

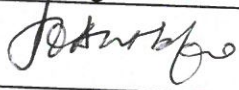
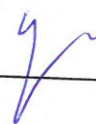
Environmental Protection Department

Contract No. HY/2012/06

Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange

Quarterly EM&A Report
for November 2014 to January 2015

[02/2015]

	Name	Signature
Prepared & Checked:	Joanne Ko	
Reviewed & Approved:	Y W Fung	

Version:	Rev. 0	Date: 18 February 2015
Disclaimer		
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Wanchai, Hong Kong

18 February 2015
By Fax (2805 5028) & Post

Dear Sir,

Attn: Mr. James Penny

**EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)
Environmental Permit No. EP-324/2008/B
Quarterly EM&A Summary Report for November 2014 to January 2015 for the portion of Stage 2 works under Contract No. HY/2012/06**

We refer to the Quarterly EM&A Summary Report for November 2014 to January 2015 for the Project received on 16 and 17 February 2015 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

A handwritten signature in blue ink, appearing to read "Terence Kong".

Terence Kong
Independent Environmental Checker

c.c. HyD – Mr. Chung Lok Chin / Mr. Tang Man Kai (Fax: 2714 5198)
AECOM – Mr. Y W Fung (Fax:2891 0305)

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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/A) 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 2014 and 31 January 2015. As informed by the Contractor, construction activities in the reporting period were:

- Site clearance;
- Ground investigation;
- Tree felling and transplanted;
- Piling works;
- Pipe laying;
- Retaining wall construction;
- Excavation;
- Backfilling;
- Drainage;
- Temporary bridge construction;
- Box culvert construction;
- Noise barrier construction;
- Houses demolition; and
- Soil nail.

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

One (1) Limit Level exceedance was recorded on 15 January 2015 for noise monitoring at M3 in the reporting period. The exceedance was considered non-project-related.

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	Terence Kong	2828 5919	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;
- Tree felling and transplanted;
- Piling works;
- Pipe laying;
- Retaining wall construction;
- Excavation;
- Backfilling;
- Drainage;
- Temporary bridge construction;
- Box culvert construction;
- Noise barrier construction;
- Houses demolition; and
- Soil nail.

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, with several fine and cloudy days 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)	77.5	66.6 – 83.2	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)	61.1	17.7 – 157.8	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))	Range (dB(A))	Limit Level (dB(A))
	L_{eq} (30 mins)	L_{eq} (30 mins)	L_{eq} (30 mins)
M2*	68.9	64.7 – 70.3	75
M3#	63.5	60.0 – 66.7	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 Level exceedance of construction noise was recorded in the reporting period, since no noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.
- 4.1.5 One (1) Limit Level exceedance was recorded on 15 January 2015 for noise monitoring at M3 in the reporting period. The exceedance was considered non-project-related.
- 4.1.6 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, 4,643 m³ of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0m³ was broken concrete), while 490 m³ of general refuse was disposed of at NENT landfill. 171 kg of paper/cardboard packaging, 0 kg of plastics and 0 kg of metals were collected by recycling contractors in the reporting period. 2,002 m³, 1,761 m³, and 880 m³ of inert C&D materials were reused on site, in other projects and in NENT for backfilling purpose respectively. 0kg of chemical wastes was 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	4,643 m ³ (of which 0m ³ was broken concrete)	Tuen Mun 38
General refuse	490 m ³	NENT Landfill
Paper/cardboard packaging	171 kg	Recycling Contractors
Plastics	0kg	Recycling Contractors
Metals	0kg	Recycling Contractors
C&D materials reused on site	2,002 m ³	Site Area
C&D materials reused in other projects	1,761 m ³	Other projects
C&D materials reused in NENT for backfilling	880 m ³	NENT Landfill
Chemical wastes	0kg	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 Level exceedance of construction noise was recorded in the reporting period, since no noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.
- 6.1.3 One (1) Limit Level exceedance was recorded on 15 January 2015 for noise monitoring at M3 in the reporting period. The exceedance was considered non-project-related.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 One (1) water-related complaint was received on 31 December 2014 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for December 2014.
- 7.1.2 No notification of summons and 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, fencings 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 quarter, the following comments are made to the Contractor for precautionary and rectification purposes:

Air Quality Impact

- 8.1.2 The Contractor should spray the stockpiles with water or cover them entirely by tarpaulin for dust suppression.
- 8.1.3 The Contractor was reminded to enhance the water spraying frequency for dust suppression.
- 8.1.4 The Contractor was reminded to set up watering facilities as soon as possible and enhance the water spraying frequency to suppress dust. (Reminder)

Construction Noise Impact

- 8.1.5 The Contractor was reminded to wrap the breaking tip of the breaker with sound-proof materials to minimize noise generation during breaking activities. (Reminder)

Water Quality Impact

- 8.1.6 The Contractor was reminded to cover the slope entirely with tarpaulin to prevent soil from depositing in drainage systems. (Reminder)

Chemical and Waste Management

- 8.1.7 The Contractor should clear the oil stains, and inspect and maintain the machine whenever necessary.
- 8.1.8 The Contractor should clear general refuse regularly and provide receptacles for general refuse collection to maintain site hygiene.
- 8.1.9 The Contractor should clear the refuse regularly to maintain site hygiene and tidiness.

Landscape and Visual Impact

- 8.1.10 No adverse observation was identified in the reporting period.

Miscellaneous

- 8.1.11 The Contractor should clear the stagnant water to prevent mosquito breeding.

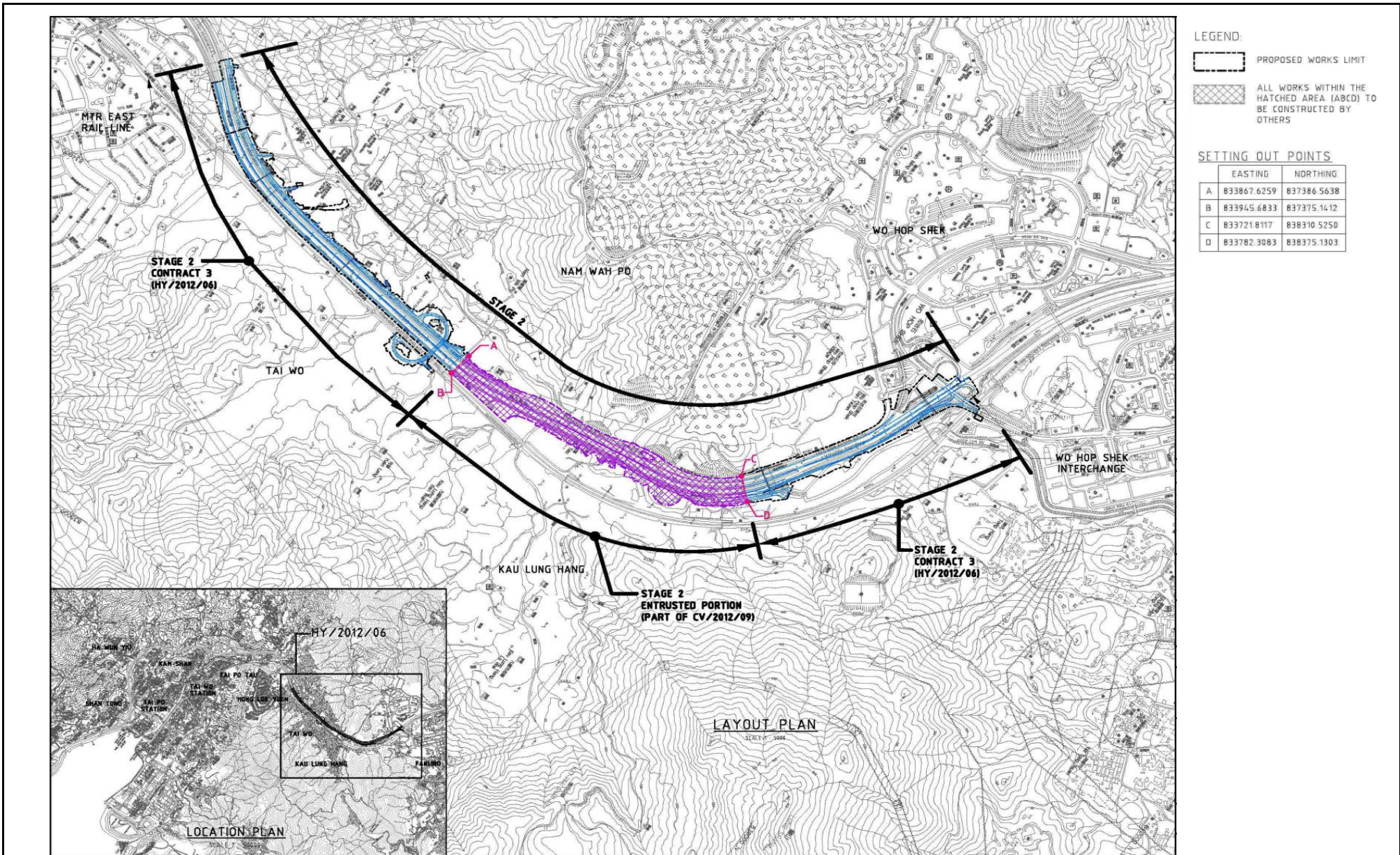
8.2 Recommendations

- 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 Level exceedance of construction noise was recorded in the reporting period, since no noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by Environmental Team in the reporting period.
- 8.3.3 One (1) Limit Level exceedance was recorded on 15 January 2015 for noise monitoring at M3 in the reporting period. The exceedance was considered non-project-related.
- 8.3.4 One (1) water-related complaint was received on 31 December 2014 and followed up by the Environmental Team in the reporting period. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for December 2014.
- 8.3.5 No notification of summons and successful prosecution was received in the reporting period.

FIGURES



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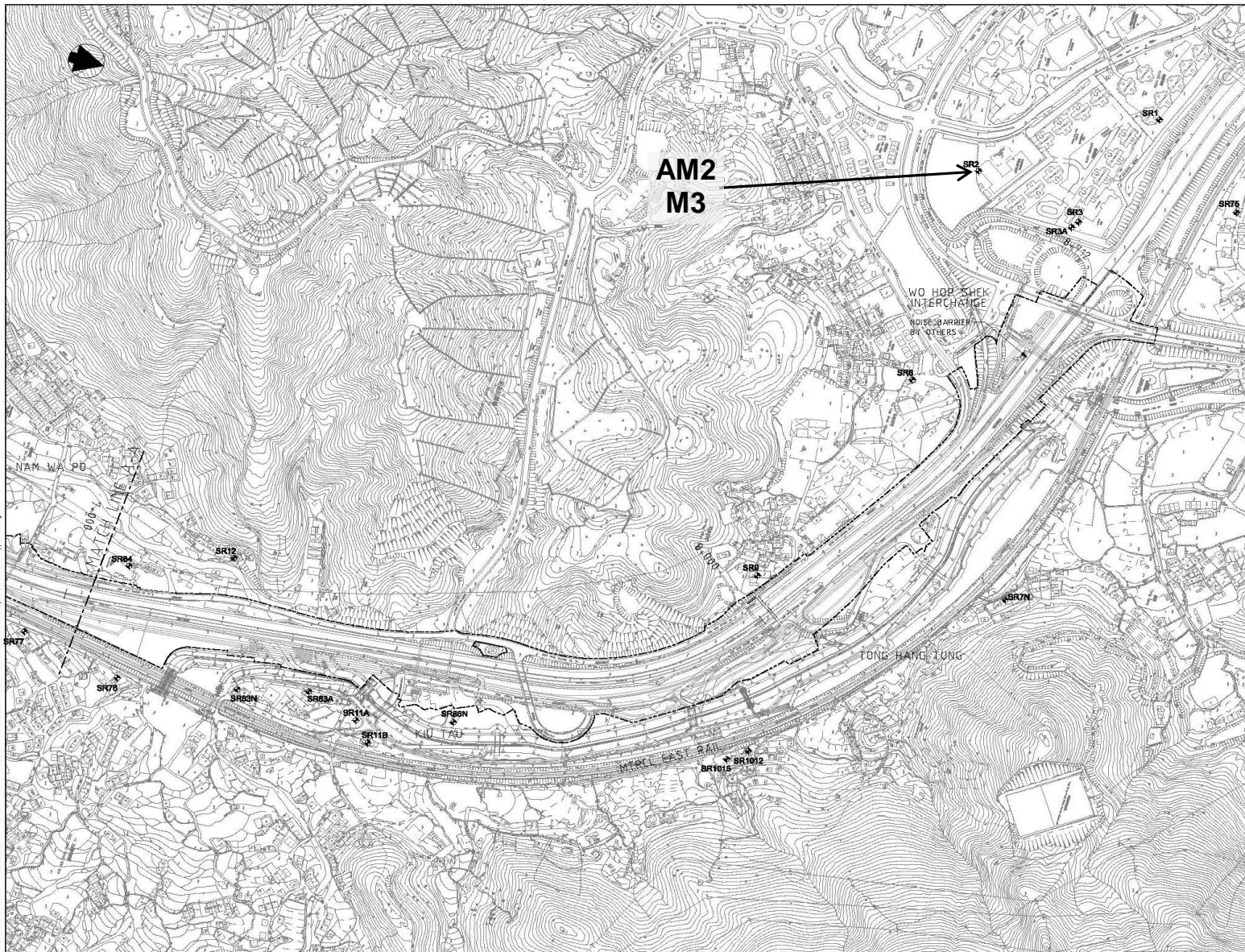
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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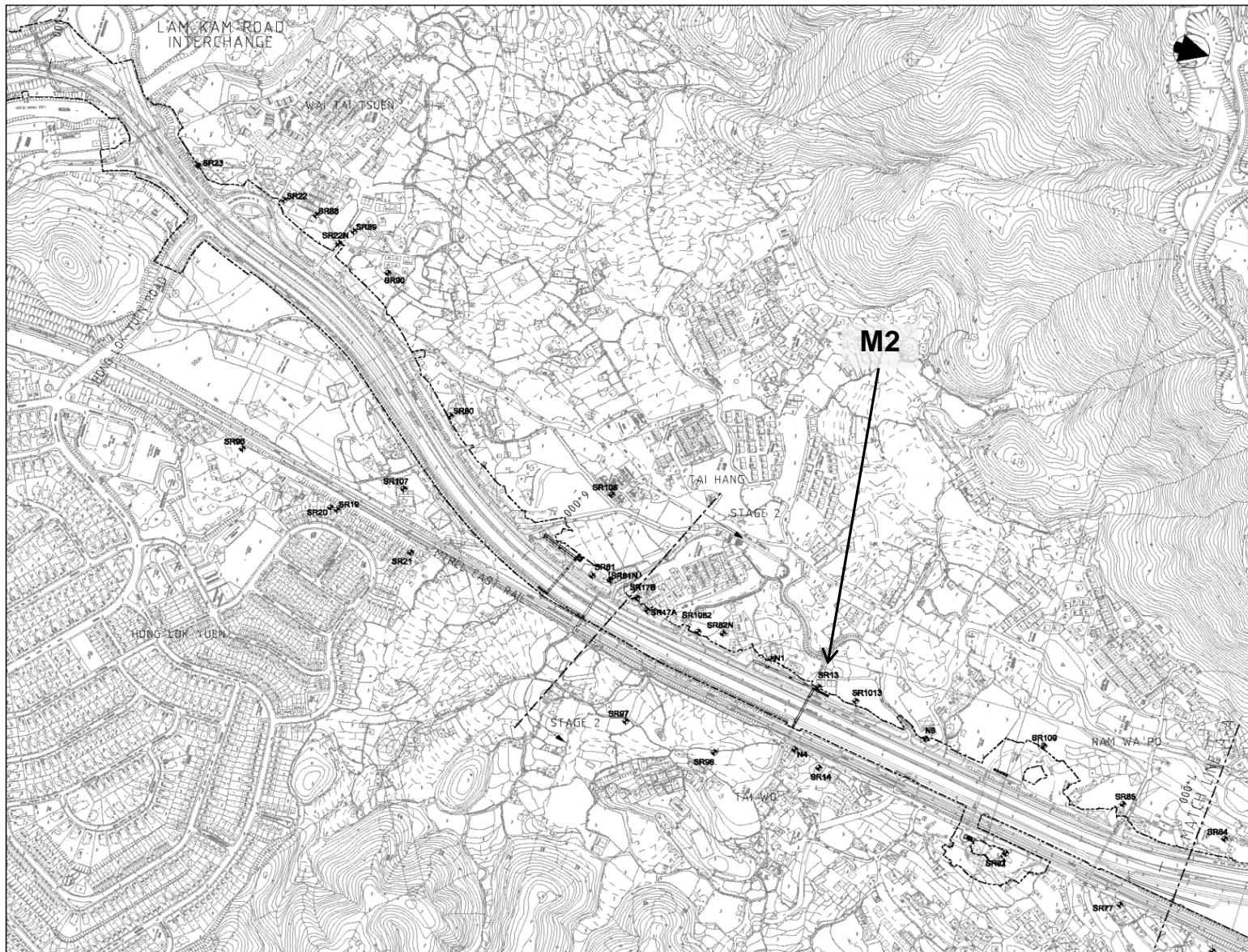
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 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.2a



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 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

