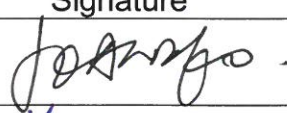


Environmental Protection Department

Contract No. HY/2012/06

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

[05/2015]

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

Version: Rev. 0 Date: 28 May 2015

Disclaimer

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

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

Dear Sir,

26 May 2015
By Fax (2805 5028) & Post

Attn: Mr. James Penny

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

We refer to the Quarterly EM&A Summary Report for February 2015 to April 2015 for the Project received on 22 and 26 May 2015 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



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/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 February and 30 April 2015. As informed by the Contractor, construction activities in the reporting period were:

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

One (1) odour-related complaint was received on 25 March 2015 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 March 2015.

No notification of summons and successful prosecution was received in the reporting month.

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;
- Tree felling and transplantation;
- Piling works;
- Pipe laying;
- Retaining wall construction;
- Excavation;
- Backfilling;
- Drainage;
- Temporary bridge construction;
- Box culvert construction;
- Noise barrier construction;
- Houses demolition;
- Soil nail;

- Footbridge demolition; and
- House 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 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)	75.7	60.2 – 82.1	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)	51.9	22.2 – 95.9	200.7	260

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

- 4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

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

	Average (dB(A)) L_{eq} (30 mins)	Range (dB(A)) L_{eq} (30 mins)	Limit Level (dB(A)) L_{eq} (30 mins)
M2*	69.1	66.9 – 70.6	75
M3 [#]	64.5	59.8 – 66.9	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, 6,520 m³ of inert C&D material was disposed of as public fill to Tuen Mun 38 (of which 0m³ was broken concrete), while 330 m³ of general refuse was disposed of at NENT landfill. 233 kg of paper/cardboard packaging, 0 kg of plastics and 22 kg of metals were collected by recycling contractors in the reporting period. 1,975 m³, 3,199 m³, and 1,346 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	6,520 m ³ (of which 0m ³ was broken concrete)	Tuen Mun 38
General refuse	330 m ³	NENT Landfill
Paper/cardboard packaging	233 kg	Recycling Contractors
Plastics	0kg	Recycling Contractors
Metals	22kg	Recycling Contractors
C&D materials reused on site	1,975 m ³	Site Area
C&D materials reused in other projects	3,199 m ³	Other projects
C&D materials reused in NENT for backfilling	1,346 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 or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 One (1) odour-related complaint was received on 25 March 2015 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 March 2015.
- 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 period, the following comments are made to the Contractor for precautionary and rectification purposes:

Air Quality Impact

- 8.1.2 The Contractor was recommended to enhance the water spraying frequency for dust suppression.
- 8.1.3 The Contractor was recommended to cover soil stockpiles entirely with tarpaulin for dust suppression.

Construction Noise Impact

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

Water Quality Impact

- 8.1.5 The Contractor was recommended to clear the muddy water regularly and review the wheel-washing facilities.
- 8.1.6 The Contractor was recommended to review their mechanism to collect muddy water to prevent muddy water from discharging to public areas by clearing the mud accumulating in the U-channel or carrying out equivalent measures.
- 8.1.7 The Contractor was recommended to use another means such as pH papers to monitor the pH of the water in the sedimentation tank regularly.
- 8.1.8 The Contractor was recommended to ensure all water discharged from the construction site has passed the sedimentation tank.

Chemical and Waste Management

- 8.1.9 The Contractor was recommended to provide a drip tray to retain the oil leakage and dispose of the stained soil properly as chemical waste.
- 8.1.10 The Contractor was recommended to stick appropriate labels on the chemical container.
- 8.1.11 The Contractor was recommended to remove the excavator and clear the contaminated soil on the ground.

Landscape and Visual Impact

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

Miscellaneous

- 8.1.13 The Contractor was recommended to post the latest version of Environmental Permit at all site entrances.
- 8.1.14 The Contractor was recommended to clear the stagnant water to prevent mosquito breeding and clear the refuse to maintain site hygiene.

8.2 Recommendations

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

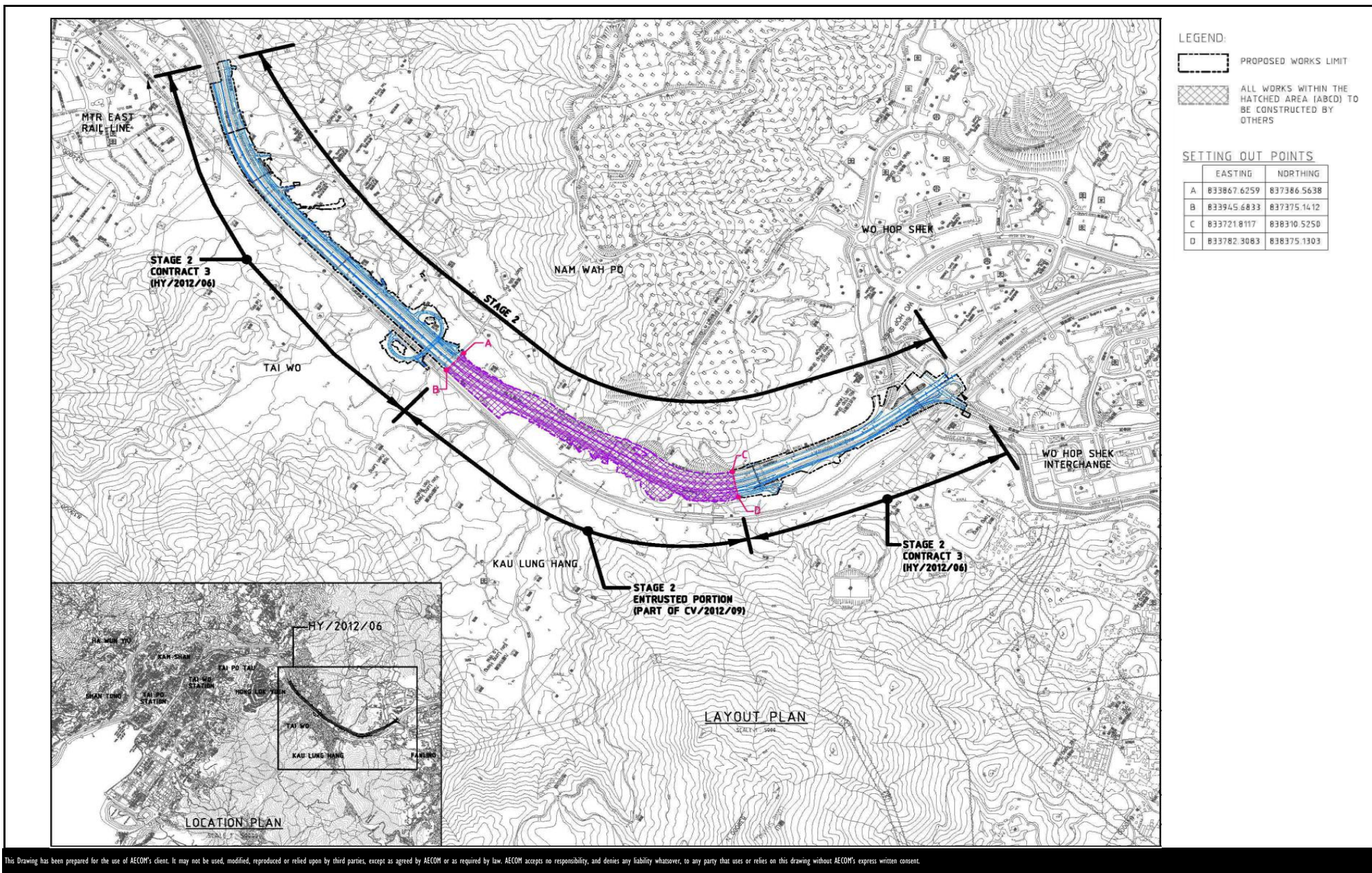
environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.

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

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 8.3.3 One (1) odour-related complaint was received on 25 March 2015 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 March 2015.
- 8.3.4 No notification of summons and successful prosecution was received in the reporting period.

FIGURES



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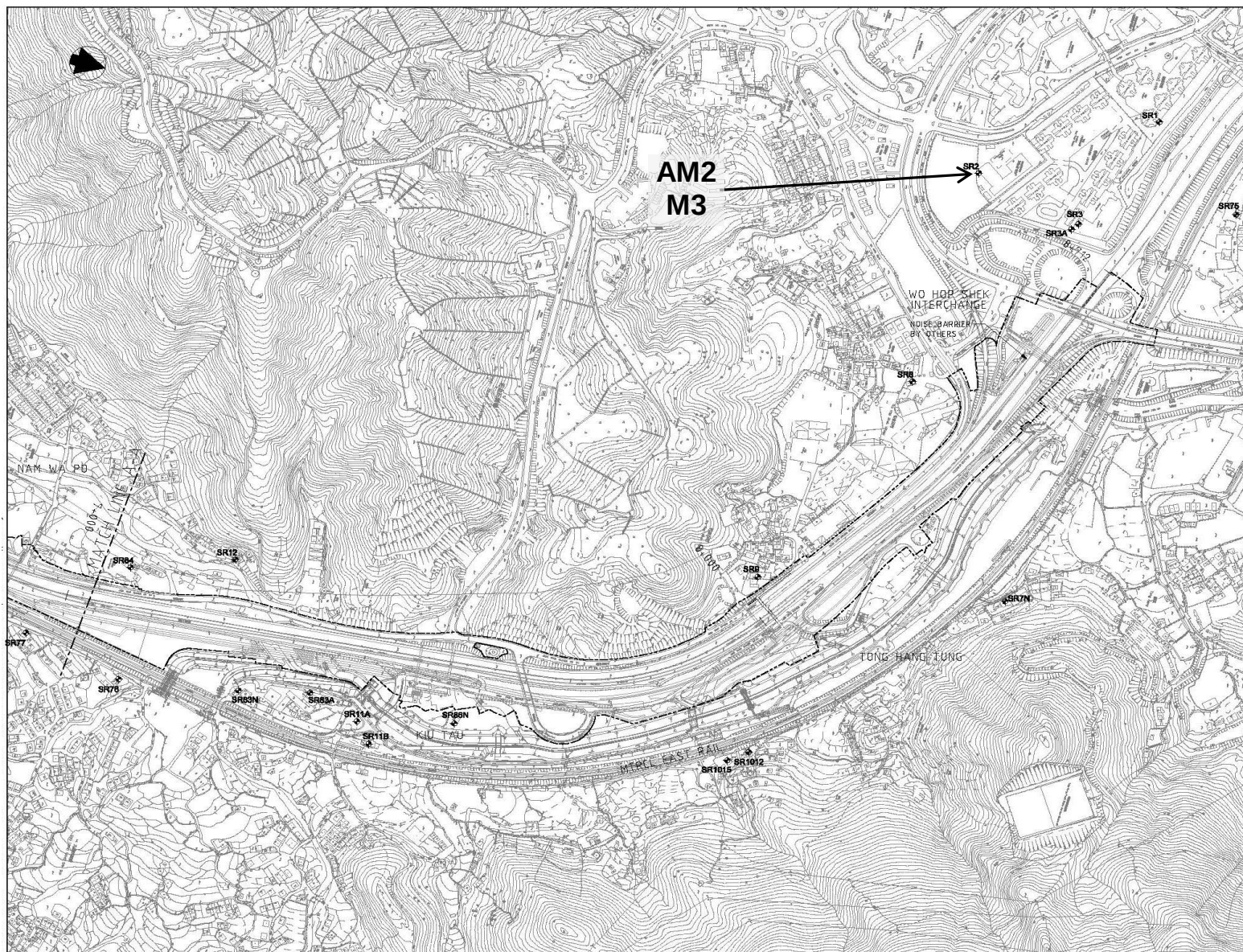
CONTRACT NO. HY/2012/06
WIDENING OF FANLING HIGHWAY
- TAI HANG TO WO HOP SHEK INTERCHANGE

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Layout Plan

Date: Dec 2013

Figure 1.1



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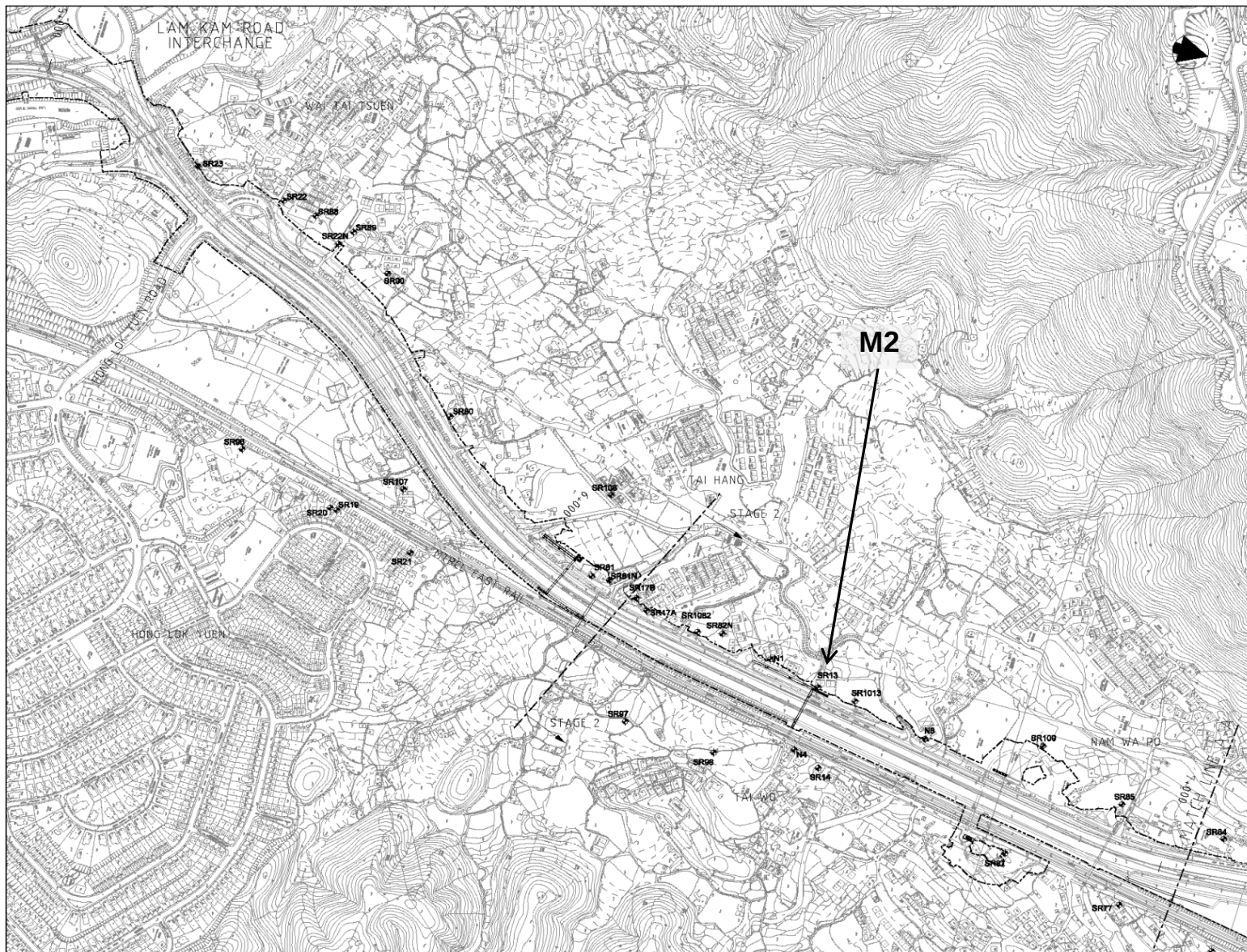
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

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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

