-17	06-Feb-17	0									
Z2.KLH.2000	Prepare Shop drawing re-submission	44.44%	25	45	08-Dec-16 A	20-Jan-17	-53									
Z2.KLH.2010	Shop drawing approval	0%	2	2	21-Jan-17	23-Jan-17	-53									
Z2.KLH.2050	Factory fabrication	0%	34	34	24-Jan-17	11-Mar-17	-53									
Bridge Road Work																
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Dec-16	26-May-17	574									
Lift at TWSR-W Side																
L01040	Temp work & Pile cap	0%	45	45	07-Feb-17	30-Mar-17	422									
L01094	Lift submission & ordering period	31.63%	201	294	01-Aug-16 A	31-Aug-17	404									
L01140	CLP Power available (by CLP)	55.83%	182	412	04-Apr-16 A	19-Jun-17	655									
Lift at FLHY S/B																
L01180	Earliest date for lift construction resume	0%	0	0	20-Dec-16		409									
L01190	Set up & Pile test	0%	30	30	20-Dec-16	26-Jan-17	409									
L01200	Temp work & Pier cap	0%	45	45	27-Jan-17	28-Mar-17	409									
L01300	CLP Power available (by CLP)	51.69%	214	443	04-Apr-16 A	21-Jul-17	629									
Demolition of Existing Nam Wa Po Footbridge																
Demolition Work																
Z2.NWP.1060	Temporary support installation at existing Fanling Highway	0%	45	45	17-Feb-17	11-Apr-17	-53									
Z2.NWP.1100	RMO additional road closure stopping period	0%	32	32	13-Jan-17*	13-Feb-17	0									
TWSR-West Construction																
Drainage & Road Works																
General																
CW01	1st interface connection to CW at S/B	0%	0	0		31-Jan-17*	0									
Noise Barrier Along Fanling Highway S/B																
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)																
Noise Barrier Works																
NB03090	NB62 (0-80m) - Footing & Wall Structure	11.67%	53	60	12-Dec-16 A	02-Mar-17	601									
NB03100	NB62 (0-80m) - backfilling	0%	20	20	03-Mar-17	25-Mar-17	616									
NB03110	NB62 (0-80m) - NB production	0%	45	45	03-Mar-17	16-Apr-17	739									
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	03-Jan-17*	16-Jan-17	555									
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	17-Jan-17	22-Feb-17	608									
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	23-Feb-17	10-Mar-17	629									
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	23-Feb-17	08-Apr-17	747									
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	17-Jan-17	14-Feb-17	555									
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	15-Feb-17	29-Apr-17	555									
NB70 (Ch.6910-6930)-FH S/B Side																
Noise Barrier Works																
NB03290	NB70- NB post & panel installation	0%	5	5	20-Dec-16	24-Dec-16	689									
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)																
Bridge Construction																

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017											
								Dec				Jan				Feb				Mar			
New Ho Ka Yuen Footbridge																							
TWSR-West/ FL Highway N/B Side Section																							
HKY1250	HKYAB3 - pile cap & abutment wall	63.53%	31	85	20-Aug-16 A	27-Jan-17	653	[Progress bar]															
HKY1260	HKYAB3 - Backfilling (~4m)	0%	12	12	06-Feb-17	18-Feb-17	653					[Progress bar]											
HKY1270	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		18-Feb-17	653					18-Feb-17 ♦ Steel Staircase ready for											
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-Feb-17	25-Mar-17	653					[Progress bar]											
HKY1440	Remaining Finishes works of HKYFB	16%	126	150	21-Nov-16 A	03-Jun-17	555	[Progress bar]				[Progress bar]				[Progress bar]							
TWSR-East FL Highway S/B Side Section																							
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	16.67%	30	36	13-Oct-16 A	26-Jan-17	696	[Progress bar]				[Progress bar]				[Progress bar]							
Other Works																							
Slope Works																							
TWSR-East FL Highway S/B Side Section																							
S1000	Slope S51-Fill -3m	0%	40	40	20-Dec-16	15-Feb-17	590					[Progress bar]				[Progress bar]							
ZONE 4 (Ch. 7925 to 8700)																							
Noise Barrier Along Fanling Highway N/B																							
NB75 (Ch.7930-8090)-FH N/B Side																							
Noise Barrier Works																							
NB4040	NB75 -Pre-drilling (Ch7930-7990)	45.83%	13	24	28-Nov-16 A	06-Jan-17	0	[Progress bar]				[Progress bar]				[Progress bar]							
NB4050	NB75 - piling (NB75/01-05, 0.19m -24no)	0%	48	48	07-Jan-17	11-Mar-17	0					[Progress bar]				[Progress bar]							
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	0%	60	60	13-Mar-17	27-May-17	21					[Progress bar]				[Progress bar]							
NB4100	NB75 -Pre-drilling (Ch7990-8000)-(HKY-P1) & G34	0%	24	24	07-Jan-17	11-Feb-17	62					[Progress bar]				[Progress bar]							
NB4110	NB75 - piling (NB75/06, 0.19m -4no) & G34 (10 nos)	0%	21	21	13-Mar-17	06-Apr-17	38					[Progress bar]				[Progress bar]							
NB4160	NB75 -Pre-drilling (Ch8000-8050)	0%	48	48	07-Jan-17	11-Mar-17	0					[Progress bar]				[Progress bar]							
NB4170	NB75 - piling (NB75/07-10, 0.19m -20no)	0%	32	32	13-Mar-17	22-Apr-17	0					[Progress bar]				[Progress bar]							
NB4220	NB75 -Pre-drilling (Ch8050-8090)	0%	42	42	01-Mar-17	22-Apr-17	14					[Progress bar]				[Progress bar]							
NB77 (Ch.8090-8450)-FH N/B Side																							
Noise Barrier Works																							
NB4290	NB77 -Pre-drilling (Ch8090-8190)	0%	24	24	01-Dec-16 A	19-Jan-17	7	[Progress bar]				[Progress bar]				[Progress bar]							
NB4300	NB77 - piling (NB77/01-08, 0.19m -34no)	0%	68	68	09-Jan-17	06-Apr-17	7					[Progress bar]				[Progress bar]							
NB4350	NB77 -Pre-drilling (Ch8190-8290)	0%	72	72	20-Dec-16	24-Mar-17	27	[Progress bar]				[Progress bar]				[Progress bar]							
NB4360	NB77 - piling (NB77/09-17, 0.19m -36no)	0%	72	72	04-Mar-17	03-Jun-17	27					[Progress bar]				[Progress bar]							
NB4410	NB77 -Pre-drilling (Ch8290-8390)	0%	60	60	20-Jan-17	08-Apr-17	21					[Progress bar]				[Progress bar]							
Bridge Construction																							
New Wo Hop Shek Pedstrian & Cycle Bridge																							
TWSR-West/ FL Highway N/B Side Section																							
WHS1300	Existing WHS bridge structure removed	0%	0	0		10-Mar-17	268					10-Mar-17 ♦ Existing				[Progress bar]							
WHS1350	WHSAB2 - Predrilling (VO018)	0%	24	24	11-Mar-17	08-Apr-17	268					[Progress bar]				[Progress bar]							
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge																							
TWSR-West/ FL Highway N/B Side Section																							
WHS1870	Install Temp support to remove existing ramp	0%	25	25	20-Dec-16	20-Jan-17	268	[Progress bar]				[Progress bar]				[Progress bar]							
WHS1880	Remove existing ramp for 2nd half new ramp construction	0%	35	35	21-Jan-17	10-Mar-17	268					[Progress bar]				[Progress bar]							
WHS1890	Demolish existing WHS footbridge (TWSR-W side)	0%	30	30	20-Dec-16	26-Jan-17	530	[Progress bar]				[Progress bar]				[Progress bar]							
WHS2030	Remove temp filled platform	0%	30	30	27-Jan-17	10-Mar-17	530					[Progress bar]				[Progress bar]							
Crossing Fanling Highway Section																							
WHS1790	Erect Temp platform for bridge demolition	7.5%	37	40	17-Oct-16 A	11-Feb-17	413	[Progress bar]				[Progress bar]				[Progress bar]							
WHS1800	Demolish existing WHS Footbridge	0%	60	60	13-Feb-17	27-Apr-17	413					[Progress bar]				[Progress bar]							
TWSR-East FL Highway S/B Side Section																							
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A	0%	20	20	20-Dec-16	14-Jan-17	4	[Progress bar]				[Progress bar]				[Progress bar]							
Slip Road Y Construction																							
Drainage & Road Works																							
TWSR-East FL Highway S/B Side Section																							
RDZ41085	Construct Slip Rd Y (Ch7925-8050)(SA346) - remaining	0%	150	150	20-Dec-16	03-Jul-17	364	[Progress bar]				[Progress bar]				[Progress bar]							
Underground Utility Works																							
DN600 and DN900 Watermain																							
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	280	280	28-Feb-17	05-Feb-18	34					[Progress bar]				[Progress bar]							
VO - Wall 76A Construction																							
Retaining Wall W76A																							
TWSR-East FL Highway S/B Side Section																							
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Dec-16	03-Jul-17	426	[Progress bar]				[Progress bar]				[Progress bar]							
Fanling Highway Construction																							
Drainage & Road Works																							
TWSR-East FL Highway S/B Side Section																							
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY	0%	145	145	20-Dec-16	26-Jun-17	238	[Progress bar]				[Progress bar]				[Progress bar]							
Other Works																							
Retaining Wall W77A																							
TWSR-East FL Highway S/B Side Section																							
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	16-Jan-17	16-Mar-17	4					[Progress bar]				[Progress bar]							
RWZ4.1080	Base slab & Wall (3-7m high)-RW77A (Ch.0-20)	0%	90	90	27-Jan-17	26-May-17	4					[Progress bar]				[Progress bar]							
RWZ4.1140	Base slab & Wall (0-3m high)-RW77A (Ch.92-120)	91.8%	5	61	13-Sep-16 A	24-Dec-16	64	[Progress bar]				[Progress bar]				[Progress bar]							
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	0%	30	30	28-Dec-16	09-Feb-17	64					[Progress bar]				[Progress bar]							
RWZ4.1160	CLP 132kV cable diversion	46.3%	29	54	15-Nov-16 A	25-Jan-17	34	[Progress bar]				[Progress bar]				[Progress bar]							
RWZ4.1170	Base slab & Wall (0-3m high)-RW77A last 1 bay at CH120	0%	21	21	26-Jan-17	27-Feb-17	34					[Progress bar]				[Progress bar]							
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	28-Feb-17		34					♦ DN600 pipe inst				[Progress bar]							
Retaining Wall W77B																							
TWSR-East FL Highway S/B Side Section																							
RWZ4.1100	Base slab & Wall (0-3m high)-RW77B (Ch 0-23)	0%	60	60	20-Dec-16	10-Mar-17	24	[Progress bar]				[Progress bar]				[Progress bar]							

