



Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
– Tai Hang to Wo Hop Shek
Interchange****Quarterly EM&A Report
for August to October 2015**

[12/2015]

	Name	Signature
Prepared & Checked:	Oscar Yip	
Reviewed & Approved:	Y W Fung	

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AECOM Asia Co. Ltd.
15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong
Tel: (852) 3922 9000 Fax: (852) 2317 7609 www.aecom.com

Our ref JFP/EC/ST/ro/T329380/22.05/L-0098
T 2828 5920
E steven.tang@mottmac.com.hk
Your ref

Hyder-Arup-Black & Veatch Joint Venture
c/o Arcadis
20/F, AXA Tower, Landmark East,
100 How Ming Street,
Kwun Tong, Hong Kong

Dear Sir,

9 December 2015
By Fax (2805 5028) & Hand

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/D
Quarterly EM&A Summary Report for August to October 2015 for the portion of Stage 2 works under Contract No. HY/2012/06**

We refer to the revised Quarterly EM&A Summary Report for August to October 2015 for the captioned Project received on 9 December 2015 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c. HyD – Mr. Chung Lok Chin / 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/C) 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 August to 31 October 2015. As informed by the Contractor, construction activities in the reporting period were as follows:

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

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

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

Breaches of Action and Limit Levels for Noise

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

Complaint, Notification of Summons and Successful Prosecution

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

Future Key Issues

Key issues to be considered in the coming month include:

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

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

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

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	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
- Piling works
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- Temporary bridge construction
- House construction
- Footbridge demolition
- Bridge construction

- 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, cloudy and rainy 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)	77.0	68.6 – 84.6	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)	40.2	18.0 – 87.6	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*	69.2	68.4 – 70.6	75
M3#	63.8	61.1 – 67.2	65/70

*+3dB(A) Façade correction included

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

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor, 4,383 m³ of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0m³ was broken concrete), while 205 m³ of general refuse was disposed of at NENT landfill. 224 kg of paper/cardboard packaging, 350 kg of plastics and 68 kg of metals were collected by recycling contractors in the reporting period. 1,966 m³, 823 m³, and 982 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	4,383 m ³ (of which 0 m ³ was broken concrete)	Tuen Mun 38
General refuse	205 m ³	NENT Landfill
Paper/cardboard packaging	224 kg	Recycling Contractors
Plastics	350 kg	Recycling Contractors
Metals	68 kg	Recycling Contractors
C&D materials reused on site	1,966 m ³	Site Area
C&D materials reused in other projects	823 m ³	Other projects
C&D materials reused in NENT for backfilling	982 m ³	NENT Landfill
Chemical wastes	0 kg	Licensed Contractors

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 No complaint, notification of summons or successful prosecution was received in the reporting period.
- 7.1.2 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.3 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 period, the following comments are made to the Contractor for precautionary and rectification purposes:

Air Quality Impact

- The Contractor was recommended to cover the soil stockpile entirely to reduce dust generation.
- The Contractor was recommended to water the site area frequently for dust suppression.
- The Contractor was recommended to keep the public road and site entrance clear of dusty materials.
- The load on vehicle should be covered entirely before leaving the site.
- The Contractor should cover cement stock with impervious sheeting entirely.

Construction Noise Impact

- The breaker tip should be wrapped with acoustic-resistant materials to reduce noise nuisance.

Water Quality Impact

- Muddy water should be removed in catch pit and drainage.
- Proper mitigation measures should be implemented to prevent potential surface runoff and site water generated by wheel washing from entering public roads.
- The sediment at the bottom of the U-channel should be regularly removed to avoid stagnant water.
- The mud accumulated at a section of U-channel inside the site boundary at SA 340 should be removed regularly especially after rain fall to maintain a high efficiency of the WetSep.

Chemical and Waste Management

- The Contractor should provide drip trays to oil drums to prevent any oil leakage.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor was recommended to ensure public road is kept clear of dusty materials from the construction site.
- The up-to-date EP should be posted at all entrances/exits.
- Stagnant water in a material skip and H-beam should be removed.

8.2 Recommendations

8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the

environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.

8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

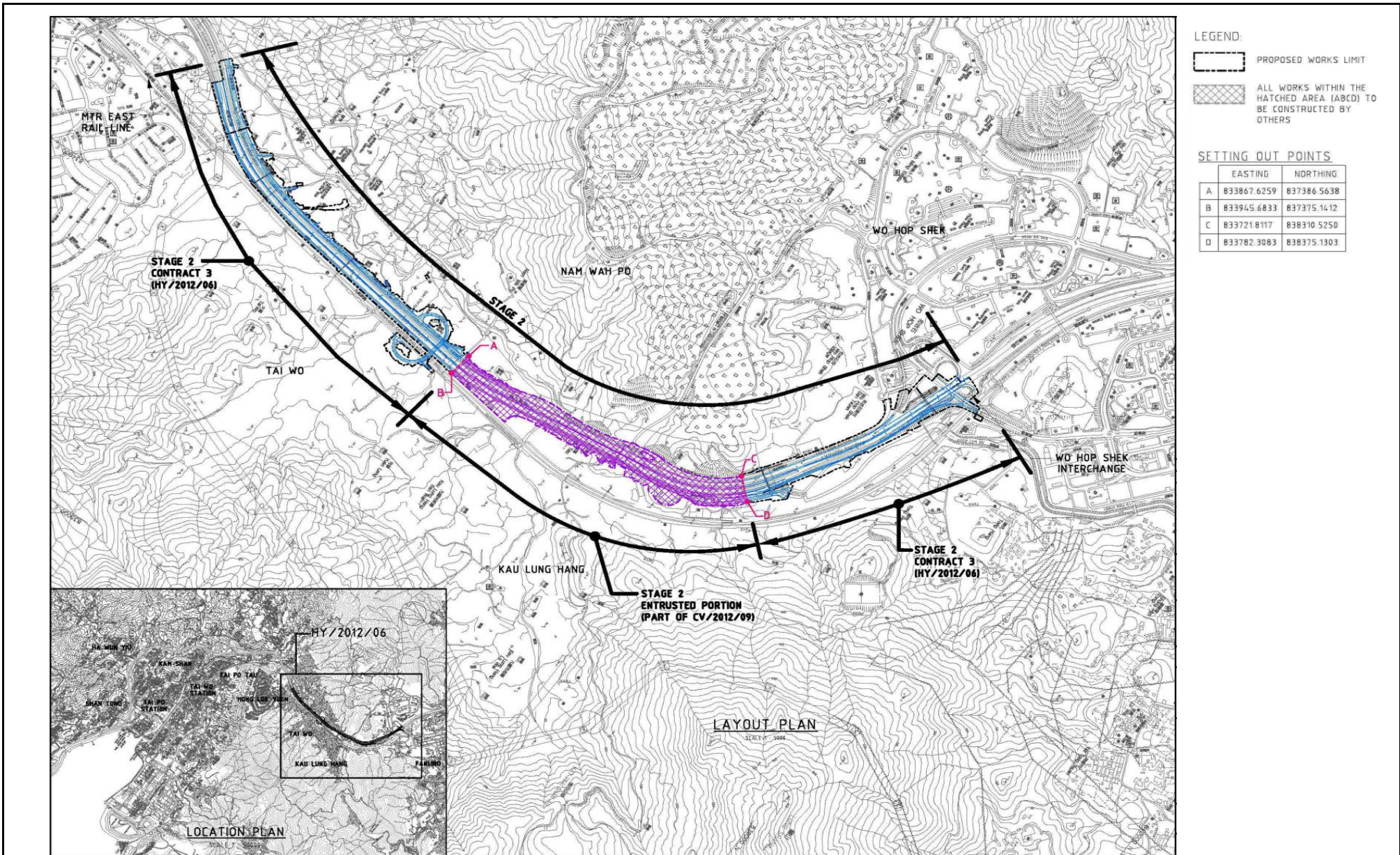
8.3 Conclusions

8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.

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

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

FIGURES



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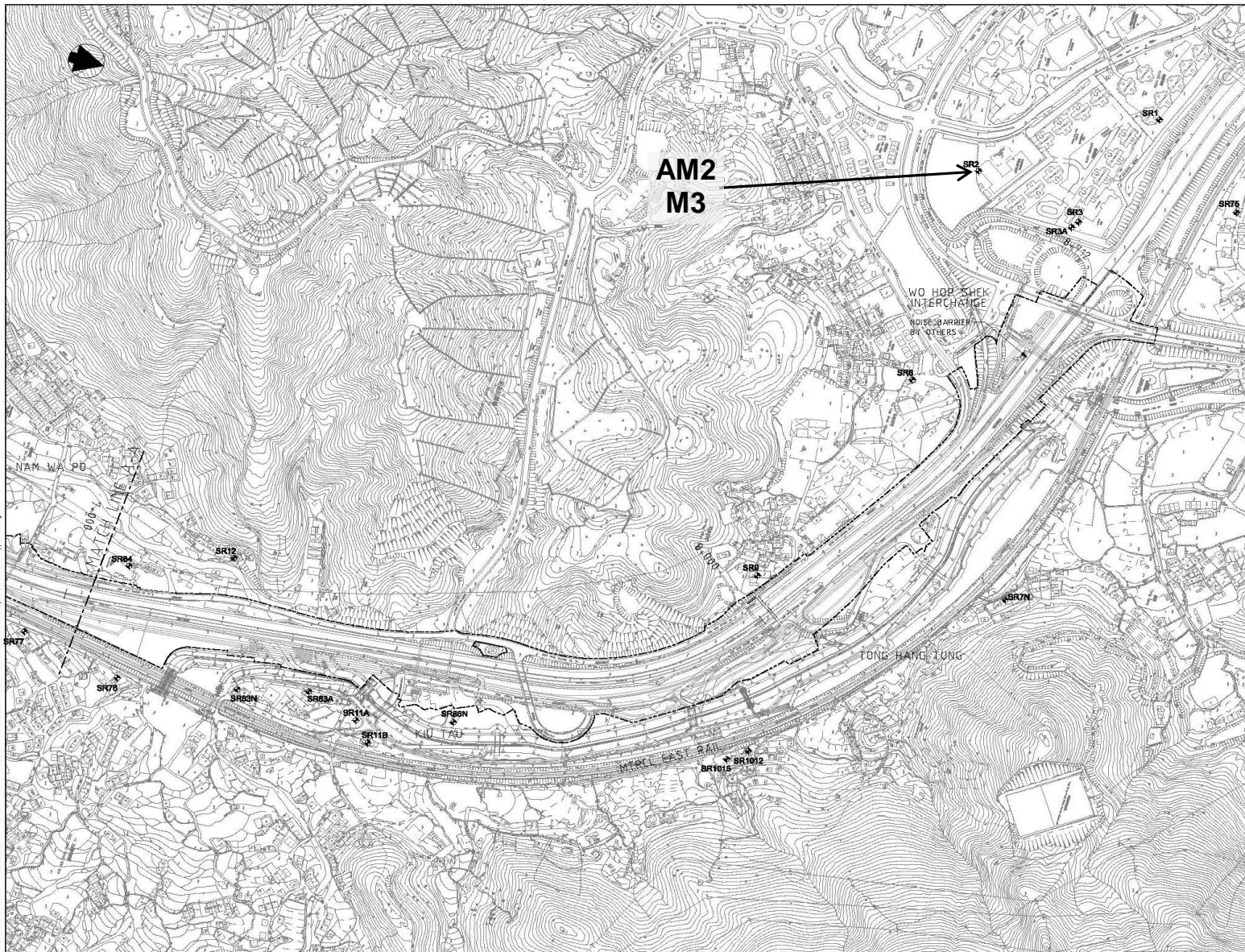
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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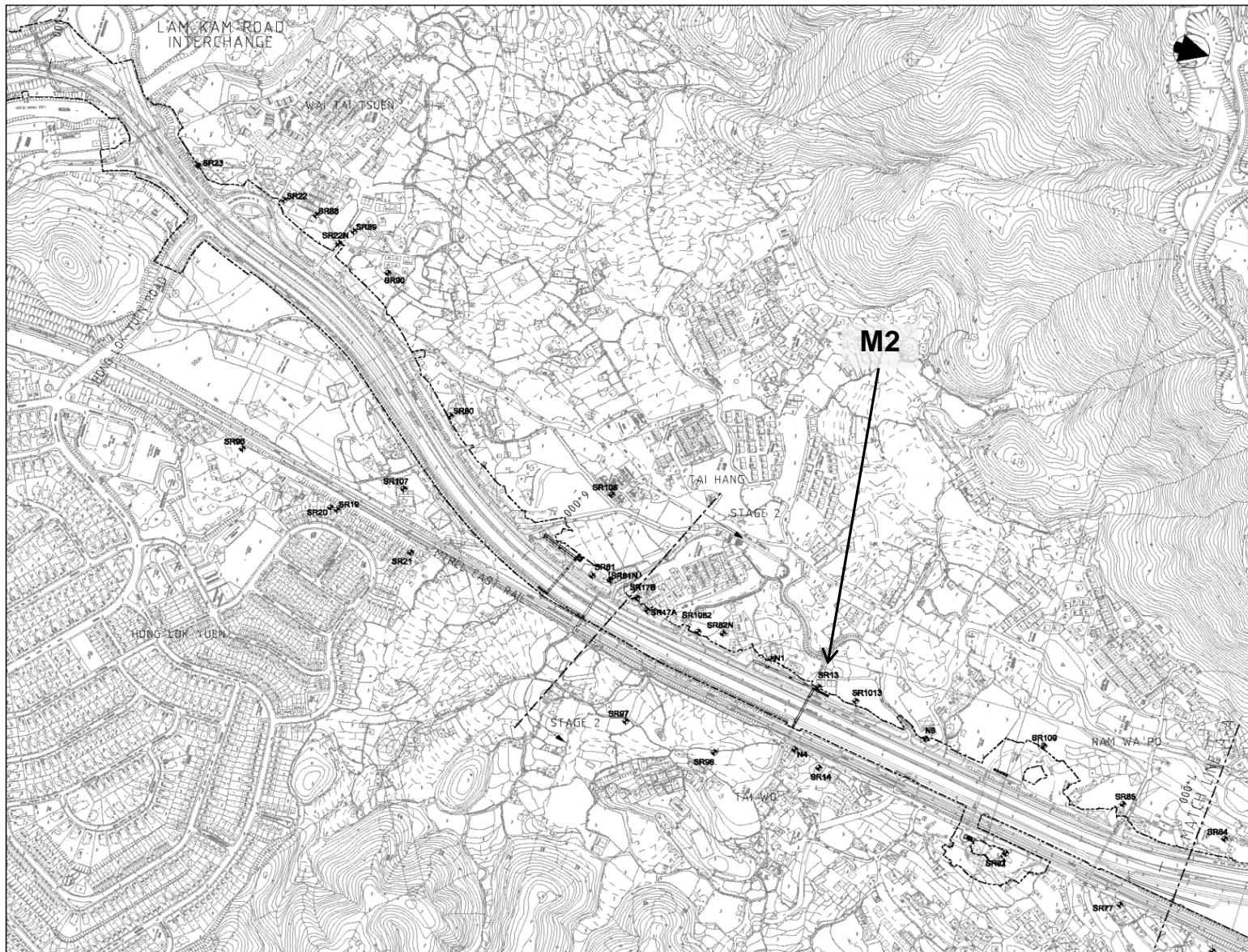
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.2a