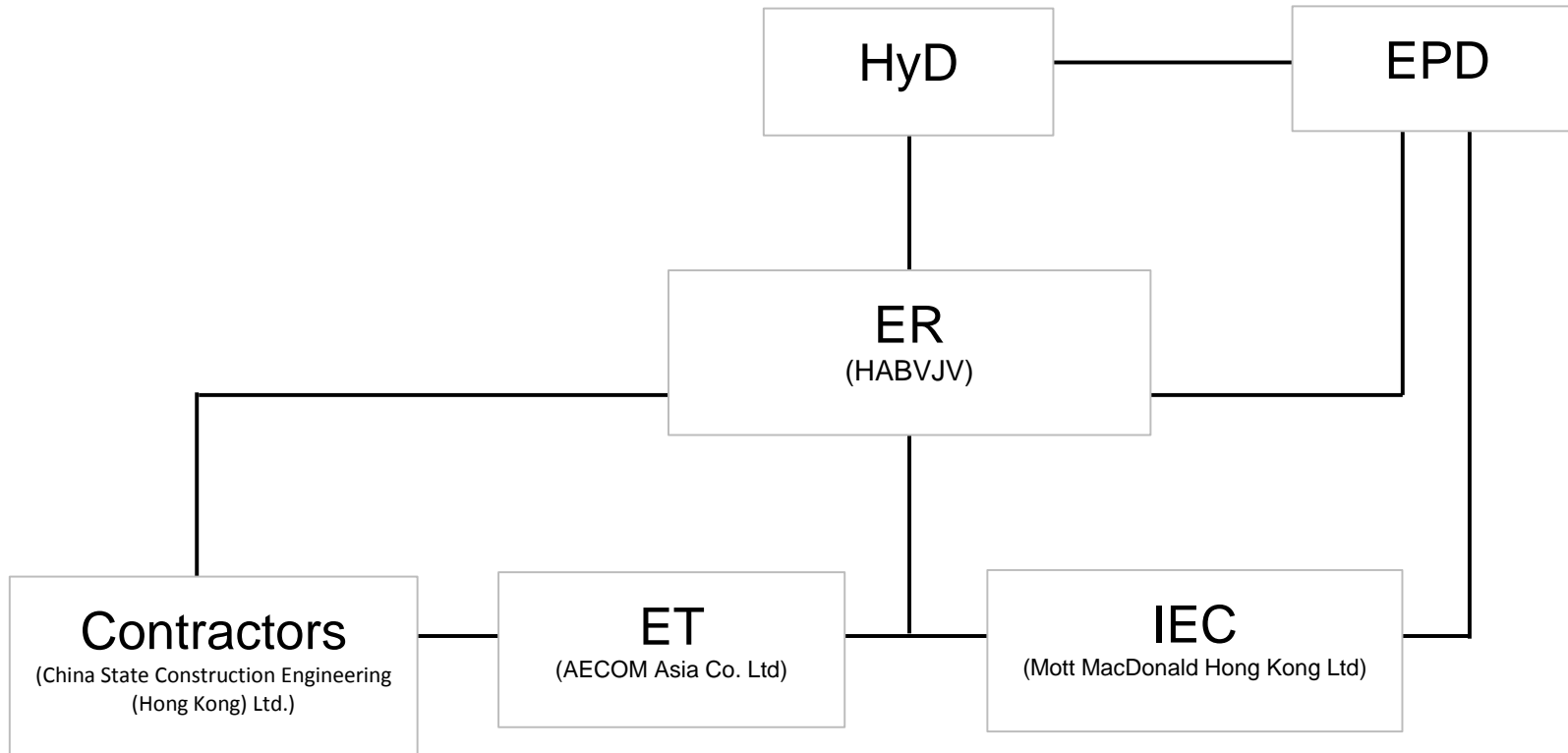


Locations of Monitoring Station

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**

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015							
								Nov	Dec	Jan	Feb	Nov	Dec	Jan	Feb				
Contract Condition																			
General																			
Contract Condition																			
Contract Condition																			
POSSA310	Site Area SA 310 (395d)	0%	0	0	20-Nov-14*		-96												
POSSA320B	Site Area SA320B (0d)	0%	0	0	01-Jan-15*		0												
POSSA321	Site Area SA321 (120d)	0%	0	0	01-Jan-15*		0												
POSSA322A	Site Area SA322A (180d)	0%	0	0	01-Jan-15*		0												
POSSA322B	Site Area SA322B (180d)	0%	0	0	01-Jan-15*		0												
POSSA323	Site Area SA323 (360d)	0%	0	0	20-Nov-14*		-51												
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Nov-14*		-130												
POSSA327	Site Area SA327 (180d)	0%	0	0	01-Jan-15*		0												
Partial Possession Status																			
Contract Condition																			
Contract Condition																			
POSSA320-180	SA320/326	0%	0	0	20-Nov-14		-184												
ZONE 1 (Ch. 5640 to 5880)																			
Noise Barrier Along TWSR-West and Laying New Utilities																			
Site Clearance & Demolition of Existing Structure																			
General																			
ADVZ10100	Site clearance (Additional Transplant - pending for VO)	6.67%	28	30	30-May-14 A	22-Dec-14	-18												
NB42 (Ch.5640-5740)-TWSR West Side																			
Noise Barrier Works																			
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure	0%	45	45	20-Jan-15	20-Mar-15	60												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10100	Sheet Piling & Excavation(~5m below ground) (along NB42)	0%	21	21	23-Dec-14	19-Jan-15	45												
TSZ10130	Watermain installation (along NB42)	0%	30	30	20-Jan-15	03-Mar-15	45												
NB42A (Ch.5750-5810)-TWSR West Side																			
Noise Barrier Works																			
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	16-Jan-15	27-Feb-15	-18												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10150	Sheet Piling & Excavation(~5m below ground) (along NB42A)	0%	18	18	23-Dec-14	15-Jan-15	-18												
ZONE 2 (Ch. 5880 to 6930)																			
Noise Barrier Along TWSR-West and Laying New Utilities																			
Site Clearance & Demolition of Existing Structure																			
Demolition Work																			
Z2.P2N.1245	Method statement submission/ approval	80%	12	60	24-Jul-14 A	03-Dec-14	994												
Z2.P2N.1250	Construction of proposed SHRINE	0%	165	165	04-Dec-14	03-Jul-15	994												
NB47 (Ch.5880-5930)-TWSR West Side																			
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10250	Sheet Piling & Excavation(~6m below ground) (along NB47)	0%	18	18	02-Jan-15	22-Jan-15	-317												
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	23-Jan-15	12-Feb-15	-317												
TSZ10270	Backfill up to NB47 footing level	0%	16	16	13-Feb-15	11-Mar-15	-317												
NB48 (Ch.5995-6120)-TWSR West Side																			
Noise Barrier Works																			
NB00415	NB48 (NB48/5-10) Pre-drilling	0%	64	64	02-Jan-15	25-Mar-15	-91												
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10400	Sheet Piling & Excavation(~5m below ground) (along NB48, 0-60m)	0%	21	21	20-Nov-14	13-Dec-14	-72												
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	15-Dec-14	07-Jan-15	-72												
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	32	32	08-Jan-15	13-Feb-15	-72												
TSZ10430	Watermain installation (along NB48, 0-60m)	0%	30	30	14-Feb-15	28-Mar-15	-62												
NB49 (Ch.6145-6215)-TWSR West Side																			
Noise Barrier Works																			
NB00485	NB49 - Pre-drilling	34%	33	50	03-Nov-14 A	30-Dec-14	-31												
NB54 (Ch.6240-6280)-TWSR West Side																			
Noise Barrier Works																			
NB00605	NB54 - ID2-1 Pre-drilling (Deleted notified on 14-5, VO issued)	0%	0	0	20-Nov-14	20-Nov-14	-51												
NB00665	NB54 -Pre-drilling	0%	24	24	15-Nov-14 A	17-Dec-14	-75												
NB54A (Ch.6290-6350)-TWSR West Side																			
Noise Barrier Works																			
NB00730	NB54A -Pre-drilling	41.67%	21	36	26-Feb-14 A	13-Dec-14	-2												
NB00740	NB54A piling (0.19m -72no)	6.48%	101	108	05-May-14 A	28-Mar-15	-22												
NB57 (Ch.6365-6445)-TWSR West Side																			
DSD Southern Trunk Sewer, Water Main Fire Main Works																			
TSZ10700	Sheet Piling & Excavation(~5m below ground) (along NB57)	0%	21	21	20-Nov-14	13-Dec-14	-81												
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	15-Dec-14	07-Jan-15	-81												
TSZ10720	Backfill up to NB57 footing level	0%	20	20	08-Jan-15	30-Jan-15	-81												
TSZ10730	Watermain installation (along NB57)	0%	30	30	31-Jan-15	14-Mar-15	-39												
NB58 (Ch.6445-6480)-TWSR West Side																			
Noise Barrier Works																			
NB00875	Pending for RSS revised detail of NB58 - piling	0%	14	14	03-Sep-14 A	05-Dec-14	1907												
NB59 (Ch.6490-6590)-TWSR West Side																			

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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-Nov-14)



Date	Revision	C.	App...
22-Jan-14	IWP Rev 4		
26-Feb-14	IWP Rev 5		
13-May...	WP Rev 1		
30-Jun-14	WP Rev...		

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015			
								Nov	Dec	Jan	Feb	Nov	Dec	Jan	Feb
Noise Barrier Works															
NB00950	NB59 - piling (0.19m -94no)	0%	144	144	20-Nov-14	22-May-15	-184								
NB63 (Ch.6610-6700)-TWSR West Side															
Noise Barrier Works															
NB01020	NB63 - Footing & Wall Structure	43.33%	34	60	23-Jun-14 A	31-Dec-14	-201								
NB01040	NB63 - NB production	0%	45	45	01-Jan-15	14-Feb-15	1366								
NB4560	NB63 - ID3-1 Footing & Wall Structure	66.67%	20	60	14-Jun-14 A	12-Dec-14	-187								
DSD Southern Trunk Sewer, Water Main Fire Main Works															
TSZ10300	Sheet Piling & Excavation (~7m below ground) (along NB63)	0%	12	12	02-Jan-15	15-Jan-15	-201								
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	16-Jan-15	05-Feb-15	-201								
TSZ10330	Watermain installation (along NB63)	0%	30	30	06-Feb-15	20-Mar-15	-201								
DSD Southern Trunk Sewer - Trenchless Construction															
TSZ10950	Construct Pipe jacking pits	0%	60	60	16-Jan-15	07-Apr-15	-39								
Box Culvert Extension ID1															
Structure Works															
ID1-0100	Box Culvert Extension ID1 structure	13.56%	102	118	20-Oct-14 A	30-Mar-15	-118								
Box Culvert Extension ID2															
Structure Works															
ID2-0100	Box Culvert Extension ID2 structure	13.56%	102	118	20-Oct-14 A	30-Mar-15	-118								
Bridge Construction															
New Tai Hang Footbridge															
General															
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	20-Nov-14	31-Jan-15	545								
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	15-Jan-15	18-Feb-15	545								
THBF0340	Structure steel procurement (THFB)	0%	150	150	19-Feb-15	18-Jul-15	685								
TWSR-West/ FL Highway N/B Side Section															
THBF0120	THP5 - Pre-bored H pile (8 nos)	0%	24	24	04-Dec-14	03-Jan-15	-155								
THBF0130	THP5 - Pile Test	0%	28	28	03-Jan-15	31-Jan-15	921								
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	19-Jan-15	19-Mar-15	732								
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	0%	24	24	05-Jan-15	31-Jan-15	-155								
THBF0170	THP8, THP9 - Pile Test	0%	28	28	31-Jan-15	28-Feb-15	1019								
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	16-Feb-15	30-Mar-15	813								
THBF0200	THAB3 - Pre-bored H pile (4 nos)	0%	12	12	20-Nov-14	03-Dec-14	-155								
THBF0210	THAB3 - Pile Test	0%	28	28	04-Dec-14	31-Dec-14	1047								
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	18-Dec-14	24-Jan-15	834								
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	26-Jan-15	05-Mar-15	834								
THBF0290	THAB2 - Pre-bored H pile (18 nos)	0%	54	54	02-Feb-15	16-Apr-15	-155								
TWSR-East FL Highway S/B Side Section															
THBF0440	THAB1 - Predrilling	0%	12	12	20-Nov-14	03-Dec-14	670								
THBF0490	THP2 - Predrilling	0%	12	12	04-Dec-14	17-Dec-14	670								
THBF0700	THP3 - Predrilling	0%	6	6	18-Dec-14	24-Dec-14	688								
THBF0740	THP4 - Predrilling	0%	6	6	27-Dec-14	03-Jan-15	698								
New Tai Wo Footbridge															
General															
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	20-Nov-14	16-Mar-15	766								
TWSR-West/ FL Highway N/B Side Section															
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	0%	42	42	26-Jan-15	23-Mar-15	-100								
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	0%	54	54	20-Nov-14	24-Jan-15	-117								
TWFB1330	TWAB1 - Pile Test	0%	28	28	24-Jan-15	21-Feb-15	-143								
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	09-Feb-15	23-Mar-15	-118								
Temporary Tai Wo Footbridge															
Design Works															
TWFB-T1010	Design preparation	0%	90	90	20-Nov-14	16-Mar-15	197								
Demolition of Existing Tai Wo Footbridge															
TWSR-West/ FL Highway N/B Side Section															
TWFB-DE0900	Site Clearance	0%	30	30	01-Nov-14 A	24-Dec-14	584								
Noise Barrier Along Fanling Highway S/B															
NB51 (Ch.5935-6055)-FH S/B Side															
Noise Barrier Works															
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	0%	21	21	20-Nov-14	13-Dec-14	332								
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	15-Dec-14	13-Apr-15	332								
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)															
Noise Barrier Works															
NB02830	NB61 (50-160m) - Footing & Wall Structure	0%	80	80	19-Jul-14 A	04-Mar-15	141								
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)															
Noise Barrier Works															
NB02960	NB61A ID2-3 (50-75m) - Sheet piling & Excavation	0%	10	10	20-Nov-14	01-Dec-14	932								
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	0%	70	70	02-Dec-14	04-Mar-15	932								
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Nov-14	03-Jan-15	1408								
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Jan-15	09-Jan-15	1130								
Other Works															
Site Clearance & Demolition of Existing Structure															
Contract Condition															
MCLT1040	Engineer approval	0%	12	12	16-Sep-14 A	03-Dec-14	-106								
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	12	12	04-Dec-14	17-Dec-14	-106								
MCLT1060	Design available for construction	0%	0	0		17-Dec-14	-106								

17-Dec-14 ♦ Design available for construction

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015					
								Nov	Dec	Jan	Feb	Nov	Dec	Jan	Feb		
MCLT1070	Method Statement submission & Demolish House for New MCLT	0%	40	40	20-Nov-14	08-Jan-15	1881										
MCLT1080	Construct New MCLT (Structure)	0%	60	60	18-Dec-14	09-Mar-15	-106										
General																	
Z2.P2N.1010	Submission of contractor's design for site formation	0%	28	28	13-Dec-14	17-Jan-15	-277										
Z2.P2N.1050	Temporary access road construction	0%	21	21	02-Jan-15	26-Jan-15	-277										
Z2.P2N.1060	Site clearance	0%	10	10	02-Jan-15	13-Jan-15	-277										
Z2.P2N.1070	SA322A: Tree Removal Works	0%	14	14	14-Jan-15	29-Jan-15	-277										
Z2.P2N.1080	Site fomration works (Demolition of existing villiage houses with log no.	0%	50	50	19-Jan-15	25-Mar-15	-277										
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																	
NB01090	NB63A-1 - NB production	0%	45	45	20-Nov-14	03-Jan-15	768										
NB01120	NB63A-2 - Footing & Wall Structure (ch10.7-24.2)	0%	30	30	20-Nov-14	24-Dec-14	73										
NB01140	NB63A-2 - NB production	0%	45	45	25-Dec-14	07-Feb-15	733										
NB01170	NB63A-3 - Footing & Wall Structure (ch24.2-86.9)	0%	50	50	27-Dec-14	04-Mar-15	73										
NB64 & NB64A (Ch.6860-6920)-TWSR West Side																	
Noise Barrier Works																	
NB001010	NB64 & NB64A -piling (0.19m -78no)	0%	90	90	17-Nov-14 A	16-Mar-15	-172										
Bridge Construction																	
Kau Lung Hang Vehicular Bridge																	
KLH Bridge - West Ramp																	
Z2.KLH.1002	West Abutment- Pile cap & Structural Wall	0%	90	90	20-Nov-14	16-Mar-15	-59										
KLH Bridge - Deck 1																	
Z2.KLH.1012	Pier VBP1- Pile testing	0%	28	28	20-Nov-14	22-Dec-14	53										
Z2.KLH.1018	Pier VBP2- Pre-bored H-pile piling works (8 Nos.)	0%	24	24	20-Nov-14 A	17-Dec-14	129										
Z2.KLH.1020	Pier VBP2- Pile testing	0%	28	28	18-Dec-14	22-Jan-15	129										
KLH Bridge - Ramp R1																	
Z2.KLH.1440	Ramp R1 - Pre-bored H-pile piling works (R1P1-P3) (9 Nos.)	70.37%	8	27	30-Sep-14 A	28-Nov-14	232										
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	29-Nov-14	17-Jan-15	232										
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	19-Jan-15	13-Mar-15	232										
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	0%	45	45	20-Nov-14	14-Jan-15	285										
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	15-Jan-15	18-Feb-15	285										
KLH Bridge - Deck 3																	
Z2.KLH.1350	VBP6 - Pre-bored H-pile piling works (12 Nos.)	0%	60	60	20-Nov-14	31-Jan-15	-75										
Z2.KLH.1360	VBP6 - Pile cap, pier construction	0%	90	90	02-Feb-15	30-May-15	-75										
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	36%	48	75	20-Oct-14 A	17-Jan-15	-63										
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	19-Jan-15	27-Apr-15	-63										
KLH Bridge - Deck 2																	
Z2.KLH.1142	Deck 2 precast concrete beam Shop drawing submission & approval	0%	150	150	20-Nov-14	18-Apr-15	60										
Z2.KLH.1220	VBP5- Pile cap, pier, pier head construction	0%	80	80	20-Nov-14	04-Mar-15	7										
KLH Bridge - Ramp R2																	
Z2.KLH.1520	Ramp R2 - Pre-bored H-pile piling works (18 Nos.)	38.89%	33	54	27-Jun-14 A	02-Jan-15	88										
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	30-Dec-14	02-Jun-15	88										
Z2.KLH.1590	Land Possession for House 190B	0%	0	0		20-Nov-14	-41										
20-Nov-14* ♦ Land Possession for House 190B																	
Demolition of Existing Nam Wa Po Footbridge																	
General																	
Z2.NWP.0500	Site Clearance	0%	26	20	29-Aug-14 A	19-Dec-14	-164										
Z2.NWP.1000	Modification of Existing Planter for Pier of Temporary Footbridge	0%	25	25	20-Dec-14	21-Jan-15	-164										
Z2.NWP.1010	Removal of Existing Staircase Portion	0%	26	26	22-Jan-15	28-Feb-15	-164										
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)																	
Site Formation																	
Site Formation Works																	
Site Formation Work																	
Z4SF1070	Backfilling (~20000m3)	70.56%	53	180	10-May-14 A	02-Feb-15	-142										
Retaining Wall W76																	
Structure Works																	
RW761085	Wall construction - W76 (~7m high)	0%	46	40	03-Oct-14 A	15-Jan-15	-142										
Z4SF1090	Watermains installation	0%	21	21	03-Feb-15	06-Mar-15	-142										
Z4SF1100	Firemain installation	0%	21	21	03-Feb-15	06-Mar-15	-142										
Bridge Construction																	
New Ho Ka Yuen Footbridge																	
General																	
HKY1040	Structure steel Shop drawing approval (HKYB)	86.67%	4	30	25-Aug-14 A	24-Nov-14	-163										
HKY1050	Structure steel procurement (HKYB)	0%	150	150	25-Nov-14	23-Apr-15	-196										
TWSR-West/ FL Highway N/B Side Section																	
HKY1135	Soil nail works	0%	50	50	20-Nov-14	20-Jan-15	-146										
HKY1150	HKYP6 - Pre-bored H pile (8 nos)	0%	24	24	21-Jan-15	17-Feb-15	-146										
HKY1160	HKYP6 - Pile Test	0%	28	28	18-Feb-15	17-Mar-15	-74										
HKY1172	HKYP1 - Predrilling	0%	12	12	20-Nov-14	03-Dec-14	11										
HKY1174	HKYP1 - Pre-bored H pile (4 nos)	0%	12	12	18-Feb-15	11-Mar-15	-39										
HKY1220	HKYAB3 - Predrilling	0%	12	12	20-Nov-14	03-Dec-14	-84										
HKY1230	HKYAB3 - Pre-bored H pile (4 nos)	0%	12	12	18-Feb-15	11-Mar-15	-146										
HKY1275	Existing HKY bridge structure removed (TWSR-W)	0%	0	0		20-Nov-14	-84										
HKY1280	HKYP7 - Predrilling	0%	18	18	18-Dec-14	10-Jan-15	-52										
20-Nov-14 ♦ Existing HKY bridge structure removed (TWSR-W)																	

