

Highways Department

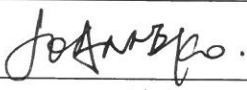

Agreement No. CE 20/2009 (EP)

**Environmental Team for the Widening of
Tolo Highway / Fanling Highway between
Island House Interchange and Fanling**

**(Stage 1)
Between Island House Interchange and
Tai Hang - Investigation**

**Monthly EM&A Report
for February 2014**

[03/2014]

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14 March 2014
By Fax (2805 5028) and Post

Attn.: Mr. James Penny

Dear Sir,

**Widening of Tolo Highway between
Island House Interchange and Tai Hang
Environmental Permit (EP) No.: EP-324/2008/A
Condition 3.3 – Submission of Monthly EM&A Report for February 2014 (Stage 1)**

We refer to the captioned Monthly EM&A Report received on 12 and 14 March 2014 submitted by Environmental Team (ET) via email. Pursuant to EP Condition 3.3, I hereby verify the Monthly EM&A Report for February 2014 (Stage 1) for the Project.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED

Terence Kong
Independent Environmental Checker

c.c. HyD – Mr. Raymond T W Kong / Mr. Dennis Wong / Mr. William Chiang (Fax: 2761 4864)
ETL, AECOM – Mr. Y T Tang (Fax: 2317 7609)

TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	1
Reporting Change	1
1 INTRODUCTION	3
1.1 Background	3
1.2 Scope of Report	4
1.3 Project Organization	4
1.4 Summary of Construction Works	5
1.5 Summary of EM&A Programme Requirements	5
2 AIR QUALITY MONITORING	6
2.1 Monitoring Requirements	6
2.2 Monitoring Equipment	6
2.3 Monitoring Locations	6
2.4 Monitoring Parameters, Frequency and Duration	7
2.5 Monitoring Methodology	7
2.6 Monitoring Schedule for the Reporting Month	8
2.7 Monitoring Results	9
2.8 Results and Observations	9
3 NOISE MONITORING	10
3.1 Monitoring Requirements	10
3.2 Monitoring Equipment	10
3.3 Monitoring Locations	10
3.4 Monitoring Parameters, Frequency and Duration	11
3.5 Monitoring Methodology	11
3.6 Monitoring Schedule for the Reporting Month	12
3.7 Monitoring Results	12
4 ENVIRONMENTAL SITE INSPECTION AND AUDIT	13
4.1 Site Inspection	13
4.2 Advice on the Solid and Liquid Waste Management Status	14
4.3 Environmental Licenses and Permits	14
4.4 Implementation Status of Environmental Mitigation Measures	18
4.5 Summary of Exceedances of the Environmental Quality Performance Limit	18
4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions	19
5 FUTURE KEY ISSUES	20
5.1 Construction Programme for the Coming Month	20
5.2 Key Issues for the Coming Month	20
5.3 Monitoring Schedule for the Coming Month	20
6 CONCLUSIONS AND RECOMMENDATIONS	21
6.1 Conclusions	21
6.2 Recommendations	21

List of Tables

Table 1.1	Contact Information of Key Personnel
Table 2.1	Air Quality Monitoring Equipment
Table 2.2	Locations of Impact Air Quality Monitoring Stations
Table 2.3	Air Quality Monitoring Parameters, Frequency and Duration
Table 2.4	Summary of 1-hour TSP Monitoring Results in the Reporting Period
Table 2.5	Summary of 24-hour TSP Monitoring Results in the Reporting Period
Table 3.1	Noise Monitoring Equipment
Table 3.2	Locations of Impact Noise Monitoring Stations
Table 3.3	Noise Monitoring Parameters, Frequency and Duration
Table 3.4	Summary of Construction Noise Monitoring Results in the Reporting Period
Table 4.1	Summary of Environmental Licensing and Permit Status

Figures

Figure 1.1	General Project Layout Plan
Figure 2.1	EM&A Monitoring Locations
Figure 4.1	Environmental Complaint Handling Procedures