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

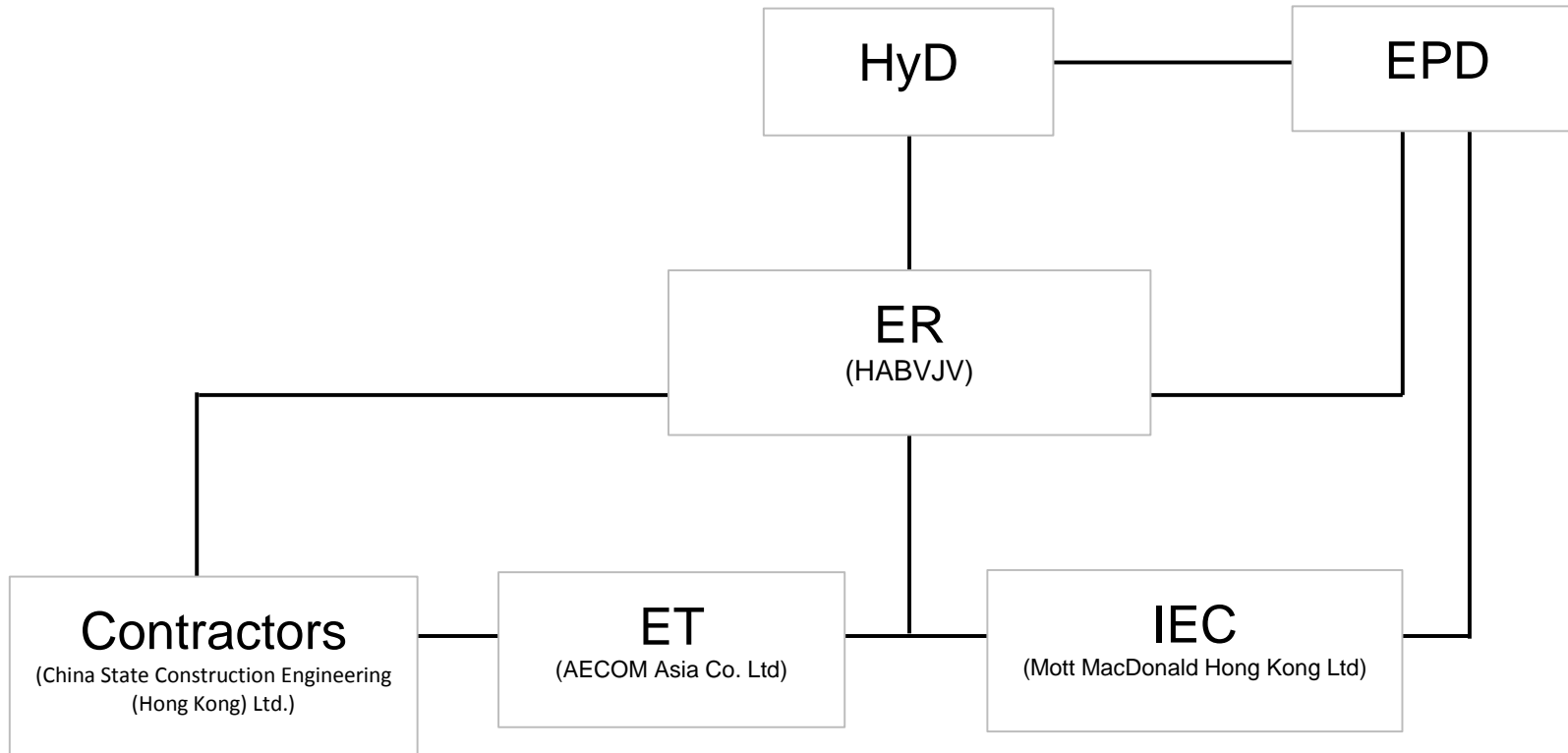


Locations of Monitoring Station

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	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				2016
								Oct	Nov	Dec	Jan	
Contract Condition												
General												
Contract Condition												
KD16	KD-16 (883d) - N2: Connection of realigned Tai Wo Service Road East	0%	0	0		20-Oct-15*	59					20-Oct-15* ◆ KD-16 (883d) - N2: Connection of realigned Tai Wo Service Road East at interface
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Oct-15		1720					◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Oct-15*		-292					◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Oct-15*		-94					◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	30-Nov-15*		0					◆ Site Area SA345 (0d)
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												
NB00114	NB42 (bay 303) - Footing & Wall Structure - 1 bays - VO	0%	45	45	20-Oct-15	11-Dec-15	80					
NB00115	NB42 (Ch5640-5740) - Backfilling	0%	12	12	04-Jan-16	16-Jan-16	78					
NB00120	NB42 (Ch5640-5740) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1263					
NB00130	NB42 (Ch5640-5740) - NB post & panel installation	0%	5	5	18-Jan-16	22-Jan-16	978					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10130	Watermain installation (along NB42)	0%	30	30	22-Oct-15	25-Nov-15	78					
TSZ10140	Firemain installation (along NB42)	0%	30	30	26-Nov-15	02-Jan-16	78					
Underground Utility Works												
UUZ10100	Utility cable laying by Utility companies (Along NB42)	97.22%	1	36	21-Aug-15 A	20-Oct-15	78					
UUZ20250	Utility cable laying (Along NB42 bay 303 VO)	0%	14	14	12-Dec-15	30-Dec-15	80					
NB42A (Ch.5750-5810)-TWSR West Side												
Noise Barrier Works												
NB00195	NB42A (Ch5750-5810) - backfilling	0%	12	12	30-Dec-15	13-Jan-16	81					
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1263					
NB00210	NB42A (Ch5750-5810) - NB post & panel installation	0%	5	5	14-Jan-16	19-Jan-16	981					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10150	Sheet Piling & Excavation (~5m below ground) (along NB42A)	0%	18	18	20-Oct-15	10-Nov-15	81					
TSZ10180	Watermain installation (along NB42A)	0%	20	20	11-Nov-15	03-Dec-15	81					
TSZ10190	Firemain installation (along NB42A)	0%	20	20	04-Dec-15	29-Dec-15	81					
Underground Utility Works												
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	95%	1	20	21-Aug-15 A	20-Oct-15	138					
NB47B (Ch.5820-5880)-TWSR West Side												
Noise Barrier Works												
NB00231	Stop works by Landload nearby	25.81%	23	31	21-Aug-15 A	16-Nov-15	57					
NB00233	NB47B (bay 311A)- Footing & Wall Structure - VO	0%	45	45	17-Nov-15	11-Jan-16	57					
NB00240	NB47B (Ch5820-5880) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1263					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10230	Watermain installation (along NB47B)	0%	20	20	21-Sep-15 A	12-Nov-15	99					
TSZ10240	Firemain installation (along NB47B)	0%	20	20	13-Nov-15	05-Dec-15	99					
Underground Utility Works												
UUZ10121	Utility cable laying by Utility companies (along bay 311A)	0%	14	14	12-Jan-16	27-Jan-16	57					
Noise Barrier Along Fanling Highway S/B												
NB44 (Ch.5700-5760)-FH S/B Side												
Noise Barrier Works												
NB01385	NB44 - Excavation & Footing & Wall Structure (1 bays)	0%	50	50	18-Dec-15	26-Feb-16	918					
NB45 (Ch.5760-5820)-FH S/B Side												
Noise Barrier Works												
NB01435	NB45 - Excavation & Footing & Wall Structure (2 bays)	25.37%	50	67	01-Sep-15 A	17-Dec-15	918					
NB01440	NB45 - NB production	0%	45	45	18-Dec-15	31-Jan-16	1204					
NB46 (Ch.5820-5880)-FH S/B Side												
Noise Barrier Works												
NB01490	NB46 - NB production	0%	45	45	18-Dec-15	31-Jan-16	1204					
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-Oct-15	19-May-16	871					
NB47 (Ch.5880-5930)-TWSR West Side												
Noise Barrier Works												
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure - 5 bays	90.86%	16	175	11-Mar-15 A	07-Nov-15	88					