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015			
								Nov		Dec		Jan		Feb	
HKY1320	HKYAB4 - Predrilling	0%	24	24	20-Nov-14	17-Dec-14	-84								
TWSR-East FL Highway S/B Side Section															
HKY1530	HKYAB1 - pile cap & abutment wall	0%	30	30	20-Nov-14	24-Dec-14	-45								
HKY1540	HKYAB1 - Backfilling (~3m)	0%	20	20	27-Dec-14	20-Jan-15	-45								
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	0%	45	45	20-Nov-14	14-Jan-15	-40								
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	60%	18	45	15-Oct-14 A	10-Dec-14	17								
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	0%	45	45	18-Sep-14 A	14-Jan-15	-10								
HKY1840	HKYAB2 - pile cap & abutment wall	0%	60	60	01-Nov-14 A	31-Jan-15	-52								
HKY1850	HKYAB2 - Backfilling (~4m)	0%	27	27	02-Feb-15	12-Mar-15	-52								
TWSR-East Construction															
NB74 (Ch.7930-7980)-FH S/B Side															
Noise Barrier Works															
NB4005	NB74 - Footing & Wall Structure	0%	70	70	03-Feb-15	07-May-15	170								
ZONE 4 (Ch. 7925 to 8700)															
Noise Barrier Along TWSR-West and Laying New Utilities															
NB75 (Ch.7930-8090)-FH N/B Side															
Noise Barrier Works															
NB4100	NB75 - Pre-drilling (Ch7990-8000)-(HKY-P1)	0%	24	24	04-Dec-14	03-Jan-15	11								
Bridge Construction															
New Wo Hop Shek Pedstrian & Cycle Bridge															
General															
WHS1030	Structure steel Shop drawing approval (WHSB)	90%	3	30	23-Aug-14 A	22-Nov-14	290								
WHS1040	Structure steel procurement (WHSB)	0%	150	150	22-Nov-14	21-Apr-15	362								
TWSR-West/ FL Highway N/B Side Section															
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	0%	24	24	04-Dec-14	03-Jan-15	273								
WHS1170	WHSP2 - Pile Test	0%	28	28	03-Jan-15	31-Jan-15	339								
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	19-Jan-15	19-Mar-15	273								
WHS1200	WHSP6 - Pre-bored H pile (6 nos)	0%	18	18	05-Jan-15	24-Jan-15	304								
WHS1210	WHSP6 - Pile Test	0%	28	28	24-Jan-15	21-Feb-15	383								
WHS1224	WHSP7 - Pre-bored H pile (6 nos)	0%	18	18	26-Jan-15	14-Feb-15	327								
WHS1226	WHSP7 - Pile Test	0%	28	28	14-Feb-15	14-Mar-15	419								
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	0%	12	12	20-Nov-14	03-Dec-14	273								
WHS1250	WHSAB1 - Pile Test	0%	28	28	04-Dec-14	31-Dec-14	947								
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	18-Dec-14	24-Jan-15	752								
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	26-Jan-15	05-Mar-15	752								
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	18	18	20-Nov-14	10-Dec-14	332								
WHS1896	WHSP3 - Pile Test	0%	28	28	11-Dec-14	07-Jan-15	414								
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	08-Jan-15	11-Feb-15	327								
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	0%	18	18	11-Dec-14	03-Jan-15	352								
WHS1920	WHSP4 - Pile Test	0%	28	28	03-Jan-15	31-Jan-15	444								
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	12-Feb-15	26-Mar-15	327								
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	0%	18	18	05-Jan-15	24-Jan-15	361								
WHS1960	WHSP5 - Pile Test	0%	28	28	24-Jan-15	21-Feb-15	459								
Crossing Fanling Highway Section															
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	3.85%	50	52	18-Jun-14 A	20-Jan-15	693								
TWSR-East FL Highway S/B Side Section															
WHS2075	North Abutment Wall (AW1) - Temp Shoring	0%	45	45	20-Nov-14	14-Jan-15	263								
WHS2080	North Abutment Wall (AW1) -pile cap & abutment wall	0%	60	60	15-Jan-15	02-Apr-15	523								
Slip Road Y Construction															
Underground Utility Works															
DN600 and DN900 Watermain															
DN1000	DN600 & DN900 watermain laying (Ch8250-8370)(SA340) (near Z4	0%	50	50	22-Jan-15	28-Mar-15	-434								
DN1030	DN600 & DN900 watermain laying (Ch7925-8050)(SA346)	0%	120	120	03-Feb-15	08-Jul-15	-120								
VO - Wall 76A Construction															
Retaining Wall W76A															
TWSR-East FL Highway S/B Side Section															
W76A1017	W76A backfilling work (bay 3, 4, 6-7)	0%	25	25	14-Nov-14 A	18-Dec-14	-434								
W76A1018	Temp. road work for TTA for W76A (TTA-2)	0%	26	26	19-Dec-14	21-Jan-15	-434								
Other Works															
Retaining Wall W77A															
TWSR-East FL Highway S/B Side Section															
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	0%	60	60	20-Nov-14	31-Jan-15	293								
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	02-Feb-15	16-Mar-15	548								
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	15-Jan-15	16-Mar-15	263								
Retaining Wall W77B															
TWSR-East FL Highway S/B Side Section															
RWZ4.1092	Site Clearance	86.67%	4	30	21-Jul-14 A	24-Nov-14	424								
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-40)	0%	60	60	02-Feb-15	23-Apr-15	368								
Retaining Wall W78															
TWSR-East FL Highway S/B Side Section															
RWZ4.0900	Site Clearance	0%	30	30	25-Nov-14	31-Dec-14	454								
TCSS Works															
TCSS Pre-Construction Works															
TCSS0100	Acquire Design Criteria from Drawings & procurement	0%	180	180	20-Nov-14	07-Jul-15	359								

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015						
								Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar			
Contract Condition																		
General																		
Contract Condition																		
POSSA322A	Site Area SA322A (180d)	0%	0	0	01-Jan-15*		0											
POSSA322B	Site Area SA322B (180d)	0%	0	0	01-Jan-15*		0											
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Dec-14*		-160											
POSSA327	Site Area SA327 (180d)	0%	0	0	01-Jan-15*		0											
ZONE 1 (Ch. 5640 to 5880)																		
Noise Barrier Along TWSR-West and Laying New Utilities																		
Site Clearance & Demolition of Existing Structure																		
General																		
ADVZ10100	Site clearance (Additional Transplant - pending for VO)	6.67%	28	30	30-May-14 A	24-Jan-15	-44											
NB42 (Ch.5640-5740)-TWSR West Side																		
Noise Barrier Works																		
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure	0%	45	45	27-Feb-15	23-Apr-15	34											
DSD Southern Trunk Sewer, Water Main Fire Main Works																		
TSZ10100	Sheet Piling & Excavation (~5m below ground) (along NB42)	0%	21	21	26-Jan-15	18-Feb-15	19											
TSZ10130	Watermain installation (along NB42)	0%	30	30	27-Feb-15	02-Apr-15	19											
NB42A (Ch.5750-5810)-TWSR West Side																		
Noise Barrier Works																		
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	16-Feb-15	30-Mar-15	-44											
DSD Southern Trunk Sewer, Water Main Fire Main Works																		
TSZ10150	Sheet Piling & Excavation (~5m below ground) (along NB42A)	0%	18	18	26-Jan-15	14-Feb-15	-44											
ZONE 2 (Ch. 5880 to 6930)																		
Noise Barrier Along TWSR-West and Laying New Utilities																		
Site Clearance & Demolition of Existing Structure																		
Demolition Work																		
Z2.P2N.1245	Method statement submission/ approval	80%	12	60	24-Jul-14 A	06-Jan-15	968											
Z2.P2N.1250	Construction of proposed SHRINE	0%	165	165	07-Jan-15	03-Aug-15	968											
NB47 (Ch.5880-5930)-TWSR West Side																		
Noise Barrier Works																		
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure	0%	30	30	03-Mar-15	09-Apr-15	-309											
DSD Southern Trunk Sewer, Water Main Fire Main Works																		
TSZ10250	Sheet Piling & Excavation (~6m below ground) (along NB47)	0%	18	18	20-Dec-14	13-Jan-15	-309											
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	14-Jan-15	03-Feb-15	-309											
TSZ10270	Backfill up to NB47 footing level	0%	16	16	04-Feb-15	02-Mar-15	-309											
TSZ10280	Watermain installation (along NB47)	0%	26	26	03-Mar-15	01-Apr-15	-307											
NB48 (Ch.5995-6120)-TWSR West Side																		
Noise Barrier Works																		
NB00415	NB48 (NB48/5-10) Pre-drilling	0%	64	64	02-Jan-15	25-Mar-15	-91											
DSD Southern Trunk Sewer, Water Main Fire Main Works																		
TSZ10400	Sheet Piling & Excavation (~5m below ground) (along NB48, 0-60m)	0%	21	21	20-Dec-14	16-Jan-15	-98											
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	17-Jan-15	06-Feb-15	-98											
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	32	32	07-Feb-15	24-Mar-15	-98											
NB49 (Ch.6145-6215)-TWSR West Side																		
Noise Barrier Works																		
NB00485	NB49 - Pre-drilling	86%	7	50	03-Nov-14 A	30-Dec-14	-31											
NB54 (Ch.6240-6280)-TWSR West Side																		
Noise Barrier Works																		
NB00605	NB54 - ID2-1 Pre-drilling (Deleted notified on 14-5, VO issued)	0%	0	0	20-Dec-14	20-Dec-14	-77											
NB00665	NB54 -Pre-drilling	0%	24	24	15-Nov-14 A	20-Jan-15	-101											
NB54A (Ch.6290-6350)-TWSR West Side																		
Noise Barrier Works																		
NB00730	NB54A -Pre-drilling	41.67%	21	36	26-Feb-14 A	16-Jan-15	-8											
NB00740	NB54A piling (0.19m -72no)	30.56%	75	108	05-May-14 A	28-Mar-15	-22											
NB57 (Ch.6365-6445)-TWSR West Side																		
DSD Southern Trunk Sewer, Water Main Fire Main Works																		
TSZ10700	Sheet Piling & Excavation (~5m below ground) (along NB57)	0%	21	21	15-Dec-14 A	16-Jan-15	-107											
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	17-Jan-15	06-Feb-15	-107											
TSZ10720	Backfill up to NB57 footing level	0%	20	20	07-Feb-15	10-Mar-15	-107											
TSZ10730	Watermain installation (along NB57)	0%	30	30	11-Mar-15	17-Apr-15	-65											
NB58 (Ch.6445-6480)-TWSR West Side																		
Noise Barrier Works																		
NB00875	Pending for RSS revised detail of NB58 - piling	0%	14	14	03-Sep-14 A	08-Jan-15	1820											
NB00880	NB58 - piling (0.19m -44no)	0%	66	66	15-Dec-14 A	18-Mar-15	38											
NB59 (Ch.6490-6590)-TWSR West Side																		
Noise Barrier Works																		
NB00950	NB59 - piling (0.19m -94no)	0%	144	144	20-Dec-14	24-Jun-15	-210											
NB63 (Ch.6610-6700)-TWSR West Side																		
Noise Barrier Works																		

	Project ID: DWP Rev 01 (1412)	<p align="center">Contract No. HY/2012/06</p> <p align="center">Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange</p> <p align="center">3 Month Rolling Program(20-Dec-14)</p>		Date	Revision	C.	App...
	Layout: 3 Month Rolling Program			22-Jan-14	IWP Rev 4		
Page 1 of 5				26-Feb-14	IWP Rev 5		
				13-May-...	WP Rev 1		
				30-Jun-14	WP Rev...		

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015					
								Dec	Jan	Feb	Mar	Dec	Jan	Feb	Mar		
NB01040	NB63 - NB production	0%	45	45	20-Dec-14	02-Feb-15	1378										
DSD Southern Trunk Sewer, Water Main Fire Main Works																	
TSZ10300	Sheet Piling & Excavation (~7m below ground) (along NB63)	0%	12	12	02-Jan-15	15-Jan-15	-201										
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	16-Jan-15	05-Feb-15	-201										
TSZ10330	Watermain installation (along NB63)	0%	30	30	06-Feb-15	20-Mar-15	-201										
DSD Southern Trunk Sewer - Trenchless Construction																	
TSZ10950	Construct Pipe jacking pits	0%	60	60	16-Jan-15	07-Apr-15	-39										
Box Culvert Extension ID1																	
Structure Works																	
ID1-0100	Box Culvert Extension ID1 structure	34.75%	77	118	20-Oct-14 A	31-Mar-15	-119										
Box Culvert Extension ID2																	
Structure Works																	
ID2-0100	Box Culvert Extension ID2 structure	34.75%	77	118	20-Oct-14 A	31-Mar-15	-119										
Bridge Construction																	
New Tai Hang Footbridge																	
General																	
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	20-Dec-14	11-Mar-15	519										
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	14-Feb-15	28-Mar-15	519										
TWSR-West/ FL Highway N/B Side Section																	
THBF0120	THP5 - Pre-bored H pile (8 nos)	0%	24	24	13-Nov-14 A	20-Jan-15	718										
THBF0130	THP5 - Pile Test	0%	28	28	21-Jan-15	17-Feb-15	904										
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	04-Feb-15	08-Apr-15	718										
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	0%	24	24	08-Nov-14 A	20-Jan-15	823										
THBF0170	THP8, THP9 - Pile Test	0%	28	28	21-Jan-15	17-Feb-15	1030										
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	04-Feb-15	18-Mar-15	823										
THBF0200	THAB3 - Pre-bored H pile (4 nos)	0%	12	12	08-Nov-14 A	06-Jan-15	809										
THBF0210	THAB3 - Pile Test	0%	28	28	07-Jan-15	03-Feb-15	1013										
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	21-Jan-15	04-Mar-15	808										
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	05-Mar-15	08-Apr-15	808										
THBF0250	THP6, THP7 - Pre-bored H pile (14 nos)	0%	42	42	17-Nov-14 A	10-Feb-15	614										
THBF0260	THP6, THP7 - Pile Test	0%	28	28	11-Feb-15	10-Mar-15	901										
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	27-Feb-15	02-Apr-15	720										
THBF0290	THAB2 - Pre-bored H pile (18 nos)	0%	54	54	12-Dec-14 A	04-Mar-15	-121										
THBF0300	THAB2 - Pile Test	0%	28	28	05-Mar-15	01-Apr-15	-155										
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	19-Mar-15	25-Apr-15	-123										
TWSR-East FL Highway S/B Side Section																	
THBF0440	THAB1 - Predrilling	0%	12	12	20-Dec-14	06-Jan-15	644										
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	11-Feb-15	04-Mar-15	614										
THBF0460	THAB1 - Pile Test	0%	28	28	05-Mar-15	01-Apr-15	800										
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	19-Mar-15	25-Apr-15	638										
THBF0490	THP2 - Predrilling	0%	12	12	07-Jan-15	20-Jan-15	644										
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	05-Mar-15	01-Apr-15	614										
THBF0700	THP3 - Predrilling	0%	6	6	21-Jan-15	27-Jan-15	662										
THBF0740	THP4 - Predrilling	0%	6	6	28-Jan-15	03-Feb-15	672										
New Tai Wo Footbridge																	
General																	
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	20-Dec-14	18-Apr-15	740										
TWSR-West/ FL Highway N/B Side Section																	
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	0%	42	42	05-Mar-15	25-Apr-15	-126										
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	0%	54	54	20-Dec-14	04-Mar-15	-143										
TWFB1330	TWAB1 - Pile Test	0%	28	28	05-Mar-15	01-Apr-15	-182										
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	19-Mar-15	25-Apr-15	-144										
Temporary Tai Wo Footbridge																	
Design Works																	
TWFB-T1010	Design preparation	43.33%	51	90	01-Nov-14 A	28-Feb-15	210										
TWFB-T1020	Engineer Comment	0%	26	26	02-Mar-15	31-Mar-15	210										
Demolition of Existing Tai Wo Footbridge																	
TWSR-West/ FL Highway N/B Side Section																	
TWFB-DE0900	Site Clearance	0%	30	30	01-Nov-14 A	27-Jan-15	558										
Noise Barrier Along Fanling Highway S/B																	
NB51 (Ch.5935-6055)-FH S/B Side																	
Noise Barrier Works																	
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	0%	21	21	20-Dec-14	16-Jan-15	306										
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	17-Jan-15	14-May-15	306										
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)																	
Noise Barrier Works																	
NB02610	Coordinate with MTRC for Precautionary Measure	0%	60	60	21-Jan-15	11-Apr-15	381										
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)																	
Noise Barrier Works																	
NB02710	NB56 - Footing & Wall Structure	0%	60	60	20-Dec-14	11-Mar-15	381										
NB02720	NB56- backfilling	0%	50	50	12-Mar-15	13-May-15	381										
NB02730	NB56 - NB production	0%	45	45	12-Mar-15	25-Apr-15	1296										
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)																	
Noise Barrier Works																	