List of Appendices

Appendix A	Project Organization Structure
Appendix B	Construction Programmes
Appendix C	Implementation Schedule of Environmental Mitigation Measures (EMIS)
Appendix D	Summary of Action and Limit Levels
Appendix E	Calibration Certificates of Monitoring Equipments
Appendix F	EM&A Monitoring Schedules
Appendix G	Impact Air Quality Monitoring Results and their Graphical Presentation
Appendix H	Meteorological Data for the Reporting Month
Appendix I	Impact Daytime Construction Noise Monitoring Results and their Graphical Presentation
Appendix J	Event Action Plan
Appendix K	Site Inspection Summaries
Appendix L	Statistics on Complaints, Notifications of Summons and Successful Prosecutions

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) and is governed by an Environmental Permit (EP-324/2008)(EP) issued by EPD on 23 December 2008. Subsequently, EPD issued a Variation of Environmental Permit (EP-324/2008/A) (VEP) on 31 January 2012.

The Project aims 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). The construction works of Stage 1 were commenced on 23 November 2009 and will tentatively be completed in April 2014. This report focuses on Stage 1 of the Project only.

The construction phase of Stage 1 under the EP and the Environmental Monitoring and Audit (EM&A) programme for Stage 1 of the Project commenced on 23 November 2009. 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 and 28 February 2014.

As informed by the Contract 1 Contractor (China State Construction Engineering (Hong Kong) Ltd.), construction activities in the reporting period were:-

- Temporary shoring, sheetpiling and excavation
- At-grade road construction
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier panels installation
- Asphalt laying
- Installation of Drainage Pipes

The construction works carried out by the Contract 2 Contractor (Gammon Construction Ltd.) in the reporting period were:-

- Condition survey of existing structures
- Setting up the temporary traffic arrangement
- Excavation of trial trenches to locate existing utilities
- Construction of haul road
- Construction of concrete profile barrier and beam barrier
- Construction of Pilecap / Spread footing of noise barriers / semi-noise enclosures
- Slope works, including installation of soil nails
- Noise barrier construction
- Modification of existing bridge structures
- Entrusted watermains works
- Sewer Installation
- Road and drainage works
- Landscaping works

Reporting Change

There was no reporting change required in the reporting month.

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 month.

Breaches of Action and Limit Levels for Noise

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

No Limit Level exceedance of construction noise was recorded in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

One (1) noise-related complaint was received on 27 February 2014 and followed up by the Environmental Team in February 2014. The complaint is still under investigation as of the end of February 2014 and the investigation result will be reported in the next Monthly EM&A Report (March 2014).

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 included:-

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Site runoff should be properly collected and treated prior to discharge;
- 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;
- Suppress dust generated from excavation, breaking and drilling activities, haul road traffic and grout mixing;
- Quieter powered mechanical equipment should be used;
- Closely check and replace the sound insulation materials wrapped at the concrete breaker tip regularly;
- Better scheduling of construction works to minimize noise nuisance; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Background