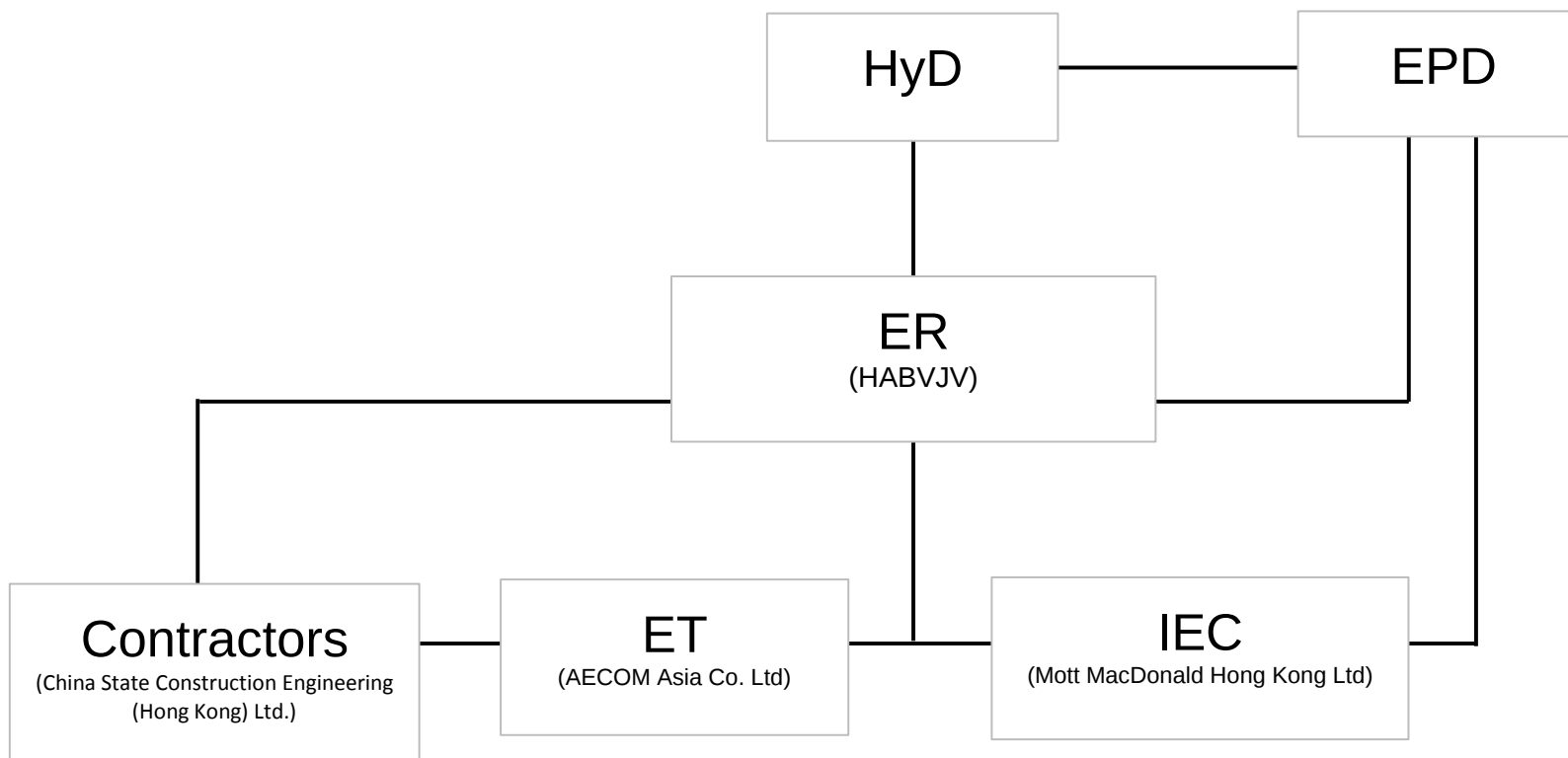
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Locations of Monitoring Station

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	Planning duration	Original duration	Start	Finish	Total Float	2015				
									Feb	Mar	Apr	May
Contract Condition												
General												
Contract Condition												
Contract Condition												
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Feb-15*		-222		◆ Site Area SA323A (360d) (not required)			
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Feb-15*		-50		◆ 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 A	23-Apr-15	34					
NB00120	NB42 (Ch5640-5740) - NB production	0%	45	45	24-Apr-15	07-Jun-15	1253					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10130	Watermain installation (along NB42)	0%	30	30	27-Feb-15	02-Apr-15	19					
TSZ10140	Firemain installation (along NB42)	0%	30	30	07-Apr-15	12-May-15	19					
Underground Utility Works												
UUZ10100	Utility cable laying by Utility companies (Along NB42)	0%	48	48	13-May-15	10-Jul-15	19					
NB42A (Ch.5750-5810)-TWSR West Side												
Noise Barrier Works												
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	20-Mar-15	27-Apr-15	-65					
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	28-Apr-15	11-Jun-15	1249					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10150	Sheet Piling & Excavation(~5m below ground) (along NB42A)	0%	18	18	27-Feb-15	19-Mar-15	-65					
TSZ10180	Watermain installation (along NB42A)	0%	20	20	28-Apr-15	21-May-15	-65					
Underground Utility Works												
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	24	24	28-Apr-15	27-May-15	-49					
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	27-Feb-15	15-Sep-15	931					
NB47 (Ch.5880-5930)-TWSR West Side												
Noise Barrier Works												
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure	0%	30	30	23-Apr-15	29-May-15	-350					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10250	Sheet Piling & Excavation(~6m below ground) (along NB47)	44.44%	10	18	21-Feb-15 A	10-Mar-15	-350					
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	11-Mar-15	31-Mar-15	-350					
TSZ10270	Backfill up to NB47 footing level	0%	16	16	01-Apr-15	22-Apr-15	-350					
TSZ10280	Watermain installation (along NB47)	0%	26	26	23-Apr-15	23-May-15	-348					
NB47A (Ch.5950-5975)-TWSR West Side												
Noise Barrier Works												
NB00300	NB47A - ID1-1 piling (0.19m -24no)	0%	50	50	27-Feb-15	29-Apr-15	-262					
NB00335	Backfilling (Along NB47A-above ID1)	0%	25	25	01-Apr-15	04-May-15	149					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	0%	28	28	27-Feb-15	31-Mar-15	149					
Underground Utility Works												
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above	0%	12	12	27-Feb-15	12-Mar-15	165					
NB48 (Ch.5995-6120)-TWSR West Side												
Noise Barrier Works												
NB00420	NB48 (NB48/5-10) piling (0.19m -64no)	0%	96	96	27-Feb-15	25-Jun-15	-68					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10400	Sheet Piling & Excavation(~5m below ground) (along NB48, 0-60m)	0%	21	21	27-Feb-15	23-Mar-15	-147					
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	24-Mar-15	16-Apr-15	-147					
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	32	32	17-Apr-15	26-May-15	-147					
NB49 (Ch.6145-6215)-TWSR West Side												
Noise Barrier Works												
NB00490	NB49 piling (0.19m -96no)	51.04%	47	96	12-Jan-15 A	25-Apr-15	-24					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10500	Sheet Piling & Excavation(~7m below ground) (along NB49)	0%	14	14	27-Apr-15	13-May-15	-24					
TSZ10510	DSD Trunk Sewer laying (along NB49)	0%	12	12	14-May-15	28-May-15	-24					
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	27-Feb-15	27-Feb-15	-126					
NB00610	NB54 - ID2-1 piling (0.19m -18no)-) (Deleted notified on 14-5, VO issued	0%	0	0	27-Feb-15	27-Feb-15	-126					
NB00620	NB54 - ID2-1 Sheet piling & excavation (~3m)	0%	18	18	27-Feb-15	19-Mar-15	-10					
NB00630	NB54 - ID2-1 Footing & Wall Structure	0%	60	60	20-Mar-15	03-Jun-15	-10					
NB00665	NB54 -Pre-drilling	20.83%	19	24	15-Nov-14 A	20-Mar-15	-145					
NB00670	NB54 piling (0.19m -24no)-1 rigs	0%	72	72	21-Mar-15	18-Jun-15	-145					
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00740	NB54A piling (0.19m -72no)	65.74%	37	108	05-May-14 A	14-Apr-15	-33					
NB57 (Ch.6365-6445)-TWSR West Side												

Activity ID	Activity Name	Duration % complete	Planning % duration	Original duration	Start	Finish	Total Float	2015						
									Feb	Mar	Apr	May		
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	23-Mar-15	-156							
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	24-Mar-15	16-Apr-15	-156							
TSZ10720	Backfill up to NB57 footing level	0%	20	20	17-Apr-15	11-May-15	-156							
TSZ10730	Watermain installation (along NB57)	0%	30	30	12-May-15	16-Jun-15	-114							
NB59 (Ch.6490-6590)-TWSR West Side														
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10800	Sheet Piling & Excavation(~5m below ground) (along NB59)	0%	28	28	27-Feb-15	31-Mar-15	-115							
TSZ10810	DSD Trunk Sewer laying (along NB59)	0%	30	30	01-Apr-15	09-May-15	-115							
TSZ10820	Backfill up to NB59 footing level	0%	36	36	11-May-15	23-Jun-15	-115							
NB63 (Ch.6610-6700)-TWSR West Side														
Noise Barrier Works														
NB01030	NB63 - backfilling	0%	50	50	28-Apr-15	27-Jun-15	-152							
NB01040	NB63 - NB production	0%	45	45	20-Feb-15	05-Apr-15	1316							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10300	Sheet Piling & Excavation(~7m below ground) (along NB63)	0%	12	12	27-Feb-15	12-Mar-15	-80							
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	13-Mar-15	02-Apr-15	1693							
TSZ10330	Watermain installation (along NB63)	0%	30	30	07-Apr-15	12-May-15	1693							
TSZ10340	Firemain installation (along NB63)	0%	30	30	13-May-15	17-Jun-15	1693							
DSD Southern Trunk Sewer - Trenchless Construction														
TSZ10950	Construct Pipe jacking pits	0%	60	60	13-Mar-15	27-May-15	-80							
Underground Utility Works														
UUZ20230	Utility cable laying by Utility companies (Along NB63~100m)	0%	48	48	27-Dec-14 A	27-Apr-15	-152							
Bridge Construction														
New Tai Hang Footbridge														
General														
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	27-Feb-15	12-May-15	470							
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	24-Apr-15	30-May-15	470							
TWSR-West/ FL Highway N/B Side Section														
THBF0130	THP5 - Pile Test	0%	28	28	20-Feb-15	19-Mar-15	874							
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	06-Mar-15	30-Apr-15	699							
THBF0160	THP8, THP9 - Pre-bored H pile (8 nos)	50%	12	24	08-Nov-14 A	12-Mar-15	786							
THBF0170	THP8, THP9 - Pile Test	0%	28	28	13-Mar-15	09-Apr-15	979							
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	27-Mar-15	05-May-15	786							
THBF0210	THAB3 - Pile Test	0%	28	28	20-Feb-15	19-Mar-15	969							
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	06-Mar-15	13-Apr-15	777							
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	14-Apr-15	15-May-15	777							
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		15-May-15	777							15-May-15 ♦ Site
THBF0250	THP6, THP7 - Pre-bored H pile (14 nos)	54.76%	19	42	17-Nov-14 A	20-Mar-15	588							
THBF0260	THP6, THP7 - Pile Test	0%	28	28	21-Mar-15	17-Apr-15	863							
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	07-Apr-15	12-May-15	690							
THBF0290	THAB2 - Pre-bored H pile (18 nos)	81.48%	10	54	12-Dec-14 A	10-Mar-15	-126							
THBF0300	THAB2 - Pile Test	0%	28	28	11-Mar-15	07-Apr-15	-161							
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	25-Mar-15	02-May-15	-128							
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	04-May-15	27-May-15	678							
TWSR-East FL Highway S/B Side Section														
THBF0440	THAB1 - Predrilling	0%	12	12	27-Feb-15	12-Mar-15	595							
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	21-Mar-15	07-Apr-15	588							
THBF0460	THAB1 - Pile Test	0%	28	28	08-Apr-15	05-May-15	766							
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	22-Apr-15	28-May-15	612							
THBF0490	THP2 - Predrilling	0%	12	12	13-Mar-15	26-Mar-15	595							
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	08-Apr-15	06-May-15	588							
THBF0510	THP2 - Pile Test	0%	28	28	07-May-15	03-Jun-15	798							
THBF0700	THP3 - Predrilling	0%	6	6	27-Mar-15	02-Apr-15	613							
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	07-May-15	26-May-15	588							
THBF0740	THP4 - Predrilling	0%	6	6	07-Apr-15	13-Apr-15	623							
New Tai Wo Footbridge														
General														
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	27-Feb-15	17-Jun-15	691							
TWSR-West/ FL Highway N/B Side Section														
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	0%	42	42	06-May-15	25-Jun-15	-175							
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	0%	54	54	27-Feb-15	05-May-15	-192							
TWFB1330	TWAB1 - Pile Test	0%	28	28	06-May-15	02-Jun-15	-244							
Temporary Tai Wo Footbridge														
Design Works														
TWFB-T1010	Design preparation	87.78%	11	90	01-Nov-14 A	11-Mar-15	201							
TWFB-T1020	Engineer Comment	0%	26	26	12-Mar-15	14-Apr-15	201							
TWFB-T1030	Design amendment	0%	26	26	15-Apr-15	15-May-15	201							

Activity ID	Activity Name	Duration % complete	aining uration	Original uration	Start	Finish	Total Float	2015				
									Feb	Mar	Apr	May
TWFB-T1040	Design Available	0%	0	0		15-May-15	201					15-May-15 ♦ De
Construction Works												
TWFB-T1045	Sub-contractor procurement	0%	52	52	16-May-15	18-Jul-15	201					
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	02-Apr-15	509					
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	5.56%	85	90	13-Feb-15 A	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	27-Feb-15	12-May-15	447					
NB02430	Precautionary Measure installation	0%	26	26	13-May-15	12-Jun-15	447					
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	18-Apr-15	479					
NB02650	NB55- backfilling	0%	50	50	20-Apr-15	18-Jun-15	479					
NB02660	NB55 - NB production	0%	45	45	18-Apr-15	02-Jun-15	1258					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02710	NB56 - Footing & Wall Structure	43.33%	34	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												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	30-Apr-15	21-May-15	937					
NB02840	NB61 (50-160m) - backfilling	0%	50	50	27-Feb-15	29-Apr-15	937					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Feb-15	05-Apr-15	1316					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	07-Apr-15	11-Apr-15	1061					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02910	NB61A (0-50m)- backfilling	60%	20	50	20-Jan-15 A	21-Mar-15	1763					
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Feb-15	05-Apr-15	1316					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	07-Apr-15	11-Apr-15	1061					
NB02960	NB61A ID2-3 (50-75m)- Sheet piling & Excavation	0%	10	10	21-Jan-15 A	10-Mar-15	961					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	0%	70	70	11-Mar-15	05-Jun-15	961					
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Feb-15	05-Apr-15	1316					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	07-Apr-15	11-Apr-15	1061					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1030	Design Preparation	46.15%	14	26	06-Aug-14 A	14-Mar-15	928					
MCLT1040	Engineer approval	0%	12	12	16-Mar-15	28-Mar-15	928					
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	12	12	30-Mar-15	15-Apr-15	928					
MCLT1060	Design available for construction	0%	0	0		15-Apr-15	928					15-Apr-15 ♦ Design available for construction
MCLT1080	Construct New MCLT (Structure)	0%	60	60	16-Apr-15	27-Jun-15	928					
TCSS Works												
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		29-Apr-15	1016					29-Apr-15 ♦ Slow lane footing -
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-Feb-15	05-Apr-15	676					
NB01120	NB63A-2 - Footing & Wall Structure (ch10.7-24.2)	0%	30	30	27-Feb-15	02-Apr-15	-2					
NB01140	NB63A-2 - NB production	0%	45	45	03-Apr-15	17-May-15	634					
NB01170	NB63A-3 - Footing & Wall Structure (ch24.2-86.9)	0%	50	50	07-Apr-15	05-Jun-15	-2					
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	27-Feb-15	23-Mar-15	-157					
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	24-Mar-15	16-Apr-15	-157					
TSZ10920	Backfill up to NB64 footing level	0%	32	32	17-Apr-15	26-May-15	-157					
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	20-May-15	-111					
KLH Bridge - Deck 1												
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	0%	90	90	11-Feb-15 A	17-Jun-15	6					
KLH Bridge - Ramp R1												
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	27-Feb-15	17-Apr-15	165					