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015		
								Dec	Jan	Feb	Mar			
NB02830	NB61 (50-160m) - Footing & Wall Structure	28.75%	57	80	19-Jul-14 A	07-Mar-15	929							
NB02840	NB61 (50-160m) - backfilling	0%	50	50	09-Mar-15	09-May-15	929							
NB02850	NB61 (50-160m) - NB production	0%	45	45	07-Mar-15	21-Apr-15	1300							
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)														
Noise Barrier Works														
NB02960	NB61A ID2-3 (50-75m)- Sheet piling & Excavation	0%	10	10	20-Dec-14	03-Jan-15	906							
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	0%	70	70	05-Jan-15	07-Apr-15	906							
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Dec-14	02-Feb-15	1378							
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	03-Feb-15	07-Feb-15	1105							
Other Works														
Site Clearance & Demolition of Existing Structure														
Contract Condition														
MCLT1030	Design Preparation	46.15%	14	26	06-Aug-14 A	08-Jan-15	-146							
MCLT1040	Engineer approval	0%	12	12	09-Jan-15	22-Jan-15	-146							
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	12	12	23-Jan-15	05-Feb-15	-146							
MCLT1060	Design available for construction	0%	0	0		05-Feb-15	-146							05-Feb-15 ♦ Design available for construction
MCLT1070	Method Statement submission & Demolish House for New MCLT	0%	40	40	20-Dec-14	07-Feb-15	1794							
MCLT1080	Construct New MCLT (Structure)	0%	60	60	06-Feb-15	28-Apr-15	-146							
General														
Z2.P2N.1010	Submission of contractor's design for site formation	28.57%	20	28	13-Dec-14 A	17-Jan-15	-277							
Z2.P2N.1050	Temporary access road construction	0%	21	21	02-Jan-15	26-Jan-15	-277							
Z2.P2N.1060	Site clearance	0%	10	10	02-Jan-15	13-Jan-15	-277							
Z2.P2N.1070	SA322A: Tree Removal Works	0%	14	14	14-Jan-15	29-Jan-15	-277							
Z2.P2N.1080	Site fomration works (Demolition of existing villiage houses with log no.	0%	50	50	19-Jan-15	25-Mar-15	-277							
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														
NB01090	NB63A-1 - NB production	0%	45	45	20-Dec-14	02-Feb-15	738							
NB01120	NB63A-2 - Footing & Wall Structure (ch10.7-24.2)	0%	30	30	20-Dec-14	27-Jan-15	47							
NB01140	NB63A-2 - NB production	0%	45	45	28-Jan-15	13-Mar-15	699							
NB01170	NB63A-3 - Footing & Wall Structure (ch24.2-86.9)	0%	50	50	28-Jan-15	07-Apr-15	47							
NB64 & NB64A (Ch.6860-6920)-TWSR West Side														
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10900	Sheet Piling & Excavation (~5m below ground) (along NB64)	0%	21	21	20-Dec-14	16-Jan-15	-108							
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	17-Jan-15	06-Feb-15	-108							
TSZ10920	Backfill up to NB64 footing level	0%	32	32	07-Feb-15	24-Mar-15	-108							
Bridge Construction														
Kau Lung Hang Vehicular Bridge														
KLH Bridge - West Ramp														
Z2.KLH.1002	West Abutment- Pile cap & Structural Wall	28.89%	64	90	20-Nov-14 A	16-Mar-15	-59							
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)	0%	140	140	17-Mar-15	03-Sep-15	-59							
KLH Bridge - Deck 1														
Z2.KLH.1012	Pier VBP1- Pile testing	0%	28	28	20-Dec-14	24-Jan-15	27							
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	0%	90	90	17-Mar-15	07-Jul-15	-9							
Z2.KLH.1020	Pier VBP2- Pile testing	7.14%	26	28	18-Dec-14 A	22-Jan-15	129							
KLH Bridge - Ramp R1														
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	20-Dec-14	07-Feb-15	214							
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	09-Feb-15	07-Apr-15	214							
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	0%	45	45	20-Dec-14	13-Feb-15	259							
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	14-Feb-15	28-Mar-15	259							
KLH Bridge - Deck 3														
Z2.KLH.1350	VBP6 - Pre-bored H-pile piling works (12 Nos.)	0%	60	60	22-Dec-14 A	11-Mar-15	-101							
Z2.KLH.1360	VBP6 - Pile cap, pier construction	0%	90	90	12-Mar-15	02-Jul-15	-101							
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	36%	48	75	20-Oct-14 A	17-Feb-15	-89							
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	18-Feb-15	29-May-15	-89							
KLH Bridge - Deck 2														
Z2.KLH.1142	Deck 2 precast concrete beam Shop drawing submission & approval	0%	150	150	20-Dec-14	18-May-15	30							
Z2.KLH.1220	VBP5- Pile cap, pier, pier head construction	0%	80	80	20-Dec-14	07-Apr-15	-19							
KLH Bridge - Ramp R2														
Z2.KLH.1520	Ramp R2 - Pre-bored H-pile piling works (18 Nos.)	20.37%	43	54	27-Jun-14 A	11-Feb-15	54							
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	09-Feb-15	14-Jul-15	54							
Z2.KLH.1590	Land Possession for House 190B	0%	0	0		20-Dec-14	-67							20-Dec-14* ♦ Land Possession for House 190B
Demolition of Existing Nam Wa Po Footbridge														
General														
Z2.NWP.1020	Temp. Steel Ramp, Pier, Deck Construction	84.44%	7	45	20-Oct-14 A	30-Dec-14	-75							
Z2.NWP.1030	Diversion of Existing Pedestrian to Temp. Steel Ramp	0%	1	1	31-Dec-14	31-Dec-14	-75							
Z2.NWP.1050	Removal of Existing Ramp Portion and Deck Above Existing TWSR	0%	30	30	02-Jan-15	05-Feb-15	-75							
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)														
Site Formation														
Site Formation Works														
Site Formation Work														
Z4SF1070	Backfilling (~20000m3)	66.67%	60	180	10-May-14 A	11-Mar-15	-167							

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015			
								Dec		Jan		Feb		Mar	
Retaining Wall W76															
Structure Works															
RW761085	Wall construction - W76 (~7m high)	0%	46	40	03-Oct-14 A	14-Feb-15	-153								
Z4SF1090	Watermains installation	0%	21	21	12-Mar-15	08-Apr-15	-167								
Z4SF1100	Firemain installation	0%	21	21	12-Mar-15	08-Apr-15	-167								
Bridge Construction															
New Ho Ka Yuen Footbridge															
General															
HKY1040	Structure steel Shop drawing approval (HKYB)	86.67%	4	30	25-Aug-14 A	24-Dec-14	-189								
HKY1050	Structure steel procurement (HKYB)	0%	150	150	25-Dec-14	23-May-15	-226								
TWSR-West/ FL Highway N/B Side Section															
HKY1135	Soil nail works	0%	50	50	13-Dec-14 A	27-Feb-15	-172								
HKY1150	HKYP6 - Pre-bored H pile (8 nos)	0%	24	24	28-Feb-15	27-Mar-15	-172								
HKY1172	HKYP1 - Predrilling	0%	12	12	20-Dec-14	06-Jan-15	-15								
HKY1275	Existing HKY bridge structure removed (TWSR-W)	0%	0	0		20-Dec-14	-110								
HKY1280	HKYP7 - Predrilling	0%	18	18	21-Jan-15	10-Feb-15	-78								
HKY1320	HKYAB4 - Predrilling	0%	24	24	20-Dec-14	20-Jan-15	-110								
TWSR-East FL Highway S/B Side Section															
HKY1530	HKYAB1 - pile cap & abutment wall	86.67%	4	30	24-Nov-14 A	24-Dec-14	-45								
HKY1540	HKYAB1 - Backfilling (~3m)	0%	20	20	27-Dec-14	20-Jan-15	-45								
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	57.78%	19	45	24-Nov-14 A	14-Jan-15	-40								
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	60%	18	45	15-Oct-14 A	13-Jan-15	-9								
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	55.56%	20	45	18-Sep-14 A	15-Jan-15	-11								
HKY1840	HKYAB2 - pile cap & abutment wall	43.33%	34	60	01-Nov-14 A	31-Jan-15	-52								
HKY1850	HKYAB2 - Backfilling (~4m)	0%	27	27	02-Feb-15	12-Mar-15	-52								
TWSR-East Construction															
NB74 (Ch.7930-7980)-FH S/B Side															
Noise Barrier Works															
NB4005	NB74 - Footing & Wall Structure	0%	70	70	12-Mar-15	06-Jun-15	145								
ZONE 4 (Ch. 7925 to 8700)															
Noise Barrier Along TWSR-West and Laying New Utilities															
NB75 (Ch.7930-8090)-FH N/B Side															
Noise Barrier Works															
NB4100	NB75 -Pre-drilling (Ch7990-8000)-(HKY-P1)	0%	24	24	07-Jan-15	03-Feb-15	-15								
Bridge Construction															
New Wo Hop Shek Pedstrian & Cycle Bridge															
General															
WHS1030	Structure steel Shop drawing approval (WHSB)	90%	3	30	23-Aug-14 A	23-Dec-14	264								
WHS1040	Structure steel procurement (WHSB)	0%	150	150	24-Dec-14	22-May-15	331								
TWSR-West/ FL Highway N/B Side Section															
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	0%	24	24	07-Jan-15	03-Feb-15	247								
WHS1170	WHSP2 - Pile Test	0%	28	28	04-Feb-15	03-Mar-15	308								
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	18-Feb-15	22-Apr-15	247								
WHS1200	WHSP6 - Pre-bored H pile (6 nos)	0%	18	18	04-Feb-15	04-Mar-15	278								
WHS1210	WHSP6 - Pile Test	0%	28	28	05-Mar-15	01-Apr-15	344								
WHS1224	WHSP7 - Pre-bored H pile (6 nos)	0%	18	18	05-Mar-15	25-Mar-15	301								
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	0%	12	12	20-Dec-14	06-Jan-15	247								
WHS1250	WHSAB1 - Pile Test	0%	28	28	07-Jan-15	03-Feb-15	913								
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	21-Jan-15	04-Mar-15	726								
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	05-Mar-15	08-Apr-15	726								
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	18	18	20-Dec-14	13-Jan-15	306								
WHS1896	WHSP3 - Pile Test	0%	28	28	14-Jan-15	10-Feb-15	380								
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	11-Feb-15	25-Mar-15	298								
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	0%	18	18	14-Jan-15	03-Feb-15	326								
WHS1920	WHSP4 - Pile Test	0%	28	28	04-Feb-15	03-Mar-15	413								
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	0%	18	18	04-Feb-15	04-Mar-15	335								
WHS1960	WHSP5 - Pile Test	0%	28	28	05-Mar-15	01-Apr-15	420								
Crossing Fanling Highway Section															
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	3.85%	50	52	18-Jun-14 A	27-Feb-15	667								
TWSR-East FL Highway S/B Side Section															
WHS2075	North Abutment Wall (AW1) - Temp Shoring	57.78%	19	45	24-Nov-14 A	14-Jan-15	263								
WHS2080	North Abutment Wall (AW1) -pile cap & abutment wall	0%	60	60	15-Jan-15	02-Apr-15	523								
Slip Road Y Construction															
Underground Utility Works															
DN600 and DN900 Watermain															
DN1000	DN600 & DN900 watermain laying (Ch8250-8370)(SA340) (near Z4)	84%	8	50	21-Nov-14 A	31-Dec-14	-355								
DN1030	DN600 & DN900 watermain laying (Ch7925-8050)(SA346)	0%	120	120	12-Mar-15	06-Aug-15	-145								
VO - Wall 76A Construction															
Retaining Wall W76A															
TWSR-East FL Highway S/B Side Section															
W76A1018	Temp. road work for TTA for W76A (TTA-2)	0%	26	26	20-Dec-14	22-Jan-15	-373								
W76A1019	Shift to TTA-1	0%	1	1	23-Jan-15	23-Jan-15	-373								
W76A1020	W76A construction (bay 4,5,9)	0%	36	36	24-Jan-15	14-Mar-15	-373								

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2014				2015				
								Dec				Jan			Feb	Mar
W76A1030	W76A backfilling work (bay 4,5,9)	0%	25	25	16-Mar-15	16-Apr-15	-373									
Other Works																
Retaining Wall W77A																
TWSR-East FL Highway S/B Side Section																
RWZ4.1060	Base slab & Wall (0-3m high)-RW77A (Ch.50-130)	0%	60	60	20-Dec-14	11-Mar-15	267									
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	12-Mar-15	18-Apr-15	522									
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	15-Jan-15	16-Mar-15	263									
RWZ4.1080	Base slab & Wall (3-7m high)-RW77A (Ch.0-50)	0%	90	90	17-Mar-15	07-Jul-15	263									
Retaining Wall W77B																
TWSR-East FL Highway S/B Side Section																
RWZ4.1100	Base slab & Wall (0-3m high)-RW77B (Ch 0-40)	0%	60	60	12-Mar-15	26-May-15	342									
Retaining Wall W78																
TWSR-East FL Highway S/B Side Section																
RWZ4.0900	Site Clearance	0%	30	30	20-Dec-14	27-Jan-15	432									
TCSS Works																
TCSS Pre-Construction Works																
TCSS0100	Acquire Design Criteria from Drawing & procurement	0%	180	180	20-Dec-14	06-Aug-15	333									

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015			
								2014	Jan	Feb	Mar
Contract Condition											
General											
Contract Condition											
Contract Condition											
KD03a	KD-3a (270d) - Comprises all works in SA322A (Area: Resite Houses)	0%	0	0		20-Jan-15'	-281				20-Jan-15' ◆ KD-3a (270d) - Comprises all works in SA322A (Area: Resite Houses)
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Jan-15*		-191				◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Jan-15*		-19				◆ Site Area SA327 (180d)
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB42 (Ch.5640-5740)-TWSR West Side											
Noise Barrier Works											
NB00110	NB42 (Ch5640-5740) - Footing & Wall Structure	0%	45	45	13-Feb-15	17-Apr-15	39				
NB00120	NB42 (Ch5640-5740) - NB production	0%	45	45	18-Apr-15	01-Jun-15	1259				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10100	Sheet Piling & Excavation (~5m below ground) (along NB42)	0%	21	21	20-Jan-15	12-Feb-15	24				
TSZ10130	Watermain installation (along NB42)	0%	30	30	13-Feb-15	27-Mar-15	24				
TSZ10140	Firemain installation (along NB42)	0%	30	30	28-Mar-15	06-May-15	24				
NB42A (Ch.5750-5810)-TWSR West Side											
Noise Barrier Works											
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	10-Feb-15	24-Mar-15	-39				
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	25-Mar-15	08-May-15	1283				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10150	Sheet Piling & Excavation (~5m below ground) (along NB42A)	0%	18	18	20-Jan-15	09-Feb-15	-39				
TSZ10180	Watermain installation (along NB42A)	0%	20	20	25-Mar-15	20-Apr-15	-39				
Underground Utility Works											
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	24	24	25-Mar-15	24-Apr-15	-23				
ZONE 2 (Ch. 5880 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
Site Clearance & Demolition of Existing Structure											
Demolition Work											
Z2.P2N.1250	Construction of proposed SHRINE	0%	165	165	20-Jan-15	15-Aug-15	957				
Z2.P2N.1290	Demolition of Man Ching Lung Tong	0%	15	15	26-Jan-15*	11-Feb-15	0				
NB47 (Ch.5880-5930)-TWSR West Side											
Noise Barrier Works											
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure	0%	30	30	30-Mar-15	07-May-15	-332				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10250	Sheet Piling & Excavation (~6m below ground) (along NB47)	0%	18	18	20-Jan-15	09-Feb-15	-332				
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	10-Feb-15	10-Mar-15	-332				
TSZ10270	Backfill up to NB47 footing level	0%	16	16	11-Mar-15	28-Mar-15	-332				
TSZ10280	Watermain installation (along NB47)	0%	26	26	30-Mar-15	02-May-15	-330				
NB47A (Ch.5950-5975)-TWSR West Side											
Noise Barrier Works											
NB00300	NB47A - ID1-1 piling (0.19m -24no)	0%	50	50	01-Apr-15	03-Jun-15	-290				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	0%	28	28	01-Apr-15	07-May-15	121				
Underground Utility Works											
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above)	0%	12	12	01-Apr-15	17-Apr-15	137				
NB48 (Ch.5995-6120)-TWSR West Side											
Noise Barrier Works											
NB00415	NB48 (NB48/5-10) Pre-drilling	76.56%	15	64	18-Dec-14 A	05-Feb-15	-57				
NB00420	NB48 (NB48/5-10) piling (0.19m -64no)	0%	96	96	06-Feb-15	11-Jun-15	-57				
DSD Southern Trunk Sewer, Water Main Fire Main Works											
TSZ10400	Sheet Piling & Excavation (~5m below ground) (along NB48, 0-60m)	0%	21	21	20-Jan-15	12-Feb-15	-121				
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	13-Feb-15	13-Mar-15	-121				
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	32	32	14-Mar-15	23-Apr-15	-121				
NB49 (Ch.6145-6215)-TWSR West Side											
Noise Barrier Works											
NB00485	NB49 - Pre-drilling	70%	15	50	03-Nov-14 A	05-Feb-15	4				
NB00490	NB49 piling (0.19m -96no)	0%	96	96	12-Jan-15 A	23-May-15	-47				
NB54 (Ch.6240-6280)-TWSR West Side											
Noise Barrier Works											
NB00605	NB54 - ID2-1 Pre-drilling (Deleted notified on 14-5, VO issued)	0%	0	0	20-Jan-15	20-Jan-15	-100				
NB00610	NB54 - ID2-1 piling (0.19m -18no)- (Deleted notified on 14-5, VO issued)	0%	0	0	01-Apr-15	01-Apr-15	-154				
NB00620	NB54 - ID2-1 Sheet piling & excavation (~3m)	0%	18	18	01-Apr-15	24-Apr-15	-38				
NB00665	NB54 -Pre-drilling	20.83%	19	24	15-Nov-14 A	10-Feb-15	-119				
NB00670	NB54 piling (0.19m -24no)-1 rigs	0%	72	72	01-Apr-15	30-Jun-15	-154				
NB54A (Ch.6290-6350)-TWSR West Side											
Noise Barrier Works											
NB00730	NB54A -Pre-drilling	33.33%	24	36	26-Feb-14 A	16-Feb-15	-24				
NB00740	NB54A piling (0.19m -72no)	48.15%	56	108	05-May-14 A	02-Apr-15	-26				