	Project ID: DWP Rev 02 (1510)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Oct-15)		Date	Revision	C.	Appro...
	Layout: 3 Month Rolling Program			13-Mar...	WP Rev 1		
	Page 1 of 7			30-Jun...	WP Rev...		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				2016
								Oct	Nov	Dec	Jan	
NB00280	NB47 (Ch5880-5930)- NB production	0%	45	45	07-Nov-15	22-Dec-15	1219					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10260	DSD Trunk Sewer laying (along NB47)	58.62%	24	58	17-Aug-15 A	17-Nov-15	87					
TSZ10270	Backfill up to NB47 footing level	0%	6	6	18-Nov-15	24-Nov-15	87					
TSZ10280	Watermain installation (along NB47)	0%	26	26	25-Nov-15	24-Dec-15	87					
TSZ10290	Firemain installation (along NB47)	0%	26	26	28-Dec-15	27-Jan-16	87					
NB47A (Ch.5950-5975)-TWSR West Side												
Noise Barrier Works												
NB00330	NB47A - backfilling	79.17%	5	24	07-Sep-15 A	10-Dec-15	107					
NB00335	Backfilling (Along NB47A-above ID1)	58.33%	5	12	06-Oct-15 A	10-Dec-15	107					
NB00340	NB47A - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238					
NB00350	NB47A - NB post & panel installation	0%	5	5	11-Dec-15	16-Dec-15	987					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10380	Watermain installation (along NB47A)	76.32%	9	38	24-Aug-15 A	30-Oct-15	107					
TSZ10390	Firemain installation (along NB47A)	35.71%	9	14	09-Oct-15 A	30-Oct-15	107					
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	73.53%	9	34	25-Aug-15 A	30-Oct-15	137					
Underground Utility Works												
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	0%	30	30	31-Oct-15	04-Dec-15	107					
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above ID1)	0%	30	30	31-Oct-15	04-Dec-15	107					
NB48 (Ch.5995-6120)-TWSR West Side												
Noise Barrier Works												
NB00390	NB48 (Ch5995-6060) - backfilling	0%	12	12	18-Jan-16	30-Jan-16	66					
NB00400	NB48 (Ch5995-6060) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238					
NB00440	NB48 (Ch6060-6120) - Footing & Wall Structure - 5 bays	22.22%	35	45	01-Sep-15 A	30-Nov-15	84					
NB00460	NB48 (Ch6060-6120) - NB production	0%	45	45	01-Dec-15	14-Jan-16	1196					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	13	6	24-Oct-15 A	04-Nov-15	66					
TSZ10430	Watermain installation (along NB48, 0-60m)	0%	30	30	05-Nov-15	09-Dec-15	66					
TSZ10440	Firemain installation (along NB48, 0-60m)	0%	30	30	10-Dec-15	16-Jan-16	66					
TSZ10450	Sheet Piling & Excavation (~5m below ground) (along NB48)	85.71%	9	63	05-Aug-15 A	30-Oct-15	40					
TSZ10460	DSD Trunk Sewer laying (along NB48, 60-110m)	0%	18	18	31-Oct-15	20-Nov-15	54					
TSZ10470	Backfill up to NB48, 60-110m footing level	0%	6	6	21-Nov-15	27-Nov-15	54					
TSZ10480	Watermain installation (along NB48, 60-110m)	0%	26	26	28-Nov-15	30-Dec-15	54					
TSZ10490	Firemain installation (along NB48, 60-110m)	0%	26	26	31-Dec-15	30-Jan-16	54					
Underground Utility Works												
UUZ20120	Utility cable laying by Utility companies (Along NB48, 0-60m)	0%	24	24	20-Oct-15	17-Nov-15	115					
UUZ20130	Utility cable laying by Utility companies (Along NB48, 60-110m)	0%	20	20	01-Dec-15	23-Dec-15	84					
NB49 (Ch.6145-6215)-TWSR West Side												
Noise Barrier Works												
NB00509	NB49 - Footing & Wall Structure - bays 5	0%	15	5	21-Sep-15 A	06-Nov-15	34					
NB00510	NB49 - Footing & Wall Structure - 4 bays	0%	40	40	27-Oct-15	11-Dec-15	4					
NB00513	NB49 bays 1-4 was disrupt & stopped by Villager	0%	5	5	22-Sep-15 A	26-Oct-15	4					
NB00530	NB49 - NB production	0%	45	45	12-Dec-15	25-Jan-16	1185					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10500	Sheet Piling & Excavation (~7m below ground) (along NB49)	0%	14	14	12-Dec-15	30-Dec-15	4					
TSZ10510	DSD Trunk Sewer laying (along NB49)	0%	12	12	31-Dec-15	14-Jan-16	4					
TSZ10520	Backfill up to NB49 footing level	0%	6	6	15-Jan-16	21-Jan-16	4					
NB49B (Ch.6215-6235)-TWSR West Side												
Noise Barrier Works												
NB00547	Hoarding erection for access	0%	6	6	20-Oct-15	27-Oct-15	11					
NB00549	NB49B - Pre-drilling	0%	6	6	28-Oct-15	03-Nov-15	11					
NB00550	NB49B piling (0.19m -20no)	0%	21	21	04-Nov-15	27-Nov-15	11					
NB00560	NB49B- Sheet piling & Excavation	0%	12	12	23-Dec-15	08-Jan-16	42					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10550	Sheet Piling & Excavation (~5m below ground) (along NB49B)	0%	21	21	28-Nov-15	22-Dec-15	11					
TSZ10570	DSD Trunk Sewer laying (along NB49B - ID2-1)	0%	34	34	23-Dec-15	03-Feb-16	11					
NB54 (Ch.6240-6280)-TWSR West Side												
Noise Barrier Works												
NB00690	NB54 - Footing & Wall Structure - 2 bays	36.84%	60	95	09-Sep-15 A	30-Jan-16	34					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10600	Sheet Piling & Excavation (~5m below ground) (along NB54)	77.14%	8	35	20-Aug-15 A	29-Oct-15	34					
TSZ10610	DSD Trunk Sewer laying (along NB54 except ID2-1 section)	0%	21	21	30-Oct-15	23-Nov-15	34					
TSZ10620	Backfill up to NB54 footing level	0%	6	6	24-Nov-15	30-Nov-15	34					
TSZ10630	Watermain installation (along NB54)	0%	30	30	01-Dec-15	07-Jan-16	44					
TSZ10640	Firemain installation (along NB54)	0%	30	30	08-Jan-16	20-Feb-16	44					
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00760	NB54A - Footing & Wall Structure - 6 bays	51.81%	40	83	01-Aug-15 A	05-Dec-15	75					
NB00780	NB54A - NB production	0%	45	45	05-Dec-15	19-Jan-16	1191					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				2016
								Oct	Nov	Dec	Jan	
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10650	Sheet Piling & Excavation (~5m below ground) (along NB54A)	88.24%	8	68	13-Jul-15 A	29-Oct-15	14					
TSZ10660	DSD Trunk Sewer laying (along NB54A)	0%	18	18	30-Oct-15	19-Nov-15	47					
TSZ10670	Backfill up to NB54A footing level	0%	6	6	20-Nov-15	26-Nov-15	47					
TSZ10680	Watermain installation (along NB54A)	0%	30	30	27-Nov-15	04-Jan-16	47					
TSZ10690	Firemain installation (along NB54A)	0%	30	30	05-Jan-16	17-Feb-16	47					
Underground Utility Works												
UUZ20170	Utility cable laying by Utility companies (Along NB54A, 0-60m)	0%	24	24	07-Dec-15	06-Jan-16	75					
NB57 (Ch.6365-6445)-TWSR West Side												
Noise Barrier Works												
NB00830	NB57 - Footing & Wall Structure - 7 bays	84.17%	60	379	15-Dec-14 A	07-May-16	13					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	16-Jan-16	05-Feb-16	13					
TSZ10775	Wash-out chamber water pipe diversion at the site access for NB57	0%	52	52	13-Nov-15	15-Jan-16	13					
TSZ10785	PCCW drawpit by Pccw	28.57%	20	28	11-Sep-15 A	12-Nov-15	13					
NB58 (Ch.6445-6480)-TWSR West Side												
Noise Barrier Works												
NB00900	NB58 - Footing & Wall Structure - 3 bays	40%	42	70	15-Sep-15 A	08-Dec-15	77					
NB00920	NB58 - NB production	0%	45	45	09-Dec-15	22-Jan-16	1188					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10760	DSD Trunk Sewer laying (along NB58)	0%	18	18	17-Oct-15 A	10-Nov-15	62					
TSZ10780	Watermain installation (along NB58)	0%	20	20	11-Nov-15	03-Dec-15	62					
TSZ10790	Firemain installation (along NB58)	0%	20	20	04-Dec-15	29-Dec-15	62					
TSZ11010	Backfilling	0%	12	12	30-Dec-15	13-Jan-16	62					
NB59 (Ch.6490-6590)-TWSR West Side												
Noise Barrier Works												
NB00970	NB59 - Footing & Wall Structure - 9 bays	52.94%	72	153	02-May-15 A	15-Jan-16	29					
NB00990	NB59 - NB production	0%	45	45	16-Jan-16	29-Feb-16	1138					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10810	DSD Trunk Sewer laying (along NB59)	85.29%	25	170	08-Apr-15 A	18-Nov-15	28					
TSZ10820	Backfill up to NB59 footing level	0%	6	6	19-Nov-15	25-Nov-15	28					
TSZ10830	Watermain installation (along NB59)	0%	30	30	26-Nov-15	02-Jan-16	28					
TSZ10840	Firemain installation (along NB59)	0%	30	30	04-Jan-16	06-Feb-16	28					
Underground Utility Works												
UUZ20200	Utility cable laying by Utility companies (Along NB59, 0-95m)	0%	38	38	16-Jan-16	09-Mar-16	29					
NB63 (Ch.6610-6700)-TWSR West Side												
Noise Barrier Works												
NB01040	NB63 - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	24	21	24-Sep-15 A	17-Nov-15	55					
TSZ10330	Watermain installation (along NB63)	0%	30	30	18-Nov-15	22-Dec-15	55					
TSZ10340	Firemain installation (along NB63)	0%	30	30	23-Dec-15	29-Jan-16	55					
DSD Southern Trunk Sewer - Trenchless Construction												
TSZ10970	Both end manholes construction & trench sewer connection	63.64%	20	55	07-Sep-15 A	12-Nov-15	97					
TSZ10980	Backfilling of jacking pits	0%	32	32	13-Nov-15	19-Dec-15	135					
TSZ11020	Watermain & Firemain installation above Trunk Sewer	0%	50	50	13-Nov-15	13-Jan-16	97					
TSZ11025	Town gas pipe laying (change of design)	0%	20	20	14-Jan-16*	05-Feb-16	97					
TSZ11035	DSD trunk sewer along NB63	88.57%	8	70	10-Jul-15 A	29-Oct-15	179					
Underground Utility Works												
UUZ20230	Utility cable laying by Utility companies (Along NB63-100m)	86.29%	34	248	27-Dec-14 A	28-Nov-15	105					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0335	Structure steel Shop drawing approval (THFB)	98.72%	3	235	04-Dec-14 A	23-Oct-15	153					
THBF0340	Structure steel procurement (THFB)	0%	150	150	24-Oct-15	21-Mar-16	197					
TWSR-West/ FL Highway N/B Side Section												
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	20-Oct-15	11-Dec-15	274					
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	68.03%	39	122	13-Jul-15 A	04-Dec-15	420					
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	20-Oct-15	24-Nov-15	402					
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	25-Nov-15	28-Dec-15	402					
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		28-Dec-15	402				28-Dec-15 ♦ Steel Staircase rea	
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	12-Dec-15	19-Jan-16	294					
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	12-Dec-15	19-Jan-16	274					
TWSR-East FL Highway S/B Side Section												
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	30-Oct-15	12-Nov-15	49					
THBF0460	THAB1 - Pile Test	0%	28	28	13-Nov-15	10-Dec-15	343					
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	27-Nov-15	04-Jan-16	272					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	05-Jan-16	27-Jan-16	272					
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	13-Nov-15	10-Dec-15	49					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015			
								Oct	Nov	Dec	2016 Jan
THBF0510	THP2 - Pile Test	0%	28	28	11-Dec-15	07-Jan-16	377				
THBF0720	THP3 - Pile Test	0%	28	28	20-Oct-15	16-Nov-15	429				
THBF0730	THP3 - Pile cap, Pier and Pier Head	0%	45	45	11-Dec-15	04-Feb-16	310				
THBF0750	THP4 - Pre-bored H pile (4 nos)	50%	8	16	13-Oct-15 A	29-Oct-15	49				
THBF0760	THP4 - Pile Test	0%	28	28	30-Oct-15	26-Nov-15	381				
THBF0770	THP4 - Pile cap, Pier and Pier Head	0%	45	45	13-Nov-15	07-Jan-16	304				
THBF0780	Modified existing column head of existing footbridge	0%	30	30	08-Jan-16	20-Feb-16	304				
Lift at TWSR-W Side											
L1470	Pre-bored H Piling Rig mobilisation & set up period	0%	12	12	30-Oct-15	12-Nov-15	114				
L1480	THB (W) - Pre-bored H pile (4 nos)	0%	18	18	13-Nov-15	03-Dec-15	114				
L1490	Pile test	0%	30	30	04-Dec-15	11-Jan-16	114				
L1500	Temp work & Pile cap	0%	45	45	12-Jan-16	12-Mar-16	114				
L1556	Lift contractor sub-letting	25.56%	67	90	21-Sep-15 A	09-Jan-16	44				
L1557	Lift submission & ordering period	0%	270	270	11-Jan-16	12-Dec-16	44				
L1600	CLP Power available (by CLP)	0%	365	365	20-Oct-15	18-Oct-16	206				
Lift at FLHY S/B											
L1345	THB (E) - Pre-bored H pile - NF78 (12 nos)	0%	36	36	11-Dec-15	25-Jan-16	49				
L1450	CLP Power available (by CLP)	0%	365	365	20-Oct-15	18-Oct-16	210				
New Tai Wo Footbridge											
General											
TWFB1030	Structure steel Shop drawing approval (TWFB)	88.55%	30	262	04-Dec-14 A	24-Nov-15	176				
TWFB1040	Structure steel procurement (TWFB)	19.59%	119	148	22-Aug-15 A	15-Feb-16	144				
TWSR-West/ FL Highway N/B Side Section											
TWFB1160	TWP1 - Pile cap, Pier and Pier Head	0%	45	45	20-Oct-15	11-Dec-15	251				
TWFB1240	TWAB2 - pile cap & abutment wall	0%	30	30	20-Oct-15	24-Nov-15	889				
TWFB1250	TWAB2 - Backfilling (~4m)	0%	27	27	25-Nov-15	28-Dec-15	889				
TWFB1260	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		28-Dec-15	889				28-Dec-15 ♦ Steel Staircase rea
TWFB1290	TWP4, TWP5 - Pile Test	0%	28	28	05-Oct-15 A	16-Nov-15	185				
TWFB1300	TWP4, TWP5 - Pile cap, Pier and Pier Head	0%	30	30	03-Nov-15	07-Dec-15	143				
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	22-Oct-15 A	24-Nov-15	139				
TWFB1350	TWAB1 - Backfilling (~3m)	0%	20	20	25-Nov-15	17-Dec-15	216				
TWFB1360	Steel Ramp ready for erection (TWFB-TWSR-W side)	0%	0	0		17-Dec-15	216				17-Dec-15 ♦ Steel Ramp ready for erectio
TWSR-East FL Highway S/B Side Section											
TWFB1480	Precautionary work for MTRC I&P area	0%	45	45	20-Oct-15	11-Dec-15	786				
TWFB1540	TWP3 - Predrilling	0%	12	12	12-Dec-15	28-Dec-15	786				
Lift at TWSR-W Side											
L1650	Temp work & Pile cap	0%	45	45	20-Oct-15	11-Dec-15	729				
L1660	Lift pit	0%	30	30	12-Dec-15	19-Jan-16	729				
L1720	Lift contractor sub-letting	25.56%	67	90	21-Sep-15 A	09-Jan-16	595				
L1730	Lift submission & ordering period	0%	270	270	11-Jan-16	12-Dec-16	595				
L1780	CLP Power available (by CLP)	0%	365	365	20-Oct-15	18-Oct-16	880				
Temporary Tai Wo Footbridge											
Design Works											
TWFB-T1010	Design preparation	86.52%	12	89	20-Jul-15 A	03-Nov-15	162				
TWFB-T1020	Engineer Comment	0%	26	26	04-Nov-15	03-Dec-15	162				
TWFB-T1030	Design amendment	0%	26	26	04-Dec-15	06-Jan-16	162				
TWFB-T1040	Design Available	0%	0	0		06-Jan-16	162				06-Jan-16 ♦ Design Av
Construction Works											
TWFB-T1060	Erect Temp Ramp	76.39%	17	72	18-Jul-15 A	09-Nov-15	85				