Activity ID	Activity Name	Duration % complete	Planning duration	Original duration	Start	Finish	Total Float	2015				
									Feb	Mar	Apr	May
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	18-Apr-15	05-Jun-15	165					
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	0%	45	45	27-Feb-15	23-Apr-15	210					
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	24-Apr-15	30-May-15	210					
KLH Bridge - Deck 3												
Z2.KLH.1360	VBP6 - Pile cap, pier construction	0%	90	90	27-Feb-15	17-Jun-15	-90					
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	70.67%	22	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	01-Apr-15	28-Aug-15	78					
Z2.KLH.1158	VBP4-Pre-drilling work	0%	15	15	16-Mar-15	01-Apr-15	68					
Z2.KLH.1160	VBP4- Pre-bored H-pile piling works (9 Nos.)	0%	27	27	31-Mar-15	05-May-15	68					
Z2.KLH.1170	VBP4- Pile cap, pier & pier head construction	0%	80	80	04-May-15	07-Aug-15	68					
Z2.KLH.1222	VBP5 - Backfilling & Road Work for TTA for VBP4	0%	14	14	27-Feb-15 A	14-Mar-15	68					
Z2.KLH.1255	Relocate MTRC OHL for deck construction	0%	30	30	14-May-15	18-Jun-15	-79					
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	21-Apr-15	5					
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	18-Apr-15	09-Sep-15	5					
Z2.KLH.1590	Land Possession for House 190B	0%	0	0		27-Feb-15	-116					
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	07-Mar-15	-125					
Z2.NWP.1030	Diversion of Existing Pedestrian to Temp. Steel Ramp	0%	1	1	09-Mar-15	09-Mar-15	-125					
Z2.NWP.1050	Removal of Existing Ramp Portion and Deck Above Existing TWSR	0%	30	30	10-Mar-15	16-Apr-15	-125					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Site Formation												
Site Formation Works												
Site Formation Work												
Z4SF1070	Backfilling (~20000m3)	84.44%	28	180	10-May-14 A	31-Mar-15	-184					
Retaining Wall W76												
Structure Works												
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					
Z4SF1110	Backfilling up to road finishes level	0%	30	30	29-Apr-15	04-Jun-15	-184					
Bridge Construction												
New Ho Ka Yuen Footbridge												
General												
HKY1050	Structure steel procurement (HKYB)	38%	93	150	10-Dec-14 A	23-May-15	-226					
TWSR-West/ FL Highway N/B Side Section												
HKY1150	HKYP6 - Pre-bored H pile (8 nos)	0%	24	24	27-Feb-15	26-Mar-15	-171					
HKY1160	HKYP6 - Pile Test	0%	28	28	27-Mar-15	23-Apr-15	-111					
HKY1170	HKYP6 - Pile cap, Pier and Pier Head	0%	45	45	10-Apr-15	03-Jun-15	-82					
HKY1172	HKYP1 - Predrilling	0%	12	12	27-Feb-15	12-Mar-15	-64					
HKY1174	HKYP1 - Pre-bored H pile (4 nos)	0%	12	12	27-Mar-15	13-Apr-15	-64					
HKY1176	HKYP1 - Pile Test	0%	28	28	14-Apr-15	11-May-15	-73					
HKY1230	HKYAB3 - Pre-bored H pile (4 nos)	0%	12	12	27-Mar-15	13-Apr-15	-171					
HKY1240	HKYAB3 - Pile Test	0%	28	28	14-Apr-15	11-May-15	-94					
HKY1250	HKYAB3 - pile cap & abutment wall	0%	30	30	28-Apr-15	03-Jun-15	-70					
HKY1275	Existing HKY bridge structure removed (TWSR-W)	0%	0	0		27-Feb-15	-25					
HKY1330	HKYAB4 - Pre-bored H pile (16 nos)	0%	48	48	14-Apr-15	10-Jun-15	-171					
TWSR-East FL Highway S/B Side Section												
HKY1540	HKYAB1 - Backfilling (~3m)	0%	20	20	27-Feb-15	21-Mar-15	-90					
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	95.56%	2	45	24-Nov-14 A	28-Feb-15	-72					
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	0%	54	45	15-Oct-14 A	05-May-15	-94					
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	0%	51	45	18-Sep-14 A	30-Apr-15	-91					
HKY1850	HKYAB2 - Backfilling (~4m)	0%	27	27	27-Feb-15	30-Mar-15	-67					
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	13-Mar-15	13-Apr-15	-64					
NB4110	NB75 - piling (NB75/06, 0.19m -8no)-with HKY-P1	0%	24	24	14-Apr-15	12-May-15	-64					
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1040	Structure steel procurement (WHSB)	38.67%	92	150	10-Dec-14 A	22-May-15	331					

Activity ID	Activity Name	Duration % complete	Planning duration	Original duration	Start	Finish	Total Float	2015						
									Feb	Mar	Apr	May		
TWSR-West/ FL Highway N/B Side Section														
WHS1160	WHSP2 - Pre-bored H pile (8 nos)	0%	24	24	13-Mar-15	13-Apr-15	198							
WHS1170	WHSP2 - Pile Test	0%	28	28	14-Apr-15	11-May-15	239							
WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	28-Apr-15	22-Jun-15	198							
WHS1200	WHSP6 - Pre-bored H pile (6 nos)	0%	18	18	14-Apr-15	05-May-15	229							
WHS1210	WHSP6 - Pile Test	0%	28	28	06-May-15	02-Jun-15	282							
WHS1224	WHSP7 - Pre-bored H pile (6 nos)	0%	18	18	06-May-15	27-May-15	252							
WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	0%	12	12	27-Feb-15	12-Mar-15	198							
WHS1250	WHSAB1 - Pile Test	0%	28	28	13-Mar-15	09-Apr-15	848							
WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	27-Mar-15	05-May-15	677							
WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	06-May-15	06-Jun-15	677							
WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	18	18	27-Feb-15	19-Mar-15	257							
WHS1896	WHSP3 - Pile Test	0%	28	28	20-Mar-15	16-Apr-15	315							
WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	17-Apr-15	22-May-15	252							
WHS1910	WHSP4 - Pre-bored H pile (6 nos)	0%	18	18	20-Mar-15	13-Apr-15	277							
WHS1920	WHSP4 - Pile Test	0%	28	28	14-Apr-15	11-May-15	344							
WHS1950	WHSP5 - Pre-bored H pile (6 nos)	0%	18	18	14-Apr-15	05-May-15	286							
WHS1960	WHSP5 - Pile Test	0%	28	28	06-May-15	02-Jun-15	358							
Crossing Fanling Highway Section														
WHS1470	WHSP1 - Pile cap, Pier and Pier Head	1.92%	51	52	18-Jun-14 A	30-Apr-15	617							
TWSR-East FL Highway S/B Side Section														
WHS2080	North Abutment Wall (AW1) -pile cap & abutment wall	51.67%	29	60	31-Jan-15 A	01-Apr-15	524							
WHS2090	North Abutment Wall (AW1) - Backfilling (~6m)	0%	60	60	02-Apr-15	16-Jun-15	524							
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)	38.33%	74	120	15-Nov-14 A	29-May-15	-88							
VO - Wall 76A Construction														
Retaining Wall W76A														
TWSR-East FL Highway S/B Side Section														
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	27-Feb-15	12-May-15	218							
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	13-May-15	17-Jun-15	473							
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	27-Feb-15	23-Apr-15	233							
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-50)	0%	90	90	13-May-15	28-Aug-15	218							
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	13-May-15	24-Jul-15	293							
Retaining Wall W78														
TWSR-East FL Highway S/B Side Section														
RWZ4.0900	Site Clearance	0%	30	30	27-Feb-15	02-Apr-15	383							
TCSS Works														
TCSS Pre-Construction Works														
TCSS0100	Acquire Design Criteria from Drawing & procurement	0%	180	180	27-Feb-15	05-Oct-15	284							

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Mar	Apr	May	Jun
Contract Condition												
General												
Contract Condition												
Contract Condition												
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Mar-15*		-250		◆ Site Area SA323A (360d) (not required)			
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Mar-15*		-78		◆ 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	51.11%	22	45	13-Feb-15 A	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												
TSZ10130	Watermain installation (along NB42)	0%	30	30	20-Mar-15	27-Apr-15	1					
TSZ10140	Firemain installation (along NB42)	0%	30	30	28-Apr-15	03-Jun-15	1					
Underground Utility Works												
UUZ10100	Utility cable laying by Utility companies (Along NB42)	0%	48	48	04-Jun-15	31-Jul-15	1					
NB42A (Ch.5750-5810)-TWSR West Side												
Noise Barrier Works												
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	14-Apr-15	19-May-15	-83					
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	20-May-15	03-Jul-15	1227					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10150	Sheet Piling & Excavation(~5m below ground) (along NB42A)	0%	18	18	20-Mar-15	13-Apr-15	-83					
TSZ10180	Watermain installation (along NB42A)	0%	20	20	20-May-15	12-Jun-15	-83					
TSZ10190	Firemain installation (along NB42A)	0%	20	20	13-Jun-15	08-Jul-15	-83					
Underground Utility Works												
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	24	24	20-May-15	17-Jun-15	-67					
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-Mar-15	08-Oct-15	913					
NB47 (Ch.5880-5930)-TWSR West Side												
Noise Barrier Works												
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure	0%	30	30	11-Mar-15 A	27-Apr-15	-290					
NB00280	NB47 (Ch5880-5930)- NB production	0%	45	45	28-Apr-15	11-Jun-15	1249					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	28-Apr-15	19-May-15	-290					
TSZ10270	Backfill up to NB47 footing level	0%	16	16	20-May-15	08-Jun-15	-290					
TSZ10280	Watermain installation (along NB47)	0%	26	26	09-Jun-15	10-Jul-15	-290					
Underground Utility Works												
UUZ20100	Utility cable laying by Utility companies (Along NB47)	0%	24	24	28-Apr-15	27-May-15	-228					
NB47A (Ch.5950-5975)-TWSR West Side												
Noise Barrier Works												
NB00300	NB47A - ID1-1 piling (0.19m -24no)(Delete)	0%	0	0	20-Mar-15	20-Mar-15	1724					
NB00320	NB47A - ID1-1 Footing & Wall Structure	0%	45	45	16-Mar-15 A	15-May-15	-218					
NB00330	NB47A - backfilling	0%	25	25	03-Jun-15	03-Jul-15	-218					
NB00335	Backfilling (Along NB47A-above ID1)	0%	25	25	25-Apr-15	26-May-15	131					
NB00340	NB47A - NB production	0%	45	45	16-May-15	29-Jun-15	1231					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10380	Watermain installation (along NB47A)	0%	14	14	16-May-15	02-Jun-15	-218					
TSZ10390	Firemain installation (along NB47A)	0%	14	14	16-May-15	02-Jun-15	-218					
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	0%	28	28	20-Mar-15	24-Apr-15	131					
DSD Southern Trunk Sewer - Trenchless Construction												
TSZ11070	Construct Pipe jacking pits	0%	60	60	20-Mar-15	03-Jun-15	-86					
TSZ11080	DSD Trunk Sewer laying (along NB47A - ID1-1)-Trenchless	0%	120	120	04-Jun-15	27-Oct-15	-86					
Underground Utility Works												
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	0%	12	12	16-May-15	30-May-15	-216					
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above	0%	12	12	20-Mar-15	02-Apr-15	147					
NB48 (Ch.5995-6120)-TWSR West Side												
Noise Barrier Works												
NB00420	NB48 (NB48/5-10) piling (0.19m -64no)	75%	24	96	25-Feb-15 A	20-Apr-15	-189					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10400	Sheet Piling & Excavation(~5m below ground) (along NB48, 0-60m)	0%	21	21	21-Apr-15	15-May-15	-189					
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	16-May-15	06-Jun-15	-189					
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	32	32	08-Jun-15	16-Jul-15	-189					
NB49 (Ch.6145-6215)-TWSR West Side												
Noise Barrier Works												
NB00510	NB49 - Footing & Wall Structure	0%	52	52	11-May-15	13-Jul-15	5					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10500	Sheet Piling & Excavation(~7m below ground) (along NB49)	0%	14	14	20-Mar-15	08-Apr-15	5					

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Mar	Apr	May	Jun
TSZ10510	DSD Trunk Sewer laying (along NB49)	0%	12	12	09-Apr-15	22-Apr-15	5					
TSZ10520	Backfill up to NB49 footing level	0%	14	14	23-Apr-15	09-May-15	5					
TSZ10530	Watermain installation (along NB49)	0%	20	20	11-May-15	03-Jun-15	17					
TSZ10540	Firemain installation (along NB49)	0%	20	20	04-Jun-15	27-Jun-15	17					
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-Mar-15	20-Mar-15	-72					
NB00610	NB54 - ID2-1 piling (0.19m -18no)-) (Deleted notified on 14-5, VO issued	0%	0	0	20-Mar-15	20-Mar-15	-72					
NB00620	NB54 - ID2-1 Sheet piling & excavation (~3m)	0%	18	18	20-Mar-15	13-Apr-15	-28					
NB00630	NB54 - ID2-1 Footing & Wall Structure	0%	60	60	14-Apr-15	25-Jun-15	-28					
NB00670	NB54 piling (0.19m -24no)-1 rigs	0%	72	72	16-Mar-15 A	17-Jun-15	-144					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10600	Sheet Piling & Excavation(~5m below ground) (along NB54)	0%	14	14	18-Jun-15	06-Jul-15	-144					
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00740	NB54A piling (0.19m -72no)	82.41%	19	108	05-May-14 A	14-Apr-15	-33					
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-Apr-15	-174					
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	17-Apr-15	08-May-15	-174					
TSZ10720	Backfill up to NB57 footing level	0%	20	20	09-May-15	02-Jun-15	-174					
TSZ10730	Watermain installation (along NB57)	0%	30	30	03-Jun-15	09-Jul-15	-132					
NB59 (Ch.6490-6590)-TWSR West Side												
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10800	Sheet Piling & Excavation(~5m below ground) (along NB59)	0%	28	28	18-Mar-15 A	24-Apr-15	-133					
TSZ10810	DSD Trunk Sewer laying (along NB59)	0%	30	30	25-Apr-15	01-Jun-15	-133					
TSZ10820	Backfill up to NB59 footing level	0%	36	36	02-Jun-15	15-Jul-15	-133					
NB63 (Ch.6610-6700)-TWSR West Side												
Noise Barrier Works												
NB01030	NB63 - backfilling	0%	50	50	16-Apr-15	15-Jun-15	-142					
NB01040	NB63 - NB production	0%	45	45	20-Mar-15	03-May-15	1288					
NB01050	NB63 - NB post & panel installation	0%	5	5	16-Jun-15	22-Jun-15	1003					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10300	Sheet Piling & Excavation(~7m below ground) (along NB63)	0%	12	12	20-Mar-15	02-Apr-15	-98					
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	07-Apr-15	27-Apr-15	1634					
TSZ10330	Watermain installation (along NB63)	0%	30	30	28-Apr-15	03-Jun-15	1634					
TSZ10340	Firemain installation (along NB63)	0%	30	30	04-Jun-15	10-Jul-15	1634					
DSD Southern Trunk Sewer - Trenchless Construction												
TSZ10950	Construct Pipe jacking pits	0%	60	60	07-Apr-15	17-Jun-15	-98					
TSZ10960	DSD Trunk Sewer laying (along NB63 - ID3-1)-Trenchless	0%	120	120	18-Jun-15	10-Nov-15	-98					
Underground Utility Works												
UUZ20230	Utility cable laying by Utility companies (Alona NB63~100m)	58.33%	20	48	27-Dec-14 A	15-Apr-15	-142					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	20-Mar-15	03-Jun-15	452					
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	16-May-15	22-Jun-15	452					
TWSR-West/ FL Highway N/B Side Section												
THBF0130	THP5 - Pile Test	0%	28	28	20-Mar-15	16-Apr-15	846					
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	07-Apr-15	30-May-15	675					
THBF0170	THP8, THP9 - Pile Test	0%	28	28	20-Mar-15	16-Apr-15	972					
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	07-Apr-15	12-May-15	780					
THBF0210	THAB3 - Pile Test	0%	28	28	20-Mar-15	16-Apr-15	941					
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	07-Apr-15	12-May-15	753					
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	13-May-15	13-Jun-15	753					
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		13-Jun-15	753					13-Jun-15 ♦ Steel
THBF0260	THP6, THP7 - Pile Test	0%	28	28	20-Mar-15	16-Apr-15	864					
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	07-Apr-15	12-May-15	690					
THBF0300	THAB2 - Pile Test	0%	28	28	20-Mar-15	16-Apr-15	-170					
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	07-Apr-15	12-May-15	-136					
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	13-May-15	05-Jun-15	670					
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		05-Jun-15	670					05-Jun-15 ♦ Steel Ramp
TWSR-East FL Highway S/B Side Section												
THBF0440	THAB1 - Predrilling	0%	12	12	20-Mar-15	02-Apr-15	577					
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	07-Apr-15	20-Apr-15	577					
THBF0460	THAB1 - Pile Test	0%	28	28	21-Apr-15	18-May-15	753					
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	05-May-15	09-Jun-15	602					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	10-Jun-15	04-Jul-15	602					
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	21-Apr-15	19-May-15	577					
THBF0510	THP2 - Pile Test	0%	28	28	20-May-15	16-Jun-15	785					
THBF0700	THP3 - Predrilling	0%	6	6	23-Mar-15 A	26-Mar-15	619					
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	20-May-15	08-Jun-15	577					
THBF0720	THP3 - Pile Test	0%	28	28	09-Jun-15	06-Jul-15	800					
THBF0740	THP4 - Predrilling	0%	6	6	27-Mar-15	02-Apr-15	629					