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017					
								Dec				Jan			Feb		Mar
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	0%	30	30	11-Mar-17	19-Apr-17	24										
RWZ4.1115	Temp Shoring & Excavation	92.86%	15	210	01-Mar-16 A	09-Jan-17	104										
RWZ4.1120	Base slab & Wall (3-4m high)- RW77B (Ch.23-75)	76.65%	39	167	01-Jun-16 A	14-Feb-17	75										
Retaining Wall W78																	
TWSR-East FL Highway S/B Side Section																	
RWZ4.0900	Site Clearance	0%	30	30	10-Jan-17	21-Feb-17	104										
TCSS Works																	
TCSS Pre-Construction Works																	
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Dec-16	21-Feb-17	201										
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	22-Feb-17	14-Mar-17	246										
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	15-Mar-17	04-Apr-17	200										
G35																	
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	0%	30	30	20-Dec-16	26-Jan-17	454										
FVMS2 (Deleted by RFI-138, Pending for VO)																	
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Dec-16	26-Jan-17	574										

**CONSTRUCTION PROGRAMME OF
JANUARY 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017							
								Dec	Jan	Feb	Mar	Apr	May	Jun					
Contract Condition																			
General																			
Contract Condition																			
KD20	KD-20 (1064d)- Stage 1: Achievement: Whole length of	0%	0	0		31-Dec-16	3												
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Dec-16		1297												
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Dec-16*		-719												
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Dec-16*		-521												
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Dec-16*		-386												
ZONE 1 (Ch. 5640 to 5880)																			
Noise Barrier Along TWSR-West and Laying New Utilities																			
DSD Southern Trunk Sewer, Water Main, Fire Main Works																			
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
DSD0110	DSD Trunk Sewer Laying - overall inspection	58.33%	5	12	05-Dec-16 A	24-Dec-16	5												
DSD0120	DSD Trunk Sewer Laying - overall rectification	25%	9	12	17-Dec-16 A	31-Dec-16	1												
NB42 (Ch.5640-5740)-TWSR West Side																			
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10140	Firemain installation (along NB42)	66.22%	25	74	20-Aug-16 A	20-Jan-17	28												
Noise Barrier Along Fanling Highway N/B																			
Site Clearance & Demolition of Existing Structure																			
Underground Utility Works																			
ADVZ20175	All UU and backfill along TWSR-W complete	0%	0	0		20-Dec-16	22												
ADVZ20180	Utility cable changeover period (NWT)	0%	184	184	20-Dec-16	21-Jun-17	209												
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	0%	273	273	20-Dec-16	18-Sep-17	120												
TWSR-West Construction																			
Drainage & Road Works																			
Ch 5640-5880																			
RDZ10090	Z1: New Tai Wo Service Road West - Drainage & Road works (2 lanes)	54.12%	78	170	15-Aug-16 A	31-Mar-17	0												
ZONE 2 (Ch. 5880 to 6930)																			
General																			
DRM Proposal																			
DRM Proposal																			
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	17.95%	224	273	20-Oct-16 A	31-Jul-17*	0												
ADVZ20220	New TWSR-W construction period	57.61%	78	184	15-Aug-16 A	31-Mar-17	0												
Noise Barrier Along TWSR-West and Laying New Utilities																			
NB48 (Ch.5995-6120)-TWSR West Side																			
Noise Barrier Works																			
NB00390	NB48 (Ch5995-6060) - backfilling	66.67%	6	18	05-Oct-16 A	28-Dec-16	60												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10440	Firemain installation (along NB48, 0-60m)	88.46%	18	156	20-Jun-16 A	12-Jan-17	0												
TSZ10490	Firemain installation (along NB48, 60-110m)	88.46%	18	156	20-Jun-16 A	12-Jan-17	0												
NB54 (Ch.6240-6280)-TWSR West Side																			
Noise Barrier Works																			
NB00720	NB54 - NB post & panel installation	0%	5	5	20-Dec-16	24-Dec-16	689												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10630	Watermain installation (along NB54)	85.4%	20	137	20-May-16 A	14-Jan-17	1027												
TSZ10640	Firemain installation (along NB54)	0%	30	30	19-Dec-16 A	26-Jan-17	76												
NB54A (Ch.6290-6350)-TWSR West Side																			
Noise Barrier Works																			
NB00770	NB54A - backfilling	0%	12	12	20-Dec-16	05-Jan-17	79												
NB00790	NB54A - NB post & panel installation	0%	5	5	06-Jan-17	11-Jan-17	677												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10680	Watermain installation (along NB54A)	91.15%	20	226	14-Mar-16 A	14-Jan-17	1027												
TSZ10690	Firemain installation (along NB54A)	0%	31	25	19-Dec-16 A	27-Jan-17	17												
NB57 (Ch.6365-6445)-TWSR West Side																			
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10730	Watermain installation (along NB57)	0%	37	27	12-Dec-16 A	11-Feb-17	1												
TSZ10740	Firemain installation (along NB57)	0%	30	30	17-Jan-17	28-Feb-17	1												
TSZ10990	Backfilling for UU and Firemain & Watermain	0%	12	12	01-Mar-17	14-Mar-17	1												
NB58 (Ch.6445-6480)-TWSR West Side																			
Noise Barrier Works																			
NB00930	NB58 - NB post & panel installation	54.17%	22	48	20-Sep-16 A	17-Jan-17	672												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10790	Firemain installation (along NB58)	82.35%	9	51	29-Aug-16 A	31-Dec-16	1038												
NB59 (Ch.6490-6590)-TWSR West Side																			
Noise Barrier Works																			
NB01000	NB59 - NB post installation	25%	12	16	15-Oct-16 A	05-Jan-17	682												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10840	Firemain installation (along NB59)	94.38%	9	160	20-May-16 A	31-Dec-16	24												
NB63 (Ch.6610-6700)-TWSR West Side																			
DSD Southern Trunk Sewer, Water Main Fire Main Works																			

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 Layout: 3 Month Rolling Program
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Contract No. HY/2012/06
Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange
3 Month Rolling Program(20-Dec-16)