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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-Jan-15)



Date	Revision	C..	App...
22-Jan-14	IWP Rev 4		
26-Feb-14	IWP Rev 5		
13-May...	WP Rev 1		
30-Jun-14	WP Rev...		

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015						
								2014	Jan	Feb	Mar	Apr		
NB57 (Ch.6365-6445)-TWSR West Side														
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10700	Sheet Piling & Excavation (~5m below ground) (along NB57)	0%	21	21	15-Dec-14 A	12-Feb-15	-130							
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	13-Feb-15	13-Mar-15	-130							
TSZ10720	Backfill up to NB57 footing level	0%	20	20	14-Mar-15	09-Apr-15	-130							
TSZ10730	Watermain installation (along NB57)	0%	30	30	10-Apr-15	15-May-15	-88							
NB59 (Ch.6490-6590)-TWSR West Side														
Noise Barrier Works														
NB00950	NB59 - piling (0.19m -94no)	75.69%	35	144	02-Jan-15 A	09-Mar-15	-124							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10800	Sheet Piling & Excavation (~5m below ground) (along NB59)	0%	28	28	10-Mar-15	14-Apr-15	-124							
TSZ10810	DSD Trunk Sewer laying (along NB59)	0%	30	30	15-Apr-15	20-May-15	-124							
NB63 (Ch.6610-6700)-TWSR West Side														
Noise Barrier Works														
NB01030	NB63 - backfilling	0%	50	50	25-Mar-15	27-May-15	-126							
NB01040	NB63 - NB production	0%	45	45	20-Jan-15	05-Mar-15	1347							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10300	Sheet Piling & Excavation (~7m below ground) (along NB63)	0%	12	12	20-Jan-15	02-Feb-15	-54							
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	03-Feb-15	03-Mar-15	1719							
TSZ10330	Watermain installation (along NB63)	0%	30	30	04-Mar-15	10-Apr-15	1719							
TSZ10340	Firemain installation (along NB63)	0%	30	30	11-Apr-15	16-May-15	1719							
DSD Southern Trunk Sewer - Trenchless Construction														
TSZ10950	Construct Pipe jacking pits	0%	60	60	03-Feb-15	24-Apr-15	-54							
Underground Utility Works														
UUZ20230	Utility cable laying by Utility companies (Along NB63-100m)	0%	48	48	27-Dec-14 A	24-Mar-15	-126							
Box Culvert Extension ID1														
Structure Works														
ID1-0100	Box Culvert Extension ID1 structure	54.24%	54	118	20-Oct-14 A	31-Mar-15	-119							
Box Culvert Extension ID2														
Structure Works														
ID2-0100	Box Culvert Extension ID2 structure	54.24%	54	118	20-Oct-14 A	31-Mar-15	-119							
Bridge Construction														
New Tai Hang Footbridge														
General														
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	20-Jan-15	10-Apr-15	496							
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	21-Mar-15	28-Apr-15	496							
TWSR-West/ FL Highway N/B Side Section														
THBF0120	THP5 - Pre-bored H pile (8 nos)	75%	6	24	13-Nov-14 A	26-Jan-15	713							
THBF0130	THP5 - Pile Test	0%	28	28	27-Jan-15	23-Feb-15	898							
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	10-Feb-15	14-Apr-15	713							
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	50%	12	24	08-Nov-14 A	02-Feb-15	812							
THBF0170	THP8, THP9 - Pile Test	0%	28	28	03-Feb-15	02-Mar-15	1017							
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	17-Feb-15	31-Mar-15	812							
THBF0200	THAB3 - Pre-bored H pile (4 nos)	50%	6	12	08-Nov-14 A	26-Jan-15	792							
THBF0210	THAB3 - Pile Test	0%	28	28	27-Jan-15	23-Feb-15	993							
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	10-Feb-15	24-Mar-15	791							
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	25-Mar-15	28-Apr-15	791							
THBF0250	THP6, THP7 - Pre-bored H pile (14 nos)	42.86%	24	42	17-Nov-14 A	16-Feb-15	609							
THBF0260	THP6, THP7 - Pile Test	0%	28	28	17-Feb-15	16-Mar-15	895							
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	03-Mar-15	09-Apr-15	717							
THBF0290	THAB2 - Pre-bored H pile (18 nos)	55.56%	24	54	12-Dec-14 A	16-Feb-15	-114							
THBF0300	THAB2 - Pile Test	0%	28	28	17-Feb-15	16-Mar-15	-139							
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	03-Mar-15	09-Apr-15	-109							
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	10-Apr-15	04-May-15	697							
TWSR-East FL Highway S/B Side Section														
THBF0440	THAB1 - Predrilling	0%	12	12	20-Jan-15	02-Feb-15	621							
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	17-Feb-15	10-Mar-15	609							
THBF0460	THAB1 - Pile Test	0%	28	28	11-Mar-15	07-Apr-15	794							
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	25-Mar-15	02-May-15	633							
THBF0490	THP2 - Predrilling	0%	12	12	03-Feb-15	16-Feb-15	621							
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	11-Mar-15	10-Apr-15	609							
THBF0510	THP2 - Pile Test	0%	28	28	11-Apr-15	08-May-15	824							
THBF0700	THP3 - Predrilling	0%	6	6	17-Feb-15	03-Mar-15	639							
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	11-Apr-15	29-Apr-15	609							
THBF0740	THP4 - Predrilling	0%	6	6	04-Mar-15	10-Mar-15	649							
New Tai Wo Footbridge														
General														
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	20-Jan-15	16-May-15	717							
TWSR-West/ FL Highway N/B Side Section														
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	0%	42	42	01-Apr-15	23-May-15	-149							
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	0%	54	54	20-Jan-15	31-Mar-15	-166							
TWFB1330	TWAB1 - Pile Test	0%	28	28	01-Apr-15	28-Apr-15	-209							

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015					
								2014	Jan	Feb	Mar	Apr	
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	15-Apr-15	20-May-15	-164						
Temporary Tai Wo Footbridge													
Design Works													
TWFB-T1010	Design preparation	66.67%	30	90	01-Nov-14 A	03-Mar-15	208						
TWFB-T1020	Engineer Comment	0%	26	26	04-Mar-15	02-Apr-15	208						
TWFB-T1030	Design amendment	0%	26	26	07-Apr-15	07-May-15	208						
Demolition of Existing Tai Wo Footbridge													
TWSR-West/ FL Highway N/B Side Section													
TWFB-DE0900	Site Clearance	0%	30	30	01-Nov-14 A	03-Mar-15	535						
Noise Barrier Along Fanling Highway S/B													
NB51 (Ch.5935-6055)-FH S/B Side													
Noise Barrier Works													
NB02270	NB51 ID1-3 (0-25m) - Sheet piling & Excavation	0%	21	21	22-Jan-15 A	12-Feb-15	283						
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	13-Feb-15	11-Jun-15	283						
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02420	Coordinate with MTRC for Precautionary Measure	0%	60	60	20-Jan-15	10-Apr-15	473						
NB02430	Precautionary Measure installation	0%	26	26	11-Apr-15	12-May-15	473						
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02640	NB55 - Footing & Wall Structure	31.67%	41	60	07-Nov-14 A	16-Mar-15	505						
NB02650	NB55- backfilling	0%	50	50	17-Mar-15	18-May-15	505						
NB02660	NB55 - NB production	0%	45	45	17-Mar-15	30-Apr-15	1291						
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02710	NB56 - Footing & Wall Structure	0%	60	60	20-Dec-14 A	10-Apr-15	1021						
NB02720	NB56- backfilling	0%	50	50	11-Apr-15	10-Jun-15	1699						
NB02730	NB56 - NB production	0%	45	45	11-Apr-15	25-May-15	1266						
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02830	NB61 (50-160m) - Footing & Wall Structure	76.25%	19	80	19-Jul-14 A	10-Feb-15	944						
NB02840	NB61 (50-160m) - backfilling	0%	50	50	11-Feb-15	21-Apr-15	944						
NB02850	NB61 (50-160m) - NB production	0%	45	45	11-Feb-15	27-Mar-15	1325						
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	28-Mar-15	02-Apr-15	1066						
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)													
Noise Barrier Works													
NB02910	NB61A (0-50m)- backfilling	0%	50	50	20-Jan-15	26-Mar-15	1759						
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Jan-15	05-Mar-15	1347						
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	06-Mar-15	11-Mar-15	1085						
NB02960	NB61A ID2-3 (50-75m)- Sheet piling & Excavation	0%	10	10	21-Jan-15 A	30-Jan-15	987						
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	0%	70	70	31-Jan-15	05-May-15	987						
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Jan-15	05-Mar-15	1347						
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	06-Mar-15	11-Mar-15	1085						
Other Works													
Site Clearance & Demolition of Existing Structure													
Contract Condition													
MCLT1030	Design Preparation	46.15%	14	26	06-Aug-14 A	04-Feb-15	-163						
MCLT1040	Engineer approval	0%	12	12	05-Feb-15	18-Feb-15	-163						
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	12	12	27-Feb-15	12-Mar-15	-163						
MCLT1060	Design available for construction	0%	0	0		12-Mar-15	-163						
MCLT1080	Construct New MCLT (Structure)	0%	60	60	13-Mar-15	27-May-15	-163						
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													
NB01090	NB63A-1 - NB production	0%	45	45	20-Jan-15	05-Mar-15	707						
NB01120	NB63A-2 - Footing & Wall Structure (ch10.7-24.2)	0%	30	30	20-Jan-15	03-Mar-15	24						
NB01140	NB63A-2 - NB production	0%	45	45	04-Mar-15	17-Apr-15	664						
NB01170	NB63A-3 - Footing & Wall Structure (ch24.2-86.9)	0%	50	50	04-Mar-15	05-May-15	24						
NB64 & NB64A (Ch.6860-6920)-TWSR West Side													
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10900	Sheet Piling & Excavation (~5m below ground) (along NB64)	0%	21	21	20-Jan-15	12-Feb-15	-131						
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	13-Feb-15	13-Mar-15	-131						
TSZ10920	Backfill up to NB64 footing level	0%	32	32	14-Mar-15	23-Apr-15	-131						
Bridge Construction													
Kau Lung Hang Vehicular Bridge													
KLH Bridge - West Ramp													
Z2.KLH.1002	West Abutment- Pile cap & Structural Wall	25.56%	67	90	20-Dec-14 A	18-Apr-15	-85						
KLH Bridge - Deck 1													
Z2.KLH.1012	Pier VBP1- Pile testing	32.14%	19	28	20-Nov-14 A	10-Feb-15	13						
KLH Bridge - Ramp R1													
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	20-Jan-15	14-Mar-15	191						
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	16-Mar-15	05-May-15	191						
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	0%	45	45	20-Jan-15	20-Mar-15	236						
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	21-Mar-15	28-Apr-15	236						

12-Mar-15 ♦ Design available for construction

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015					
								2014	Jan	Feb	Mar	Apr	
KLH Bridge - Deck 3													
Z2.KLH.1350	VBP6 - Pre-bored H-pile piling works (12 Nos.)	75%	15	60	22-Dec-14 A	05-Feb-15	-79						
Z2.KLH.1360	VBP6 - Pile cap, pier construction	0%	90	90	06-Feb-15	04-Jun-15	-79						
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	36%	48	75	20-Oct-14 A	24-Mar-15	-112						
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	25-Mar-15	26-Jun-15	-112						
KLH Bridge - Deck 2													
Z2.KLH.1144	Deck 2 Precast concrete beam production (30 beams)	0%	150	150	18-Mar-15	14-Aug-15	92						
Z2.KLH.1158	VBP4-Pre-drilling work	0%	15	15	28-Feb-15	17-Mar-15	81						
Z2.KLH.1160	VBP4- Pre-bored H-pile piling works (9 Nos.)	0%	27	27	16-Mar-15	18-Apr-15	81						
Z2.KLH.1170	VBP4- Pile cap, pier & pier head construction	0%	80	80	17-Apr-15	23-Jul-15	81						
Z2.KLH.1220	VBP5- Pile cap, pier, pier head construction	83.75%	13	80	20-Nov-14 A	03-Feb-15	25						
Z2.KLH.1222	VBP5 - Backfilling & Road Work for TTA for VBP4	0%	14	14	04-Feb-15	27-Feb-15	81						
KLH Bridge - Ramp R2													
Z2.KLH.1520	Ramp R2 - Pre-bored H-pile piling works (18 Nos.)	20.37%	43	54	27-Jun-14 A	18-Mar-15	31						
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	16-Mar-15	10-Aug-15	31						
Z2.KLH.1590	Land Possession for House 190B	0%	0	0		20-Jan-15'	-90						
Demolition of Existing Nam Wa Po Footbridge													
General													
Z2.NWP.1020	Temp. Steel Ramp, Pier, Deck Construction	82.22%	8	45	20-Oct-14 A	28-Jan-15	-99						
Z2.NWP.1030	Diversion of Existing Pedestrian to Temp. Steel Ramp	0%	1	1	29-Jan-15	29-Jan-15	-99						
Z2.NWP.1050	Removal of Existing Ramp Portion and Deck Above Existing TWSR	0%	30	30	30-Jan-15	13-Mar-15	-99						
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)													
Site Formation													
Site Formation Works													
Site Formation Work													
Z4SF1070	Backfilling (~20000m3)	70%	54	180	10-May-14 A	31-Mar-15	-184						
Retaining Wall W76													
Structure Works													
RW761085	Wall construction - W76 (~7m high)	42.5%	23	40	03-Oct-14 A	14-Feb-15	-153						
Z4SF1090	Watermains installation	0%	21	21	01-Apr-15	28-Apr-15	-184						
Z4SF1100	Firemain installation	0%	21	21	01-Apr-15	28-Apr-15	-184						
Bridge Construction													
New Ho Ka Yuen Footbridge													
General													
HKY1050	Structure steel procurement (HKYB)	17.33%	124	150	10-Dec-14 A	23-May-15	-226						
TWSR-West/ FL Highway N/B Side Section													
HKY1135	Soil nail works	0%	50	50	13-Dec-14 A	26-Mar-15	-195						
HKY1150	HKYP6 - Pre-bored H pile (8 nos)	0%	24	24	27-Mar-15	27-Apr-15	-195						
HKY1172	HKYP1 - Predrilling	0%	12	12	20-Jan-15	02-Feb-15	-38						
HKY1275	Existing HKY bridge structure removed (TWSR-W)	0%	0	0		20-Jan-15	-133						
HKY1280	HKYP7 - Predrilling	0%	18	18	17-Feb-15	17-Mar-15	-101						
HKY1320	HKYAB4 - Predrilling	0%	24	24	20-Jan-15	16-Feb-15	-133						
TWSR-East FL Highway S/B Side Section													
HKY1530	HKYAB1 - pile cap & abutment wall	13.33%	26	30	24-Nov-14 A	18-Feb-15	-90						
HKY1540	HKYAB1 - Backfilling (~3m)	0%	20	20	27-Feb-15	21-Mar-15	-90						
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	42.22%	26	45	24-Nov-14 A	18-Feb-15	-70						
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	0%	54	45	15-Oct-14 A	31-Mar-15	-68						
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	0%	77	45	18-Sep-14 A	30-Apr-15	-91						
HKY1840	HKYAB2 - pile cap & abutment wall	0%	88	60	01-Nov-14 A	14-May-15	-129						
TWSR-East Construction													
NB74 (Ch.7930-7980)-FH S/B Side													
Noise Barrier Works													
NB4005	NB74 - Footing & Wall Structure	0%	70	70	01-Apr-15	27-Jun-15	128						
ZONE 4 (Ch. 7925 to 8700)													
Noise Barrier Along TWSR-West and Laying New Utilities													
NB75 (Ch.7930-8090)-FH N/B Side													
Noise Barrier Works													
NB4100	NB75 -Pre-drilling (Ch7990-8000)-(HKY-P1)	0%	24	24	03-Feb-15	10-Mar-15	-38						
Bridge Construction													
New Wo Hop Shek Pedstrian & Cycle Bridge													
General													
WHS1040	Structure steel procurement (WHSB)	18%	123	150	10-Dec-14 A	22-May-15	331						
TWSR-West/ FL Highway N/B Side Section													
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	0%	24	24	03-Feb-15	10-Mar-15	224						
WHS1170	WHSP2 - Pile Test	0%	28	28	11-Mar-15	07-Apr-15	273						
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	25-Mar-15	20-May-15	224						
WHS1200	WHSP6 - Pre-bored H pile (6 nos)	0%	18	18	11-Mar-15	31-Mar-15	255						
WHS1210	WHSP6 - Pile Test	0%	28	28	01-Apr-15	28-Apr-15	317						
WHS1224	WHSP7 - Pre-bored H pile (6 nos)	0%	18	18	01-Apr-15	24-Apr-15	278						
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	0%	12	12	20-Jan-15	02-Feb-15	224						
WHS1250	WHSAB1 - Pile Test	0%	28	28	03-Feb-15	02-Mar-15	886						
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	17-Feb-15	31-Mar-15	703						
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	01-Apr-15	06-May-15	703						