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Mar	Apr	May	Jun
THBF0750	THP4 - Pre-bored H pile (4 nos)	0%	16	16	09-Jun-15	27-Jun-15	577					
New Tai Wo Footbridge												
General												
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	20-Mar-15	10-Jul-15	673					
TWSR-West/ FL Highway N/B Side Section												
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	0%	42	42	28-May-15	17-Jul-15	-193					
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	0%	54	54	20-Mar-15	27-May-15	-210					
TWFB1330	TWAB1 - Pile Test	0%	28	28	28-May-15	24-Jun-15	-266					
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	11-Jun-15	17-Jul-15	-211					
Temporary Tai Wo Footbridge												
Design Works												
TWFB-T1010	Design preparation	87.78%	11	90	01-Nov-14 A	01-Apr-15	183					
TWFB-T1020	Engineer Comment	0%	26	26	02-Apr-15	06-May-15	183					
TWFB-T1030	Design amendment	0%	26	26	07-May-15	06-Jun-15	183					
TWFB-T1040	Design Available	0%	0	0		06-Jun-15	183					06-Jun-15 ♦ Design Available
Construction Works												
TWFB-T1045	Sub-contractor procurement	0%	52	52	08-Jun-15	08-Aug-15	183					
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-Apr-15	491					
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	5.56%	85	90	13-Feb-15 A	04-Jul-15	265					
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-Mar-15	03-Jun-15	429					
NB02430	Precautionary Measure installation	0%	26	26	04-Jun-15	06-Jul-15	429					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	61.67%	23	60	07-Nov-14 A	18-Apr-15	479					
NB02650	NB55- backfilling	0%	50	50	20-Apr-15	18-Jun-15	479					
NB02660	NB55 - NB production	0%	45	45	18-Apr-15	02-Jun-15	1258					
NB02670	NB55 - NB post & panel installation	0%	5	5	02-Jun-15	08-Jun-15	1014					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02710	NB56 - Footing & Wall Structure	43.33%	34	60	20-Dec-14 A	02-May-15	1003					
NB02720	NB56- backfilling	0%	50	50	04-May-15	03-Jul-15	1640					
NB02730	NB56 - NB production	0%	45	45	02-May-15	16-Jun-15	1244					
NB02740	NB56 - NB post & panel installation	0%	5	5	16-Jun-15	23-Jun-15	1002					
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	30-Apr-15	21-May-15	937					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	22-May-15	22-Jul-15	937					
NB02840	NB61 (50-160m) - backfilling	36%	32	50	27-Feb-15 A	29-Apr-15	937					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Mar-15	03-May-15	1288					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-May-15	08-May-15	1039					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02910	NB61A (0-50m)- backfilling	60%	20	50	20-Jan-15 A	15-Apr-15	1704					
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Mar-15	03-May-15	1288					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-May-15	08-May-15	1039					
NB02960	NB61A ID2-3 (50-75m)- Sheet piling & Excavation	0%	10	10	21-Jan-15 A	31-Mar-15	943					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	0%	70	70	01-Apr-15	27-Jun-15	943					
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Mar-15	03-May-15	1288					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-May-15	08-May-15	1039					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1030	Design Preparation	46.15%	14	26	06-Aug-14 A	08-Apr-15	910					
MCLT1040	Engineer approval	0%	12	12	09-Apr-15	22-Apr-15	910					
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	12	12	23-Apr-15	07-May-15	910					
MCLT1060	Design available for construction	0%	0	0		07-May-15	910					07-May-15 ♦ Design available for construction
MCLT1080	Construct New MCLT (Structure)	0%	60	60	08-May-15	20-Jul-15	910					
TCSS Works												
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		29-Apr-15	1016					29-Apr-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-Mar-15	03-May-15	648					
NB01120	NB63A-2 - Footing & Wall Structure (ch10.7-24.2)	0%	30	30	20-Mar-15	27-Apr-15	-20					
NB01140	NB63A-2 - NB production	0%	45	45	28-Apr-15	11-Jun-15	609					
NB01170	NB63A-3 - Footing & Wall Structure (ch24.2-86.9)	0%	50	50	28-Apr-15	27-Jun-15	-20					
NB64 & NB64A (Ch.6860-6920)-TWSR West Side												
Noise Barrier Works												

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015					
									Mar	Apr	May	Jun	
NB001030	NB64 & NB64A -Footing & Wall Structure	0%	30	30	17-Jun-15	23-Jul-15	-175						
DSD Southern Trunk Sewer, Water Main Fire Main Works													
TSZ10900	Sheet Piling & Excavation(~5m below ground) (along NB64)	0%	21	21	20-Mar-15	16-Apr-15	-175						
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	17-Apr-15	08-May-15	-175						
TSZ10920	Backfill up to NB64 footing level	0%	32	32	09-May-15	16-Jun-15	-175						
TSZ10930	Watermain installation (along NB64)	0%	30	30	17-Jun-15	23-Jul-15	-175						
Bridge Construction													
Kau Lung Hang Vehicular Bridge													
KLH Bridge - West Ramp													
Z2.KLH.1002	West Abutment- Pile cap & Structural Wall	48.89%	46	90	20-Dec-14 A	16-May-15	-108						
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)	0%	140	140	18-May-15	03-Nov-15	-108						
KLH Bridge - Deck 1													
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	27.78%	65	90	11-Feb-15 A	09-Jun-15	13						
Z2.KLH.1022	Pier VBP2- Pile caps, pier and pier head construction	0%	90	90	27-Feb-15 A	10-Jul-15	88						
KLH Bridge - Ramp R1													
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	20-Mar-15	09-May-15	147						
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	11-May-15	27-Jun-15	147						
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	0%	45	45	20-Mar-15	15-May-15	192						
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	16-May-15	22-Jun-15	192						
KLH Bridge - Deck 3													
Z2.KLH.1360	VBP6 - Pile cap, pier construction	0%	90	90	27-Feb-15 A	10-Jul-15	-108						
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	70.67%	22	75	20-Oct-14 A	17-Apr-15	-130						
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	18-Apr-15	18-Jul-15	-130						
KLH Bridge - Deck 2													
Z2.KLH.1144	Deck 2 Precast concrete beam production (30 beams)	0%	150	150	16-Mar-15 A	16-Aug-15	90						
Z2.KLH.1220	VBP5- Pile cap, pier, pier head construction	22.5%	62	80	20-Nov-14 A	05-Jun-15	-68						
Z2.KLH.1222	VBP5 - Backfilling & Road Work for TTA for VBP4	0%	14	14	06-Jun-15	23-Jun-15	-12						
Z2.KLH.1255	Relocate MTRC OHL for deck construction	0%	30	30	05-Jun-15	11-Jul-15	-97						
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	13-May-15	-13						
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	11-May-15	02-Oct-15	-13						
Z2.KLH.1590	Land Possession for House 190B	0%	0	0		20-Mar-15	-134		20-Mar-15* ♦ Land Possession for House 190B				
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)													
Site Formation													
Retaining Wall W76													
Structure Works													
Z4SF1090	Watermains installation	0%	31	21	10-Mar-15 A	28-Apr-15	-184						
Z4SF1110	Backfilling up to road finishes level	0%	30	30	29-Apr-15	04-Jun-15	-184						
Bridge Construction													
New Ho Ka Yuen Footbridge													
General													
HKY1050	Structure steel procurement (HKYB)	56.67%	65	150	10-Dec-14 A	23-May-15	-226						
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W)	0%	30	30	26-May-15	30-Jun-15	-125						
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	0%	40	40	26-May-15	13-Jul-15	-180						
HKY1100	Steel Bridge prefabrication (HKYB)	0%	50	50	26-May-15	24-Jul-15	-79						
TWSR-West/ FL Highway N/B Side Section													
HKY1150	HKYP6 - Pre-bored H pile (8 nos)	0%	24	24	20-Mar-15	20-Apr-15	-189						
HKY1160	HKYP6 - Pile Test	0%	28	28	21-Apr-15	18-May-15	-136						
HKY1170	HKYP6 - Pile cap, Pier and Pier Head	0%	45	45	05-May-15	27-Jun-15	-102						
HKY1172	HKYP1 - Predrilling	0%	12	12	20-Mar-15	02-Apr-15	-82						
HKY1174	HKYP1 - Pre-bored H pile (4 nos)	0%	12	12	21-Apr-15	05-May-15	-82						
HKY1176	HKYP1 - Pile Test	0%	28	28	06-May-15	02-Jun-15	-95						
HKY1230	HKYAB3 - Pre-bored H pile (4 nos)	0%	12	12	21-Apr-15	05-May-15	-189						
HKY1240	HKYAB3 - Pile Test	0%	28	28	06-May-15	02-Jun-15	-116						
HKY1250	HKYAB3 - pile cap & abutment wall	0%	30	30	20-May-15	25-Jun-15	-88						
HKY1275	Existing HKY bridge structure removed (TWSR-W)	0%	0	0		20-Mar-15	-43		20-Mar-15 ♦ Existing HKY bridge structure removed (TWSR-W)				
HKY1330	HKYAB4 - Pre-bored H pile (16 nos)	0%	48	48	06-May-15	03-Jul-15	-189						
TWSR-East FL Highway S/B Side Section													
HKY1580	HKYP3 - Pile cap, Pier and Pier Head	26.67%	33	45	24-Nov-14 A	30-Apr-15	-121						
HKY1760	HKYP4 - Pile cap, Pier and Pier Head	20%	36	45	15-Oct-14 A	05-May-15	-94						
HKY1800	HKYP5 - Pile cap, Pier and Pier Head	26.67%	33	45	18-Sep-14 A	30-Apr-15	-91						
TWSR-East Construction													
NB74 (Ch.7930-7980)-FH S/B Side													
Noise Barrier Works													
NB4005	NB74 - Footing & Wall Structure	0%	70	70	20-Mar-15	15-Jun-15	138						
NB4010	NB74 - backfilling	0%	30	30	16-Jun-15	22-Jul-15	138						
NB4020	NB74 - NB production	0%	45	45	16-Jun-15	30-Jul-15	1200						
Drainage & Road Works													
TWSR-East FL Highway S/B Side Section													
TWSRE1000	Road work for New TWSR-East	0%	150	150	05-Jun-15	02-Dec-15	13						
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-Apr-15	05-May-15	-82						

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Apr	May	Jun	Jul
Contract Condition												
General												
Contract Condition												
Contract Condition												
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Apr-15*		-281		◆ Site Area SA323A (360d) (not required)			
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Apr-15*		-109		◆ Site Area SA327 (180d)			
POSSA327A	Site Area SA327A (730d)	0%	0	0	18-Jul-15*		0					◆
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	71.11%	13	45	13-Feb-15 A	05-May-15	25					
NB00120	NB42 (Ch5640-5740) - NB production	0%	45	45	06-May-15	19-Jun-15	1241					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10130	Watermain installation (along NB42)	0%	30	30	20-Apr-15	26-May-15	-22					
TSZ10140	Firemain installation (along NB42)	0%	30	30	27-May-15	02-Jul-15	-22					
Underground Utility Works												
UUZ10100	Utility cable laying by Utility companies (Along NB42)	0%	48	48	03-Jul-15	27-Aug-15	-22					
NB42A (Ch.5750-5810)-TWSR West Side												
Noise Barrier Works												
NB00190	NB42A (Ch5750-5810) - Footing & Wall Structure	0%	30	30	12-May-15	16-Jun-15	-106					
NB00200	NB42A (Ch5750-5810) - NB production	0%	45	45	17-Jun-15	31-Jul-15	1199					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10150	Sheet Piling & Excavation(~5m below ground) (along NB42A)	0%	18	18	13-Apr-15 A	11-May-15	-106					
TSZ10180	Watermain installation (along NB42A)	0%	20	20	17-Jun-15	11-Jul-15	-106					
TSZ10190	Firemain installation (along NB42A)	0%	20	20	13-Jul-15	04-Aug-15	-106					
Underground Utility Works												
UUZ10110	Utility cable laying by Utility companies (Along NB42A)	0%	24	24	17-Jun-15	16-Jul-15	-90					
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-Apr-15	05-Nov-15	890					
NB47 (Ch.5880-5930)-TWSR West Side												
Noise Barrier Works												
NB00270	NB47 (Ch5880-5930)- Footing & Wall Structure	36.67%	19	30	11-Mar-15 A	12-May-15	-302					
NB00280	NB47 (Ch5880-5930)- NB production	0%	45	45	13-May-15	26-Jun-15	1234					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10260	DSD Trunk Sewer laying (along NB47)	0%	18	18	13-May-15	03-Jun-15	-302					
TSZ10270	Backfill up to NB47 footing level	0%	16	16	04-Jun-15	23-Jun-15	-302					
TSZ10280	Watermain installation (along NB47)	0%	26	26	24-Jun-15	24-Jul-15	-302					
Underground Utility Works												
UUZ20100	Utility cable laying by Utility companies (Along NB47)	0%	24	24	20-Apr-15 A	18-May-15	-221					
NB47A (Ch.5950-5975)-TWSR West Side												
Noise Barrier Works												
NB00300	NB47A - ID1-1 piling (0.19m -24no)(Delete)	0%	0	0	20-Apr-15	20-Apr-15	1701					
NB00320	NB47A - ID1-1 Footing & Wall Structure	51.11%	22	45	16-Mar-15 A	15-May-15	-218					
NB00330	NB47A - backfilling	0%	25	25	03-Jun-15	03-Jul-15	-218					
NB00335	Backfilling (Along NB47A-above ID1)	0%	25	25	23-May-15	23-Jun-15	108					
NB00340	NB47A - NB production	0%	45	45	16-May-15	29-Jun-15	1231					
NB00350	NB47A - NB post & panel installation	0%	5	5	04-Jul-15	09-Jul-15	989					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10380	Watermain installation (along NB47A)	0%	14	14	16-May-15	02-Jun-15	-218					
TSZ10390	Firemain installation (along NB47A)	0%	14	14	16-May-15	02-Jun-15	-218					
TSZ10560	Watermain & Firemain installation (Along NB47A-above ID1)	0%	28	28	20-Apr-15	22-May-15	108					
DSD Southern Trunk Sewer - Trenchless Construction												
TSZ11070	Construct Pipe jacking pits	0%	60	60	20-Apr-15	02-Jul-15	-109					
TSZ11080	DSD Trunk Sewer laying (along NB47A - ID1-1)-Trenchless	0%	120	120	03-Jul-15	23-Nov-15	-109					
Underground Utility Works												
UUZ20110	Utility cable laying by Utility companies (Along NB47A)	0%	12	12	16-May-15	30-May-15	-216					
UUZ20240	Utility cable laying by Utility companies (Along NB47A-above	0%	12	12	20-Apr-15	04-May-15	124					
NB48 (Ch.5995-6120)-TWSR West Side												
Noise Barrier Works												
NB00420	NB48 (NB48/5-10) piling (0.19m -64no)	87.5%	12	96	25-Feb-15 A	04-May-15	-200					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10400	Sheet Piling & Excavation(~5m below ground) (along NB48, 0-60m)	0%	21	21	05-May-15	29-May-15	-200					
TSZ10410	DSD Trunk Sewer laying (along NB48, 0-60m)	0%	18	18	30-May-15	19-Jun-15	-200					
TSZ10420	Backfill up to NB48, 0-60m footing level	0%	32	32	22-Jun-15	29-Jul-15	-200					
NB49 (Ch.6145-6215)-TWSR West Side												
Noise Barrier Works												
NB00510	NB49 - Footing & Wall Structure	0%	52	52	08-Jun-15	08-Aug-15	-18					