Date	Revision	C...	A..
13-May-14	WP Rev 1		
30-Jun-14	WP Rev 1A		
28-Aug-15	WP Rev 2		
07-Apr-16	WP Rev 3		
08-Nov-16	WP Rev 4		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017					
								Dec				Jan			Feb		Mar
TSZ10340	Firemain installation (along NB63)	76.34%	31	131	20-Jun-16 A	27-Jan-17	60										
Noise Barrier Along Fanling Highway N/B																	
Site Clearance & Demolition of Existing Structure																	
General																	
ADVZ20160	TTA for NB works	0%	60	60	13-Jan-17	31-Mar-17	235										
Bridge Construction																	
New Tai Hang Footbridge																	
General																	
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	90%	9	90	20-Jul-16 A	31-Dec-16	384										
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	03-Jan-17		384					◆ Steel Staircase & Bridge available on site (THFB-TWSR-E side)					
TWSR-West/ FL Highway N/B Side Section																	
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		20-Dec-16	453					20-Dec-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W side)					
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	92.14%	22	280	01-Feb-16 A	17-Jan-17	341										
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		17-Jan-17	341					17-Jan-17 ◆ Steel Ramp ready for erection (THFB-TWSR-W side)					
THBF0410	Erect Staircase (THFB-TWSR-W side)	0%	30	30	20-Dec-16	26-Jan-17	453										
THBF0420	Erect Ramp	0%	60	60	18-Jan-17	06-Apr-17	341										
Crossing Fanling Highway Section																	
THBF0530	THP1 - Predrilling	0%	12	12	31-Dec-16	14-Jan-17	216										
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	45	45	16-Jan-17	16-Mar-17	216										
THBF0550	THP1 - Pile Test	0%	28	28	17-Mar-17	13-Apr-17	265										
TWSR-East FL Highway S/B Side Section																	
THBF0470	THAB1 - pile cap & abutment wall	29.41%	60	85	21-Nov-16 A	10-Mar-17	268										
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	11-Mar-17	03-Apr-17	268										
THBF0730	THP3 - Pile cap, Pier and Pier Head	0%	76	45	26-Nov-16 A	29-Mar-17	317										
THBF0770	THP4 - Pile cap, Pier and Pier Head	50%	56	112	20-Jul-16 A	06-Mar-17	277										
THBF0780	Modified existing column head of existing footbridge	0%	30	30	07-Mar-17	11-Apr-17	277										
Lift at TWSR-W Side																	
L1520	Lift shaft & roof	33.91%	76	115	16-Jul-16 A	29-Mar-17	287										
L1557	Lift submission & ordering period	59.58%	97	240	02-Jul-16 A	27-Apr-17	340										
L1600	CLP Power available (by CLP)	46.19%	212	394	21-Jun-16 A	19-Jul-17	419										
Lift at FLHY S/B																	
L1370	Lift shaft & roof	46.36%	59	110	20-Sep-16 A	09-Mar-17	321										
L1380	Structural Laminated glass wall installation	0%	30	30	10-Mar-17	18-Apr-17	351										
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	10-Mar-17	18-Apr-17	321										
L1450	CLP Power available (by CLP)	46.19%	212	394	21-Jun-16 A	19-Jul-17	422										
New Tai Wo Footbridge																	
General																	
TWFB1090	Steel Bridge prefabrication (TWFB)	87.78%	11	90	15-Aug-16 A	04-Jan-17	533										
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	05-Jan-17		533					◆ Steel Bridge available on site (TWFB)					
TWSR-West/ FL Highway N/B Side Section																	
TWFB1240	TWAB2 - pile cap & abutment wall	94.44%	6	108	20-Jul-16 A	28-Dec-16	1041										
TWFB1250	TWAB2 - Backfilling (~4m)	66.67%	9	27	12-Nov-16 A	31-Dec-16	1038										
TWFB1260	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		31-Dec-16	1038					31-Dec-16 ◆ Steel Staircase ready for erection (THFB-TWSR-W side)					
TWFB1360	Steel Ramp ready for erection (TWFB-TWSR-W side)	0%	0	0		20-Dec-16	1047					20-Dec-16 ◆ Steel Ramp ready for erection (TWFB-TWSR-W side)					
TWFB1370	Erect Staircase (TWFB-TWSR-W side)	70%	9	30	07-Dec-16 A	31-Dec-16	77										
TWFB1380	Erect Ramp	70%	9	30	07-Dec-16 A	31-Dec-16	77										
TWFB1390	Finishes Work	0%	30	30	03-Jan-17	14-Feb-17	641										
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		14-Feb-17	641					14-Feb-17 ◆ Bridge Structure complete (TWFB-TWSR-W side)					
Crossing Fanling Highway Section																	
TWFB1410	TWP2 - Predrilling	0%	18	18	09-Jan-17*	06-Feb-17	66										
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	0%	30	30	07-Feb-17	13-Mar-17	66										
TWFB1430	TWP2 - Pile Test	0%	28	28	14-Mar-17	10-Apr-17	85										
Lift at TWSR-W Side																	
L1670	Lift shaft & roof	80.63%	31	160	21-Jun-16 A	27-Jan-17	469										
L1680	Structural Laminated glass wall installation	0%	30	30	06-Feb-17	11-Mar-17	512										
L1690	RC Link slab connect to bridge	0%	30	30	06-Feb-17	11-Mar-17	469										
L1700	Metal cover on RC platform	0%	30	30	13-Mar-17	20-Apr-17	469										
L1730	Lift submission & ordering period	48.64%	151	294	02-Jul-16 A	04-Jul-17	422										
L1780	CLP Power available (by CLP)	30.89%	273	395	20-Aug-16 A	18-Sep-17	526										
Temporary Tai Wo Footbridge																	
Design Works																	
TWFB-T1020	Engineer Comment	81.03%	22	116	28-Jun-16 A	17-Jan-17	65										
TWFB-T1030	Design amendment	0%	73	73	18-Jan-17	25-Apr-17	65										
Construction Works																	
TWFB-T1065	TW Bridge Ramp at TWSR-W available	0%	0	0		31-Dec-16	251					31-Dec-16 ◆ TW Bridge Ramp at TWSR-W available					
TWSR-West Construction																	
Drainage & Road Works																	
Ch 5880-6740																	
RDZ20160	Z2 : New TWSR-West D&R Works (lane 1)	35%	78	120	01-Nov-16 A	31-Mar-17	0										
Noise Barrier Along Fanling Highway S/B																	
NB46A (Ch.5880-5935)-FH S/B Side																	
Noise Barrier Works																	
NB03230	Sheet piling for DN600 watermain diversion work (VO70)	0%	14	14	20-Dec-16*	07-Jan-17	455										

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017			
								Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar
Bridge Construction															
Kau Lung Hang Vehicular Bridge															
KLH Bridge - West Ramp															
KLH.1290	West Ramp - Planting	0%	21	21	20-Dec-16	16-Jan-17	673								
KLH Bridge - Deck 1															
KLH.3430	Deck 1 - Planting	0%	21	21	20-Dec-16	16-Jan-17	673								
KLH.3630	Pedestrian walkway Roof P2 to P3	63.16%	14	38	09-Dec-16 A	07-Jan-17	5								
KLH.3640	Pedestrian walkway floor finishes P2 to P3	0%	14	14	09-Jan-17	24-Jan-17	5								
KLH Bridge - Deck 2															
KLH.3160	Pedestrian walkway Roof P5-P6	0%	14	14	09-Dec-16 A	07-Jan-17	9								
KLH.3170	Pedestrian walkway floor finishes P5-P6 (include barrier and lighting)	0%	14	14	04-Jan-17	19-Jan-17	9								
KLH.3260	Pedestrian walkway Roof P4 to P5	0%	9	9	09-Dec-16 A	31-Dec-16	10								
KLH.3270	Pedestrian walkway floor finishes P4 to P5 (include barrier and lighting)	0%	14	14	03-Jan-17	18-Jan-17	10								
KLH.3360	Pedestrian walkway Roof P3 to P4	0%	6	6	09-Dec-16 A	28-Dec-16	13								
KLH.3370	Pedestrian walkway floor finishes P3 to P4 (include barrier and lighting)	0%	14	14	29-Dec-16	14-Jan-17	13								
KLH Bridge - Deck 3															
KLH.3500	Deck 3 - Planting	0%	21	21	20-Dec-16	16-Jan-17	705								
KLH.3650	Pedestrian walkway Roof P6 to P7	24%	19	25	01-Dec-16 A	13-Jan-17	0								
KLH.3660	Pedestrian walkway floor finishes P6 to P7 (include barrier and lighting)	0%	14	14	14-Jan-17	07-Feb-17	0								
KLH Bridge - East Ramp															
KLH.3590	East Ramp - Planting	0%	34	34	20-Dec-16	08-Feb-17	1013								
KLH Bridge - Ramp R1															
Z2.KLH.1685	Ramp R1 - Ramp construction (R1P1 to P1P3)	76.67%	7	30	19-Nov-16 A	29-Dec-16	0								
Z2.KLH.1740	Ramp R1 complete	0%	0	0		06-Feb-17	0							06-Feb-17 ♦ Ramp R1 complete	
Z2.KLH.3610	Ramp R1 - Steel roof	0%	20	20	30-Dec-16	23-Jan-17	0								
Z2.KLH.3620	Ramp R1 - finishes work (include barrier and lighting)	0%	20	20	06-Jan-17	06-Feb-17	0								
KLH Bridge - Ramp R2															
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-Dec-16*	19-Jan-17	644								
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	20-Jan-17	27-Feb-17	644								
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	97.01%	9	301	20-Nov-15 A	31-Dec-16	2								
Z2.KLH.1540	Ramp R2 - Ramp construction	55.56%	20	45	17-Nov-16 A	14-Jan-17	0								
Z2.KLH.1545	Ramp R2 - Ramp construction (section after VBP6-7 deck)	42.86%	20	35	17-Nov-16 A	14-Jan-17	0								
Z2.KLH.1550	Ramp R2 - Steel roof	0%	24	24	13-Mar-17	10-Apr-17	-53								
Z2.KLH.1920	Ramp R2 - finishes work (include barrier and lighting)	0%	12	12	16-Jan-17	06-Feb-17	0								
Z2.KLH.2000	Prepare Shop drawing re-submission	44.44%	25	45	08-Dec-16 A	20-Jan-17	-53								
Z2.KLH.2010	Shop drawing approval	0%	2	2	21-Jan-17	23-Jan-17	-53								
Z2.KLH.2050	Factory fabrication	0%	34	34	24-Jan-17	11-Mar-17	-53								
Bridge Road Work															
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Dec-16	26-May-17	574								
Lift at TWSR-W Side															
L01040	Temp work & Pile cap	0%	45	45	07-Feb-17	30-Mar-17	422								
L01094	Lift submission & ordering period	31.63%	201	294	01-Aug-16 A	31-Aug-17	404								
L01140	CLP Power available (by CLP)	55.83%	182	412	04-Apr-16 A	19-Jun-17	655								
Lift at FLHY S/B															
L01180	Earliest date for lift construction resume	0%	0	0	20-Dec-16		409							♦ Earliest date for lift construction resume	
L01190	Set up & Pile test	0%	30	30	20-Dec-16	26-Jan-17	409								
L01200	Temp work & Pier cap	0%	45	45	27-Jan-17	28-Mar-17	409								
L01300	CLP Power available (by CLP)	51.69%	214	443	04-Apr-16 A	21-Jul-17	629								
Demolition of Existing Nam Wa Po Footbridge															
Demolition Work															
Z2.NWP.1060	Temporary support installation at existing Fanling Highway	0%	45	45	17-Feb-17	11-Apr-17	-53								
Z2.NWP.1100	RMO additional road closure stopping period	0%	32	32	13-Jan-17*	13-Feb-17	0								
TWSR-West Construction															
Drainage & Road Works															
General															
CW01	1st interface connection to CW at S/B	0%	0	0		31-Jan-17*	0							31-Jan-17* ♦ 1st interface connection to CW at S/B	
Noise Barrier Along Fanling Highway S/B															
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)															
Noise Barrier Works															
NB03090	NB62 (0-80m) - Footing & Wall Structure	11.67%	53	60	12-Dec-16 A	02-Mar-17	601								
NB03100	NB62 (0-80m) - backfilling	0%	20	20	03-Mar-17	25-Mar-17	616								
NB03110	NB62 (0-80m) - NB production	0%	45	45	03-Mar-17	16-Apr-17	739								
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	03-Jan-17*	16-Jan-17	555								
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	17-Jan-17	22-Feb-17	608								
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	23-Feb-17	10-Mar-17	629								
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	23-Feb-17	08-Apr-17	747								
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	17-Jan-17	14-Feb-17	555								
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	15-Feb-17	29-Apr-17	555								
NB70 (Ch.6910-6930)-FH S/B Side															
Noise Barrier Works															
NB03290	NB70- NB post & panel installation	0%	5	5	20-Dec-16	24-Dec-16	689								
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)															
Bridge Construction															