- 1.1.1. Tolo Highway and Fanling Highway are expressways in the North East New Territories connecting Sha Tin, Tai Po and Fanling. These highways form a vital part of the strategic Route 9, which links other major strategic routes to Shenzhen. At present, this section of Route 9 is dual 3-lane carriageway. However, at several major interchanges along this section of Route 9, the highway is only dual-2 lane. Severe congestion is a frequent occurrence during peak periods, particularly in the Kowloon bound direction.
- 1.1.2. 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.
- 1.1.3. The Project is a designated project and is governed by an Environmental Permit (EP-324/2008)(EP) issued by EPD on 23 December 2008. Subsequently, EPD issued a Variation of Environmental Permit (EP-324/2008/A) (VEP) on 31 January 2012.
- 1.1.4. The scope of the Project comprises mainly:-
- (i) Widening of a 5.7 km section of Tolo Highway and 3.0 km section of Fanling Highway between Island House Interchange and Wo Hop Shek Interchange from the existing dual 3-lane to dual 4-lane, including construction of new vehicular bridges;
 - (ii) Widening of interchange sections at Island House Interchange, Tai Po North Interchange, and Lam Kam Road Interchange from dual 2-lane to dual 3-lane, except Sha Tin bound carriageway at Tai Po North Interchange, which is widened from 3-lane to 4-lane, including realignment of various slip roads;
 - (iii) Modification and reconstruction of highways, vehicular bridges, underpasses and footbridges.
- 1.1.5. 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). The construction works of Stage 1 commenced on 23 November 2009 and will tentatively be completed in April 2014; while the construction works of Stage 2 commenced on 21 November 2013. This report focuses on Stage 1 of the Project only.
- 1.1.6. The construction works for Stage 1 of the Project will be implemented under 2 works contracts (Contract 1 and Contract 2). Contract 1 covers the section of Tolo Highway between Island House Interchange and Ma Wo, Contract 2 covers the section of Tolo Highway between Ma Wo and Tai Hang.
- 1.1.7. Hyder-Arup-Black and Veatch Joint Venture (HABVJV) are appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Tolo project under Agreement No. CE 58/2000 Supplementary Agreement No. 3 (SA3) (i.e. the Engineer for the Contracts).
- 1.1.8. China State Construction Engineering (Hong Kong) Ltd. (CSHK) was commissioned as the Contractor of Contract 1 of Stage 1 of the Project, while Gammon Construction Limited (GCL) was commissioned as the Contractor of Contract 2 of Stage 1 of the Project.
- 1.1.9. AECOM Asia Co. Ltd. was employed by HyD as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) works for Stage 1 of the Project and Mott MacDonald Hong Kong Ltd. acts as the Independent Environmental Checker (IEC) for the Contracts.
- 1.1.10. The construction phase of Stage 1 under the EP commenced on 23 November 2009.
- 1.1.11. According to the updated EM&A Manual of Stage 1 of the Project, there is a need of an EM&A programme including air quality and noise monitoring. The EM&A programme for Stage 1 of the Project commenced on 23 November 2009.

1.2 Scope of Report

- 1.2.1 This is the fifty-second monthly EM&A Report under the Agreement No. CE 20/2009 (EP) - Widening of Tolo Highway between Island House Interchange and Tai Hang – Investigation. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for Stage 1 of the Project in February 2014.

1.3 Project Organization

- 1.3.1 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 of Stage 1, Contract 1 (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer /TOL01	James Tsang	9038 8797	26674000
ER of Stage 1, Contract 2 (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer /TOL02	Paul Appleton	9097 5833	2653 2348
IEC of Stage 1 (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Terence Kong	2828 5919	2827 1823
Contractor of Stage 1, Contract 1 (China State Construction Engineering (Hong Kong) Limited)	Site Agent	Eddie Tang	9863 7686	2667 5666
	Environmental Officer	Michael Tsang	9277 4956	2667 5666
		M L Lam	9489 4641	2667 5666
Contractor of Stage 1, Contract 2 (Gammon Construction Limited)	Site Agent	John Chan	3126 1202	2559 3410
	Environmental Officer	Thomson Chang	9213 6569	2559 3410
		Crispin Ao	9223 8773	2559 3410
		Jason Cheng	9837 9323	2559 3410
		Jimmy Tsang	9720 9738	2559 3410

Party	Position	Name	Telephone	Fax
ET of Stage 1 (AECOM Asia Company Limited)	ET Leader	Y T Tang	3922 9393	3922 9797

1.4 Summary of Construction Works

1.4.1 The construction phase of Stage 1 under the EP commenced on 23 November 2009.

1.4.2 Details of the construction works carried out by the Contract 1 Contractor (China State Construction Engineering (Hong Kong) Ltd.) in this reporting period are listed below:-

- Temporary shoring, sheetpiling and excavation
- At-grade road construction
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier panels installation
- Asphalt laying
- Installation of Drainage Pipes

1.4.3 Details of the construction works carried out by the Contract 2 Contractor (Gammon Construction Ltd.) in this reporting period are listed below:-