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	150	150	07-Jan-16	18-Jul-16	271				
Demolition of Existing Tai Wo Footbridge											
TWSR-West/ FL Highway N/B Side Section											
TWFB-T1130	Demolish existing ramp & staircase at TWSR-W	0%	30	30	10-Nov-15	14-Dec-15	85				
TWFB-T1135	Demolish existing TWFB across TWSR-W	0%	45	45	14-Jan-16	15-Mar-16	62				
TWFB-T1230	Watermain & Firemain at NB58 & backfill	0%	52	52	11-Nov-15	13-Jan-16	62				
Noise Barrier Along Fanling Highway S/B											
NB51 (Ch.5935-6055)-FH S/B Side											
Noise Barrier Works											
NB02280	NB51 ID1-3 (0-25m) - Footing & Wall Structure	0%	90	90	20-Oct-15	05-Feb-16	558				
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB02430	Precautionary Measure installation	0%	26	26	20-Oct-15	19-Nov-15	743				
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	20-Nov-15	19-Dec-15	743				
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	21-Dec-15	11-Mar-16	743				
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	03-Dec-15	14-Dec-15	826				
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	15-Dec-15	18-Jan-16	826				
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	19-Jan-16	20-Feb-16	826				
NB02590	NB53 (125-180m) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238				
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-Dec-15	09-Dec-15	993				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				2016
								Oct	Nov	Dec	Jan	
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	91.4%	24	279	07-Nov-14 A	17-Nov-15	826					
NB02650	NB55- backfilling	0%	50	50	18-Nov-15	18-Jan-16	826					
NB02660	NB55 - NB production	0%	45	45	18-Nov-15	01-Jan-16	1209					
NB02670	NB55 - NB post & panel installation	0%	5	5	02-Jan-16	07-Jan-16	971					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238					
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Dec-15	09-Dec-15	993					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Oct-15	10-Nov-15	918					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	11-Nov-15	11-Jan-16	918					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	12-Jan-16	18-Mar-16	918					
NB02800	NB61 (0-50m) - NB production	0%	45	45	12-Jan-16	25-Feb-16	1154					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Dec-15	09-Dec-15	993					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Dec-15	09-Dec-15	993					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	81.5%	32	173	01-Apr-15 A	26-Nov-15	964					
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	27-Nov-15	19-Dec-15	979					
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	27-Nov-15	10-Jan-16	1200					
NB03000	NB61A ID2-3 (50-75m) - NB post & panel installation	0%	5	5	11-Jan-16	15-Jan-16	964					
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Oct-15	03-Dec-15	1238					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Dec-15	09-Dec-15	993					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	0	0	20-Oct-15	20-Oct-15	1387					
MCLT1080	Construct New MCLT (Structure)	65.52%	40	116	21-Jul-15 A	05-Dec-15	4					
MCLT1090	New MCLT - finishes works	0%	75	75	07-Dec-15	15-Mar-16	4					
TCSS Works												
FADS1												
TCSS2010	Piling (6nos, 0.19m mini pile)	47.06%	18	34	02-Sep-15 A	10-Nov-15	802					
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		20-Oct-15	886	20-Oct-15 ◆ Slow lane footing - G54 (NB61)				
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)												
Noise Barrier Along TWSR-West and Laying New Utilities												
NB63A (Ch.6710-6840)-TWSR West Side												
Noise Barrier Works												
NB01090	NB63A-1 - NB production	0%	45	45	20-Oct-15	03-Dec-15	634					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10850	Sheet Piling & Excavation (~6m below ground) (along NB63A)	0%	26	26	16-Nov-15	15-Dec-15	0					
TSZ10860	DSD Trunk Sewer laying (along NB63A)	0%	26	26	16-Dec-15	18-Jan-16	0					
TSZ10870	Backfill up to NB63A footing level	0%	6	6	19-Jan-16	25-Jan-16	0					
NB64 & NB64A (Ch.6860-6920)-TWSR West Side												
Noise Barrier Works												
NB001030	NB64 & NB64A -Footing & Wall Structure - 7 bays	75.91%	33	137	19-May-15 A	27-Nov-15	58					
NB001050	NB64 & NB64A -NB production	0%	45	45	28-Nov-15	11-Jan-16	595					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	28-Nov-15	18-Dec-15	58					
TSZ10920	Backfill up to NB64 footing level	0%	6	6	19-Dec-15	28-Dec-15	58					
TSZ10930	Watermain installation (along NB64)	0%	30	30	29-Dec-15	02-Feb-16	58					
Underground Utility Works												
UUZ20220	Utility cable laying by Utility companies (Along NB64, 60m)	0%	24	24	28-Nov-15	28-Dec-15	94					
Bridge Construction												
Kau Lung Hang Vehicular Bridge												
KLH Bridge - West Ramp												
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)-change to Rock fill	65.22%	56	161	15-Jun-15 A	24-Dec-15	5					
Z2.KLH.1230	West Ramp - Road Slab	0%	45	45	28-Dec-15	27-Feb-16	5					
Advance Works for VBP3 construction												
Z2.KLH.1280	Pier VBP3 complete and road reinstatement work	0%	22	12	20-Oct-15 A	14-Nov-15	0					
Z2.KLH.1290	Affected NB construction at TWSR-W resume	0%	0	0	16-Nov-15		0	◆ Affected NB construction at TWSR-W resume				
KLH Bridge - Deck 1												
Z2.KLH.1050	Pier VBP3 Pile caps, pier and pier head construction	80.51%	23	118	30-May-15 A	16-Nov-15	21					
Z2.KLH.1120	Deck 1 - Bridge deck construction (West Abutment to VBP1)	27%	73	100	10-Oct-15 A	16-Jan-16	33					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				2016
								Oct	Nov	Dec	Jan	
												Jan
Z2.KLH.1125	Deck 1 - Bridge deck construction (VBP1 to VBP2)	0%	73	73	20-Oct-15	16-Jan-16	33					
Z2.KLH.1130	Deck 1 - Bridge deck construction (VBP2 to VBP3)	0%	62	62	17-Nov-15	30-Jan-16	21					
KLH Bridge - Ramp R1												
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	84.62%	16	104	02-Jul-15 A	07-Nov-15	171					
Z2.KLH.1670	Ramp R1 - Pile caps and pier construction (R1P3)	0%	40	40	20-Oct-15	05-Dec-15	147					
Z2.KLH.1680	Ramp R1 - Ramp construction (Abutment R1 to R1P1)	0%	45	45	09-Nov-15	02-Jan-16	171					
Z2.KLH.1685	Ramp R1 - Ramp construction (R1P1 to P1P3)	0%	45	45	07-Dec-15	30-Jan-16	147					
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	71.94%	39	139	22-Jun-15 A	04-Dec-15	73					
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	05-Dec-15	12-Jan-16	73					
Z2.KLH.1730	Ramp R1 - Abutment R1 - Staircase	0%	90	90	13-Jan-16	11-May-16	73					
KLH Bridge - Deck 3												
Z2.KLH.1370	Deck - East abutment to VBP8	0%	90	90	02-Jan-16	29-Apr-16	4					
Z2.KLH.1380	Deck - VBP6 to VBP7	0%	85	85	31-Dec-15	22-Apr-16	10					
Z2.KLH.1400	Deck - VBP7 to VBP8	0%	90	90	02-Jan-16	29-Apr-16	4					
Z2.KLH.1850	VBP7 - Pile caps, pier and pier head construction	61.6%	48	125	18-May-15 A	30-Dec-15	5					
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	47.37%	60	114	20-Jul-15 A	31-Dec-15	4					
KLH Bridge - Deck 2												
Z2.KLH.1170	VBP4- Pile cap, pier & pier head construction	52.56%	37	78	01-Sep-15 A	02-Dec-15	28					
Z2.KLH.1180	VBP4 - Backfilling & Road Work for TTA for VBP3	0%	14	14	03-Dec-15	18-Dec-15	28					
Z2.KLH.1250	Beam Erection -Above Fanling Highway s/b (2B) (Bet. P4 to P5)	0%	60	60	21-Dec-15	11-Mar-16	27					
Z2.KLH.1260	Beam Erection -Above MTRC rail track (2C) (Bet P5 to P6)	33.33%	8	12	05-Sep-15 A	19-Dec-15	-8					
Z2.KLH.1553	In situ concrete top slab & diaphragm (Above MTR Bet. P5 to P6)	0%	59	59	21-Dec-15	27-May-16	-24					
KLH Bridge - East Ramp												
Z2.KLH.1410	East Ramp - excavation	70.41%	58	196	08-Apr-15 A	29-Dec-15	114					
Z2.KLH.1420	East Ramp base slab & Abutment wall	56.99%	83	193	12-May-15 A	28-Jan-16	29					
KLH Bridge - Ramp R2												
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	02-Nov-15*	28-Nov-15	976					
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	30-Nov-15	31-Dec-15	976					
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	24-Nov-15	28-Apr-16	-67					
Lift at TWSR-W Side												
L01093	Lift contractor sub-letting	59.6%	40	99	10-Aug-15 A	05-Dec-15	636					
L01094	Lift submission & ordering period	0%	270	270	07-Dec-15	10-Nov-16	636					
L01140	CLP Power available (by CLP)	0%	365	365	20-Oct-15	18-Oct-16	896					
Lift at FLHY S/B												
L01160	Piling Rig mobilisation & set up period	96.08%	2	51	10-Aug-15 A	22-Oct-15	-67					
L01170	KLH (E) lift - pile (9 nos)	0%	27	27	23-Oct-15	23-Nov-15	-67					
L01300	CLP Power available (by CLP)	0%	365	365	20-Oct-15	18-Oct-16	903					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Bridge Construction												
New Ho Ka Yuen Footbridge												
General												
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W)	0%	30	30	20-Oct-15	24-Nov-15	93					
HKY1070	Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0%	0	0	25-Nov-15		93					◆ Steel Staircase & Ramp available on site (HKYB-
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	0%	40	40	20-Oct-15	05-Dec-15	38					
HKY1090	Steel Staircase & Ramp available on site (HKYB-TWSR-E side)	0%	0	0	07-Dec-15		38					◆ Steel Staircase & Ramp available on s
HKY1100	Steel Bridge prefabrication (HKYB)	0%	50	50	20-Oct-15	17-Dec-15	139					
HKY1110	Steel Bridge available on site (HKYB)	0%	0	0	18-Dec-15		139					◆ Steel Bridge available on sit
TWSR-West/ FL Highway N/B Side Section												
HKY1230	HKYAB3 - Pre-bored H pile (6 nos) - VO40	0%	18	18	30-Nov-15	19-Dec-15	-29					
HKY1240	HKYAB3 - Pile Test	0%	28	28	21-Dec-15	25-Jan-16	-29					
HKY1288	TMLG additional stop work period	38.46%	16	26	08-Oct-15 A	07-Nov-15	-29					
HKY1290	HKYP7 - Pre-bored H pile (6 nos)	0%	18	18	09-Nov-15	28-Nov-15	-29					
TWSR-East FL Highway S/B Side Section												
HKY1590	Erect Staircase (HKYFB-TWSR-E side)	0%	30	30	07-Dec-15	13-Jan-16	38					
HKY1600	Finishes Work	0%	30	30	14-Jan-16	26-Feb-16	113					
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	92.86%	22	308	15-Oct-14 A	14-Nov-15	86					
HKY1860	Erect Steel Ramp (HKYFB-TWSR-E side)	0%	75	75	14-Jan-16	23-Apr-16	38					
ZONE 4 (Ch. 7925 to 8700)												
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1050	Steel Ramp prefabrication (WHSB)	48%	26	50	24-Aug-15 A	19-Nov-15	67					
WHS1060	Steel Ramp available on site (WHSB)	0%	0	0	20-Nov-15		67					◆ Steel Ramp available on site (WHSB)
WHS1070	Steel Staircase prefabrication (WHSB)	48%	26	50	24-Aug-15 A	19-Nov-15	1012					
WHS1080	Steel Staircase available on site (WHSB)	0%	0	0	20-Nov-15		1012					◆ Steel Staircase available on site (WHSB)
TWSR-West/ FL Highway N/B Side Section												
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	18.92%	60	74	17-Aug-15 A	31-Dec-15	3					
WHS1220	WHSP6 - Pile cap, Pier and Pier Head	0%	45	45	12-Dec-15	05-Feb-16	3					
WHS1228	WHSP7 - Pile cap, Pier and Pier Head	0%	45	45	20-Oct-15	11-Dec-15	936					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2015				2016	
								Oct		Nov		Dec	Jan
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	12-Dec-15	19-Jan-16	936						
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	45.95%	60	111	02-Jul-15 A	31-Dec-15	3						
WHS1930	WHSP4 - Pile cap, Pier and Pier Head	45.95%	60	111	02-Jul-15 A	31-Dec-15	3						
WHS1970	WHSP5 - Pile cap, Pier and Pier Head	0%	30	30	02-Jan-16	05-Feb-16	3						
Crossing Fanling Highway Section													
WHS1480	Erect WHS bridge Structure across fanling highway	0%	90	90	02-Jan-16	29-Apr-16	18						
TWSR-East FL Highway S/B Side Section													
WHS2090	North Abutment Wall (AW1) - Backfilling (~6m)	93.75%	10	160	02-Apr-15 A	31-Oct-15	68						
Slip Road Y Construction													
Drainage & Road Works													
TWSR-East FL Highway S/B Side Section													
RDZ41000	Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4	81.28%	35	187	02-Mar-15 A	30-Nov-15	28						
RDZ41010	Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4	56.25%	35	80	13-Jul-15 A	30-Nov-15	28						
RDZ41020	Construct Slip Rd Y @ existing TWSR-E junction	0%	70	70	01-Dec-15	03-Mar-16	28						
RDZ41082	Construct Slip Rd Y (Ch7925-8050)(SA3460) - 1 lane @	21.85%	93	119	17-Sep-15 A	18-Feb-16	1						
Underground Utility Works													
DN600 and DN900 Watermain													
DN1054	Watermain (DN900/1200) changeover for DN600 Works	0%	60	60	20-Oct-15	02-Jan-16	2						
DN1056	Laying DN600 section after DN900 changeover Works	0%	65	65	02-Jan-16	30-Mar-16	2						
VO - Wall 76A Construction													
Retaining Wall W76A													
TWSR-East FL Highway S/B Side Section													
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Oct-15	29-Apr-16	768						
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	73.26%	50	187	02-Mar-15 A	17-Dec-15	23						
RDZ41015	Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4	61.54%	50	130	12-May-15 A	17-Dec-15	23						
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E junction	0%	60	60	18-Jan-16	09-Apr-16	0						
RDZ41040	Construct FH S/B Lane 1,2 (Ch8000-8050)(SA340)(Z4	0%	73	73	19-Oct-15 A	16-Jan-16	0						
RDZ41042	TTA for HKY P2 works	0%	5	5	18-Jan-16	22-Jan-16	48						
Other Works													
Retaining Wall W77A													
TWSR-East FL Highway S/B Side Section													
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	26.67%	22	30	21-Sep-15 A	14-Nov-15	327						
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	20-Oct-15	31-Dec-15	244						
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-40)	0%	30	30	02-Jan-16	05-Feb-16	274						
TCSS Works													
TCSS Pre-Construction Works													
TCSS0100	Acquire Design Criteria from Drawing & procurement	74.9%	64	255	27-Feb-15 A	06-Jan-16	328						
TCSS0110	Confirm Design criteria with Engineer	0%	30	30	07-Jan-16	05-Feb-16	417						