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2016				2017			
								Dec		Jan		Feb		Mar	
New Ho Ka Yuen Footbridge															
TWSR-West/ FL Highway N/B Side Section															
HKY1250	HKYAB3 - pile cap & abutment wall	63.53%	31	85	20-Aug-16 A	27-Jan-17	653								
HKY1260	HKYAB3 - Backfilling (~4m)	0%	12	12	06-Feb-17	18-Feb-17	653								
HKY1270	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		18-Feb-17	653								
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-Feb-17	25-Mar-17	653								
HKY1440	Remaining Finishes works of HKYFB	16%	126	150	21-Nov-16 A	03-Jun-17	555								
TWSR-East FL Highway S/B Side Section															
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	16.67%	30	36	13-Oct-16 A	26-Jan-17	696								
Other Works															
Slope Works															
TWSR-East FL Highway S/B Side Section															
S1000	Slope S51-Fill ~3m	0%	40	40	20-Dec-16	15-Feb-17	590								
ZONE 4 (Ch. 7925 to 8700)															
Noise Barrier Along Fanling Highway N/B															
NB75 (Ch.7930-8090)-FH N/B Side															
Noise Barrier Works															
NB4040	NB75 -Pre-drilling (Ch7930-7990)	45.83%	13	24	28-Nov-16 A	06-Jan-17	0								
NB4050	NB75 - piling (NB75/01-05, 0.19m -24no)	0%	48	48	07-Jan-17	11-Mar-17	0								
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	0%	60	60	13-Mar-17	27-May-17	21								
NB4100	NB75 -Pre-drilling (Ch7990-8000)-(HKY-P1) & G34	0%	24	24	07-Jan-17	11-Feb-17	62								
NB4110	NB75 - piling (NB75/06, 0.19m -4no) & G34 (10 nos)	0%	21	21	13-Mar-17	06-Apr-17	38								
NB4160	NB75 -Pre-drilling (Ch8000-8050)	0%	48	48	07-Jan-17	11-Mar-17	0								
NB4170	NB75 - piling (NB75/07-10, 0.19m -20no)	0%	32	32	13-Mar-17	22-Apr-17	0								
NB4220	NB75 -Pre-drilling (Ch8050-8090)	0%	42	42	01-Mar-17	22-Apr-17	14								
NB77 (Ch.8090-8450)-FH N/B Side															
Noise Barrier Works															
NB4290	NB77 -Pre-drilling (Ch8090-8190)	0%	24	24	01-Dec-16 A	19-Jan-17	7								
NB4300	NB77 - piling (NB77/01-08, 0.19m -34no)	0%	68	68	09-Jan-17	06-Apr-17	7								
NB4350	NB77 -Pre-drilling (Ch8190-8290)	0%	72	72	20-Dec-16	24-Mar-17	27								
NB4360	NB77 - piling (NB77/09-17, 0.19m -36no)	0%	72	72	04-Mar-17	03-Jun-17	27								
NB4410	NB77 -Pre-drilling (Ch8290-8390)	0%	60	60	20-Jan-17	08-Apr-17	21								
Bridge Construction															
New Wo Hop Shek Pedstrian & Cycle Bridge															
TWSR-West/ FL Highway N/B Side Section															
WHS1300	Existing WHS bridge structure removed	0%	0	0		10-Mar-17	268								
WHS1350	WHSAB2 - Predrilling (VO018)	0%	24	24	11-Mar-17	08-Apr-17	268								
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge															
TWSR-West/ FL Highway N/B Side Section															
WHS1870	Install Temp support to remove existing ramp	0%	25	25	20-Dec-16	20-Jan-17	268								
WHS1880	Remove existing ramp for 2nd half new ramp construction	0%	35	35	21-Jan-17	10-Mar-17	268								
WHS1890	Demolish existing WHS footbridge (TWSR-W side)	0%	30	30	20-Dec-16	26-Jan-17	530								
WHS2030	Remove temp filled platform	0%	30	30	27-Jan-17	10-Mar-17	530								
Crossing Fanling Highway Section															
WHS1790	Erect Temp platform for bridge demolition	7.5%	37	40	17-Oct-16 A	11-Feb-17	413								
WHS1800	Demolish existing WHS Footbridge	0%	60	60	13-Feb-17	27-Apr-17	413								
TWSR-East FL Highway S/B Side Section															
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A	0%	20	20	20-Dec-16	14-Jan-17	4								
Slip Road Y Construction															
Drainage & Road Works															
TWSR-East FL Highway S/B Side Section															
RDZ41085	Construct Slip Rd Y (Ch7925-8050)(SA346) - remaining	0%	150	150	20-Dec-16	03-Jul-17	364								
Underground Utility Works															
DN600 and DN900 Watermain															
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	280	280	28-Feb-17	05-Feb-18	34								
VO - Wall 76A Construction															
Retaining Wall W76A															
TWSR-East FL Highway S/B Side Section															
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Dec-16	03-Jul-17	426								
Fanling Highway Construction															
Drainage & Road Works															
TWSR-East FL Highway S/B Side Section															
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY	0%	145	145	20-Dec-16	26-Jun-17	238								
Other Works															
Retaining Wall W77A															
TWSR-East FL Highway S/B Side Section															
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	16-Jan-17	16-Mar-17	4								
RWZ4.1080	Base slab & Wall (3-7m high)-RW77A (Ch.0-20)	0%	90	90	27-Jan-17	26-May-17	4								
RWZ4.1140	Base slab & Wall (0-3m high)-RW77A (Ch.92-120)	91.8%	5	61	13-Sep-16 A	24-Dec-16	64								
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	0%	30	30	28-Dec-16	09-Feb-17	64								
RWZ4.1160	CLP 132kV cable diversion	46.3%	29	54	15-Nov-16 A	25-Jan-17	34								
RWZ4.1170	Base slab & Wall (0-3m high)-RW77A last 1 bay at CH120	0%	21	21	26-Jan-17	27-Feb-17	34								
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	28-Feb-17		34								
Retaining Wall W77B															
TWSR-East FL Highway S/B Side Section															
RWZ4.1100	Base slab & Wall (0-3m high)-RW77B (Ch 0-23)	0%	60	60	20-Dec-16	10-Mar-17	24								

**APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)**

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 16	Dec 16	Jan 17
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		@	@	@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		V	@	@
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V	V	V
	Materials shall be dampened, if necessary, before transportation.		V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	@	V

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 16	Dec 16	Jan 17
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V	V	V
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V	V	V
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V	V	V
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V	V	V
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V	V	V
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		N.A.	N.A.	N.A.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 16	Dec 16	Jan 17
Water quality during construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	V	@	V
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. - Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. - Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls. - Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system. - Open stockpiles should be covered with a tarpaulin cover. - During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. 		@	@	@

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 16	Dec 16	Jan 17
Waste management during construction	<p>General Waste</p> <ul style="list-style-type: none"> - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards. 	During construction	@	@	@
	<p>Vegetation from site clearance</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 		V	V	V
	<p>Demolition Wastes</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V
	<p>Excavated Materials</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated. 		V	V	V
	<p>Construction Wastes</p> <ul style="list-style-type: none"> - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal. 		@	@	@
	<p>Bentonite Slurries</p> <ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 		#	#	#

	<p>Chemical Wastes</p> <ul style="list-style-type: none"> - Storage within locked, covered and bunded area. - The storage area shall not be located adjacent to sensitive receivers e.g. drains. - Minimise waste production and recycle oils/solvents where possible. - A spill response procedure shall be in place and absorption material available for minor spillages. - Use appropriate and labelled containers. - Educate site workers on site cleanliness/waste management procedures. - If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. - The chemical wastes shall be collected by a licensed chemical waste collector. 		@	V	@
	<p>Municipal Wastes</p> <ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. 		V	@	@