- Condition survey of existing structures
- Setting up the temporary traffic arrangement
- Excavation of trial trenches to locate existing utilities
- Construction of haul road
- Construction of concrete profile barrier and beam barrier
- Construction of Pilecap / Spread footing of noise barriers / semi-noise enclosures
- Slope works, including installation of soil nails
- Noise barrier construction
- Modification of existing bridge structures
- Entrusted watermains works
- Sewer Installation
- Road and drainage works
- Landscaping works

1.4.4 The Construction Programmes are shown in Appendix B.

1.4.5 The general layout plan of the Project site showing the contract areas is shown in Figure 1.1.

1.4.6 The environmental mitigation measures implementation schedule are presented in Appendix C.

1.5 Summary of EM&A Programme Requirements

1.5.1 The EM&A programme required environmental monitoring for air quality, noise and environmental site inspections for air quality, water quality, noise, waste management, ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event / Action Plan;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirement in contract documents.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at 4 air quality monitoring stations were 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. The Action and Limit level of the air quality monitoring is provided in Appendix D.

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the updated EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

Table 2.1 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B)
High Volume Sampler (24-hour TSP)	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170 & GMW-2310)

2.3 Monitoring Locations

2.3.1 Monitoring locations AM2 and AM3 were set up at the proposed locations in accordance with updated EM&A Manual. However, for monitoring locations: Dynasty View and Tai Po Garden, proposed in the updated EM&A Manual, as approval could not be obtained from the owner's corporation of the premises, baseline and impact air quality monitoring was conducted at 13 Ha Wun Yiu (AM1) and Tai Kwong Secondary School (AM4) respectively. The monitoring station at 13 Ha Wun Yiu (AM1) was relocated to Fan Sin Temple, 3 Sheung Wun Yiu (AM1A) in February 2010. Also, the monitoring station at Tai Kwong Secondary School (AM4) was relocated to 168 Shek Kwu Lung Village (AM4A) in September 2011.

2.3.2 Figure 2.1 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

Table 2.2 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description
AM1A	3 Sheung Wun Yiu	Ground floor at the boundary outside Fan Sin Temple
AM2	12 Shan Tong New Village	Ground floor outside the premises
AM3	Riverain Bayside	Roof of the switch room
AM4A	168 Shek Kwu Lung Village	Roof of the switch room

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
1-hour TSP	Three times every 6 days while the highest dust impact was expected
24-hour TSP	Once every 6 days

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

- (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
- (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (iv) A minimum of 2 meters separation from any supporting structure, measured horizontally.
 - (v) No furnace or incinerator flues nearby.
 - (vi) Airflow around the sampler was unrestricted.
 - (vii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (viii) A secured supply of electricity was obtained to operate the samplers.
 - (ix) The sampler was located more than 20 meters from any dripline.
 - (x) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xi) Flow control accuracy was kept within $\pm 2.5\%$ deviation over 24-hour sampling period.
- (b) Preparation of Filter Papers
- (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ± 3 °C; the relative humidity (RH) was < 50% and not variable by more than $\pm 5\%$. A convenient working RH was 40%.
 - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
- (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminum strip.

- (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- (viii) A new flow rate record sheet was set into the flow recorder.
- (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/min).
- (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
- (xi) The initial elapsed time was recorded.
- (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
- (xiii) The final elapsed time was recorded.
- (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
- (xv) It was then placed in a clean plastic envelope and sealed.
- (xvi) All monitoring information was recorded on a standard data sheet.
- (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.

(d) Maintenance and Calibration

- (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
- (iii) Calibration certificate of the HVSs are provided in Appendix E.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.

(b) Maintenance and Calibration

- (i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
- (ii) 1-hour validation checking of the TSP meter against HVS is carried out yearly at the air quality monitoring locations.

2.6 Monitoring Schedule for the Reporting Month

2.6.1 The schedule for environmental monitoring in February 2014 is provided in Appendix F.

2.7 Monitoring Results

2.7.1 The baseline condition of air quality in the Project site was reviewed in October and November 2009. A baseline monitoring of air quality, in terms of 1-hour Total Suspended Particulates (TSP) and 24-hour TSP, was carried out from 20 October 2009 to 4 November 2009 for 14 days. The baseline monitoring report was submitted by ETL and approved by the ER and the IEC on 9 November 2009. Action Levels for air quality were established and are summarized in Table 2.4, Table 2.5 and Appendix D.