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015						
									Apr	May	Jun	Jul		
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10500	Sheet Piling & Excavation(~7m below ground) (along NB49)	0%	14	14	20-Apr-15	06-May-15	-18							
TSZ10510	DSD Trunk Sewer laying (along NB49)	0%	12	12	07-May-15	20-May-15	-18							
TSZ10520	Backfill up to NB49 footing level	0%	14	14	21-May-15	06-Jun-15	-18							
TSZ10530	Watermain installation (along NB49)	0%	20	20	08-Jun-15	02-Jul-15	-6							
TSZ10540	Firemain installation (along NB49)	0%	20	20	03-Jul-15	25-Jul-15	-6							
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-Apr-15	20-Apr-15	-95							
NB00610	NB54 - ID2-1 piling (0.19m -18no)-) (Deleted notified on 14-5, VO issued	0%	0	0	20-Apr-15	20-Apr-15	-95							
NB00620	NB54 - ID2-1 Sheet piling & excavation (~3m)	0%	18	18	20-Apr-15	11-May-15	-51							
NB00630	NB54 - ID2-1 Footing & Wall Structure	0%	60	60	12-May-15	23-Jul-15	-51							
NB00670	NB54 piling (0.19m -24no)-1 rigs	0%	72	72	16-Mar-15 A	16-Jul-15	-167							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10600	Sheet Piling & Excavation(~5m below ground) (along NB54)	0%	14	14	17-Jul-15	01-Aug-15	-167							
NB54A (Ch.6290-6350)-TWSR West Side														
Noise Barrier Works														
NB00740	NB54A piling (0.19m -72no)	82.41%	19	108	05-May-14 A	12-May-15	-56							
NB57 (Ch.6365-6445)-TWSR West Side														
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10710	DSD Trunk Sewer laying (along NB57)	0%	18	18	24-Jan-15 A	11-May-15	-176							
TSZ10720	Backfill up to NB57 footing level	0%	20	20	12-May-15	04-Jun-15	-176							
TSZ10730	Watermain installation (along NB57)	0%	30	30	05-Jun-15	11-Jul-15	-134							
TSZ10740	Firemain installation (along NB57)	0%	30	30	13-Jul-15	15-Aug-15	-134							
NB59 (Ch.6490-6590)-TWSR West Side														
Noise Barrier Works														
NB00970	NB59 - Footing & Wall Structure	0%	100	100	10-Jul-15	06-Nov-15	-128							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10810	DSD Trunk Sewer laying (along NB59)	0%	30	30	11-Apr-15 A	26-May-15	-128							
TSZ10820	Backfill up to NB59 footing level	0%	36	36	27-May-15	09-Jul-15	-128							
TSZ10830	Watermain installation (along NB59)	0%	30	30	10-Jul-15	13-Aug-15	-40							
NB63 (Ch.6610-6700)-TWSR West Side														
Noise Barrier Works														
NB01030	NB63 - backfilling	0%	50	50	14-May-15	14-Jul-15	-165							
NB01040	NB63 - NB production	0%	45	45	20-Apr-15	03-Jun-15	1257							
NB01050	NB63 - NB post & panel installation	0%	5	5	15-Jul-15	20-Jul-15	980							
DSD Southern Trunk Sewer, Water Main Fire Main Works														
TSZ10300	Sheet Piling & Excavation(~7m below ground) (along NB63)	0%	12	12	20-Apr-15	04-May-15	-121							
TSZ10310	DSD Trunk Sewer laying (along NB63)	0%	18	18	05-May-15	26-May-15	1611							
TSZ10330	Watermain installation (along NB63)	0%	30	30	27-May-15	02-Jul-15	1611							
TSZ10340	Firemain installation (along NB63)	0%	30	30	03-Jul-15	06-Aug-15	1611							
DSD Southern Trunk Sewer - Trenchless Construction														
TSZ10950	Construct Pipe jacking pits	0%	60	60	05-May-15	16-Jul-15	-121							
TSZ10960	DSD Trunk Sewer laying (along NB63 - ID3-1)-Trenchless	0%	120	120	17-Jul-15	07-Dec-15	-121							
Underground Utility Works														
UUZ20230	Utility cable laying by Utility companies (Along NB63~100m)	58.33%	20	48	27-Dec-14 A	13-May-15	-165							
Bridge Construction														
New Tai Hang Footbridge														
General														
THBF0330	Structure steel Shop drawing submission (THFB)	0%	60	60	20-Apr-15	02-Jul-15	429							
THBF0335	Structure steel Shop drawing approval (THFB)	0%	30	30	13-Jun-15	20-Jul-15	429							
TWSR-West/ FL Highway N/B Side Section														
THBF0130	THP5 - Pile Test	0%	28	28	20-Apr-15	17-May-15	815							
THBF0140	THP5 - Pile cap, Pier and Pier Head	0%	45	45	04-May-15	26-Jun-15	653							
THBF0170	THP8, THP9 - Pile Test	0%	28	28	20-Apr-15	17-May-15	941							
THBF0180	THP8, THP9 - Pile cap, Pier and Pier Head	0%	30	30	04-May-15	08-Jun-15	758							
THBF0210	THAB3 - Pile Test	0%	28	28	20-Apr-15	17-May-15	910							
THBF0220	THAB3 - pile cap & abutment wall	0%	30	30	04-May-15	08-Jun-15	731							
THBF0230	THAB3 - Backfilling (~4m)	0%	27	27	09-Jun-15	11-Jul-15	731							
THBF0235	Steel Staircase ready for erection (THFB-TWSR-W side)	0%	0	0		11-Jul-15	731							11-Jul-15 ♦ Steel Staircase
THBF0260	THP6, THP7 - Pile Test	0%	28	28	20-Apr-15	17-May-15	833							
THBF0270	THP6, THP7 - Pile cap, Pier and Pier Head	0%	30	30	04-May-15	08-Jun-15	668							
THBF0300	THAB2 - Pile Test	0%	28	28	20-Apr-15	17-May-15	-201							
THBF0310	THAB2 - pile cap & abutment wall	0%	30	30	04-May-15	08-Jun-15	-158							
THBF0320	THAB2 - Backfilling (~3m)	0%	20	20	09-Jun-15	03-Jul-15	648							
THBF0325	Steel Ramp ready for erection (THFB-TWSR-W side)	0%	0	0		03-Jul-15	648							03-Jul-15 ♦ Steel Ramp ready
TWSR-East FL Highway S/B Side Section														
THBF0440	THAB1 - Predrilling	75%	3	12	16-Apr-15 A	22-Apr-15	563							
THBF0450	THAB1 - Pre-bored H pile (4 nos)	0%	12	12	23-Apr-15	07-May-15	563							
THBF0460	THAB1 - Pile Test	0%	28	28	08-May-15	04-Jun-15	736							
THBF0470	THAB1 - pile cap & abutment wall	0%	30	30	22-May-15	27-Jun-15	587							
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	29-Jun-15	22-Jul-15	587							
THBF0500	THP2 - Pre-bored H pile (8 nos)	0%	24	24	08-May-15	05-Jun-15	563							
THBF0510	THP2 - Pile Test	0%	28	28	06-Jun-15	03-Jul-15	768							

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Apr	May	Jun	Jul
THBF0710	THP3 - Pre-bored H pile (4 nos)	0%	16	16	06-Jun-15	25-Jun-15	563					
THBF0720	THP3 - Pile Test	0%	28	28	26-Jun-15	23-Jul-15	783					
THBF0730	THP3 - Pile cap, Pier and Pier Head	0%	45	45	10-Jul-15	31-Aug-15	628					
THBF0750	THP4 - Pre-bored H pile (4 nos)	0%	16	16	26-Jun-15	15-Jul-15	563					
THBF0760	THP4 - Pile Test	0%	28	28	16-Jul-15	12-Aug-15	728					
New Tai Wo Footbridge												
General												
TWFB1020	Structure steel Shop drawing submission (TWFB)	0%	90	90	20-Apr-15	06-Aug-15	650					
TWSR-West/ FL Highway N/B Side Section												
TWFB1280	TWP4, TWP5 - Pre-bored H pile (14 nos)	0%	42	42	25-Jun-15	13-Aug-15	-216					
TWFB1320	TWAB1 - Pre-bored H pile (18 nos)	0%	54	54	20-Apr-15	24-Jun-15	-233					
TWFB1330	TWAB1 - Pile Test	0%	28	28	25-Jun-15	22-Jul-15	-294					
TWFB1340	TWAB1 - pile cap & abutment wall	0%	30	30	09-Jul-15	12-Aug-15	-233					
Temporary Tai Wo Footbridge												
Design Works												
TWFB-T1010	Design preparation	87.78%	11	90	01-Nov-14 A	02-May-15	160					
TWFB-T1020	Engineer Comment	0%	26	26	04-May-15	03-Jun-15	160					
TWFB-T1030	Design amendment	0%	26	26	04-Jun-15	06-Jul-15	160					
TWFB-T1040	Design Available	0%	0	0		06-Jul-15	160					06-Jul-15 ♦ Design Av
Construction Works												
TWFB-T1045	Sub-contractor procurement	0%	52	52	07-Jul-15	04-Sep-15	160					
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	26-May-15	468					
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	5.56%	85	90	13-Feb-15 A	31-Jul-15	242					
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-Apr-15	02-Jul-15	406					
NB02430	Precautionary Measure installation	0%	26	26	03-Jul-15	01-Aug-15	406					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	61.67%	23	60	07-Nov-14 A	16-May-15	456					
NB02650	NB55- backfilling	0%	50	50	18-May-15	17-Jul-15	456					
NB02660	NB55 - NB production	0%	45	45	16-May-15	30-Jun-15	1230					
NB02670	NB55 - NB post & panel installation	0%	5	5	30-Jun-15	07-Jul-15	991					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02720	NB56- backfilling	0%	50	50	20-Apr-15	18-Jun-15	1651					
NB02730	NB56 - NB production	0%	45	45	20-Apr-15	03-Jun-15	1257					
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Jun-15	09-Jun-15	1013					
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-Apr-15	11-May-15	946					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	12-May-15	11-Jul-15	946					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	13-Jul-15	08-Sep-15	1583					
NB02800	NB61 (0-50m) - NB production	0%	45	45	11-Jul-15	25-Aug-15	1174					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Apr-15	03-Jun-15	1257					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Jun-15	09-Jun-15	1013					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02910	NB61A (0-50m)- backfilling	60%	20	50	20-Jan-15 A	13-May-15	1681					
NB02920	NB61A (0-50m) - NB production	0%	45	45	20-Apr-15	03-Jun-15	1257					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Jun-15	09-Jun-15	1013					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	18.57%	57	70	01-Apr-15 A	27-Jun-15	943					
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	50	50	29-Jun-15	26-Aug-15	943					
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	27-Jun-15	11-Aug-15	1188					
NB03040	NB61A (75-190m) - NB production	0%	45	45	20-Apr-15	03-Jun-15	1257					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	04-Jun-15	09-Jun-15	1013					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1030	Design Preparation	46.15%	14	26	06-Aug-14 A	06-May-15	887					
MCLT1040	Engineer approval	0%	12	12	07-May-15	20-May-15	887					
MCLT1050	Apply cert for exemption by DLO by Engineer	0%	12	12	21-May-15	04-Jun-15	887					
MCLT1060	Design available for construction	0%	0	0		04-Jun-15	887					04-Jun-15 ♦ Design available for construction
MCLT1080	Construct New MCLT (Structure)	0%	60	60	05-Jun-15	15-Aug-15	887					
TCSS Works												
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		20-Apr-15	1025					20-Apr-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												

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Apr	May	Jun	Jul
NB01090	NB63A-1 - NB production	0%	45	45	20-Apr-15	03-Jun-15	617					
NB01120	NB63A-2 - Footing & Wall Structure (ch10.7-24.2)	0%	30	30	20-Apr-15	26-May-15	-43					
NB01140	NB63A-2 - NB production	0%	45	45	27-May-15	10-Jul-15	580					
NB01170	NB63A-3 - Footing & Wall Structure (ch24.2-86.9)	0%	50	50	27-May-15	25-Jul-15	-43					
NB64 & NB64A (Ch.6860-6920)-TWSR West Side												
Noise Barrier Works												
NB001030	NB64 & NB64A -Footing & Wall Structure	0%	30	30	17-Apr-15 A	26-May-15	-127					
NB001050	NB64 & NB64A-NB production	0%	45	45	27-May-15	10-Jul-15	580					
DSD Southern Trunk Sewer, Water Main Fire Main Works												
TSZ10900	Sheet Piling & Excavation(~5m below ground) (along NB64)	0%	21	21	20-Apr-15	14-May-15	-198					
TSZ10910	DSD Trunk Sewer laying (along NB64)	0%	18	18	15-May-15	05-Jun-15	-198					
TSZ10920	Backfill up to NB64 footing level	0%	32	32	06-Jun-15	15-Jul-15	-198					
TSZ10930	Watermain installation (along NB64)	0%	30	30	16-Jul-15	19-Aug-15	-198					
Underground Utility Works												
UUZ20220	Utility cable laying by Utility companies (Along NB64, 60m)	0%	30	30	27-May-15	02-Jul-15	-127					
Bridge Construction												
Kau Lung Hang Vehicular Bridge												
KLH Bridge - West Ramp												
Z2.KLH.1002	West Abutment- Pile cap & Structural Wall	74.44%	23	90	20-Dec-14 A	16-May-15	-108					
Z2.KLH.1140	West Ramp - Backfilling (5m-Dx112m-L)	0%	140	140	18-May-15	03-Nov-15	-108					
KLH Bridge - Deck 1												
Z2.KLH.1014	Pier VBP1- Pile caps, pier and pier head construction	53.33%	42	90	11-Feb-15 A	09-Jun-15	13					
Z2.KLH.1022	Pier VBP2- Pile caps, pier and pier head construction	45.56%	49	90	27-Feb-15 A	17-Jun-15	106					
KLH Bridge - Ramp R1												
Z2.KLH.1450	Ramp R1 - Pile caps and pier construction (R1P1)	0%	40	40	20-Apr-15	06-Jun-15	124					
Z2.KLH.1660	Ramp R1 - Pile caps and pier construction (R1P2)	0%	40	40	08-Jun-15	25-Jul-15	124					
Z2.KLH.1710	Ramp R1 - Abutment R1 - base slab & wall	0%	45	45	20-Apr-15	12-Jun-15	169					
Z2.KLH.1720	Ramp R1 - Abutment R1 - Top slab	0%	30	30	13-Jun-15	20-Jul-15	169					
KLH Bridge - Deck 3												
Z2.KLH.1360	VBP6 - Pile cap, pier construction	56.67%	39	90	27-Feb-15 A	05-Jun-15	-80					
Z2.KLH.1810	East Abutment - Pile caps, abutment wall construction	70.67%	22	75	20-Oct-14 A	15-May-15	-153					
Z2.KLH.1890	VBP8 - Pile caps, pier and pier head construction	0%	75	75	16-May-15	14-Aug-15	-153					
KLH Bridge - Deck 2												
Z2.KLH.1144	Deck 2 Precast concrete beam production (30 beams)	0%	150	150	16-Mar-15 A	16-Sep-15	59					
Z2.KLH.1158	VBP4-Pre-drilling work	0%	15	15	24-Jun-15	11-Jul-15	-12					
Z2.KLH.1160	VBP4- Pre-bored H-pile piling works (9 Nos.)	0%	27	27	10-Jul-15	10-Aug-15	-12					
Z2.KLH.1220	VBP5- Pile cap, pier, pier head construction	51.25%	39	80	20-Nov-14 A	05-Jun-15	-68					
Z2.KLH.1222	VBP5 - Backfilling & Road Work for TTA for VBP4	0%	14	14	06-Jun-15	23-Jun-15	-12					
Z2.KLH.1255	Relocate MTRC OHL for deck construction	0%	30	30	02-May-15	06-Jun-15	-69					
Z2.KLH.1260	Beam Erection - Above MTRC rail track (2C) (Bet P5 to P6)	0%	30	30	08-Jun-15	17-Aug-15	-33					
KLH Bridge - East Ramp												
Z2.KLH.1410	East Ramp - excavation	0%	18	18	08-Apr-15 A	11-May-15	-27					
Z2.KLH.1420	East Ramp base slab & Abutment wall	0%	90	90	12-May-15	27-Aug-15	-27					
KLH Bridge - Ramp R2												
Z2.KLH.1520	Ramp R2 - Pre-bored H-pile piling works (18 Nos.)	59.26%	22	54	27-Jun-14 A	15-May-15	-15					
Z2.KLH.1530	Ramp R2 - Pile cap, abutment and pier construction	0%	120	120	13-May-15	05-Oct-15	-15					
Z2.KLH.1590	Land Possession for House 190B	0%	0	0		20-Apr-15*	-157					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Site Formation												
Retaining Wall W76												
Structure Works												
Z4SF1090	Watermains installation	61.9%	8	21	10-Mar-15 A	28-Apr-15	-184					
Z4SF1110	Backfilling up to road finishes level	0%	30	30	29-Apr-15	04-Jun-15	-184					
Bridge Construction												
New Ho Ka Yuen Footbridge												
General												
HKY1050	Structure steel procurement (HKYB)	77.33%	34	150	10-Dec-14 A	23-May-15	-226					
HKY1060	Steel Staircase & Ramp prefabrication (HKYB-TWSR-W)	0%	30	30	26-May-15	30-Jun-15	-125					
HKY1070	Steel Staircase & Ramp available on site (HKYB-TWSR-W side)	0%	0	0	02-Jul-15		-125					
HKY1080	Steel Staircase & Ramp prefabrication (HKYB-TWSR-E side)	0%	40	40	26-May-15	13-Jul-15	-180					
HKY1090	Steel Staircase & Ramp available on site (HKYB-TWSR-E side)	0%	0	0	14-Jul-15		-180					
HKY1100	Steel Bridge prefabrication (HKYB)	0%	50	50	26-May-15	24-Jul-15	-79					
TWSR-West/ FL Highway N/B Side Section												
HKY1150	HKYP6 - Pre-bored H pile (8 nos)(Deleted)	0%	0	0	20-Apr-15	20-Apr-15	-188					
HKY1160	HKYP6 - Pile Test	0%	0	0	20-Apr-15	20-Apr-15	-107					
HKY1170	HKYP6 - Pile cap, Pier and Pier Head	0%	45	45	20-Apr-15	12-Jun-15	-90					
HKY1172	HKYP1 - Predrilling	0%	12	12	20-Apr-15	04-May-15	-105					
HKY1174	HKYP1 - Pre-bored H pile (4 nos)	0%	12	12	05-May-15	18-May-15	-93					
HKY1176	HKYP1 - Pile Test	0%	28	28	19-May-15	15-Jun-15	-108					
HKY1178	HKYP1 - Pile cap, Pier and Pier Head	0%	45	45	03-Jul-15	24-Aug-15	-105					
HKY1230	HKYAB3 - Pre-bored H pile (4 nos)	0%	12	12	20-Apr-15	04-May-15	-188					
HKY1240	HKYAB3 - Pile Test	0%	28	28	05-May-15	01-Jun-15	-115					
HKY1250	HKYAB3 - pile cap & abutment wall	0%	30	30	19-May-15	24-Jun-15	-87					
HKY1260	HKYAB3 - Backfilling (~4m)	0%	27	27	25-Jun-15	27-Jul-15	-87					