**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		
			Aug 15	Sep 15	Oct 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.		@	@	@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	@	@
	All spraying of materials and surfaces shall avoid excessive water usage.		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
	Materials shall be dampened, if necessary, before transportation.		V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	@	V

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 15	Sep 15	Oct 15
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	@	V
	Reduce the number of equipment and their percentage on-time.		V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		#	V	V
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		#	V	V
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		#	V	V
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		#	V	V
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		#	V	V
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		#	V	V
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		#	V	V
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		#	N.A.	N.A.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status		
			Aug 15	Sep 15	Oct 15
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 15	Sep 15	Oct 15
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	V	V	V
	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 15	Sep 15	Oct 15
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	Implementation Status		
			Aug 15	Sep 15	Oct 15
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

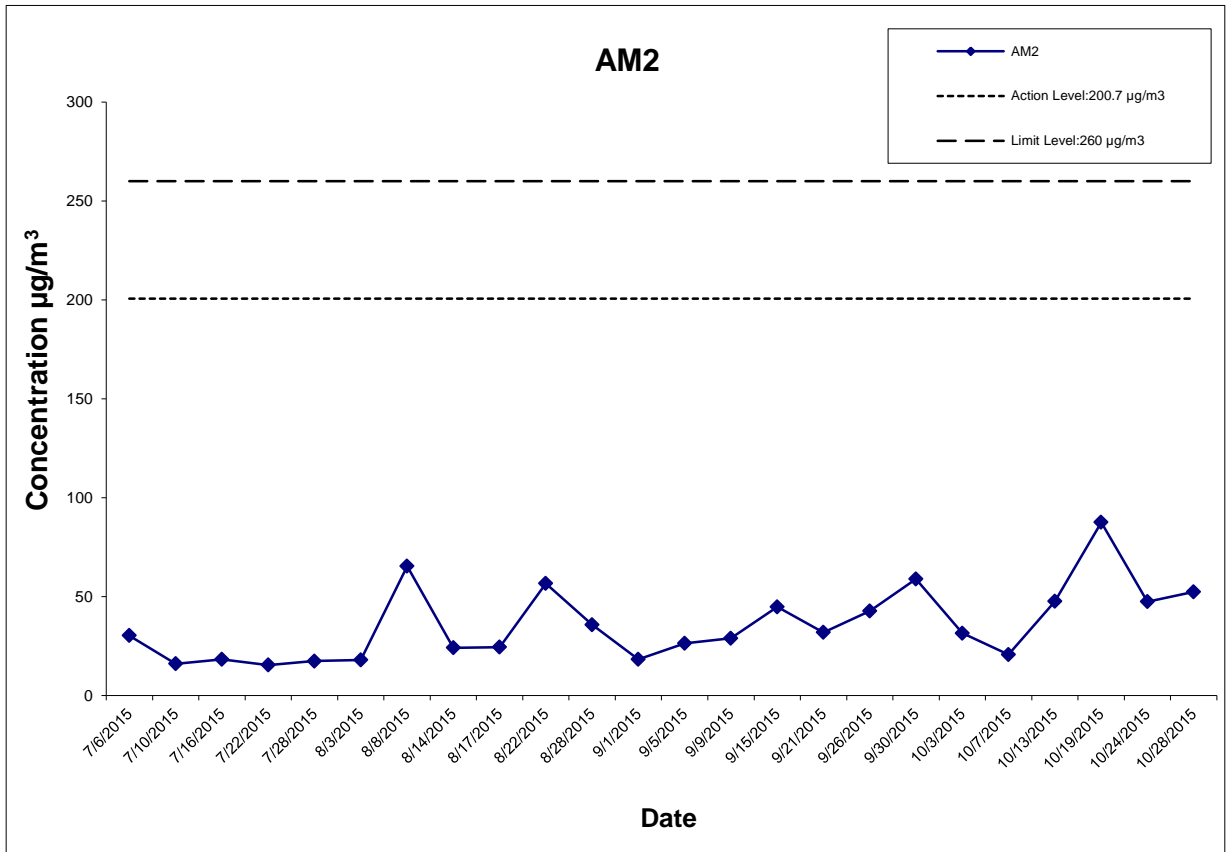
**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