2.8 Results and Observations

2.8.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

Table 2.4 Summary of 1-hour TSP Monitoring Results in the Reporting Period

	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM1A	76.7	70.8 – 82.4	302.1	500
AM2	77.2	71.1 – 84.2	301.9	500
AM3	77.0	70.1 – 83.1	301.9	500
AM4A	77.4	69.8 – 84.6	302.3	500

Table 2.5 Summary of 24-hour TSP Monitoring Results in the Reporting Period

	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM1A	35.6	24.5 – 47.8	176.6	260
AM2	29.8	5.2 – 42.0	178.6	260
AM3	50.2	45.7 – 58.9	193.1	260
AM4A	36.2	28.3 – 47.0	198.5	260

Remarks: Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

- 2.8.2 The major dust source in the reporting period included construction activities from Stage 1 of the Project, as well as nearby traffic emissions.
- 2.8.3 All 1-hour and 24-hour TSP results were below the Action and Limit Level at all monitoring locations in the reporting month.
- 2.8.4 The event action plan is annexed in Appendix J.
- 2.8.5 Weather information including wind speed and wind direction is annexed in Appendix H. The information was obtained from Hong Kong Observatory Sha Tin and Tai Mei Tuk Automatic Weather Station. As some of the weather data in February 2014 from the Tai Mei Tuk Automatic Weather Station were missing, the weather data from Tai Po Automatic Weather Station in February 2014 are included in Appendix H for supplementary purpose.

3 NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of Stage 1 of the Project. The Action and Limit level of the noise monitoring is provided in Appendix D.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

Table 3.1 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31 / B&K 2238 / B&K 2250-L
Acoustic Calibrator	Rion NC-73

3.3 Monitoring Locations

3.3.1 Monitoring stations NM3, NM6 and NM7 were set up at the proposed locations in accordance with updated EM&A Manual. However, for monitoring locations: Tai Po Garden (NM1), Dynasty View (NM2), Hong Kong Teachers' Association Lee Heng Kwei Secondary School (NM4) and Grand Palisades (NM5), proposed in the updated EM&A Manual, impact noise monitoring was conducted at alternative monitoring locations, as approval of access could not be obtained from the owner's corporation of the premises or the principal of the education institutes. The monitoring station at Tai Kwong Secondary School (NM1) was relocated to 168 Shek Kwu Lung Village (NM1A) in September 2011.

3.3.2 Figure 2.1 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

Table 3.2 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
NM1A	168 Shek Kwu Lung Village	1m from the exterior wall of the village house
NM2	38 Ha Wun Yiu	1.2m from the ground floor free-field of the village house
NM3	Wong Shiu Chi Middle School	1m from the exterior of the roof top façade of the New Wing
NM4	Uptown Plaza	1m from the exterior of the roof top façade of Block 4
NM5	The Paragon	1m from the exterior of the roof top façade of the club house
NM6	PLK Tin Ka Ping Primary School	1.2m ground floor free-field near the entrance
NM7	Riverain Bayside	1m from the exterior of the roof façade of the switch room

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. L_{eq} , L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

- (a) Façade measurements were made at all monitoring locations, except monitoring stations NM2 and NM6.
- (b) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at NM2 and NM6.
- (c) The battery condition was checked to ensure the correct functioning of the meter.
- (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: $L_{eq(30\text{-minutes})}$ during non-restricted hours i.e. 07:00 – 1900 on normal weekdays; $L_{eq(5\text{-minutes})}$ during restricted hours i.e. 19:00 – 23:00 and 23:00 – 07:00 of normal weekdays, whole day of Sundays and Public Holidays
- (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (f) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.

3.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for environmental monitoring in February 2014 is provided in Appendix F.