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015					
								2014	Jan	Feb	Mar	Apr	
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	18	18	20-Jan-15	09-Feb-15	283						
WHS1896	WHSP3 - Pile Test	0%	28	28	10-Feb-15	09-Mar-15	353						
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	10-Mar-15	16-Apr-15	282						
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	0%	18	18	10-Feb-15	10-Mar-15	303						
WHS1920	WHSP4 - Pile Test	0%	28	28	11-Mar-15	07-Apr-15	378						
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	17-Apr-15	22-May-15	282						
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	0%	18	18	11-Mar-15	31-Mar-15	312						
WHS1960	WHSP5 - Pile Test	0%	28	28	01-Apr-15	28-Apr-15	393						
Crossing Fanling Highway Section													
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	0%	54	52	18-Jun-14 A	31-Mar-15	640						
TWSR-East FL Highway S/B Side Section													
WHS2075	North Abutment Wall (AW1) - Temp Shoring	77.78%	10	45	24-Nov-14 A	30-Jan-15	249						
WHS2080	North Abutment Wall (AW1) -pile cap & abutment wall	0%	60	60	31-Jan-15	22-Apr-15	509						
Slip Road Y Construction													
Drainage & Road Works													
TWSR-East FL Highway S/B Side Section													
RDZ41000	Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4	0%	95	95	15-Apr-15	07-Aug-15	-361						
Underground Utility Works													
DN600 and DN900 Watermain													
DN1030	DN600 & DN900 watermain laying (Ch7925-8050)(SA346)	16.67%	100	120	15-Nov-14 A	29-May-15	-88						
VO - Wall 76A Construction													
Retaining Wall W76A													
TWSR-East FL Highway S/B Side Section													
W76A1018	PCCW drawpitt construction	0%	26	26	19-Jan-15 A	18-Feb-15	-371						
W76A1019	W76A construction (bay 4,5 wall)	0%	23	1	15-Jan-15 A	14-Feb-15	-368						
W76A1020	W76A construction (bay 9)	0%	12	12	27-Feb-15	12-Mar-15	-371						
W76A1030	W76A backfilling work (bay 4,5,9)	0%	25	25	13-Mar-15	14-Apr-15	-371						
W76A1040	Stage 1 road work ready to start	0%	0	0	15-Apr-15		-371						
W76A1050	Drainage work for Caltex access road	0%	150	150	15-Apr-15	13-Oct-15	759						
Fanling Highway Construction													
Drainage & Road Works													
TWSR-East FL Highway S/B Side Section													
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4	0%	100	100	15-Apr-15	13-Aug-15	-371						
Other Works													
Retaining Wall W77A													
TWSR-East FL Highway S/B Side Section													
RWZ4.1060	Base slab & Wall (0-3m high)- RW77A (Ch.50-130)	0%	60	60	20-Jan-15	10-Apr-15	244						
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	11-Apr-15	16-May-15	499						
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	31-Jan-15	01-Apr-15	249						
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-50)	0%	90	90	11-Apr-15	29-Jul-15	244						
Retaining Wall W77B													
TWSR-East FL Highway S/B Side Section													
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-40)	0%	60	60	11-Apr-15	23-Jun-15	319						
Retaining Wall W78													
TWSR-East FL Highway S/B Side Section													
RWZ4.0900	Site Clearance	0%	30	30	20-Jan-15	03-Mar-15	409						
TCSS Works													
TCSS Pre-Construction Works													
TCSS0100	Acquire Design Criteria from Drawing & procurement	0%	180	180	20-Jan-15	02-Sep-15	310						

**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 14	Dec 14	Jan 15
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.		@	+	V
	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	V	V

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 14	Sep 14	Oct 14
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).		#	#	#
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		#	#	#
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		#	#	#
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		#	#	#
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		#	#	#
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		#	#	#
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		#	#	#
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		#	#	#

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 14	Sep 14	Oct 14
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	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. 		@	+	V

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 14	Sep 14	Oct 14
Waste management during construction	General Waste <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	@	@	@
	Vegetation from site clearance <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
	Demolition Wastes <ul style="list-style-type: none"> - Segregation of materials to facilitate disposal. - Appropriate stockpile management. 		V	V	V
	Excavated Materials <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
	Construction Wastes <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. 		V	V	V
	Bentonite Slurries <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	@	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	V	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 14	Sep 14	Oct 14
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	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	V	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	Responsibility		
			Aug 14	Sep 14	Oct 14
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

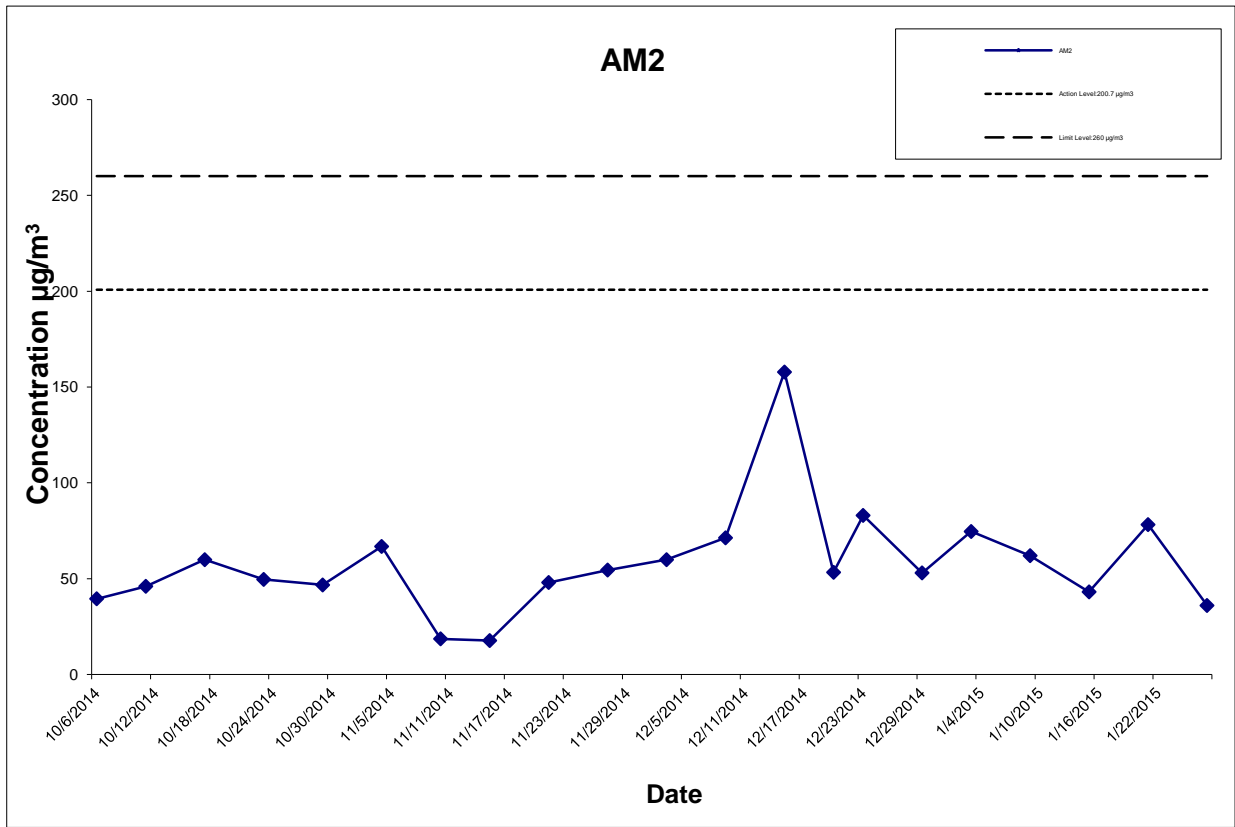
**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

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				
6-Oct-14	Sunny	26.8	1015.1	1.314	1.314	1.314	1892.2	2.7481	2.8228	0.0747	4545.02	4569.02	24.00	39.5	200.7	260
11-Oct-14	Sunny	27.9	1010.9	1.314	1.314	1.314	1892.2	2.7725	2.8595	0.0870	4617.02	4641.02	24.00	46.0	200.7	260
17-Oct-14	Sunny	25.0	1017.5	1.314	1.314	1.314	1892.2	2.7651	2.8784	0.1133	4614.02	4638.02	24.00	59.9	200.7	260
23-Oct-14	Fine	24.8	1016.2	1.314	1.314	1.314	1892.2	2.7916	2.8855	0.0939	4638.02	4662.02	24.00	49.6	200.7	260
29-Oct-14	Sunny	25.2	1017.0	1.314	1.314	1.314	1892.2	2.8114	2.8997	0.0883	4662.02	4686.02	24.00	46.7	200.7	260
4-Nov-14	Fine	22.8	1017.5	1.314	1.314	1.314	1892.2	2.7514	2.8778	0.1264	4686.02	4710.02	24.00	66.8	200.7	260
10-Nov-14	Sunny	23.3	1017.3	1.314	1.314	1.314	1892.2	2.7444	2.7795	0.0351	4710.02	4734.02	24.00	18.6	200.7	260
15-Nov-14	Sunny	21.9	1019.7	1.314	1.314	1.314	1892.2	2.7792	2.8126	0.0334	4734.02	4758.02	24.00	17.7	200.7	260
21-Nov-14	Fine	22.1	1017.0	1.314	1.314	1.314	1892.2	2.7746	2.8655	0.0909	4758.02	4782.02	24.00	48.0	200.7	260
27-Nov-14	Cloudy	22.2	1015.2	1.314	1.314	1.314	1892.2	2.7703	2.8734	0.1031	4782.02	4806.02	24.00	54.5	200.7	260
3-Dec-14	Cloudy	18.3	1017.4	1.314	1.314	1.314	1892.2	2.7865	2.8998	0.1133	4806.02	4830.02	24.00	59.9	200.7	260
9-Dec-14	Sunny	19.4	1021.5	1.314	1.314	1.314	1892.2	2.7735	2.9084	0.1349	4830.02	4854.02	24.00	71.3	200.7	260
15-Dec-14	Sunny	18.6	1020.9	1.314	1.314	1.314	1892.2	2.6991	2.9977	0.2986	4854.02	4878.02	24.00	157.8	200.7	260
20-Dec-14	Fine	14.7	1020.8	1.314	1.314	1.314	1892.2	2.7265	2.8274	0.1009	4878.02	4902.02	24.00	53.3	200.7	260
23-Dec-14	Sunny	15.4	1021.7	1.314	1.314	1.314	1892.2	2.7343	2.8913	0.1570	4902.02	4926.02	24.00	83.0	200.7	260
29-Dec-14	Sunny	14.0	1020.6	1.314	1.314	1.314	1892.2	2.7291	2.8293	0.1002	4926.02	4950.02	24.00	53.0	200.7	260
3-Jan-15	Sunny	15.5	1022.3	1.314	1.314	1.314	1892.2	2.7141	2.8552	0.1411	4950.02	4974.02	24.00	74.6	200.7	260
9-Jan-15	Sunny	15.5	1025.0	1.314	1.314	1.314	1892.2	2.7050	2.8223	0.1173	4974.02	4998.02	24.00	62.0	200.7	260
15-Jan-15	Fine	14.5	1022.7	1.314	1.314	1.314	1892.2	2.7285	2.8100	0.0815	4998.02	5022.02	24.00	43.1	200.7	260
21-Jan-15	Sunny	17.2	1020.9	1.314	1.314	1.314	1892.2	2.7261	2.8740	0.1479	5022.02	5046.02	24.00	78.2	200.7	260
27-Jan-15	Fine	18.3	1017.9	1.314	1.314	1.314	1892.2	2.6768	2.7450	0.0682	5046.03	5070.03	24.00	36.0	200.7	260

Average for the reporting quarter (Nov 14 to Jan 15)	61.1
Minimum for the reporting quarter (Nov 14 to Jan 15)	17.7
Maximum for the reporting quarter (Nov 14 to Jan 15)	157.8



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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

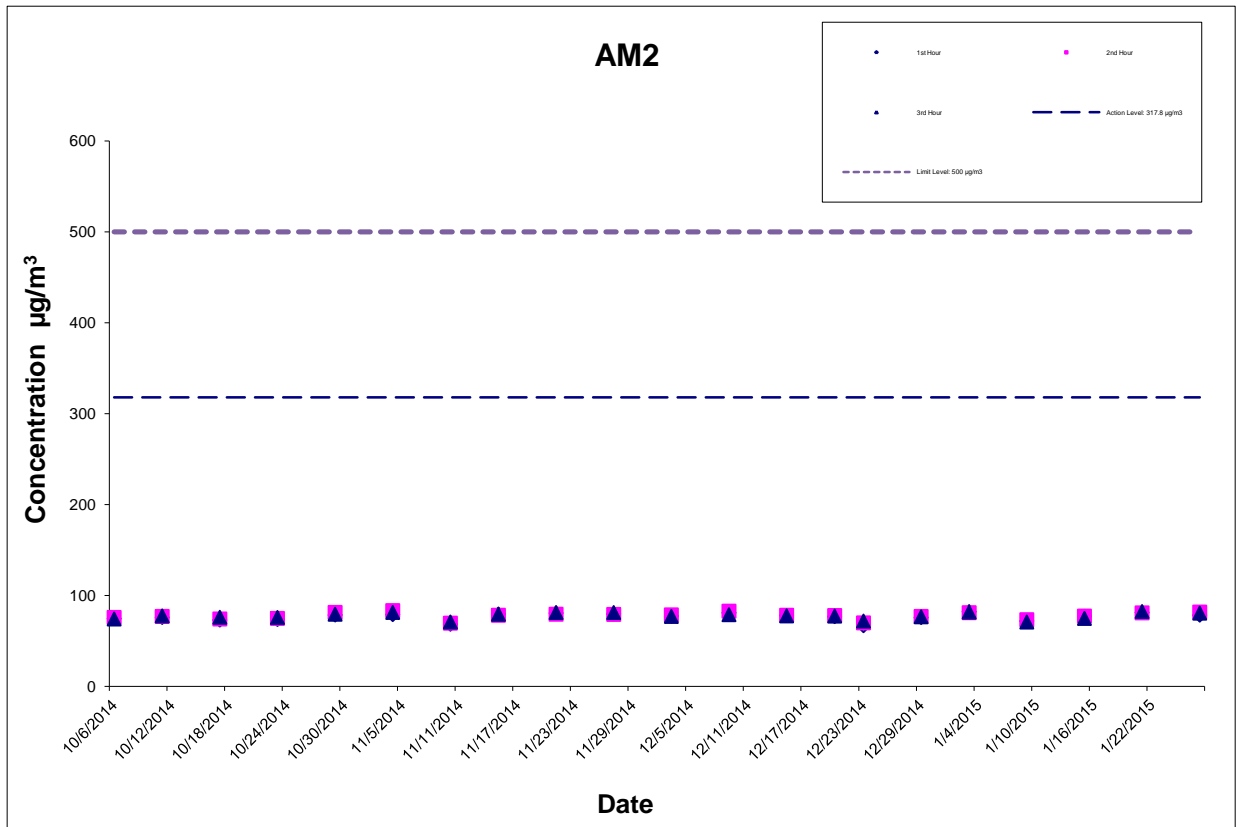
Date: Feb-15

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 Conc. ($\mu\text{g}/\text{m}^3$)	2nd Hour Conc. ($\mu\text{g}/\text{m}^3$)	3rd Hour Conc. ($\mu\text{g}/\text{m}^3$)
6-Oct-14	14:12	74.4	75.7	74.0
11-Oct-14	14:10	75.7	76.8	77.4
17-Oct-14	13:30	72.8	74.0	75.9
23-Oct-14	16:00	73.5	74.6	75.7
29-Oct-14	12:00	78.4	81.2	79.2
4-Nov-14	12:30	78.8	83.2	81.2
10-Nov-14	10:00	68.2	69.4	70.7
15-Nov-14	13:04	79.4	78.1	79.2
21-Nov-14	12:31	80.5	79.2	81.1
27-Nov-14	13:15	79.6	79.0	81.1
3-Dec-14	12:34	77.2	78.5	76.8
9-Dec-14	13:05	80.8	82.6	78.7
15-Dec-14	11:18	77.9	78.1	77.4
20-Dec-14	13:20	76.6	77.8	77.2
23-Dec-14	13:45	66.6	69.7	71.7
29-Dec-14	14:00	75.6	76.8	76.4
3-Jan-15	14:03	82.1	80.9	81.6
9-Jan-15	10:15	71.7	73.2	70.6
15-Jan-15	13:08	76.9	77.2	74.6
21-Jan-15	11:47	81.1	80.7	82.2
27-Jan-15	10:39	78.2	81.6	80.4
Average for the reporting quarter (Nov 14 to Jan 15)				77.5
Minimum for the reporting quarter (Nov 14 to Jan 15)				66.6
Maximum for the reporting quarter (Nov 14 to Jan 15)				83.2