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Apr	May	Jun	Jul
	HKY1275	Existing HKY bridge structure removed (TWSR-W)	0%	0	0	20-Apr-15	-66		20-Apr-15 ♦ Existing	HKY bridge structure removed (TWSR-W)		
	HKY1290	HKYP7 - Pre-bored H pile (6 nos)	0%	18	18	03-Jul-15	-186					
	HKY1330	HKYAB4 - Pre-bored H pile (16 nos)	0%	48	48	05-May-15	-188					
	HKY1340	HKYAB4 - Pile Test	0%	28	28	03-Jul-15	-239					
	HKY1350	HKYAB4 - pile cap & abutment wall	0%	30	30	17-Jul-15	-188					
TWSR-East FL Highway S/B Side Section												
	HKY1580	HKYP3 - Pile cap, Pier and Pier Head	77.78%	10	45	24-Nov-14 A	30-Apr-15	-121				
	HKY1590	Erect Stairecase (HKYFB-TWSR-E side)	0%	30	30	14-Jul-15	17-Aug-15	-180				
	HKY1760	HKYP4 - Pile cap, Pier and Pier Head	71.11%	13	45	15-Oct-14 A	05-May-15	-94				
	HKY1800	HKYP5 - Pile cap, Pier and Pier Head	77.78%	10	45	18-Sep-14 A	30-Apr-15	-91				
TWSR-East Construction												
NB74 (Ch.7930-7980)-FH S/B Side												
Noise Barrier Works												
	NB4005	NB74 - Footing & Wall Structure	0%	70	70	20-Apr-15	14-Jul-15	115				
	NB4010	NB74 - backfilling	0%	30	30	15-Jul-15	18-Aug-15	115				
	NB4020	NB74 - NB production	0%	45	45	15-Jul-15	28-Aug-15	1171				
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
	TWSRE1000	Road work for New TWSR-East	0%	150	150	05-Jun-15	02-Dec-15	13				
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	05-May-15	02-Jun-15	-105				
	NB4110	NB75 - piling (NB75/06, 0.19m -8no)-with HKY-P1	0%	24	24	03-Jun-15	02-Jul-15	-105				
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
	WHS1040	Structure steel procurement (WHSB)	78%	33	150	10-Dec-14 A	22-May-15	331				
	WHS1050	Steel Ramp prefabrication (WHSB)	0%	50	50	23-May-15	23-Jul-15	262				
	WHS1070	Steel Staircase prefabrication (WHSB)	0%	40	40	23-May-15	11-Jul-15	1633				
	WHS1080	Steel Staircase available on site (WHSB)	0%	0	0	13-Jul-15		1633				♦ Steel
TWSR-West/ FL Highway N/B Side Section												
	WHS1160	WHSP2 - Pre-bored H pile (8 nos)	50%	12	24	23-Mar-15 A	04-May-15	181				
	WHS1170	WHSP2 - Pile Test	0%	28	28	05-May-15	01-Jun-15	218				
	WHS1180	WHSP2 - Pile cap, Pier and Pier Head	0%	45	45	19-May-15	13-Jul-15	181				
	WHS1200	WHSP6 - Pre-bored H pile (6 nos)	33.33%	12	18	07-Mar-15 A	04-May-15	230				
	WHS1210	WHSP6 - Pile Test	0%	28	28	05-May-15	01-Jun-15	283				
	WHS1220	WHSP6 - Pile cap, Pier and Pier Head	0%	45	45	14-Jul-15	03-Sep-15	181				
	WHS1226	WHSP7 - Pile Test	0%	28	28	20-Apr-15	17-May-15	355				
	WHS1240	WHSAB1 - Pre-bored H pile (4 nos)	50%	6	12	23-Mar-15 A	25-Apr-15	642				
	WHS1250	WHSAB1 - Pile Test	0%	28	28	25-Apr-15	23-May-15	804				
	WHS1260	WHSAB1 - pile cap & abutment wall	0%	30	30	11-May-15	15-Jun-15	643				
	WHS1270	WHSAB1 - Backfilling (~4m)	0%	27	27	16-Jun-15	18-Jul-15	643				
	WHS1894	WHSP3 - Pre-bored H pile (6 nos)	0%	6	6	10-Apr-15 A	25-Apr-15	228				
	WHS1896	WHSP3 - Pile Test	0%	28	28	25-Apr-15	23-May-15	278				
	WHS1898	WHSP3 - Pile cap, Pier and Pier Head	0%	30	30	26-May-15	30-Jun-15	221				
	WHS1910	WHSP4 - Pre-bored H pile (6 nos)	50%	9	18	05-Mar-15 A	29-Apr-15	263				
	WHS1920	WHSP4 - Pile Test	0%	28	28	30-Apr-15	27-May-15	328				
	WHS1930	WHSP4 - Pile cap, Pier and Pier Head	0%	30	30	02-Jul-15	05-Aug-15	221				
	WHS1950	WHSP5 - Pre-bored H pile (6 nos)	33.33%	12	18	01-Apr-15 A	04-May-15	287				
	WHS1960	WHSP5 - Pile Test	0%	28	28	05-May-15	01-Jun-15	359				
Crossing Fanling Highway Section												
	WHS1470	WHSP1 - Pile cap, Pier and Pier Head	80.77%	10	52	18-Jun-14 A	30-Apr-15	617				
	WHS1480	Erect WHS bridge Structure across fanling highway	0%	90	90	14-Jul-15	29-Oct-15	558				
TWSR-East FL Highway S/B Side Section												
	WHS2090	North Abutment Wall (AW1) - Backfilling (~6m)	20%	48	60	02-Apr-15 A	16-Jun-15	524				
Slip Road Y Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
	RDZ41000	Construct Slip Rd Y (Ch8250-8370)(SA340) (Z4	43.16%	54	95	02-Mar-15 A	24-Jun-15	-324				
	RDZ41010	Construct Slip Rd Y (Ch8100-8250)(SA342) (Z4	0%	95	95	25-Jun-15	16-Oct-15	-324				
	RDZ41020	Construct Slip Rd Y @ existing TWSR-E junction	0%	70	70	02-Jul-15	21-Sep-15	-184				
Underground Utility Works												
DN600 and DN900 Watermain												
	DN1010	DN600 & DN900 watermain laying (Ch8100-8250)(SA342) (near Z4	0%	75	75	25-Jun-15	21-Sep-15	-244				
VO - Wall 76A Construction												
Retaining Wall W76A												
TWSR-East FL Highway S/B Side Section												
	W76A1020	W76A construction (bay 9)	0%	12	12	16-May-15	30-May-15	696				
	W76A1022	Watermain installation	0%	17	15	02-Mar-15 A	09-May-15	696				
	W76A1024	WSD installation for Caltex	0%	5	5	11-May-15	15-May-15	696				
	W76A1030	W76A backfilling work (bay 4,5,9)	0%	25	25	01-Jun-15	30-Jun-15	696				
	W76A1040	Stage 1 road work ready to start	0%	0	0	02-Jul-15		1642				♦ Stage 1 road v

Activity ID	Activity Name	Duration % Complete	Remaining Duration	Original Duration	Start	Finish	Total Float	2015				
									Apr	May	Jun	Jul
W76A1050	Drainage work for Caltex access road	0%	150	150	02-Jul-15	29-Dec-15	696					
Fanling Highway Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
HKY1412	Construct temp road for TWSR-East & FH S/B diversion	0%	21	21	05-Jun-15	30-Jun-15	-184					
RDZ41005	Construct FH S/B Lane 1,2 (Ch8250-8370)(SA340) (Z4	45%	55	100	02-Mar-15 A	25-Jun-15	-330					
RDZ41015	Construct FH S/B Lane 1,2 (Ch8100-8250)(SA342) (Z4	0%	100	100	26-Jun-15	24-Oct-15	-330					
RDZ41025	Construct FH S/B Lane 1,2 @ existing TWSR-E iunction	0%	60	60	02-Jul-15	09-Sep-15	-174					
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)	10%	54	60	27-Feb-15 A	24-Jun-15	183					
RWZ4.1070	Backfilling (0-3m) - RW77A (Ch.50-130)	0%	30	30	25-Jun-15	30-Jul-15	438					
RWZ4.1075	Temp Shoring & Excavation	0%	45	45	20-Apr-15	12-Jun-15	192					
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-50)	0%	90	90	25-Jun-15	10-Oct-15	183					
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	25-Jun-15	03-Sep-15	258					
Retaining Wall W78												
TWSR-East FL Highway S/B Side Section												
RWZ4.0900	Site Clearance	0%	30	30	20-Apr-15	26-May-15	342					
TCSS Works												
TCSS Pre-Construction Works												
TCSS0100	Acquire Design Criteria from Drawing & procurement	23.89%	137	180	27-Feb-15 A	02-Oct-15	286					
FADS8												
TCSS1620	Slow lane footing - FADS8 (CH8220, S/B)	0%	30	30	26-Jun-15	31-Jul-15	940					

**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		
			Feb 15	Mar 15	Apr 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	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		
			Feb 15	Mar 15	Apr 15
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		
			Feb 15	Mar 15	Apr 15
Water quality during construction	Demolition and reconstruction of bridges - 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 - 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		
			Feb 15	Mar 15	Apr 15
Waste management during construction	General Waste - 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 - 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 - Segregation of materials to facilitate disposal. - Appropriate stockpile management.		V	V	V
	Excavated Materials - 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 - 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 - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.		#	#	#

	Chemical Wastes - 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.		@	@	@
	Municipal Wastes - 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		
			Feb 15	Mar 15	Apr 15
Ecology during construction	Accurate Delineation of Works Area - 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
	Vegetation Clearance - 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
	Dust generation There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction: - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - 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
	Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include: - 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		
			Feb 15	Mar 15	Apr 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)

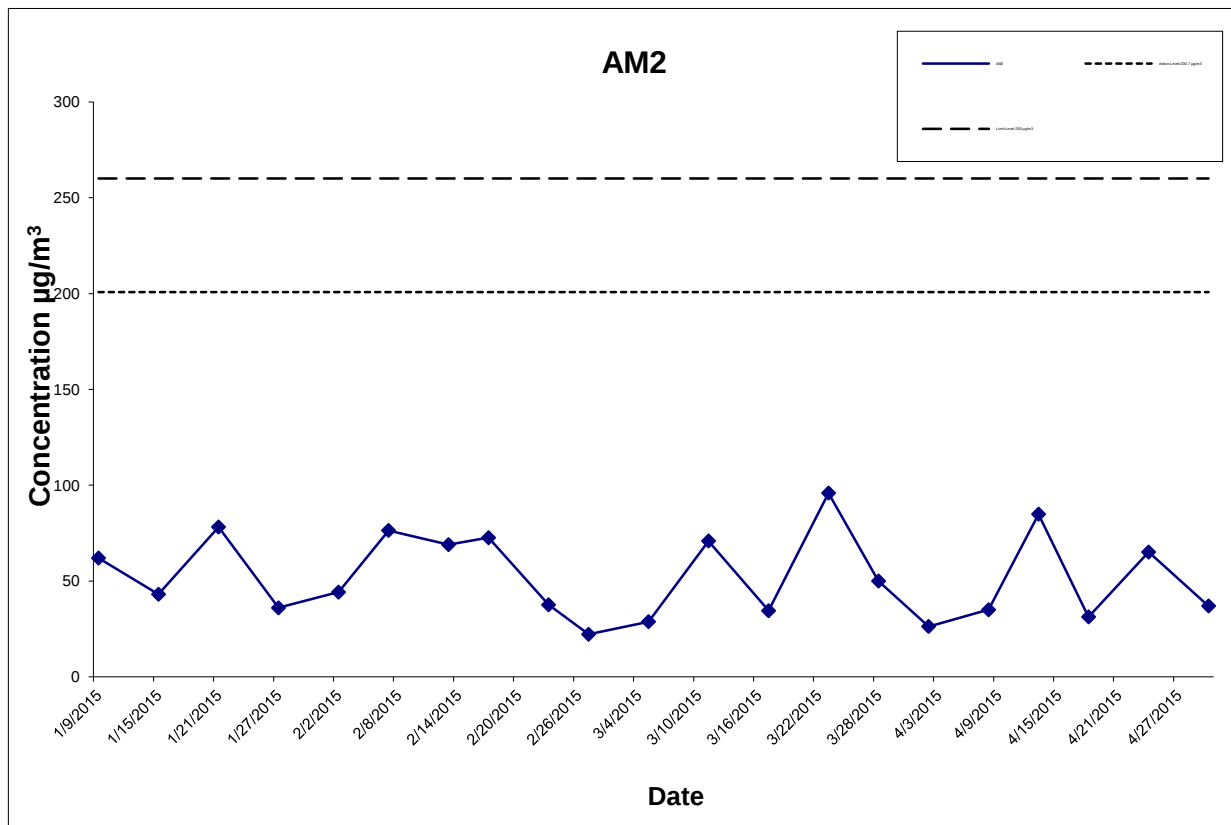
*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