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 16	Dec 16	Jan 17
Ecology during construction	<p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 	During construction	@	V	V
	<p>Vegetation Clearance</p> <ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V	V	V
	<p>Dust generation</p> <p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		V	@	@
	<p>Surface Run-off</p> <p>In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). 		V	V	V

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Nov 16	Dec 16	Jan 17
Landscape & Visual during construction	Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V	V	V
	Temporary Works Areas - Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V	V	V
	Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.		V	V	V
	Top Soils - The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.		#	#	#
	Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.		#	#	#

Legend:

V = implemented;

x = not implemented;

@ = partially implemented;

+ = recommended and immediately implemented during the site inspection by the Contractor;

N/A = not applicable - No such work was undertaken or no such material was used on site;

= to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level
AM2	317.8 µg/m ³	500 µg/m ³

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AM2	200.7 µg/m ³	260 µg/m ³

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
M3*		65/70 dB(A)

*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

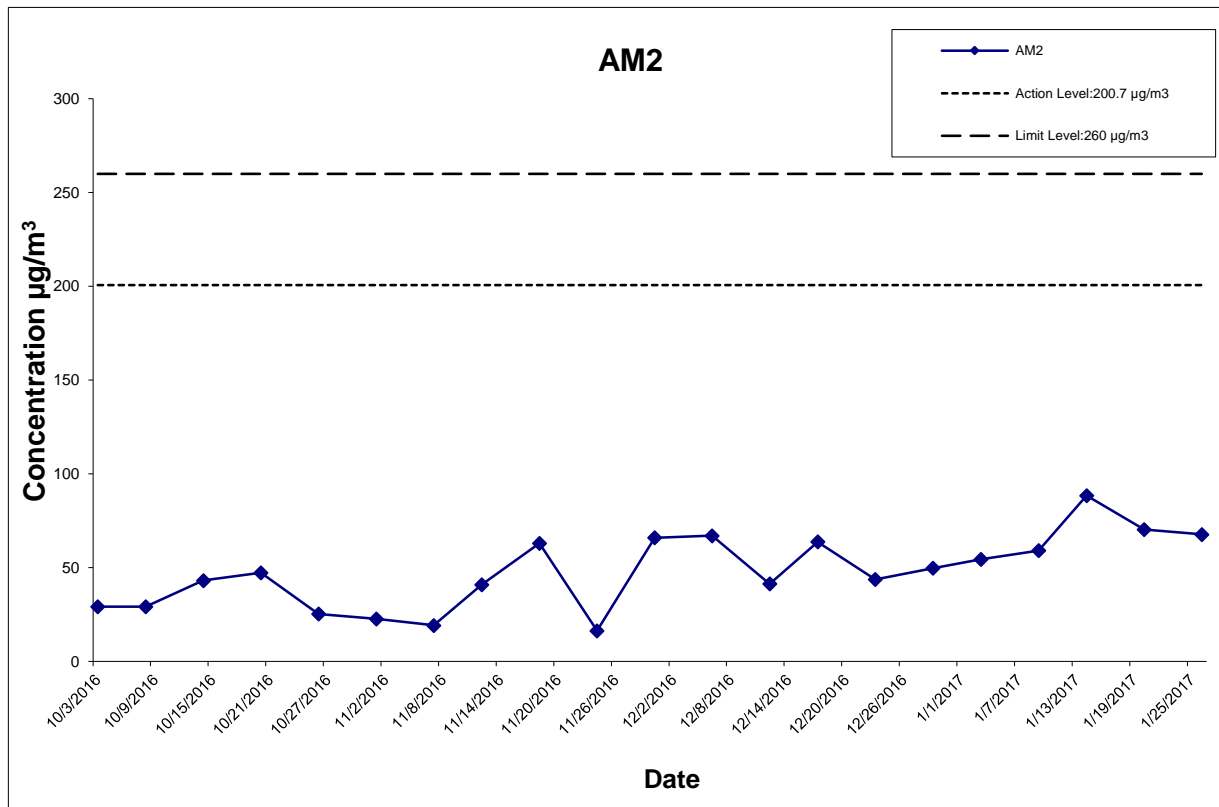
**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Actino Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final				
3-Oct-16	Sunny	27.5	1007.8	1.314	1.314	1.314	1892.2	2.8192	2.8744	0.0552	7722.03	7746.03	24.00	29.2	200.7	260
8-Oct-16	Cloudy	28.1	1006.8	1.314	1.314	1.314	1892.2	2.8385	2.8940	0.0555	7746.03	7770.03	24.00	29.3	200.7	260
14-Oct-16	Fine	26.7	1013.2	1.314	1.314	1.314	1892.2	2.8303	2.9121	0.0818	7770.03	7794.03	24.00	43.2	200.7	260
20-Oct-16	Fine	25.1	1008.7	1.314	1.314	1.314	1892.2	2.8317	2.9213	0.0896	7794.03	7818.03	24.00	47.4	200.7	260
26-Oct-16	Sunny	27.1	1015.6	1.314	1.314	1.314	1892.2	2.8283	2.8763	0.0480	7818.03	7842.03	24.00	25.4	200.7	260
1-Nov-16	Cloudy	23.9	1019.7	1.314	1.314	1.314	1892.2	2.8452	2.8883	0.0431	7842.03	7866.03	24.00	22.8	200.7	260
7-Nov-16	Sunny	25.3	1016.6	1.314	1.314	1.314	1892.2	2.8396	2.8762	0.0366	7866.03	7890.03	24.00	19.3	200.7	260
12-Nov-16	Rainy	20.0	1018.8	1.314	1.314	1.314	1892.2	2.8313	2.9089	0.0776	7890.03	7914.03	24.00	41.0	200.7	260
18-Nov-16	Sunny	24.8	1014.2	1.314	1.314	1.314	1892.2	2.7963	2.9156	0.1193	7914.03	7938.03	24.00	63.0	200.7	260
24-Nov-16	Sunny	17.3	1018.6	1.314	1.314	1.314	1892.2	2.8568	2.8878	0.0310	7938.03	7962.03	24.00	16.4	200.7	260
30-Nov-16	Sunny	19.7	1022.3	1.314	1.314	1.314	1892.2	2.8376	2.9624	0.1248	7962.03	7986.03	24.00	66.0	200.7	260
6-Dec-16	Cloudy	23.3	1017.7	1.314	1.314	1.314	1892.2	2.7860	2.9129	0.1269	7986.03	8010.03	24.00	67.1	200.7	260
12-Dec-16	Rainy	21.1	1015.1	1.314	1.314	1.314	1892.2	2.8405	2.9189	0.0784	8010.03	8034.03	24.00	41.4	200.7	260
17-Dec-16	Cloudy	16.6	1023.2	1.314	1.314	1.314	1892.2	2.7630	2.8838	0.1208	8034.03	8058.03	24.00	63.8	200.7	260
23-Dec-16	Sunny	20.2	1019.0	1.314	1.314	1.314	1892.2	2.7800	2.8629	0.0829	8058.03	8082.03	24.00	43.8	200.7	260
29-Dec-16	Cloudy	15.9	1024.1	1.314	1.314	1.314	1892.2	2.7647	2.8590	0.0943	8082.03	8106.03	24.00	49.8	200.7	260
3-Jan-17	Sunny	20.0	1019.8	1.314	1.314	1.314	1892.2	2.7575	2.8608	0.1033	8106.03	8130.03	24.00	54.6	200.7	260
9-Jan-17	Sunny	20.6	1016.3	1.314	1.314	1.314	1892.2	2.7582	2.8703	0.1121	8130.03	8154.03	24.00	59.2	200.7	260
14-Jan-17	Cloudy	15.7	1017.9	1.314	1.314	1.314	1892.2	2.8172	2.9845	0.1673	8154.03	8178.03	24.00	88.4	200.7	260
20-Jan-17	Sunny	18.3	1022.4	1.314	1.314	1.314	1892.2	2.7963	2.9295	0.1332	8178.03	8202.03	24.00	70.4	200.7	260
26-Jan-17	Sunny	17.3	1024.3	1.314	1.314	1.314	1892.2	2.7521	2.8804	0.1283	8202.03	8226.03	24.00	67.8	200.7	260

Average for the reporting quarter (Nov 16 to Jan 17)	52.2
Minimum for the reporting quarter (Nov 16 to Jan 17)	16.4
Maximum for the reporting quarter (Nov 16 to Jan 17)	88.4



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 24-hour TSP Monitoring Results