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-Jul-15	Sunny	29.2	1001.3	1.314	1.314	1.314	1892.2	2.7982	2.8557	0.0575	5762.03	5786.03	24.00	30.4	200.7	260
10-Jul-15	Cloudy	29.9	1007.2	1.314	1.314	1.314	1892.2	2.8354	2.8659	0.0305	5786.03	5810.03	24.00	16.1	200.7	260
16-Jul-15	Sunny	30.2	1009.4	1.314	1.314	1.314	1892.2	2.7908	2.8254	0.0346	5810.03	5834.03	24.00	18.3	200.7	260
22-Jul-15	Rainy	30.8	1006.1	1.314	1.314	1.314	1892.2	2.7837	2.8131	0.0294	5834.03	5858.03	24.00	15.5	200.7	260
28-Jul-15	Fine	29.2	1012.1	1.314	1.314	1.314	1892.2	2.8064	2.8395	0.0331	5858.03	5882.03	24.00	17.5	200.7	260
3-Aug-15	Sunny	29.5	1010.6	1.314	1.314	1.314	1892.2	2.7729	2.8070	0.0341	5882.03	5906.03	24.00	18.0	200.7	260
8-Aug-15	Sunny	32.4	998.5	1.314	1.314	1.314	1892.2	2.8132	2.9369	0.1237	5906.03	5930.03	24.00	65.4	200.7	260
14-Aug-15	Rainy	26.9	1007.4	1.314	1.314	1.314	1892.2	2.8313	2.8771	0.0458	5930.03	5954.03	24.00	24.2	200.7	260
17-Aug-15	Sunny	29.9	1008.2	1.314	1.314	1.314	1892.2	2.7388	2.7852	0.0464	5954.03	5978.03	24.00	24.5	200.7	260
22-Aug-15	Sunny	30.2	1000.1	1.314	1.314	1.314	1892.2	2.8148	2.9221	0.1073	5978.03	6002.03	24.00	56.7	200.7	260
28-Aug-15	Fine	28.3	1006.5	1.314	1.314	1.314	1892.2	2.8182	2.8859	0.0677	6002.03	6026.03	24.00	35.8	200.7	260
1-Sep-15	Sunny	27.4	1007.8	1.314	1.314	1.314	1892.2	2.8091	2.8437	0.0346	6026.03	6050.03	24.00	18.3	200.7	260
5-Sep-15	Sunny	29.3	1011.1	1.314	1.314	1.314	1892.2	2.8285	2.8786	0.0501	6050.03	6074.03	24.00	26.5	200.7	260
9-Sep-15	Sunny	28.2	1012.0	1.314	1.314	1.314	1892.2	2.8024	2.8573	0.0549	6074.03	6098.03	24.00	29.0	200.7	260
15-Sep-15	Fine	28.6	1011.3	1.314	1.314	1.314	1892.2	2.8146	2.8995	0.0849	6098.03	6122.03	24.00	44.9	200.7	260
21-Sep-15	Sunny	27.4	1008.6	1.314	1.314	1.314	1892.2	2.8153	2.8758	0.0605	6122.03	6146.03	24.00	32.0	200.7	260
26-Sep-15	Cloudy	28.7	1006.7	1.314	1.314	1.314	1892.2	2.8116	2.8925	0.0809	6146.03	6170.03	24.00	42.8	200.7	260
30-Sep-15	Sunny	29.8	1011.0	1.314	1.314	1.314	1892.2	2.7628	2.8744	0.1116	6170.03	6194.03	24.00	59.0	200.7	260
3-Oct-15	Sunny	26.8	1011.7	1.314	1.314	1.314	1892.2	2.8379	2.8976	0.0597	6194.03	6218.03	24.00	31.6	200.7	260
7-Oct-15	Fine	26.4	1012.7	1.314	1.314	1.314	1892.2	2.8069	2.8461	0.0392	6218.03	6242.03	24.00	20.7	200.7	260
13-Oct-15	Sunny	25.1	1018.7	1.314	1.314	1.314	1892.2	2.7828	2.8730	0.0902	6242.03	6266.03	24.00	47.7	200.7	260
19-Oct-15	Sunny	25.3	1010.2	1.314	1.314	1.314	1892.2	2.8150	2.9808	0.1658	6266.03	6290.03	24.00	87.6	200.7	260
24-Oct-15	Sunny	26.8	1015.0	1.314	1.314	1.314	1892.2	2.8352	2.9250	0.0898	6290.03	6314.03	24.00	47.5	200.7	260
28-Oct-15	Sunny	26.7	1017.0	1.314	1.314	1.314	1892.2	2.8408	2.9401	0.0993	6314.03	6338.03	24.00	52.5	200.7	260

Average for the reporting quarter (Aug 15 to Oct 15)	40.2
Minimum for the reporting quarter (Aug 15 to Oct 15)	18.0
Maximum for the reporting quarter (Aug 15 to Oct 15)	87.6



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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

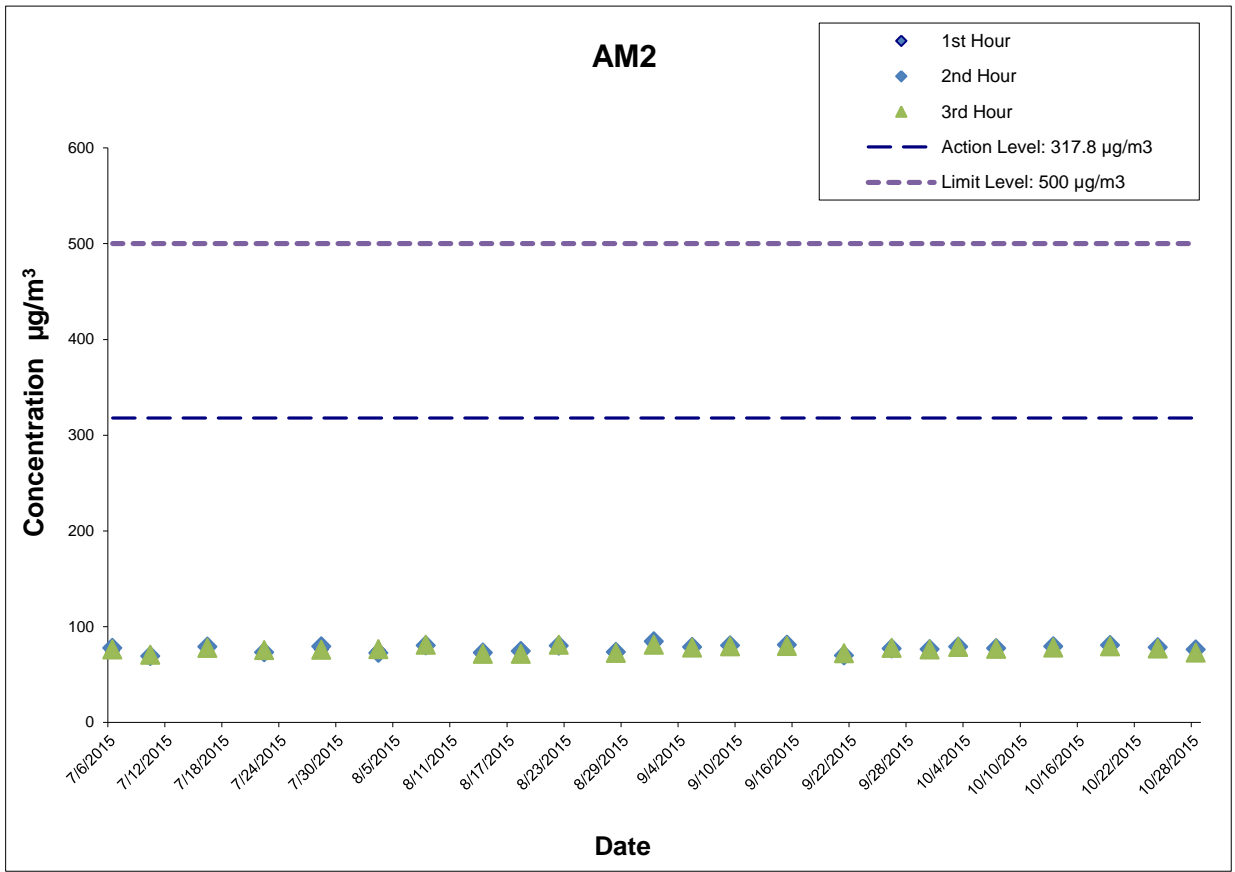
Date: Nov-15

Appendix E

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fangling 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-Jul-15	11:00	74.8	77.6	75.9
10-Jul-15	13:00	67.6	69.2	70.5
16-Jul-15	10:42	77.4	79.0	77.8
22-Jul-15	10:40	74.3	73.2	75.5
28-Jul-15	10:00	76.2	79.4	75.8
3-Aug-15	13:00	75.1	72.4	76.3
8-Aug-15	13:05	79.7	80.4	80.9
14-Aug-15	10:50	70.6	72.6	71.4
18-Aug-15	13:00	72.6	74.3	71.5
22-Aug-15	13:15	80.3	79.8	80.9
28-Aug-15	14:10	71.6	73.4	72.4
1-Sep-15	13:50	82.2	84.6	80.8
5-Sep-15	13:14	79.3	78.6	78.0
9-Sep-15	12:46	79.2	80.3	79.4
15-Sep-15	13:09	81.2	80.9	79.7
21-Sep-15	14:00	68.6	69.7	72.0
26-Sep-15	13:45	76.4	77.0	77.6
30-Sep-15	10:00	76.8	76.2	75.9
3-Oct-15	13:15	79.2	78.9	78.5
7-Oct-15	12:57	78.1	77.4	76.7
13-Oct-15	14:43	78.6	79.2	77.9
19-Oct-15	14:20	78.8	80.6	79.3
24-Oct-15	14:00	77.2	78.3	77.1
28-Oct-15	13:05	74.6	76.1	72.8
Average for the reporting quarter (Aug 15 to Oct 15)				77.0
Minimum for the reporting quarter (Aug 15 to Oct 15)				68.6
Maximum for the reporting quarter (Aug 15 to Oct 15)				84.6



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
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Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Nov-15