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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-15

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

Climatological Information Services > Extracts of Climatological Data > Extract of Automatic Weather Station > Station: Tai Po Automatic Weather Station, Year: 2014, Month: November

Extract of Meteorological Observations for Tai Po Automatic Weather Station, November 2014 (Table 1)

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
Nov 1	1012.8	28.2	25.0	21.9	21.6	93	82	65
Nov 2	1015.2	26.9	24.8	22.1	18.8	90	70	56
Nov 3	1017.6	22.1	20.6	19.8	13.1	75	62	53
Nov 4	1017.4	23.3	22.4	20.8	17.4	78	73	68
Nov 5	1017.3	24.2	23.5	23.2	19.2	82	77	71
Nov 6	1016.9	26.2	23.7	21.3	19.8	90	79	68
Nov 7	1017.2	24.0	22.4	20.9	20.5	97	89	80
Nov 8	1018.2	21.7	19.4	18.3	18.7	98	96	87
Nov 9	1018.5	23.3	21.2	18.3	18.1	93	83	75
Nov 10	1017.3	24.0	22.7	21.3	19.0	91	80	68
Nov 11	1016.5	24.3	23.3	21.9	19.6	88	80	73
Nov 12	1017.8	22.5	20.8	17.6	17.7	96	82	71
Nov 13	1020.6	21.5	18.6	16.6	14.9	97	80	67
Nov 14	1020.1#	22.1	19.6#	17.1	15.3#	86	77#	67
Nov 15	1019.8	24.4	21.9	20.1	16.6	89	73	57
Nov 16	1017.9	25.2	21.7	18.3	16.7	92	74	56
Nov 17	1019.6	23.9	20.0	17.1	13.2	79	65	53
Nov 18	1021.8	22.8	20.0	16.4	12.8	75	64	55
Nov 19	1020.8	23.2	20.1	17.2	14.0	83	68	54
Nov 20	1018.5	23.3	21.2	19.3	15.9	84	72	56
Nov 21	1017.1	24.5	21.9	19.5	16.8	86	73	56
Nov 22	1016.5	25.4	22.0	18.9	18.1	94	79	58
Nov 23	1016.8	25.3	22.7	21.1	18.6	89	78	64
Nov 24	1015.4	26.9	23.2	20.3	18.7	91	77	60
Nov 25	1013.3	27.2	23.3	19.8	19.4	92	79	64
Nov 26	1013.7	24.0	22.7	20.5	19.0	89	80	73
Nov 27	1015.2	23.0	22.2	21.4	18.6	88	80	71
Nov 28	1014.8	24.5	23.0	21.8	20.3	90	85	78
Nov 29	1013.4	24.1	23.3	22.7	21.1	95	88	75
Nov 30	1012.8	25.9	24.0	22.7	22.4	96	91	81
Mean	1017.0#	24.3	22.0#	19.9	17.9#	89	78#	66

Maximum	1021.8#	28.2	25.0#	23.2	22.4#	98	96#	87
Minimum	1012.8#	21.5	18.6#	16.4	12.8#	75	62#	53

Extract of Meteorological Observations for Tai Po Automatic Weather Station, November 2014 (Table 2)

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
Nov 1	*****	***	*****
Nov 2	*****	***	*****
Nov 3	*****	***	*****
Nov 4	*****	***	*****
Nov 5	*****	***	*****
Nov 6	*****	***	*****
Nov 7	*****	***	*****
Nov 8	*****	***	*****
Nov 9	*****	***	*****
Nov 10	*****	***	*****
Nov 11	*****	***	*****
Nov 12	*****	***	*****
Nov 13	*****	***	*****
Nov 14	*****	***	*****
Nov 15	*****	***	*****
Nov 16	*****	***	*****
Nov 17	*****	***	*****
Nov 18	*****	***	*****
Nov 19	*****	***	*****
Nov 20	*****	***	*****
Nov 21	*****	***	*****
Nov 22	*****	***	*****
Nov 23	*****	***	*****
Nov 24	*****	***	*****
Nov 25	*****	***	*****
Nov 26	*****	***	*****
Nov 27	*****	***	*****
Nov 28	*****	***	*****
Nov 29	*****	***	*****
Nov 30	*****	***	*****
Mean	-----	***	*****
Total	*****	---	-----
Maximum	*****	---	*****
Minimum	*****	---	*****

*** unavailable

missing (less than 24 hourly observations a day)

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

Climatological Information Services > Extracts of Climatological Data > Extract of Automatic Weather Station > Station: Tai Mei Tuk Automatic Weather Station, Year: 2014, Month: November

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, November 2014 (Table 1)

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
Nov 1	*****	30.5	25.5	22.8	****	***	***	***
Nov 2	*****	28.2	24.7	21.3	****	***	***	***
Nov 3	*****	22.1	20.9	19.9	****	***	***	***
Nov 4	*****	23.7	22.5	21.5	****	***	***	***
Nov 5	*****	26.3	23.5	22.8	****	***	***	***
Nov 6	*****	29.8	24.5	22.3	****	***	***	***
Nov 7	*****	24.1	22.2	20.9	****	***	***	***
Nov 8	*****	21.5	19.7	18.6	****	***	***	***
Nov 9	*****	25.1	21.6	18.9	****	***	***	***
Nov 10	*****	25.9	23.1	21.7	****	***	***	***
Nov 11	*****	26.8	23.5	22.1	****	***	***	***
Nov 12	*****	24.3	21.5	18.2	****	***	***	***
Nov 13	*****	22.1	19.1	17.5	****	***	***	***
Nov 14	*****	22.9	20.2#	17.7	****	***	***	***
Nov 15	*****	26.3	22.1	19.5	****	***	***	***
Nov 16	*****	28.5	23.0#	19.8	****	***	***	***
Nov 17	*****	25.0	20.6	17.5	****	***	***	***
Nov 18	*****	24.4	20.4	17.0	****	***	***	***
Nov 19	*****	24.8	20.9	18.4	****	***	***	***
Nov 20	*****	25.4	21.4	18.9	****	***	***	***
Nov 21	*****	26.5	22.2	19.2	****	***	***	***
Nov 22	*****	27.0	23.8#	20.7	****	***	***	***
Nov 23	*****	27.1	23.0	20.9	****	***	***	***
Nov 24	*****	28.5	23.6	20.8	****	***	***	***
Nov 25	*****	29.9	24.3	20.7	****	***	***	***
Nov 26	*****	25.5	22.9	21.0	****	***	***	***
Nov 27	*****	23.9	22.3	21.1	****	***	***	***
Nov 28	*****	26.0	23.3	21.7	****	***	***	***
Nov 29	*****	24.0	23.3	22.9	****	***	***	***
Nov 30	*****	28.3	24.4	22.8	****	***	***	***
Mean	*****	25.8	22.5#	20.3	****	***	***	***

Maximum	*****	30.5	25.5#	22.9	****	***	***	***
Minimum	*****	21.5	19.1#	17.0	****	***	***	***

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,
November 2014 (Table 2)**

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
Nov 1	0.0	140	6.6
Nov 2	0.0	050	15.8
Nov 3	0.0	040	11.3
Nov 4	0.0	110	12.3
Nov 5	0.0	100	15.0
Nov 6	0.0	040	9.0
Nov 7	8.5	080	25.5
Nov 8	7.5	050	12.1
Nov 9	0.5	040	11.4
Nov 10	0.0	090	15.0
Nov 11	0.0	090	12.8
Nov 12	0.0	040	10.0
Nov 13	0.0	040	10.8
Nov 14	0.0#	040#	10.6#
Nov 15	0.0	060	16.0
Nov 16	0.0	050#	10.3#
Nov 17	0.0	030	12.2
Nov 18	0.0	040	11.7
Nov 19	0.0	050	11.8
Nov 20	0.0	050	14.4
Nov 21	0.0	050	10.8
Nov 22	0.0#	090#	13.9#
Nov 23	0.0	090	14.2
Nov 24	0.0	060	8.7
Nov 25	0.0	260	3.3
Nov 26	0.0	090	14.2
Nov 27	0.0	080	15.3
Nov 28	0.0	130	6.7
Nov 29	0.0	090	14.2
Nov 30	1.0	070	9.5
Mean	-----	050#	12.2#
Total	17.5#	---	-----
Maximum	8.5#	---	25.5#
Minimum	0.0#	---	3.3#

*** unavailable

missing (less than 24 hourly observations a day)

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

Climatological Information Services > Extracts of Climatological Data > Extract of Automatic Weather Station > Station: Tai Po Automatic Weather Station, Year: 2014, Month: December

Extract of Meteorological Observations for Tai Po Automatic Weather Station, December 2014 (Table 1)

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
Dec 1	1017.0	23.4	17.7	14.1	15.3	97	86	70
Dec 2	1020.0	16.7	15.0	13.7	12.9	97	87	77
Dec 3	1017.7	19.2	18.0	16.3	15.5	96	85	79
Dec 4	1021.9	17.3	13.0	11.6	10.5	97	85	65
Dec 5	1022.9	16.6	13.4	10.2	7.7	94	70	47
Dec 6	1020.5	18.9	16.7	13.4	10.8	75	68	54
Dec 7	1019.8	18.6	17.2	15.7	10.9	74	67	57
Dec 8	1021.0	20.8	17.1	13.7	12.1	86	73	56
Dec 9	1021.6	22.0	19.3	16.1	13.3	88	69	56
Dec 10	1019.6	21.7	19.8	18.3	14.7	83	72	60
Dec 11	1020.3	20.5	18.6	15.6	9.4	62	55	48
Dec 12	1025.1	15.9	14.4	12.8	3.5	60	49	35
Dec 13	1026.2	16.9	13.0	9.2	1.8	64	47	34
Dec 14	1023.9	18.8	14.4	10.6	6.3	76	59	38
Dec 15	1021.3	19.0	17.6	14.5	10.9	84	65	54
Dec 16	1025.5	18.2	16.2	13.7	1.9	70	41	15
Dec 17	1027.9	16.0	12.7	10.1	-7.3	43	25	15
Dec 18	1027.0	14.7	12.1	8.4	0.6	82	46	29
Dec 19	1024.8#	14.5	11.5#	9.8	9.2#	96	86#	58
Dec 20	1021.3	18.3	14.0	9.3	7.6	95	68	40
Dec 21	1023.8	19.2	16.3	12.6	5.5	80	51	30
Dec 22	1024.9	15.1	12.2	8.3	1.9	68	50	32
Dec 23	1022.3	15.4	13.9	13.1	7.9	79	67	47
Dec 24	1022.0	20.8	17.4	13.6	12.6	79	74	63
Dec 25	1021.3	19.4	16.6	14.8	12.7	97	79	48
Dec 26	1021.1	17.0	16.0	14.8	13.8	98	87	76
Dec 27	1022.2	16.7	15.8	13.8	13.4	97	86	77
Dec 28	1023.2	15.4	13.5	11.0	10.5	98	83	64
Dec 29	1021.1	17.6	12.7	9.1	4.5	79	59	32
Dec 30	1020.2	18.5	13.1	9.0	6.1	89	65	35
Dec 31	1022.1	20.6	14.4	9.3	6.6	89	62	30

Mean	1022.2#	18.2	15.3#	12.5	8.5#	83	66#	49
Maximum	1027.9#	23.4	19.8#	18.3	15.5#	98	87#	79
Minimum	1017.0#	14.5	11.5#	8.3	-7.3#	43	25#	15

Extract of Meteorological Observations for Tai Po Automatic Weather Station, December 2014 (Table 2)

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
Dec 1	*****	***	*****
Dec 2	*****	***	*****
Dec 3	*****	***	*****
Dec 4	*****	***	*****
Dec 5	*****	***	*****
Dec 6	*****	***	*****
Dec 7	*****	***	*****
Dec 8	*****	***	*****
Dec 9	*****	***	*****
Dec 10	*****	***	*****
Dec 11	*****	***	*****
Dec 12	*****	***	*****
Dec 13	*****	***	*****
Dec 14	*****	***	*****
Dec 15	*****	***	*****
Dec 16	*****	***	*****
Dec 17	*****	***	*****
Dec 18	*****	***	*****
Dec 19	*****	***	*****
Dec 20	*****	***	*****
Dec 21	*****	***	*****
Dec 22	*****	***	*****
Dec 23	*****	***	*****
Dec 24	*****	***	*****
Dec 25	*****	***	*****
Dec 26	*****	***	*****
Dec 27	*****	***	*****
Dec 28	*****	***	*****
Dec 29	*****	***	*****
Dec 30	*****	***	*****
Dec 31	*****	***	*****
Mean	-----	***	*****
Total	*****	---	-----

Maximum	*****	---	*****
Minimum	*****	---	*****

*** unavailable

missing (less than 24 hourly observations a day)

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

Climatological Information Services > Extracts of Climatological Data > Extract of Automatic Weather Station > Station: Tai Mei Tuk Automatic Weather Station, Year: 2014, Month: December

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, December 2014 (Table 1)

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
Dec 1	*****	23.5	17.9	14.5	****	***	***	***
Dec 2	*****	17.1	15.4	13.7	****	***	***	***
Dec 3	*****	19.2	17.9	15.4	****	***	***	***
Dec 4	*****	18.4	13.4	11.6	****	***	***	***
Dec 5	*****	17.8	14.4	11.2	****	***	***	***
Dec 6	*****	20.5	17.6	15.0	****	***	***	***
Dec 7	*****	19.2	17.4	16.3	****	***	***	***
Dec 8	*****	22.7	17.8	14.4	****	***	***	***
Dec 9	*****	23.2	19.5	15.3	****	***	***	***
Dec 10	*****	22.5	19.7	15.8	****	***	***	***
Dec 11	*****	22.3	19.1	16.1	****	***	***	***
Dec 12	*****	16.5	14.5	12.2	****	***	***	***
Dec 13	*****	18.9	14.0	9.9	****	***	***	***
Dec 14	*****	20.8	15.7	12.0	****	***	***	***
Dec 15	*****	20.2	17.9	15.7	****	***	***	***
Dec 16	*****	18.4	16.0	12.5	****	***	***	***
Dec 17	*****	16.0	12.9	9.9	****	***	***	***
Dec 18	*****	16.0	13.1	10.2	****	***	***	***
Dec 19	*****	14.2	11.9	9.9	****	***	***	***
Dec 20	*****	20.0	14.5	10.5	****	***	***	***
Dec 21	*****	20.0	15.7	11.8	****	***	***	***
Dec 22	*****	17.0	12.9	9.1	****	***	***	***
Dec 23	*****	15.8	14.4	13.6	****	***	***	***
Dec 24	*****	22.5	17.8	13.9	****	***	***	***
Dec 25	*****	18.6	16.5	14.9	****	***	***	***
Dec 26	*****	17.4	15.8	14.8	****	***	***	***
Dec 27	*****	16.9	15.7	14.5	****	***	***	***
Dec 28	*****	16.2	13.5	10.9	****	***	***	***
Dec 29	*****	18.7	13.2	8.9	****	***	***	***
Dec 30	*****	20.6	14.2	9.9	****	***	***	***
Dec 31	*****	21.9	15.8	10.9	****	***	***	***

Mean	*****	19.1	15.7	12.8	****	***	***	***
Maximum	*****	23.5	19.7	16.3	****	***	***	***
Minimum	*****	14.2	11.9	8.9	****	***	***	***

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, December 2014 (Table 2)

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
Dec 1	7.5	030	11.2
Dec 2	1.5	020	14.6
Dec 3	2.5	040	16.0
Dec 4	8.0	040	18.7
Dec 5	1.0	040	7.7
Dec 6	0.0	080	19.6
Dec 7	0.0	040	14.2
Dec 8	0.0	050	8.5
Dec 9	0.0	100	16.5
Dec 10	0.0	050	8.3
Dec 11	0.0	020	11.3
Dec 12	0.0	030	17.3
Dec 13	0.0	040	11.1
Dec 14	0.0	050	10.2
Dec 15	0.0	050	9.2
Dec 16	0.0	040	27.1
Dec 17	0.0	030	23.3
Dec 18	0.0	050	12.3
Dec 19	5.5	030	11.2
Dec 20	0.0	050	13.8
Dec 21	0.0	040	22.2
Dec 22	0.0	070	9.2
Dec 23	0.0	050	10.3
Dec 24	0.0	270	6.5
Dec 25	3.5	060	11.7
Dec 26	2.0	050	16.8
Dec 27	2.0	050	13.3
Dec 28	2.5	040	12.6
Dec 29	0.0	040	8.6
Dec 30	0.0	130	4.8
Dec 31	0.0	050	4.9
Mean	-----	040	13.0
Total	36.0	---	-----

Maximum	8.0	---	27.1
Minimum	0.0	---	4.8

*** unavailable

missing (less than 24 hourly observations a day)

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

Climatological Information Services > Extracts of Climatological Data > Extract of Automatic Weather Station > Station: Tai Po Automatic Weather Station, Year: 2015, Month: January

Extract of Meteorological Observations for Tai Po Automatic Weather Station, January 2015 (Table 1)