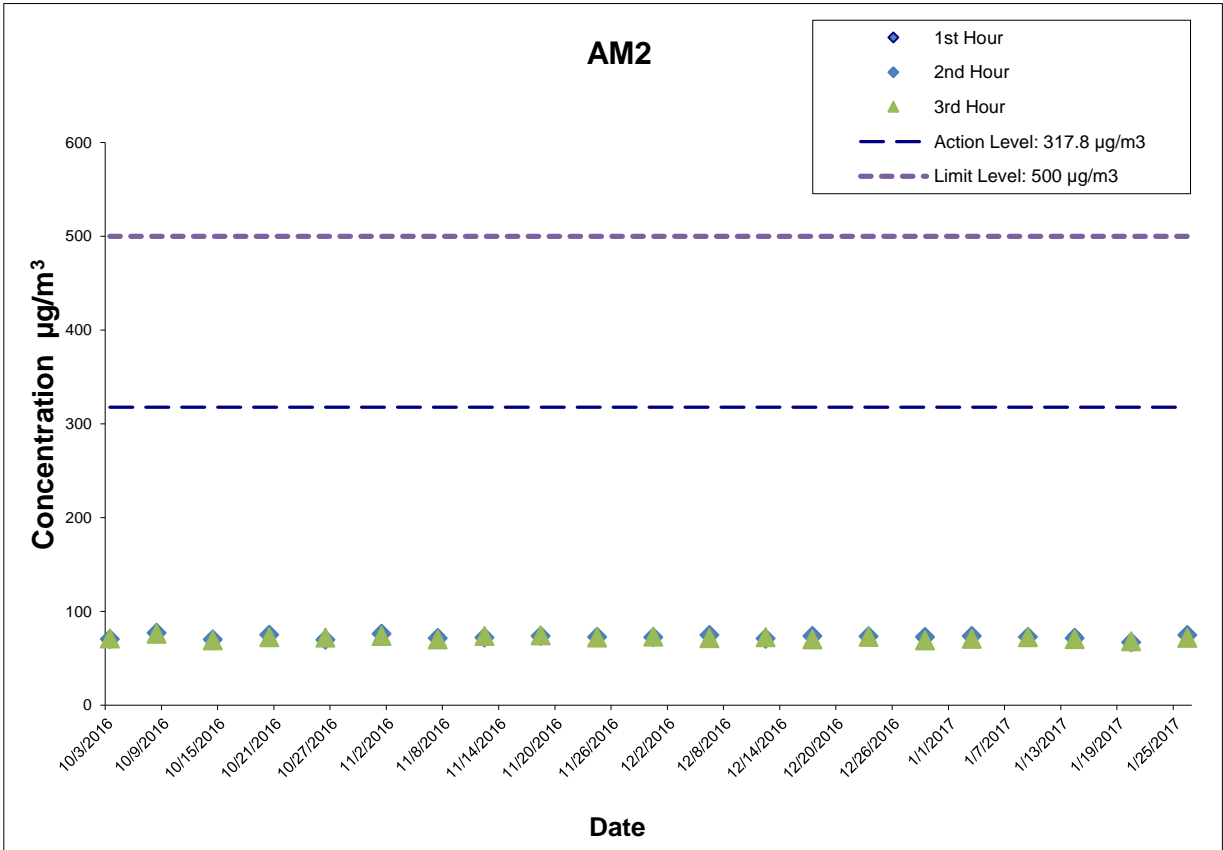
Project No.: 60307376 Date: Feb-17

Appendix E

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanning Government Secondary School)

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
3-Oct-16	11:58	72.0	70.6	71.3
8-Oct-16	10:22	75.6	77.2	76.4
14-Oct-16	12:39	68.9	70.2	69.1
20-Oct-16	13:10	74.3	75.2	72.5
26-Oct-16	11:10	71.6	70.0	72.4
1-Nov-16	13:40	78.2	76.4	73.9
7-Nov-16	14:10	73.8	71.6	70.4
12-Nov-16	10:30	74.1	72.2	73.8
18-Nov-16	10:14	74.3	73.8	74.6
24-Nov-16	14:15	71.2	73.1	72.2
30-Nov-16	12:17	73.1	72.6	73.3
6-Dec-16	13:05	73.3	74.8	71.5
12-Dec-16	10:30	68.6	71.2	72.6
17-Dec-16	10:30	73.3	74.0	70.4
23-Dec-16	12:12	72.8	73.5	73.1
29-Dec-16	13:10	70.6	72.8	69.2
3-Jan-17	13:15	72.2	74.1	70.9
9-Jan-17	9:30	72.8	73.1	72.6
14-Jan-17	10:40	74.2	71.5	70.7
20-Jan-17	9:50	66.6	67.2	68.3
26-Jan-17	11:45	73.3	75.1	71.8
Average for the reporting quarter (Nov 16 to Jan 17)				72.5
Minimum for the reporting quarter (Nov 16 to Jan 17)				66.6
Maximum for the reporting quarter (Nov 16 to Jan 17)				78.2



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Feb-17

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Daily Extract of Meteorological Observations , November 2016 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1019.7	24.8#	22.8	21.0#	17.8	74	***	***	***
02	1020.3	24.4#	21.7	19.7#	16.2	71	***	***	***
03	1019.2	23.5#	20.5	18.1#	14.7	70	***	***	***
04	1015.0	25.4#	20.7	16.6#	16.2	76	***	***	***
05	1012.7	25.6	22.1	18.8	19.5	85	***	***	***
06	1014.8	26.4	22.8	19.7	20.2	86	***	***	***
07	1016.3	27.3#	24.3	21.2#	21.8	86	***	***	***
08	1017.3	28.2#	24.4	21.0#	20.6	80	***	***	***
09	1019.7	20.9	19.0	17.0	16.2	84	***	***	***
10	1020.7	17.1	15.3	14.1	13.4	88	***	***	***
11	1019.0	20.6#	17.5	14.3#	14.9	84	***	***	***
12	1017.7	25.4#	22.9	20.2#	20.4	86	***	***	***
13	1016.7	27.2	24.5	22.8	22.1	87	***	***	***
14	1015.1	29.2#	25.1	21.9#	22.6	87	***	***	***
15	1015.5	29.2#	25.3	21.4#	22.0	83	***	***	***
16	1016.9	26.0	24.3	22.4	21.4	84	***	***	***
17	1016.3	27.3	24.5	22.5	20.9	81	***	***	***
18	1014.0	25.8	24.0	22.1	21.9	88	***	***	***
19	1012.8	26.2#	25.0	23.3#	22.0	84	***	***	***
20	1012.5	26.3	25.2	24.2	21.6	81	***	***	***
21	1012.6	24.9	24.3	23.3	21.9	86	***	***	***
22	1013.2	24.1#	22.2	21.1#	22.0	99	***	***	***
23	1016.3	21.3	19.5	14.6	19.0	97	***	***	***
24	1019.1	18.9	15.5	12.8	11.4	77	***	***	***
25	1016.7	20.5#	17.4	13.8#	14.4	83	***	***	***
26	1016.7	18.1	14.7	11.0	13.7	94	***	***	***
27	1017.3	18.6	14.5	10.7	11.7	84	***	***	***
28	1021.3	19.9	16.7	13.8	11.2	70	***	***	***
29	1022.7	19.0#	17.3	16.3#	12.1	71	***	***	***
30	1022.5	22.2	18.4	15.0	12.6	70	***	***	***

*** unavailable

data incomplete

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

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Daily Extract of Meteorological Observations , November 2016 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	24.2#	22.7	21.0#	***	***	0.0	040	14.3
02	***	24.9	21.7	19.5	***	***	0.0	050	16.7
03	***	23.9	20.4	18.5	***	***	0.0	050	13.0
04	***	26.1	21.3	17.4	***	***	0.0	280	4.5
05	***	26.7	22.6	19.8	***	***	0.0	280	5.0
06	***	26.4	23.1	20.9	***	***	0.0	070	8.2
07	***	27.0	24.1	22.0	***	***	0.0	060	10.8
08	***	28.6	24.0	19.0	***	***	0.0	050	13.2
09	***	20.4	19.0	17.1	***	***	1.0	050	11.9
10	***	17.2	15.7	13.9	***	***	6.0	060	7.1
11	***	21.2	18.0	14.9	***	***	0.5	260	5.5
12	***	25.4	22.8	20.5	***	***	0.0	050	11.0
13	***	26.7#	24.1	22.6#	***	***	0.0	060	9.9
14	***	30.2	25.1	22.3	***	***	0.0	060	4.1
15	***	29.9	25.0	22.4	***	***	0.0	090	11.3
16	***	26.2#	24.0	22.3#	***	***	0.0	100	18.3
17	***	26.9	24.0	22.0	***	***	0.0	060	12.9
18	***	26.4	23.7	22.0	***	***	1.0	060	10.3
19	***	25.5	24.5	23.4	***	***	2.5	060	11.0
20	***	26.0	24.9	24.1	***	***	0.0	100	18.2
21	***	24.8	23.8	23.2	***	***	0.5	090	15.9
22	***	23.5#	22.5#	22.0#	***	***	4.0#	060#	13.9#
23	***	***	***	***	***	***	***	***	***
24	***	***	***	***	***	***	***	***	***
25	***	***	***	***	***	***	***	***	***
26	***	***	***	***	***	***	***	***	***
27	***	***	***	***	***	***	***	***	***
28	***	19.0#	17.8#	16.9#	***	***	0.0#	020#	11.5#
29	***	20.5#	18.1	16.9#	***	***	0.0	040	10.8
30	***	21.4#	18.9	16.7#	***	***	0.0	040	16.8