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Daily Extract of Meteorological Observations , August 2015 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	31.9	28.2	26.2	***	***	0.0	070	9.2
02	***	33.2	28.9	25.7	***	***	0.0	050	7.0
03	***	33.6	29.4	26.2	***	***	0.0	060	5.1
04	***	34.0	29.7	26.2	***	***	0.0	140	5.0
05	***	34.9	30.2	26.7	***	***	0.0	140	4.9
06	***	35.0	30.7	27.2	***	***	0.0	140	4.0
07	***	36.0	31.9	27.6	***	***	0.0	270	5.8
08	***	36.6	33.2	29.4	***	***	0.0	270	13.1
09	***	36.3	31.5	26.4	***	***	0.0	270	18.5
10	***	30.7	28.7	26.5	***	***	0.5	240	12.0
11	***	32.2	28.7	25.9	***	***	4.5	050	8.6
12	***	34.4	30.0	27.2	***	***	1.5	060	7.5
13	***	31.0	27.9	26.6	***	***	5.0	220	9.5
14	***	28.4	26.5	24.5	***	***	13.5	270	6.3
15	***	27.2	25.7	24.7	***	***	85.0	050	7.4
16	***	31.3	27.7	25.8	***	***	13.0	270	4.8
17	***	33.1	29.6	26.6	***	***	0.5	230	10.0
18	***	34.4	30.2	27.6	***	***	0.0	230	8.5
19	***	35.1	30.5	26.8	***	***	0.0	240	6.1
20	***	30.6	29.0	27.6	***	***	2.0	270	4.0
21	***	33.3	30.7	27.5	***	***	0.0	280	10.3
22	***	34.1	31.2	27.9	***	***	0.0	030	8.0
23	***	35.6	31.6	27.9	***	***	0.0	280	7.3
24	***	35.3	30.9	28.4	***	***	0.0	140	6.8
25	***	34.8	30.3	27.1	***	***	0.0	050	7.2
26	***	33.5	28.8	27.1	***	***	0.0	040	11.3
27	***	34.2	29.3	26.4	***	***	0.0	150	6.7
28	***	32.8	27.9	26.1	***	***	4.5	120	6.7
29	***	32.1	27.3	25.8	***	***	10.5	260	4.7
30	***	29.7	27.1	26.2	***	***	4.0	150	4.0
31	***	29.7	27.3	25.7	***	***	0.5	040	6.5

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Daily Extract of Meteorological Observations , August 2015 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1010.9	30.7	27.9	25.6	24.3	82	***	***	***
02	1011.3	31.6	28.1	24.5	23.8	78	***	***	***
03	1010.2	32.1	28.6	25.3	24.2	78	***	***	***
04	1007.9	32.8	28.8	25.0	23.6	74	***	***	***
05	1005.7	32.7	29.1	25.5	24.0	75	***	***	***
06	1004.9	33.1	29.5	26.3	24.1	74	***	***	***
07	1003.0	35.8	31.1	26.9	23.7	66	***	***	***
08	998.0	36.1	33.1	29.7	22.7	55	***	***	***
09	997.8	36.5	31.4	24.8	23.8	66	***	***	***
10	1003.9	30.0	27.8	25.6	25.0	85	***	***	***
11	1006.8	33.5	28.5	25.6	25.6	85	***	***	***
12	1007.3#	31.0	28.6#	26.7	26.3#	87#	***	***	***
13	1007.4#	28.1	27.4#	26.5	25.1#	88#	***	***	***
14	1007.1	28.0	26.1	24.6	25.1	95	***	***	***
15	1008.1	26.8	25.3	24.4	24.7	96	***	***	***
16	1008.1	30.7	26.9	25.3	26.0	95	***	***	***
17	1007.6	32.3	29.1	26.0	25.7	83	***	***	***
18	1007.4	33.7	29.9	27.1	25.4	78	***	***	***
19	1007.1	34.6	29.9	26.7	25.6	78	***	***	***
20	1005.9	30.9	28.5	26.9	25.9	86	***	***	***
21	1001.8	33.0	29.7	28.1	25.3	78	***	***	***
22	999.7	33.6	30.2	27.2	24.4	72	***	***	***
23	999.6	33.4	30.5	27.8	24.3	70	***	***	***
24	1002.1	33.6	30.3	27.6	24.1	71	***	***	***
25	1005.3	33.1	29.7	26.1	22.8	67	***	***	***
26	1007.8	31.6	28.4	26.8	25.1	83	***	***	***
27	1007.7	31.7	28.8	26.6	25.1	81	***	***	***
28	1006.2	29.8	27.2	25.9	24.7	86	***	***	***
29	1006.0	29.2	26.5	25.2	25.2	93	***	***	***
30	1006.4	27.8	26.3	25.4	25.2	94	***	***	***
31	1007.1	29.4	27.1	25.5	25.4	91	***	***	***

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Daily Extract of Meteorological Observations , September 2015 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	29.3	26.9	25.4	***	***	9.5	050	11.5
02	***	27.0	25.3	24.3	***	***	55.5	050	11.8
03	***	28.9	27.2	25.0	***	***	0.5	050	10.7
04	***	32.8	28.4#	26.6	***	***	4.0#	050#	6.3#
05	***	34.7	29.6	26.2	***	***	0.0	270	7.4
06	***	34.1	30.1	27.0	***	***	0.0	300	14.7
07	***	29.2	27.7	25.8	***	***	18.5	290#	9.1#
08	***	29.7	27.3	25.3	***	***	0.0	120	17.4
09	***	30.7	27.6	25.4	***	***	0.0	070	14.4
10	***	30.5	27.2	25.3	***	***	0.0	070	11.5
11	***	30.7	27.2	25.6	***	***	0.5	100	11.3
12	***	30.7	27.4	25.4	***	***	0.0	060	12.8
13	***	30.3	27.5	25.0	***	***	0.0	110	20.9
14	***	29.8	27.2	24.9	***	***	0.0	090	21.7
15	***	31.3	28.2	26.0	***	***	0.0	110	22.5
16	***	30.5	28.0	26.4	***	***	0.0	080	20.3
17	***	30.4	27.7	25.9	***	***	0.0	100	16.1
18	***	31.6	27.6	25.6	***	***	0.0	070	9.4
19	***	32.2	28.1	25.9	***	***	0.0	170	4.6
20	***	32.6	28.8	26.3	***	***	0.0	300	6.2
21	***	28.0	26.6	24.4	***	***	47.0	070	6.8
22	***	30.5	27.6	25.9	***	***	0.0	060	9.5
23	***	32.8	28.8	26.5	***	***	0.0	070	6.1
24	***	34.0	29.4	25.9	***	***	0.0	280	7.9
25	***	35.0	30.2	26.6	***	***	0.0	280	8.0
26	***	34.2	28.7	26.2	***	***	22.0	290	7.9
27	***	31.4	28.0	25.7	***	***	0.0	050	8.8
28	***	32.1	28.9	25.4	***	***	0.0	060	10.6
29	***	33.7	29.9	25.2	***	***	0.0	290	8.2
30	***	33.7	29.5	27.5	***	***	0.0	170	5.5

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Daily Extract of Meteorological Observations , September 2015 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1007.6	28.0	27.1	25.6	25.6	92	***	***	***
02	1010.6	27.2	25.4	23.9	24.6	95	***	***	***
03	1012.7	28.6	27.0	25.3	25.5	91	***	***	***
04	1012.7	31.3	28.6	26.0	25.7	85	***	***	***
05	1010.4	32.3	29.0	25.6	25.4	82	***	***	***
06	1007.3	33.7	29.7	26.6	25.3	78	***	***	***
07	1006.8	29.1	27.7	26.2	25.4	88	***	***	***
08	1009.2	30.0	27.7	26.0	22.8	75	***	***	***
09	1011.7	29.9	27.6	26.3	22.7	75	***	***	***
10	1012.4	29.5	27.2	25.2	22.8	77	***	***	***
11	1010.8	29.4	27.2	25.6	23.4	80	***	***	***
12	1011.3	29.7	27.3	25.4	23.1	78	***	***	***
13	1012.8	29.9	27.3	23.7	21.4	71	***	***	***
14	1012.1	29.4	27.3	25.5	22.1	74	***	***	***
15	1011.1	30.5	28.1	26.5	23.2	75	***	***	***
16	1011.7	29.4	27.8	27.2	24.2	81	***	***	***
17	1014.3	29.8	27.8	26.5	23.9	80	***	***	***
18	1014.8	30.6	27.7	25.6	23.8	80	***	***	***
19	1011.8	30.3	27.6	25.2	24.1	81	***	***	***
20	1008.7	31.1	28.3	25.6	24.3	80	***	***	***
21	1008.3	28.1	26.3	24.4	24.4	90	***	***	***
22	1009.6	30.3	27.5	25.4	24.8	85	***	***	***
23	1008.7	30.9	28.1	26.0	25.1	84	***	***	***
24	1006.2	33.0	28.8	25.4	24.3	78	***	***	***
25	1004.4	34.3	29.6	26.0	24.7	76	***	***	***
26	1006.4	31.8	28.0	26.2	25.9	89	***	***	***
27	1007.8	29.7	27.8	25.9	24.3	82	***	***	***
28	1006.5	32.2	28.3	24.2	20.0	62	***	***	***
29	1005.4	32.4	29.2	26.0	19.5	57	***	***	***
30	1010.7	31.7	28.9	26.8	24.5	78	***	***	***

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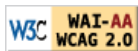
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Daily Extract of Meteorological Observations , October 2015 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	31.1	28.2	26.3	***	***	3.0	170	6.1
02	***	31.0	27.5	25.5	***	***	4.0	070	13.8
03	***	28.3	25.9	24.6	***	***	35.5	070	32.2
04	***	27.8	26.5	24.7	***	***	47.0	110	43.4
05	***	27.4	26.2	24.8	***	***	91.5	110	29.8
06	***	27.1	26.1	25.4	***	***	50.0	110	25.5
07	***	27.4	25.9	24.7	***	***	11.5	070	5.9
08	***	30.9	27.7#	23.1	***	***	0.5#	280#	7.6#
09	***	29.8	26.2	23.5	***	***	0.0	050	12.0
10	***	25.9	23.2	19.2	***	***	1.5	050	15.9
11	***	21.7	20.3	18.4	***	***	0.5	060	16.2
12	***	25.0	23.2	20.6	***	***	0.0	060	13.2
13	***	28.2	24.6	22.6	***	***	0.0	070	11.7
14	***	28.7	24.5	22.2	***	***	0.0	070	9.3
15	***	29.9	25.1	22.4	***	***	0.0	160	6.2
16	***	29.5	25.3	22.2	***	***	0.0	160	4.9
17	***	30.3	25.5	22.5	***	***	0.0	130	6.1
18	***	28.9	24.9	21.9	***	***	0.0	280	7.1
19	***	29.1	24.8	21.7	***	***	0.0	050	9.0
20	***	29.5	25.4	22.8	***	***	0.0	060	7.0
21	***	31.3	26.2	23.1	***	***	0.0	170	3.5
22	***	31.1	26.7	24.0	***	***	0.0	160	7.2
23	***	31.6	26.6	23.9	***	***	0.0	160	5.3
24	***	30.1	26.6	23.7	***	***	0.0	110	10.3
25	***	27.4	26.0	25.2	***	***	0.0	120	22.0
26	***	26.7	25.1	23.9	***	***	0.0	110	12.4
27	***	31.3	26.5	23.8	***	***	0.0	150	4.4
28	***	29.6	26.1	24.5	***	***	0.0	110	13.0
29	***	28.2	25.8	24.4	***	***	0.0	110	15.8
30	***	29.7	26.0	23.9	***	***	0.0	060	9.5
31	***	27.0	25.2	21.8	***	***	0.5	110	24.1