**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 (m³/min.)		Av. flow (m³/min)	Total vol. (m³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m³)	Actino Level (µg/m³)	Limit Level (µg/m³)
				Initial	Final			Initial	Final		Initial	Final				
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
2-Feb-15	Sunny	16.3	1025.4	1.314	1.314	1.314	1892.2	2.7147	2.7983	0.0836	5070.03	5094.03	24.00	44.2	200.7	260
7-Feb-15	Cloudy	16.0	1021.7	1.314	1.314	1.314	1892.2	2.7176	2.8622	0.1446	5094.03	5118.03	24.00	76.4	200.7	260
13-Feb-15	Fine	17.5	1018.3	1.314	1.314	1.314	1892.2	2.7894	2.9200	0.1306	5118.03	5142.03	24.00	69.0	200.7	260
17-Feb-15	Cloudy	19.2	1016.7	1.314	1.314	1.314	1892.2	2.7823	2.9197	0.1374	5142.03	5166.03	24.00	72.6	200.7	260
23-Feb-15	Fine	16.2	1022.7	1.314	1.314	1.314	1892.2	2.7633	2.8344	0.0711	5166.03	5190.03	24.00	37.6	200.7	260
27-Feb-15	Fine	19.6	1018.9	1.314	1.314	1.314	1892.2	2.7819	2.8239	0.0420	5190.03	5214.03	24.00	22.2	200.7	260
5-Mar-15	Cloudy	16.2	1016.6	1.314	1.314	1.314	1892.2	2.8665	2.9210	0.0545	5214.03	5238.03	24.00	28.8	200.7	260
11-Mar-15	Cloudy	16.2	1021.9	1.314	1.314	1.314	1892.2	2.8872	3.0214	0.1342	5238.03	5262.03	24.00	70.9	200.7	260
17-Mar-15	Fine	22.1	1013.0	1.314	1.314	1.314	1892.2	2.7475	2.8128	0.0653	5262.03	5286.03	24.00	34.5	200.7	260
23-Mar-15	Sunny	20.9	1018.9	1.314	1.314	1.314	1892.2	2.8225	3.0039	0.1814	5286.03	5310.03	24.00	95.9	200.7	260
28-Mar-15	Cloudy	21.4	1018.4	1.314	1.314	1.314	1892.2	2.7464	2.8410	0.0946	5310.03	5334.03	24.00	50.0	200.7	260
2-Apr-15	Sunny	16.2	1016.6	1.314	1.314	1.314	1892.2	2.7257	2.7755	0.0498	5354.03	5378.03	24.00	26.3	200.7	260
8-Apr-15	Fine	16.2	1021.9	1.314	1.314	1.314	1892.2	2.8830	2.9492	0.0662	5378.03	5402.03	24.00	35.0	200.7	260
13-Apr-15	Sunny	22.1	1013.0	1.314	1.314	1.314	1892.2	2.9012	3.0618	0.1606	5402.03	5426.03	24.00	84.9	200.7	260
18-Apr-15	Sunny	20.9	1018.9	1.314	1.314	1.314	1892.2	2.8555	2.9147	0.0592	5426.03	5450.03	24.00	31.3	200.7	260
24-Apr-15	Sunny	24.4	1017.6	1.314	1.314	1.314	1892.2	2.8645	2.9876	0.1231	5450.03	5474.03	24.00	65.1	200.7	260
30-Apr-15	Sunny	27.5	1011.0	1.314	1.314	1.314	1892.2	2.8907	2.9608	0.0701	5474.03	5498.03	24.00	37.0	200.7	260
Average for the reporting quarter (Feb 15 to Apr 15)														51.9		
Minimum for the reporting quarter (Feb 15 to Apr 15)														22.2		
Maximum for the reporting quarter (Feb 15 to Apr 15)														95.9		



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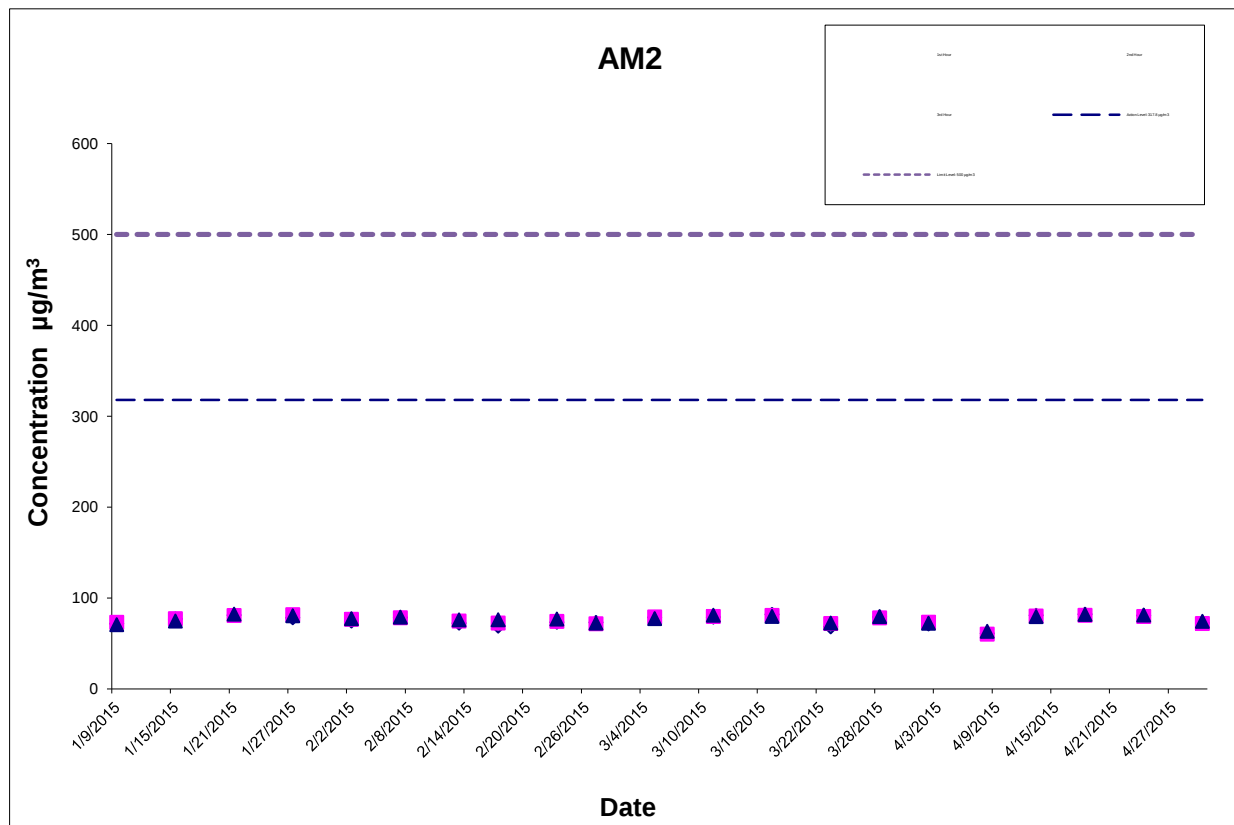


Graphical Presentation of Impact 24-hour TSP Monitoring Results

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanling 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. ($\mu\text{g}/\text{m}^3$)
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
2-Feb-15	10:22	74.6	76.5	77.2
7-Feb-15	13:10	78.6	78.2	78.9
13-Feb-15	13:30	72.3	74.6	75.9
17-Feb-15	13:30	69.0	72.4	76.0
23-Feb-15	13:30	73.3	74.2	76.8
27-Feb-15	10:05	73.1	71.6	72.3
5-Mar-15	11:05	78.6	79.1	77.3
11-Mar-15	10:40	78.9	79.6	81.0
17-Mar-15	13:45	81.9	80.8	79.7
23-Mar-15	10:00	68.2	71.9	72.4
28-Mar-15	13:10	79.1	78.1	79.5
2-Apr-15	13:05	71.4	73.3	72.2
8-Apr-15	10:30	61.0	60.2	63.3
13-Apr-15	14:28	80.9	80.1	79.5
18-Apr-15	9:57	82.1	80.9	81.9
24-Apr-15	13:27	80.7	79.6	81.2
30-Apr-15	10:55	72.6	71.9	74.3
Average for the reporting quarter (Feb 15 to Apr 15)				75.7
Minimum for the reporting quarter (Feb 15 to Apr 15)				60.2
Maximum for the reporting quarter (Feb 15 to Apr 15)				82.1



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



Graphical Presentation of Impact 1-hour TSP Monitoring Results

APPENDIX F
METEROLOGICAL DATA

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

Extract of Meteorological Observations for Tai Po Automatic Weather Station, February 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. (%)
Feb 1	1026.9	16.2	14.5	12.8	10.1	88	76	63
Feb 2	1025.8	18.9	15.9	13.5	11.6	89	76	60
Feb 3	1025.0	19.5	16.7	14.3	13.4	90	81	68
Feb 4	1024.0	18.4	15.9	12.8	11.5	89	76	59
Feb 5	1025.8	15.6	13.0	11.6	4.9	76	58	49
Feb 6	1025.0	14.6	12.6	9.8	6.7	81	67	58
Feb 7	1022.1	17.7	15.8	13.8	10.0	80	69	56
Feb 8	1023.9	18.8	15.9	14.0	3.3	76	44	30
Feb 9	1025.7	16.3	14.4	12.7	8.4	78	68	51
Feb 10	1022.6	15.7	13.4	10.7	8.2	85	71	55
Feb 11	1019.0	19.9	15.8	11.4	9.3	85	67	48
Feb 12	1018.7	21.1	16.3	12.5	7.8	76	58	31
Feb 13	1018.8	20.7	16.1	11.3	4.9	76	50	25
Feb 14	1017.3	20.2	18.2	14.6	8.5	76	54	34
Feb 15	1016.7	19.2	18.3	17.5	16.0	98	87	71
Feb 16	1016.8	21.5	18.8	16.6	17.4	99	92	79
Feb 17	1017.0	21.1	18.3	16.7	16.2	98	88	67
Feb 18	1019.5	19.4	18.3	17.1	13.2	90	73	64
Feb 19	1020.7	18.5	17.4	16.5	12.4	85	73	63
Feb 20	1018.6	18.8	17.5	15.7	14.9	93	84	77
Feb 21	1015.8	21.0	19.0	17.7	17.5	95	91	84
Feb 22	1016.3	21.7	19.6	18.8	18.7	98	94	86
Feb 23	1015.8	19.8	18.7	18.1	17.6	98	93	86
Feb 24	1015.0	19.8	18.8	18.1	17.8	98	94	90
Feb 25	1014.3	19.7	19.3	18.6	18.6	99	95	92
Feb 26	1014.4	24.1	21.2	19.2	19.5	99	91	75
Feb 27	1016.2	21.6	18.9	17.6	17.7	96	93	89
Feb 28	1017.5	18.9	18.4	17.7	16.4	94	88	84
Mean	1019.8	19.2	17.0	15.1	12.6	89	77	64
Maximum	1026.9	24.1	21.2	19.2	19.5	99	95	92
Minimum	1014.3	14.6	12.6	9.8	3.3	76	44	25

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

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

Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, February 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. (%)
Feb 1	*****	18.5	14.3	12.0	****	***	***	***
Feb 2	*****	21.6	16.0	12.5	****	***	***	***
Feb 3	*****	22.2	16.5	12.6	****	***	***	***
Feb 4	*****	20.5	15.6	11.8	****	***	***	***
Feb 5	*****	16.3	13.0	11.2	****	***	***	***
Feb 6	*****	16.5	12.7	10.1	****	***	***	***
Feb 7	*****	20.1	16.1	13.4	****	***	***	***
Feb 8	*****	19.9	15.6	13.1	****	***	***	***
Feb 9	*****	19.5	14.4	11.7	****	***	***	***
Feb 10	*****	18.7	14.0	11.0	****	***	***	***
Feb 11	*****	21.8	16.5	11.8	****	***	***	***
Feb 12	*****	24.0	17.0	13.2	****	***	***	***
Feb 13	*****	23.8	17.2	12.4	****	***	***	***
Feb 14	*****	23.7	18.9	15.9	****	***	***	***
Feb 15	*****	19.4	18.3	17.7	****	***	***	***
Feb 16	*****	23.4	19.5	17.0	****	***	***	***
Feb 17	*****	22.8	18.5	16.9	****	***	***	***
Feb 18	*****	21.6	18.2	15.7	****	***	***	***
Feb 19	*****	20.0	17.2	16.2	****	***	***	***
Feb 20	*****	20.2	17.5	15.7	****	***	***	***
Feb 21	*****	22.5	19.4	17.5	****	***	***	***
Feb 22	*****	24.9	20.2	18.8	****	***	***	***
Feb 23	*****	19.6	18.5	17.9	****	***	***	***
Feb 24	*****	20.3	18.8	18.0	****	***	***	***
Feb 25	*****	20.4	19.4	18.5	****	***	***	***
Feb 26	*****	26.7	22.0	19.3	****	***	***	***
Feb 27	*****	21.7	18.6	17.6	****	***	***	***
Feb 28	*****	20.0	18.4	17.2	****	***	***	***
Mean	*****	21.1	17.2	14.9	****	***	***	***
Maximum	*****	26.7	22.0	19.3	****	***	***	***
Minimum	*****	16.3	12.7	10.1	****	***	***	***

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

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
Feb 1	0.0	040	13.3
Feb 2	0.0	050	11.3
Feb 3	0.0	050	9.8
Feb 4	0.0	040	11.4
Feb 5	0.0	040	14.7
Feb 6	0.0	040	9.0
Feb 7	0.0	120	9.0
Feb 8	0.0	040	20.0
Feb 9	0.0	050	14.0
Feb 10	0.0	060	10.3
Feb 11	0.0	260	6.8
Feb 12	0.0	100	9.4
Feb 13	0.0	070	10.3
Feb 14	0.0	090	11.8
Feb 15	5.0	060	4.7
Feb 16	0.0	260	2.7
Feb 17	0.0	050	6.9
Feb 18	0.0	090	17.5
Feb 19	0.0	090	22.5
Feb 20	0.5	080	14.8
Feb 21	0.0	070	5.2
Feb 22	9.0	060	7.3
Feb 23	6.5	050	8.7
Feb 24	0.0	070	7.8
Feb 25	0.5	110	8.0
Feb 26	0.0	070	6.3
Feb 27	0.0	090	20.8
Feb 28	0.5	100	14.2
Mean	-----	050	11.0
Total	22.0	---	-----
Maximum	9.0	---	22.5
Minimum	0.0	---	2.7

*** 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



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Daily Extract of Meteorological Observations , March 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	1019.9	20.9	18.6	16.0	12.0	67	***	***	***
02	1016.7	17.7	16.9	16.2	13.8	83	***	***	***
03	1012.8	20.2	18.4	16.2	16.5	89	***	***	***
04	1015.8	19.3	16.2	14.8	14.8	92	***	***	***
05	1017.0	16.9	16.2	15.7	15.1	94	***	***	***
06	1017.4	17.2	16.7	15.9	15.8	95	***	***	***
07	1018.3	17.8	16.7	15.4	15.5	93	***	***	***
08	1018.2	19.3	18.1	16.9	15.8	87	***	***	***
09	1018.7	24.9	20.3	16.3	17.4	84	***	***	***
10	1022.6	20.5	17.4	15.5	12.2	72	***	***	***
11	1022.3	16.9	15.8	14.6	12.4	81	***	***	***
12	1021.2	15.9	14.6	13.4	13.4	92	***	***	***
13	1019.5	18.1	17.2	15.8	12.7	75	***	***	***
14	1018.8	20.0	19.0	17.8	16.5	86	***	***	***
15	1016.7	21.4	20.3	19.3	19.3	94	***	***	***
16	1015.9	22.5	20.9	19.8	20.1	95	***	***	***
17	1013.2	24.0	21.3	20.6	20.3	94	***	***	***
18	1011.8	23.7	22.0	20.9	21.0	94	***	***	***
19	1013.2	26.2	23.3	21.3	21.5	89	***	***	***
20	1015.4	26.5	22.7	20.6	20.8	90	***	***	***
21	1016.9	24.4	21.5	19.4	19.9	90	***	***	***
22	1018.1	21.7	20.6	19.0	17.3	82	***	***	***
23	1019.2	24.0	20.7	18.9	13.2	63	***	***	***
24	1022.8	22.0	19.2	18.0	14.6	75	***	***	***
25	1024.5	18.9	17.9	16.9	13.6	76	***	***	***
26	1024.5	20.1	18.3	17.1	14.8	80	***	***	***
27	1021.8	21.9	19.3	17.5	17.6	90	***	***	***
28	1018.6	22.9	20.3	18.0	16.9	81	***	***	***
29	1016.3	24.2	21.4	19.0	18.4	83	***	***	***
30	1014.9	25.0	22.5	21.2	20.2	87	***	***	***
31	1013.9	25.4	23.0	21.5	21.2	90	***	***	***