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
Jan 1	1025.0	19.0	14.8	11.4	6.9	87	61	33
Jan 2	1025.4	17.6	14.7	12.4	8.1	89	66	43
Jan 3	1022.5#	18.3	14.5#	11.0	8.5#	88	68#	41
Jan 4	1017.4	20.4	16.6	12.8	12.6	94	79	52
Jan 5	1014.7	20.6	19.0	17.3	15.9	88	82	75
Jan 6	1015.1	23.8	19.5	17.7	17.2	97	87	70
Jan 7	1020.2	19.0	17.3	15.1	13.1	99	78	58
Jan 8	1025.7	17.5	14.7	11.8	8.1	87	65	51
Jan 9	1025.5	17.5	14.4	12.3	8.3	88	68	43
Jan 10	1023.9	18.8	15.0	11.1	8.8	85	68	42
Jan 11	1022.7	18.8	16.3	14.0	9.6	82	65	42
Jan 12	1022.3	16.6	13.1	11.3	10.5	96	85	61
Jan 13	1021.6	13.1	11.9	10.2	10.5	98	91	79
Jan 14	1022.8	17.0	13.2	9.2	6.3	91	65	42
Jan 15	1023.3	17.1	12.6	7.5	6.6	86	68	44
Jan 16	1022.9	21.0	15.9	12.3	9.4	89	67	40
Jan 17	1024.6	17.9	14.8	11.3	8.2	87	66	44
Jan 18	1024.3	19.3	15.6	12.4	7.6	89	61	33
Jan 19	1023.0	19.4	14.2	9.9	4.9	82	56	30
Jan 20	1021.7	18.6	15.0	12.0	8.1	85	65	41
Jan 21	1021.3	21.2	15.9	11.4	9.7	87	68	43
Jan 22	1022.0	20.6	15.8	11.8	5.2	75	51	27
Jan 23	1021.0	18.9	15.1	11.1	9.0	83	68	42
Jan 24	1019.6	18.0	17.0	15.8	12.9	90	77	68
Jan 25	1019.1	20.6	18.3	16.4	15.2	92	82	71
Jan 26	1018.8	20.9	18.3	15.2	15.4	94	84	71
Jan 27	1018.2	21.0	18.0	16.4	15.1	92	83	69
Jan 28	1019.3	17.1	16.3	15.8	12.5	86	78	68
Jan 29	1020.0	19.0	16.2	13.0	12.3	90	78	63
Jan 30	1022.3	18.4	15.7	13.9	11.9	94	79	63
Jan 31	1026.3	15.7	13.9	11.7	11.1	95	83	73

Mean	1021.7#	18.8	15.6#	12.8	10.3#	89	72#	52
Maximum	1026.3#	23.8	19.5#	17.7	17.2#	99	91#	79
Minimum	1014.7#	13.1	11.9#	7.5	4.9#	75	51#	27

**Extract of Meteorological Observations for Tai Po Automatic Weather Station, January 2015
(Table 2)**

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
Jan 1	*****	***	*****
Jan 2	*****	***	*****
Jan 3	*****	***	*****
Jan 4	*****	***	*****
Jan 5	*****	***	*****
Jan 6	*****	***	*****
Jan 7	*****	***	*****
Jan 8	*****	***	*****
Jan 9	*****	***	*****
Jan 10	*****	***	*****
Jan 11	*****	***	*****
Jan 12	*****	***	*****
Jan 13	*****	***	*****
Jan 14	*****	***	*****
Jan 15	*****	***	*****
Jan 16	*****	***	*****
Jan 17	*****	***	*****
Jan 18	*****	***	*****
Jan 19	*****	***	*****
Jan 20	*****	***	*****
Jan 21	*****	***	*****
Jan 22	*****	***	*****
Jan 23	*****	***	*****
Jan 24	*****	***	*****
Jan 25	*****	***	*****
Jan 26	*****	***	*****
Jan 27	*****	***	*****
Jan 28	*****	***	*****
Jan 29	*****	***	*****
Jan 30	*****	***	*****
Jan 31	*****	***	*****
Mean	-----	***	*****

Total	*****	---	-----
Maximum	*****	---	*****
Minimum	*****	---	*****

*** unavailable

missing (less than 24 hourly observations a day)

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

Climatological Information Services > Extracts of Climatological Data > Extract of Automatic Weather Station > Station: Tai Mei Tuk Automatic Weather Station, Year: 2015, Month: January

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, January 2015 (Table 1)

Date	Mean Pressure at M.S.L. (hPa)	Air Temperature			Mean Dew Point Temperature (deg C)	Relative Humidity		
		Max. (deg C)	Mean (deg C)	Min. (deg C)		Max. (%)	Mean (%)	Min. (%)
Jan 1	*****	20.3	15.0	12.0	****	***	***	***
Jan 2	*****	19.8	14.0	10.7	****	***	***	***
Jan 3	*****	19.6	14.7	10.5	****	***	***	***
Jan 4	*****	22.1	17.1	13.6	****	***	***	***
Jan 5	*****	22.3	19.1	17.4	****	***	***	***
Jan 6	*****	26.4	20.1	17.3	****	***	***	***
Jan 7	*****	19.5	17.1	13.9	****	***	***	***
Jan 8	*****	19.6	14.4	11.2	****	***	***	***
Jan 9	*****	19.7	14.6	11.7	****	***	***	***
Jan 10	*****	20.6	15.3	11.6	****	***	***	***
Jan 11	*****	19.8	15.7	12.3	****	***	***	***
Jan 12	*****	15.9	12.8	11.2	****	***	***	***
Jan 13	*****	13.4	11.8	10.0	****	***	***	***
Jan 14	*****	18.2	13.3	9.2	****	***	***	***
Jan 15	*****	19.3	13.9	8.8	****	***	***	***
Jan 16	*****	22.3	16.6	12.1	****	***	***	***
Jan 17	*****	19.5	15.2	12.2	****	***	***	***
Jan 18	*****	20.3	16.0	11.8	****	***	***	***
Jan 19	*****	21.3	15.2	10.7	****	***	***	***
Jan 20	*****	21.3	15.5	12.4	****	***	***	***
Jan 21	*****	23.2	16.3	11.8	****	***	***	***
Jan 22	*****	23.5	17.2	12.7	****	***	***	***
Jan 23	*****	20.9	15.4	11.9	****	***	***	***
Jan 24	*****	19.2	15.8	14.6	****	***	***	***
Jan 25	*****	22.8	17.9	14.9	****	***	***	***
Jan 26	*****	23.5	18.4	15.7	****	***	***	***
Jan 27	*****	22.1	18.3	16.4	****	***	***	***
Jan 28	*****	18.4	15.9	14.1	****	***	***	***
Jan 29	*****	20.8	17.1#	14.0	****	***	***	***
Jan 30	*****	20.6	16.2	14.1	****	***	***	***
Jan 31	*****	16.5	14.3	12.5	****	***	***	***

Mean	*****	20.4	15.8#	12.7	****	***	***	***
Maximum	*****	26.4	20.1#	17.4	****	***	***	***
Minimum	*****	13.4	11.8#	8.8	****	***	***	***

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, January 2015 (Table 2)

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
Jan 1	0.0	040	15.7
Jan 2	0.0	050	12.8
Jan 3	0.0	050	10.8
Jan 4	0.0	060	10.0
Jan 5	0.0	120	8.0
Jan 6	0.0	130	4.2
Jan 7	0.0	050	12.0
Jan 8	0.0	040	12.0
Jan 9	0.0	030	9.6
Jan 10	0.0	050	10.4
Jan 11	0.0	040	13.3
Jan 12	19.5	030	21.4
Jan 13	22.5	040	11.6
Jan 14	0.0	040	17.9
Jan 15	0.0	130	6.5
Jan 16	0.0	050	9.6
Jan 17	0.0	050	18.3
Jan 18	0.0	040	15.9
Jan 19	0.0	110	7.7
Jan 20	0.0	060	8.3
Jan 21	0.0	260	3.6
Jan 22	0.0	040	11.5
Jan 23	0.0	070	10.2
Jan 24	0.0	070	14.8
Jan 25	0.0	060	6.7
Jan 26	0.0	050	8.5
Jan 27	0.0	080	13.8
Jan 28	0.0	090	24.5
Jan 29	0.0#	060#	10.5#
Jan 30	0.0	050	9.5
Jan 31	0.0	040	11.3
Mean	-----	050#	11.7#
Total	42.0#	---	-----

Maximum	22.5#	---	24.5#
Minimum	0.0#	---	3.6#

*** unavailable

missing (less than 24 hourly observations a day)

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*		
6-Oct-14	15:15	68.4	70.3	65.2	75	N
17-Oct-14	14:15	67.0	68.6	64.7	75	N
23-Oct-14	14:13	68.2	70.1	65.5	75	N
29-Oct-14	13:05	70.2	73.1	68.0	75	N
4-Nov-14	13:02	71.2	74.8	69.6	75	N
10-Nov-14	14:00	69.8	72.0	67.5	75	N
21-Nov-14	11:37	65.9	68.0	61.9	75	N
27-Nov-14	14:12	64.7	66.9	62.0	75	N
3-Dec-14	13:40	69.2	71.1	66.6	75	N
9-Dec-14	14:10	69.6	71.9	67.5	75	N
15-Dec-14	10:08	68.8	71.3	65.0	75	N
23-Dec-14	14:35	69.0	71.5	66.0	75	N
29-Dec-14	14:45	68.2	70.3	65.4	75	N
9-Jan-15	11:05	68.1	70.0	66.0	75	N
15-Jan-15	14:30	70.3	72.1	67.4	75	N
21-Jan-15	11:21	68.6	70.4	63.2	75	N
27-Jan-15	11:30	68.1	71.5	65.3	75	N
Minimum for Nov 14 to Jan 15		64.7	66.9	61.9		
Maximum for Nov 14 to Jan 15		70.3	72.1	67.5		
Average for Nov 14 to Jan 15		68.9	71.3	66.2		

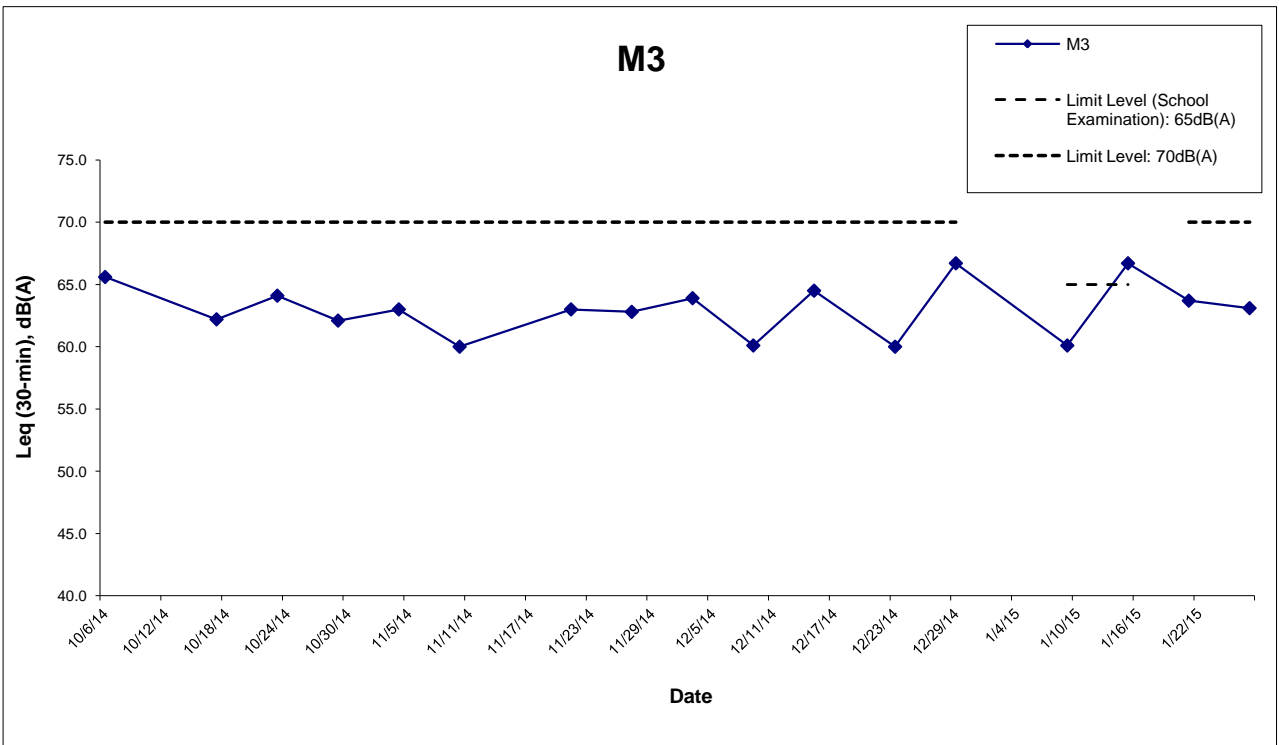
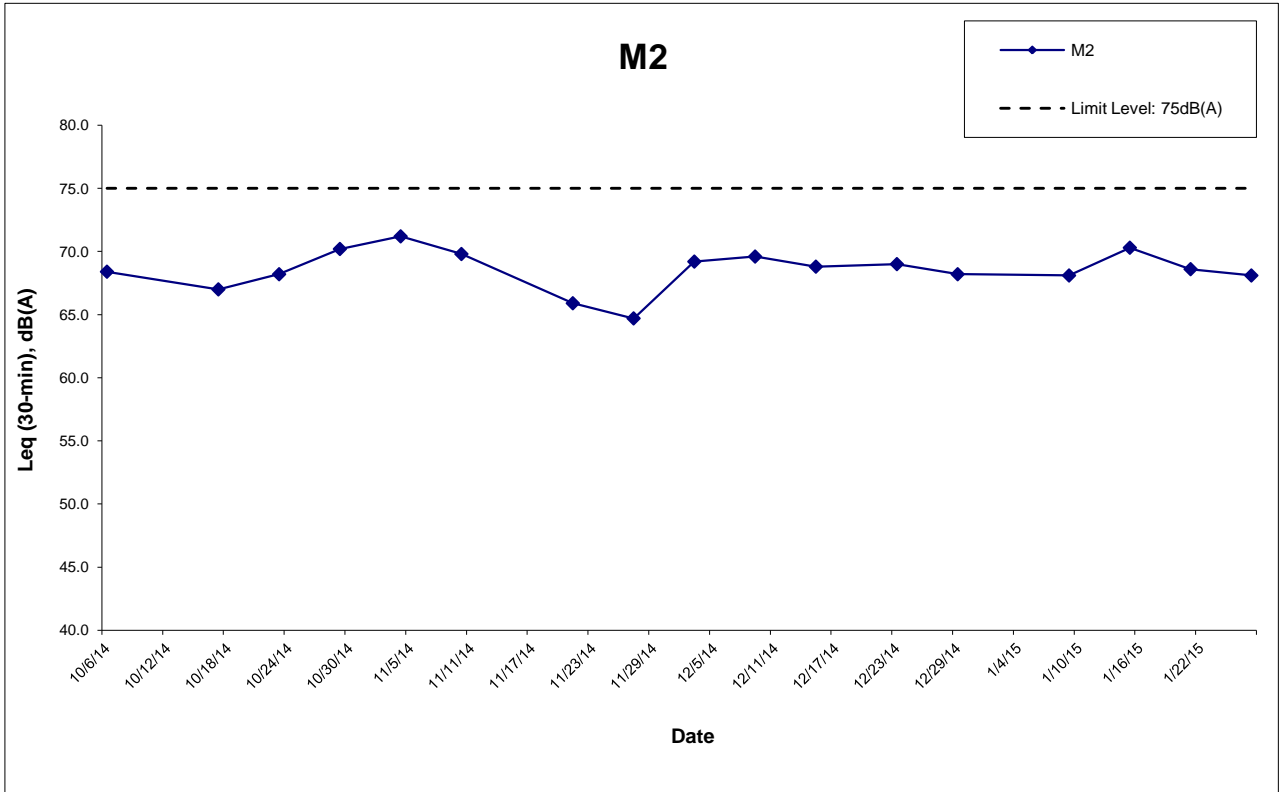
Location : M3 (Fanling Government Secondary School- Façade)

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		
6-Oct-14	16:10	65.6	67.7	62.8	70	N
17-Oct-14	13:35	62.2	63.5	59.5	70	N
23-Oct-14	13:05	64.1	65.8	62.0	70	N
29-Oct-14	13:05	62.1	64.8	59.3	70	N
4-Nov-14	14:00	63.0	66.4	61.0	70	N
10-Nov-14	13:10	60.0	61.5	57.5	70	N
21-Nov-14	13:00	63.0	65.6	60.8	70	N
27-Nov-14	13:20	62.8	64.1	59.8	70	N
3-Dec-14	14:32	63.9	65.4	60.1	70	N
9-Dec-14	13:10	60.1	61.4	57.5	70	N
15-Dec-14	11:21	64.5	66.7	61.3	70	N
23-Dec-14	13:50	60.0	61.5	57.0	70	N
29-Dec-14	14:00	66.7	68.4	64.8	70	N
9-Jan-15	10:15	60.1	61.4	56.5	65	N
15-Jan-15	13:12	66.7	68.5	63.1	65	Y
21-Jan-15	14:02	63.7	64.8	59.8	70	N
27-Jan-15	10:40	63.1	67.2	60.6	70	N
Minimum for Nov 14 to Jan 15		60.0	61.4	56.5		
Maximum for Nov 14 to Jan 15		66.7	68.5	64.8		
Average for Nov 14 to Jan 15		63.5	65.5	60.6		

* +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

**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 reporting period	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	4
	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		

Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
23 October 2014	<p>EPD referred an air complaint on 24 October 2014.</p> <p>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.</p> <p>The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up.</p> <p>The location of complaint is near Lamppost Location EB5717.</p>	Closed		
31 December 2014	<p>EPD referred a water complaint on 31 December 2014.</p> <p>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.</p> <p>He required the EPD to follow up.</p>	Closed		
Notification of summons	-	-	0	0

	Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
Successful Prosecutions	-	-	-	0	0