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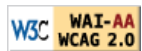
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Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1012.6	29.9	27.8	26.2	25.5	88	***	***	***
02	1012.3	29.6	27.0	24.8	22.6	77	***	***	***
03	1011.9	28.7	26.3	23.8	23.6	85	***	***	***
04	1013.1	28.2	26.9	24.9	24.5	87	***	***	***
05	1015.0	28.0	26.2	24.4	24.6	91	***	***	***
06	1013.8	26.6	25.5	24.3	24.8	96	***	***	***
07	1012.4	26.2	25.3	24.5	24.7	97	***	***	***
08	1010.1	31.0	27.2	24.0	23.3	80	***	***	***
09	1011.2	28.9	26.1	23.2	20.7	73	***	***	***
10	1013.8	25.6	23.1	19.6	19.2	79	***	***	***
11	1018.2	22.1	19.5	17.8	15.9	80	***	***	***
12	1018.9	24.4	22.2	18.9	16.6	71	***	***	***
13	1018.6	27.0	24.1	21.5	18.5	71	***	***	***
14	1017.3	27.4	24.0	21.2	19.3	76	***	***	***
15	1015.0	27.8	24.2	21.3	20.0	78	***	***	***
16	1013.6	28.9	24.7	20.9	19.5	74	***	***	***
17	1013.2	29.5	24.7	21.2	18.3	70	***	***	***
18	1012.4	28.1	24.0	20.4	17.9	70	***	***	***
19	1010.1	26.9	23.6	20.1	16.3	64	***	***	***
20	1008.4	28.1	24.5	21.6	17.0	64	***	***	***
21	1010.0	29.1	25.1	21.5	19.2	70	***	***	***
22	1011.8	30.0	26.1	23.1	20.3	71	***	***	***
23	1012.8	29.7	26.0	22.6	20.7	74	***	***	***
24	1014.8	28.6	26.0	22.8	21.5	77	***	***	***
25	1016.6	27.6	26.1	25.3	21.2	75	***	***	***
26	1016.6	25.7	25.0	24.1	21.7	82	***	***	***
27	1015.3	29.0	25.9	22.9	22.1	80	***	***	***
28	1016.7	28.8	26.1	23.6	22.8	82	***	***	***
29	1017.9	27.8	25.8	24.7	22.3	82	***	***	***
30	1017.6	28.4	26.0	24.4	22.7	82	***	***	***
31	1020.2	26.7	25.3	23.2	21.1	78	***	***	***

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**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-Jul-15	10:00	69.2	71.4	67.1	75	N
10-Jul-15	13:20	69.0	70.5	66.5	75	N
16-Jul-15	9:48	69.5	71.8	65.9	75	N
22-Jul-15	9:57	68.4	70.4	66.3	75	N
28-Jul-15	9:50	70.2	73.1	68.0	75	N
3-Aug-15	13:25	68.5	69.5	66.0	75	N
14-Aug-15	10:00	70.2	73.6	68.5	75	N
18-Aug-15	14:00	69.6	73.2	66.8	75	N
28-Aug-15	14:00	70.2	73.6	68.1	75	N
1-Sep-15	14:30	69.3	71.0	69.3	75	N
9-Sep-15	14:17	69.6	72.4	68.2	75	N
15-Sep-15	14:35	70.1	72.3	68.5	75	N
21-Sep-15	15:00	69.2	71.0	69.2	75	N
30-Sep-15	10:50	68.4	70.2	66.7	75	N
7-Oct-15	15:40	68.7	70.5	66.9	75	N
13-Oct-15	13:49	69.8	72.6	68.2	75	N
19-Oct-15	13:30	70.2	71.1	66.9	75	N
28-Oct-15	14:00	70.6	72.0	67.3	75	N
Minimum for Aug 15 to Oct 15		68.4	69.5	66.0		
Maximum for Aug 15 to Oct 15		70.6	73.6	69.3		
Average for Aug 15 to Oct 15		69.2	71.6	67.1		

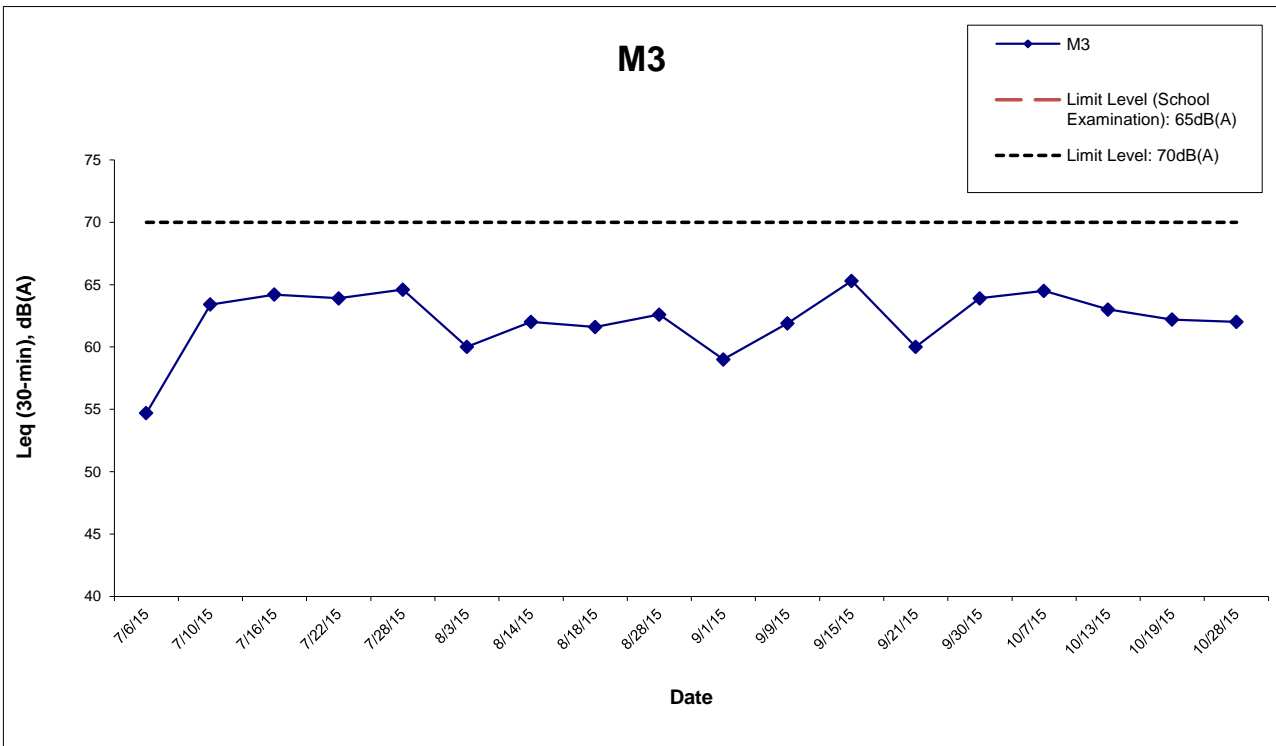
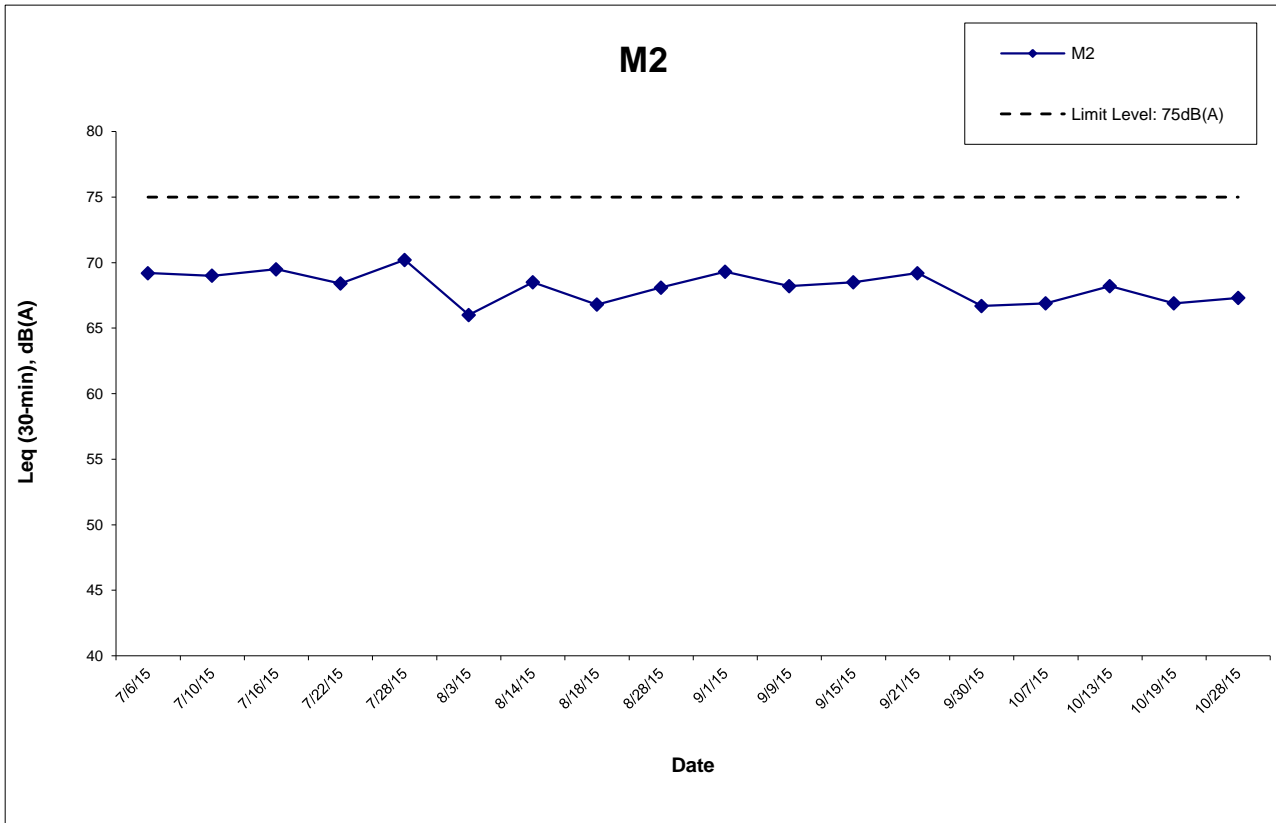
Location : M3 (Fanling Government Secondary School- Façade)

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-Jul-15	10:58	54.7	67.4	61.2	70	N
10-Jul-15	13:00	63.4	64.5	61.0	70	N
16-Jul-15	10:44	64.2	66.0	61.1	70	N
22-Jul-15	10:52	63.9	65.1	62.2	70	N
28-Jul-15	10:00	64.6	67.4	62.1	70	N
3-Aug-15	13:00	62.1	63.5	60.0	70	N
14-Aug-15	10:50	64.1	67.3	62.0	70	N
18-Aug-15	13:00	64.2	66.8	61.6	70	N
28-Aug-15	14:10	64.1	67.3	62.6	70	N
1-Sep-15	15:20	61.1	62.5	59.0	70	N
9-Sep-15	12:46	64.4	66.3	61.9	70	N
15-Sep-15	13:15	67.2	69.1	65.3	70	N
21-Sep-15	14:00	62.6	64.0	60.0	70	N
30-Sep-15	10:00	65.2	66.4	63.9	70	N
7-Oct-15	14:46	66.4	68.1	64.5	70	N
13-Oct-15	14:41	64.4	66.8	63.0	70	N
19-Oct-15	14:19	64.6	67.0	62.2	70	N
28-Oct-15	13:10	64.2	66.0	62.0	70	N
Minimum for Aug 15 to Oct 15		61.1	62.5	59.0		
Maximum for Aug 15 to Oct 15		67.2	69.1	65.3		
Average for Aug 15 to Oct 15		63.8	66.2	61.8		

* +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	0	5
	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		

	Date Received	Subject	Status	Total no. followed up by the ET this reporting period	Total no. followed up by the ET since project commencement
	25 March 2015	<p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p>	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0