*** unavailable

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

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

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Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	22.3	18.9	16.0	***	***	0.0	040	9.6
02	***	17.5	16.8	16.2	***	***	0.0	090	16.4
03	***	21.9	18.7	15.9	***	***	2.0	060	8.5
04	***	19.0	16.3	15.7	***	***	1.5	110	12.8
05	***	16.5	15.8	15.2	***	***	3.0	090	18.6
06	***	17.0	16.6	16.0	***	***	0.5	100	7.9
07	***	17.8	16.7	15.3	***	***	1.0	070	12.3
08	***	20.2	18.2	16.6	***	***	0.0	060	9.2
09	***	26.6	20.7	16.8	***	***	0.0	090	6.8
10	***	22.7	17.6	15.2	***	***	0.0	100	21.2
11	***	18.0	15.8	14.1	***	***	0.0	100	14.0
12	***	16.4	14.8	13.8	***	***	5.5	040	9.4
13	***	19.7	17.1	15.3	***	***	0.0	090	10.4
14	***	20.3	19.4	17.7	***	***	0.0	060	8.7
15	***	22.9	20.8	19.6	***	***	0.0	060	7.5
16	***	24.6	21.6	20.3	***	***	0.0	060	6.0
17	***	24.9	21.6	20.7	***	***	0.0	060	7.0
18	***	24.6	22.3	20.5	***	***	0.0	060	7.2
19	***	29.5	24.2	21.7	***	***	0.0	070	8.2
20	***	29.8	23.3	20.4	***	***	0.0	080	5.9
21	***	27.0	22.3	20.5	***	***	0.0	090	8.0
22	***	22.0	20.3	19.0	***	***	0.0	070	14.0
23	***	25.5	20.9	18.7	***	***	0.0	100	16.7
24	***	24.2	19.7	17.8	***	***	0.0	090	20.0
25	***	19.8	17.9	16.6	***	***	0.0	090	16.1
26	***	21.7	18.9	16.9	***	***	0.0	050	10.6
27	***	22.4	19.8	17.6	***	***	0.5	060	3.6
28	***	25.8	20.8	17.6	***	***	0.0	130	7.2
29	***	27.4	21.5	18.2	***	***	0.0	050	8.0
30	***	28.0	23.0	21.0	***	***	0.0	070	8.1
31	***	27.5	23.6	21.6	***	***	0.0	120	7.0

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Daily Extract of Meteorological Observations , April 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	1012.3	25.6	23.8	22.3	21.8	89	***	***	***
02	1008.4	28.2	25.4	23.6	22.1	82	***	***	***
03	1007.4	27.6	26.0	25.0	22.2	80	***	***	***
04	1009.6	31.4	26.6	24.3	22.5	79	***	***	***
05	1011.2	27.6	25.4	23.4	21.4	79	***	***	***
06	1011.3	30.4	26.3	22.1	22.1	78	***	***	***
07	1013.7	27.2	24.6	20.6	21.6	83	***	***	***
08	1018.8	20.6	17.4	14.2	13.4	77	***	***	***
09	1018.3	18.4	16.4	13.8	14.7	90	***	***	***
10	1018.5	17.6	16.1	14.6	14.4	89	***	***	***
11	1019.6	16.8	15.6	14.4	15.2	97	***	***	***
12	1019.8	24.0	18.9	15.6	15.0	79	***	***	***
13	1018.9	26.6	21.5	16.5	11.9	57	***	***	***
14	1018.8	25.2	20.5	16.0	6.8	43	***	***	***
15	1016.2	26.9	20.3	14.6	11.3	57	***	***	***
16	1014.9	27.9	21.7	16.1	15.6	69	***	***	***
17	1012.3	28.8	22.8	18.5	18.1	76	***	***	***
18	1010.0	27.7	25.3	23.1	22.1	83	***	***	***
19	1008.4	27.5	26.6	26.0	23.1	81	***	***	***
20	1007.7	29.3	26.5	22.5	23.2	83	***	***	***
21	1013.1	24.3	22.5	21.3	17.5	74	***	***	***
22	1017.2	24.9	22.5	21.1	17.7	75	***	***	***
23	1018.6	23.1	22.2	21.4	15.5	66	***	***	***
24	1017.6	25.9	23.2	20.8	18.9	77	***	***	***
25	1017.1	24.5	22.5	20.4	18.9	80	***	***	***
26	1016.9	25.1	23.1	21.5	18.6	76	***	***	***
27	1014.3	26.9	23.5	20.0	20.1	81	***	***	***
28	1011.5	30.4	25.3	21.5	21.4	80	***	***	***
29	1010.8	30.5	26.3	22.4	22.3	79	***	***	***
30	1010.8	30.7	26.8	23.4	23.0	80	***	***	***

*** unavailable

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



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Daily Extract of Meteorological Observations , April 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	***	27.9	24.1	22.3	***	***	0.0	140	7.2
02	***	26.8	24.4	22.7	***	***	0.0	150	6.2
03	***	27.6	25.3	23.9	***	***	0.0	150	8.0
04	***	30.9	26.1	24.0	***	***	0.0	150	6.1
05	***	31.5	26.3	23.4	***	***	0.0	070	8.3
06	***	32.9	27.0	22.8	***	***	0.0	070	5.7
07	***	28.3	24.7	19.4	***	***	0.5	070	12.7
08	***	19.4	17.1	14.2	***	***	6.5	040	15.6
09	***	19.1	16.6	13.1	***	***	4.5	040	10.6
10	***	18.5	16.8	15.6	***	***	2.0	050	5.0
11	***	17.4	16.2	15.0	***	***	31.5	040	8.7
12	***	23.8	19.5	16.0	***	***	1.0	160	4.9
13	***	28.5	22.1	15.5	***	***	0.0	050	11.0
14	***	26.6	20.7	15.4	***	***	0.0	040	13.3
15	***	28.3	20.7	15.6	***	***	0.0	150	5.0
16	***	28.9	22.5	15.7	***	***	0.0	250	6.2
17	***	29.0	23.4	19.6	***	***	0.0	140	7.3
18	***	27.5	25.0	22.3	***	***	0.0	160	6.6
19	***	28.1	26.7	25.1	***	***	0.0	230	18.0
20	***	29.2	26.6	22.7	***	***	1.5	220	8.6
21	***	26.3	22.4	19.5	***	***	0.0	080	8.8
22	***	28.3	22.2	19.4	***	***	0.0	090	14.8
23	***	23.4	21.1	19.8	***	***	0.0	090	10.6
24	***	29.5	23.4	19.2	***	***	0.0	130	7.0
25	***	26.6	22.0	19.8	***	***	0.0	090	11.3
26	***	28.8	23.0	19.9	***	***	0.0	090	13.3
27	***	29.7	23.7	19.2	***	***	0.0	130	7.3
28	***	30.7	25.1	20.8	***	***	0.0	200	7.6
29	***	33.5	26.7	21.5	***	***	0.0	140	7.4
30	***	33.5	27.2	23.2	***	***	0.0	140	7.3

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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*		
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
2-Feb-15	11:16	70.6	72.0	67.2	75	N
13-Feb-15	14:28	69.3	71.6	66.8	75	N
17-Feb-15	14:20	69.7	71.0	66.8	75	N
23-Feb-15	14:45	67.2	69.1	65.0	75	N
27-Feb-15	11:00	70.6	72.2	67.4	75	N
5-Mar-15	13:14	66.9	68.5	64.2	75	N
11-Mar-15	9:50	67.8	69.6	63.5	75	N
17-Mar-15	11:29	67.5	69.2	65.3	75	N
23-Mar-15	10:45	69.1	72.0	68.0	75	N
2-Apr-15	14:00	69.4	71.7	68.0	75	N
8-Apr-15	11:30	69.4	71.5	67.5	75	N
13-Apr-15	14:55	68.0	69.5	66.2	75	N
24-Apr-15	13:31	68.5	70.1	66.4	75	N
30-Apr-15	10:00	70.6	72.3	67.0	75	N
Minimum for Feb 15 to Apr 15		66.9	68.5	63.5		
Maximum for Feb 15 to Apr 15		70.6	72.3	68.0		
Average for Feb 15 to Apr 15		69.1	70.9	66.6		

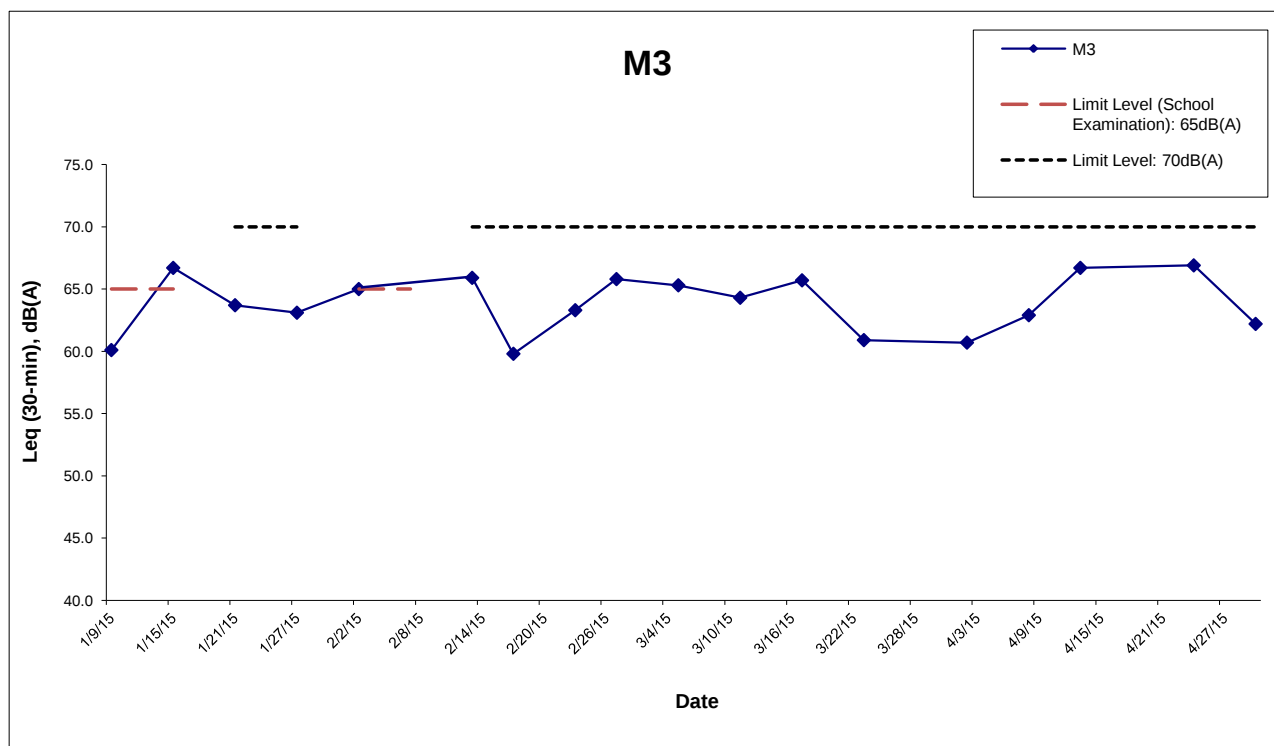
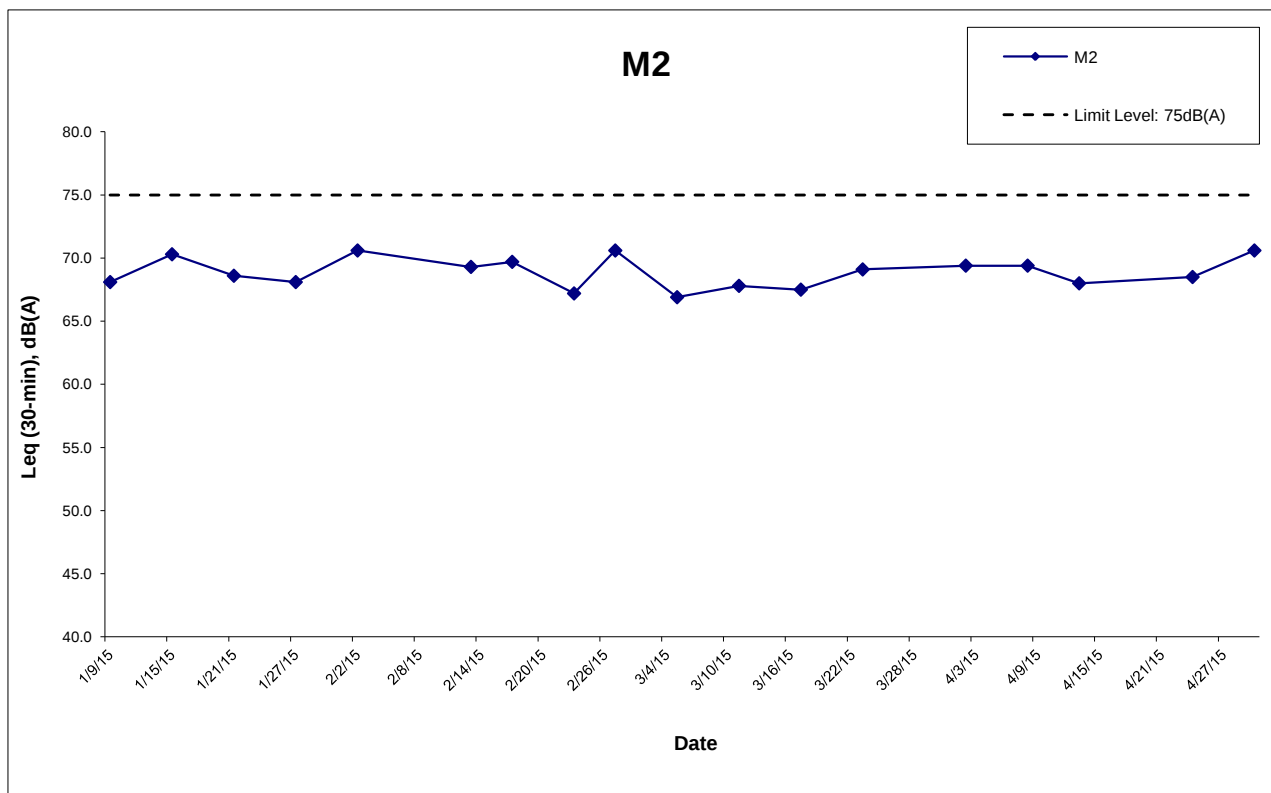
Location : M3 (Fanling Government Secondary School- Façade)

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		
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
2-Feb-15	10:25	65.0	66.3	62.0	65	N
13-Feb-15	13:33	65.9	67.6	63.8	70	N
17-Feb-15	13:55	59.8	60.6	56.5	70	N
23-Feb-15	13:30	63.3	65.1	60.8	70	N
27-Feb-15	10:05	65.8	68.6	62.4	70	N
5-Mar-15	11:05	65.3	67.9	62.7	70	N
11-Mar-15	10:45	64.3	66.0	62.1	70	N
17-Mar-15	13:40	65.7	68.1	63.2	70	N
23-Mar-15	9:50	60.9	62.0	58.4	70	N
2-Apr-15	13:05	60.7	62.1	58.5	70	N
8-Apr-15	10:35	62.9	64.0	60.0	70	N
13-Apr-15	15:50	66.7	68.1	64.3	70	N
24-Apr-15	14:23	66.9	68.4	64.1	70	N
30-Apr-15	11:00	62.2	63.6	60.0	70	N
Minimum for Feb 15 to Apr 15		59.8	60.6	56.5		
Maximum for Feb 15 to Apr 15		66.9	68.6	64.3		
Average for Feb 15 to Apr 15		64.5	66.3	61.9		

* +3dB(A) Façade effect correction included

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



Remark:

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

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



Graphical Presentation of Impact Daytime Construction Noise Monitoring Results

Project No.: 60307376

Date: May-15

Appendix G

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

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by the ET this 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	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	EPD referred an air complaint on 24 October 2014. A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house. The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up. The location of complaint is near Lamppost Location EB5717.	Closed		
	31 December 2014	EPD referred a water complaint on 31 December 2014. The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.	Closed		

	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	EPD referred a water complaint on 25 March 2015. The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses. The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.	Closed		
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0