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data incomplete

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

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Daily Extract of Meteorological Observations , December 2016 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1022.3	22.1#	18.1	14.2#	12.5	70	***	***	***
02	1022.7	22.0	19.2	15.8	14.6	75	***	***	***
03	1021.0	21.9	20.4	18.3	16.6	79	***	***	***
04	1018.0	26.0	21.7	19.2	18.1	80	***	***	***
05	1017.6	26.3	22.6	20.5	19.1	81	***	***	***
06	1020.8	22.6	19.7	17.4	11.0	58	***	***	***
07	1019.1	22.2	18.7	15.7	11.9	65	***	***	***
08	1016.5	22.0#	17.5	13.5#	11.1	67	***	***	***
09	1015.4	22.4#	17.6	13.0#	12.6	74	***	***	***
10	1016.4	24.3	20.1	15.7	15.6	77	***	***	***
11	1016.5	21.7	20.5	19.3	16.3	77	***	***	***
12	1015.1	24.0	21.0	18.7	17.1	79	***	***	***
13	1014.4	26.1	22.1	18.8	18.3	80	***	***	***
14	1018.3	22.9	20.5	17.7	14.3	68	***	***	***
15	1022.9	20.1	17.1	13.8	9.8	62	***	***	***
16	1025.9	16.8	13.6	10.8	6.8	64	***	***	***
17	1023.4	18.7	15.4	10.5	9.7	70	***	***	***
18	1021.6	23.3	19.1	16.2	14.9	77	***	***	***
19	1018.4	23.4	19.9	16.7	15.2	76	***	***	***
20	1017.3	24.2	20.8	17.8	17.4	82	***	***	***
21	1016.8	22.0	20.9	19.4	20.1	96	***	***	***
22	1017.0	25.0	21.4	17.1	17.0	78	***	***	***
23	1019.2	21.4	18.7	16.4	14.1	75	***	***	***
24	1019.3	19.4#	17.5	15.6#	14.3	81	***	***	***
25	1018.4	20.4	19.3	18.2	16.4	83	***	***	***
26	1017.0	24.7#	21.2	18.7#	17.9	82	***	***	***
27	1021.2	20.2#	15.6	11.4#	7.5	59	***	***	***
28	1023.5	15.3#	12.9	9.5#	4.9	59	***	***	***
29	1024.4	17.3#	14.8	12.2#	5.6	55	***	***	***
30	1024.6	18.7	15.1	12.6	7.3	60	***	***	***
31	1023.0	21.7#	17.6	13.2#	12.8	75	***	***	***

*** unavailable

data incomplete

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

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Daily Extract of Meteorological Observations , December 2016 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	22.8	18.5	15.0	***	***	0.0	040	6.6
02	***	21.6	19.3	16.7	***	***	0.0	040	10.3
03	***	22.2	20.4	18.6	***	***	0.0	040	10.8
04	***	25.2	21.7	19.4	***	***	0.0	260	3.1
05	***	25.4#	22.5	20.8#	***	***	0.0	260	4.6
06	***	22.2	19.5	18.0	***	***	0.0	040	15.9
07	***	22.9	19.1	16.3	***	***	0.0	050	7.8
08	***	21.3#	18.0	15.1#	***	***	0.0	040	10.1
09	***	21.9	18.2	14.9	***	***	0.0	100	6.9
10	***	23.3#	20.0	16.8#	***	***	0.0	050	12.4
11	***	22.1#	19.9	18.0#	***	***	0.0	100	21.6
12	***	23.7#	20.4	18.3#	***	***	0.0	080	12.3
13	***	25.8#	22.3	19.3#	***	***	0.0	260	5.5
14	***	22.7#	19.9	17.1#	***	***	0.0	040	16.6
15	***	19.2#	16.5	13.2#	***	***	0.0	040	15.3
16	***	16.2#	13.6	10.9#	***	***	0.0	040	13.0
17	***	18.3#	15.6	11.5#	***	***	0.0	040	12.8
18	***	23.0	18.8	16.6	***	***	0.0	050	10.8
19	***	23.2#	19.8	17.1#	***	***	0.0	060	9.8
20	***	23.8#	20.8	18.6#	***	***	0.0	070	7.0
21	***	22.1#	20.9	20.1#	***	***	5.0	050	6.9
22	***	24.6#	21.1	17.2#	***	***	0.0	040	11.1
23	***	20.7#	18.4	16.4#	***	***	0.0	050	12.0
24	***	18.7	16.9	15.3	***	***	1.0	040	16.2
25	***	19.6#	18.8	18.0#	***	***	0.0	090	16.5
26	***	24.5	21.2	18.7	***	***	0.0	090	6.3
27	***	21.2	14.9	10.9	***	***	0.0	030	24.0
28	***	15.4#	12.9	9.2#	***	***	0.0	040	11.3
29	***	17.6#	14.8	12.3#	***	***	0.0	040	13.5
30	***	18.4#	15.5	13.1#	***	***	0.0	040	8.1
31	***	21.2#	17.6	14.1#	***	***	0.0	040	11.9

*** unavailable

data incomplete

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

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Daily Extract of Meteorological Observations , January 2017 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1021.8	22.0	19.2	17.5	15.9	81	***	***	***
02	1020.3	24.7	19.8	16.3	16.4	83	***	***	***
03	1019.7	22.1	19.3	16.6	17.0	87	***	***	***
04	1018.6	23.1#	20.0	17.8#	16.6	81	***	***	***
05	1016.8	24.3	20.4	17.0	17.9	86	***	***	***
06	1015.1	25.4	21.2	17.4	17.9	83	***	***	***
07	1013.8	24.6	21.2	19.6	18.0	82	***	***	***
08	1013.3	26.1#	22.2	18.7#	18.3	79	***	***	***
09	1016.2	22.6	19.8	18.0	16.1	80	***	***	***
10	1018.1	20.9#	19.3	18.2#	16.0	81	***	***	***
11	1018.1	20.3	18.9	17.9	15.8	82	***	***	***
12	1015.8	19.1	17.6	13.4	14.6	82	***	***	***
13	1016.5	15.0	13.5	12.0	10.9	85	***	***	***
14	1018.5	15.3	13.6	12.1	12.5	93	***	***	***
15	1021.0	15.1	13.9	12.9	12.8	93	***	***	***
16	1020.7	17.6	15.2	12.6	12.8	86	***	***	***
17	1021.2	19.0	17.7	16.3	13.8	78	***	***	***
18	1021.3	19.9	18.4	17.4	16.7	90	***	***	***
19	1020.1	23.0	20.3	18.0	18.0	87	***	***	***
20	1022.9	20.0	17.2	14.5	11.0	67	***	***	***
21	1025.5	19.8	16.0	12.4	10.1	69	***	***	***
22	1026.3	19.8	15.0	10.7	7.6	63	***	***	***
23	1025.9	20.1	15.9	12.5	10.8	73	***	***	***
24	1025.6	20.1	17.0	15.4	12.0	73	***	***	***
25	1025.7	21.4	17.8	14.8	13.4	76	***	***	***
26	1024.6	20.5	17.0	14.9	11.7	72	***	***	***
27	1022.8	22.7	17.4	13.6	11.5	70	***	***	***
28	1018.8	19.4	16.8	14.5	13.5	81	***	***	***
29	1016.7	21.6	19.4	17.9	17.7	90	***	***	***
30	1018.2	22.6	20.0	16.8	18.6	92	***	***	***
31	1020.4	17.3	16.3	15.2	14.3	88	***	***	***

*** unavailable

data incomplete

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

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Daily Extract of Meteorological Observations , January 2017 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	22.1#	18.9	17.3#	***	***	0.0	060	13.8
02	***	24.4	19.9	16.9	***	***	0.0	110	7.3
03	***	22.5#	19.3	17.0#	***	***	0.0	090	10.2
04	***	22.9#	19.6	17.3#	***	***	0.0	110	11.0
05	***	24.3#	20.6	17.6#	***	***	0.0	080	3.8
06	***	25.6#	20.9	18.0#	***	***	0.0	070	9.3
07	***	24.5	20.7	18.6	***	***	0.0	070	10.6
08	***	26.7	22.0	19.0	***	***	0.0	250	5.3
09	***	23.1	19.8	18.3	***	***	0.0	100	11.0
10	***	21.2#	19.0	17.7#	***	***	0.0	090	18.7
11	***	20.5#	18.6	17.1#	***	***	0.0	090	15.9
12	***	19.6#	17.6	14.3#	***	***	0.0	040	10.2
13	***	14.6#	13.7	12.9#	***	***	0.5	050	5.2
14	***	15.7#	14.1	12.5#	***	***	1.0	040	9.9
15	***	15.2#	14.1	12.7#	***	***	3.0	040	12.2
16	***	17.0#	15.3	13.0#	***	***	0.5	050	16.9
17	***	19.4#	17.4	15.7#	***	***	0.0	080	15.9
18	***	20.0#	18.4	17.3#	***	***	0.0	050	7.0
19	***	23.9#	20.1	18.0#	***	***	0.0	070	5.7
20	***	22.1	16.8	14.2	***	***	0.0	040	15.9
21	***	20.5	16.1	13.0	***	***	0.0	010	11.0
22	***	20.1	15.5	12.0	***	***	0.0	040	10.0
23	***	19.8#	16.0	12.9#	***	***	0.0	100	13.6
24	***	20.6#	16.7	14.6#	***	***	0.0	100	18.3
25	***	22.6#	17.4	14.7#	***	***	0.0	110	13.2
26	***	20.4#	16.5	13.9#	***	***	0.0	050	13.0
27	***	22.7#	17.0	13.6#	***	***	0.0	050	10.6
28	***	19.6#	16.6	14.8#	***	***	0.0	080	9.4
29	***	22.8#	19.3	17.3#	***	***	3.0	050	10.4
30	***	23.2	19.8	16.4	***	***	0.5	270	9.0
31	***	17.7	15.9	14.3	***	***	0.0	030	13.2

*** unavailable

data incomplete

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

**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
3-Oct-16	13:50	70.1	73.2	68.4	75	N
14-Oct-16	13:30	69.9	71.5	67.2	75	N
20-Oct-16	14:02	70.3	72.0	67.5	75	N
26-Oct-16	13:00	69.6	72.0	68.0	75	N
1-Nov-16	14:18	63.6	67.2	58.6	75	N
7-Nov-16	14:10	69.2	73.1	65.6	75	N
18-Nov-16	11:02	69.2	70.5	65.5	75	N
24-Nov-16	15:10	70.1	73.2	66.5	75	N
30-Nov-16	13:30	69.4	71.0	66.0	75	N
6-Dec-16	14:00	68.9	70.5	66.3	75	N
12-Dec-16	11:20	69.2	71.0	67.0	75	N
23-Dec-16	14:08	69.0	70.2	65.9	75	N
29-Dec-16	11:10	69.2	72.4	66.5	75	N
3-Jan-17	14:15	68.1	69.8	65.0	75	N
9-Jan-17	10:15	70.2	71.8	68.3	75	N
20-Jan-17	13:00	68.5	70.0	66.0	75	N
26-Jan-17	13:03	68.8	70.3	66.3	75	N
Minimum for Nov 16 to Jan 17		63.6	67.2	58.6		
Maximum for Nov 16 to Jan 17		70.2	73.2	68.3		
Average for Nov 16 to Jan 17		68.9	71.1	66.0		

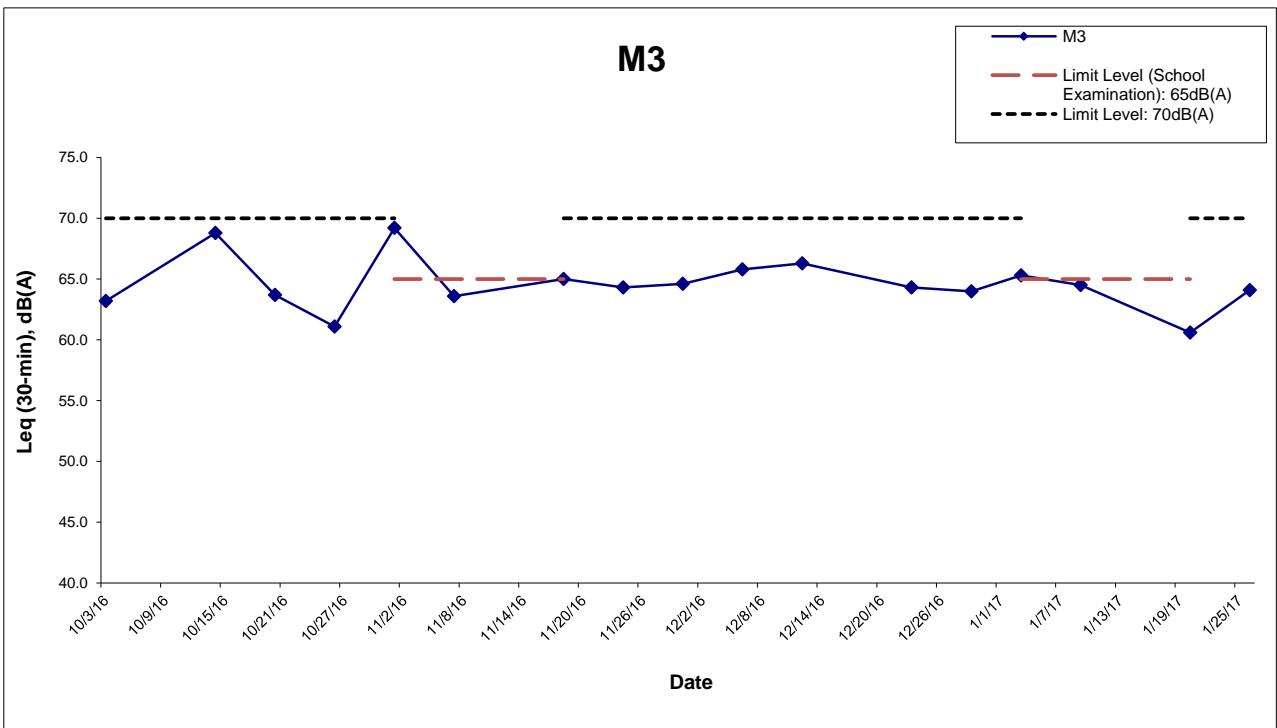
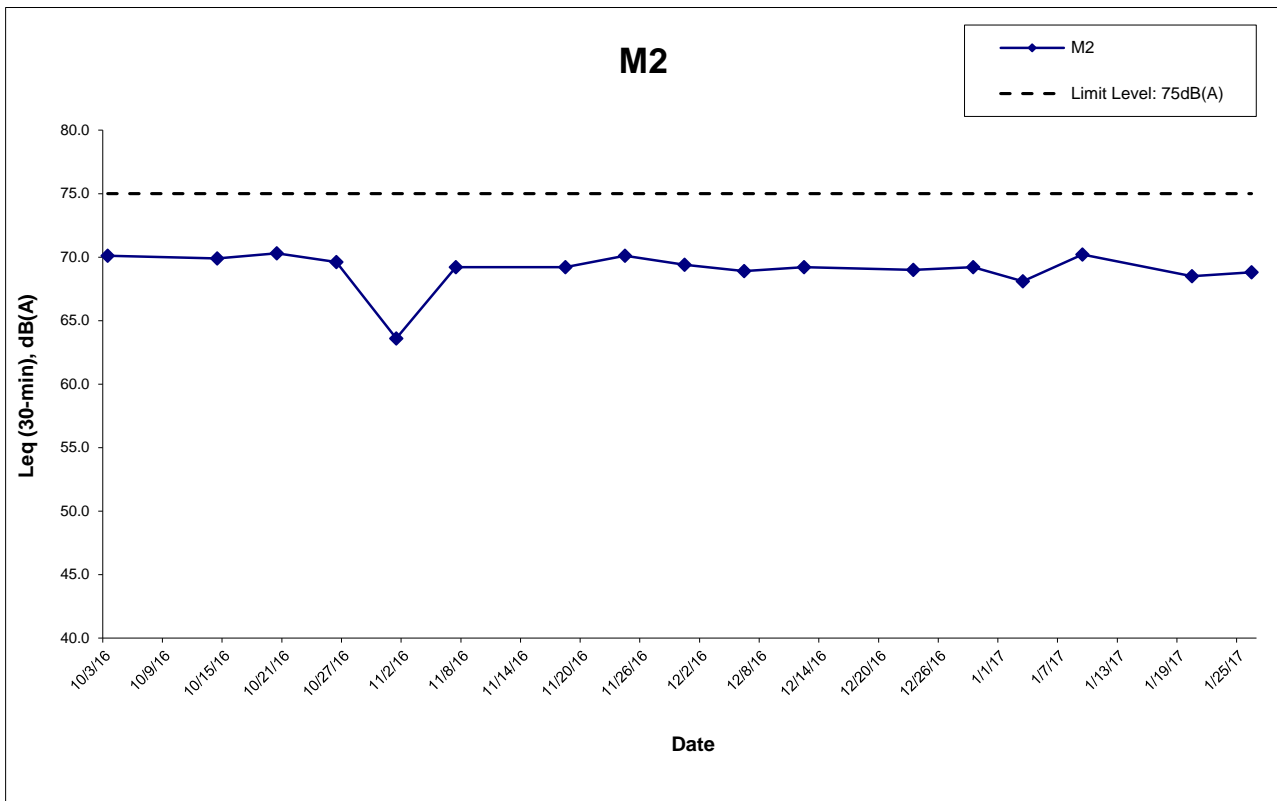
Location : M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
3-Oct-16	14:00	63.2	66.2	58.6	70	N
14-Oct-16	14:29	68.8	70.2	66.5	70	N
20-Oct-16	13:13	63.7	65.5	61.5	70	N
26-Oct-16	11:10	61.1	62.5	58.5	70	N
1-Nov-16	13:29	69.2	71.8	66.8	70	N
7-Nov-16	13:18	63.6	67.3	59.2	65	N
18-Nov-16	10:14	65.0	66.5	61.5	70	N
24-Nov-16	14:15	64.3	67.8	60.2	70	N
30-Nov-16	14:12	64.6	66.0	61.0	70	N
6-Dec-16	13:05	65.8	67.2	63.3	70	N
12-Dec-16	10:25	66.3	67.9	63.8	70	N
23-Dec-16	15:01	64.3	65.1	62.2	70	N
29-Dec-16	13:12	64.0	66.8	60.5	70	N
3-Jan-17	13:20	65.3	66.7	62.1	70	N
9-Jan-17	9:30	64.5	65.7	62.5	65	N
20-Jan-17	9:50	60.6	61.5	57.0	70	N
26-Jan-17	14:05	64.1	65.8	61.9	70	N
Minimum for Nov 16 to Jan 17		60.6	61.5	57.0		
Maximum for Nov 16 to Jan 17		69.2	71.8	66.8		
Average for Nov 16 to Jan 17		65.1	67.2	62.3		

* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Remark:

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact Daytime Construction Noise
 Monitoring Results

Project No.: 60307376

Date: Feb-17

Appendix G

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	1	6
	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed		
	23 October 2014	EPD referred an air complaint on 24 October 2014. A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house. The resident also complained that the stockpiles have not been	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	covered and watered properly. He now requires the EPD to follow up. The location of complaint is near Lamppost Location EB5717.			
31 December 2014	EPD referred a water complaint on 31 December 2014. The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.	Closed		
25 March 2015	EPD referred a water complaint on 25 March 2015. The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses. The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.	Closed		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
	5 January 2017 (Referred by the Contractor on 13 January 2017)	<p>A complaint was received by the 1823 enquiry and complaint hotline on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017.</p> <p>The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village.</p> <p>The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.</p>	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0