3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

Table 3.4 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)
NM1A	62.3	60.4 – 64.1	75
NM2	65.0	63.2 – 67.9	75
NM3	61.5	58.4 – 63.9	70/65 [#]
NM4	64.2	62.0 – 65.7	75
NM5	61.7	59.9 – 63.7	75
NM6	63.0*	62.7 – 63.1*	70 [#]
NM7	59.3	54.6 – 61.4	75

*+3dB(A) Façade correction included

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

3.7.2 No noise complaint related to 0700 – 1900 hours on normal weekdays was received and followed up by the Environmental Team in the reporting period. Hence, no Action Level exceedance was recorded.

3.7.3 No noise monitoring result exceeding the Limit Level was recorded at all monitoring stations in the reporting month.

3.7.4 Major noise sources during the noise monitoring included construction activities of Stage 1 of the Project and nearby traffic noise and general school activities.

3.7.5 The event action plan is annexed in Appendix J.

4 ENVIRONMENTAL SITE INSPECTION AND AUDIT

4.1 Site Inspection

4.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for Stage 1 of the Project. In the reporting month, 5 site inspections were carried out on 5, 12, 19 and 26 February 2014 for Contract 1 of the Project, and 4 site inspections for Contract 2 of the Project were carried out on 6, 13, 20 and 27 February 2014.

4.1.2 The environmental site inspections summaries are provided in Appendix K.

4.1.3 Particular observations during the site inspections for Contract 1 are described below:

Air Quality

4.1.4 No adverse observation was identified in the reporting month.

Noise

4.1.5 No adverse observation was identified in the reporting month.

Water Quality

4.1.6 No adverse observation was identified in the reporting month.

Chemical and Waste Management

4.1.7 The Contractor was reminded to clear the general refuse under the bridge.

Landscape and Visual Impact

4.1.8 The Contractor was reminded to fence off retained trees under Bridge 10A for maximum protection.

Miscellaneous

4.1.9 No adverse observation was identified in the reporting month.

4.1.10 Particular observations and reminder during the site inspections for Contract 2 are described below:

Air Quality

4.1.11 No adverse observation was identified in the reporting month.

Noise

4.1.12 No adverse observation was identified in the reporting month.

Water Quality

4.1.13 Oil leakage was observed under the generator. The Contractor was reminded to close the knob of the drip tray and clear the oil stain on the ground. Moreover, the drip tray should be cleared and kept tidy.

Chemical and Waste Management

- 4.1.14 Chemical containers were found under Bridge R15a. The Contractor was reminded to provide drip tray or storage the containers properly.
- 4.1.15 The Contractor was reminded to provide a drip tray to hold the oil drums or remove the oil drums.
- 4.1.16 The Contractor was reminded to label chemical containers.

Landscape and Visual Impact

- 4.1.17 No adverse observation was identified in the reporting month.

Miscellaneous

- 4.1.18 The Contractor was reminded to clear the stagnant water inside the waste skip to prevent mosquito breeding.

4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contract 1 Contractor (CSHK) and the Contract 2 Contractor (GCL) are registered as chemical waste producers for Stage 1 of the Project. C&D material sorting was carried out on site. Sufficient numbers of receptacles were available for general refuse collection.
- 4.2.2 As advised by the Contract 1 Contractor (CSHK), 109m³ of inert C&D materials was disposed of to the public fill at Tuen Mun 38 (of which 0m³ was broken concrete), while 20m³ of general refuse was disposed of at the NENT landfill. 114kg of paper/cardboard packaging, 3,773kg of plastics and 0kg of metals were collected by recycling contractors in the reporting month. 1,143m³ and 370m³ of inert C&D materials were reused on site and reused in NENT for backfilling purpose respectively. 0kg of chemical waste was collected by the licensed contractor in the reporting period.
- 4.2.3 As advised by the Contract 2 Contractor (GCL), 150m³ of inert C&D materials was disposed of to Tuen Mun 38 and 225m³ of general refuse was disposed of to the NENT landfill in the reporting period. No paper/cardboard packaging, plastics or metals was collected by the recycling contractors in the reporting month. 0m³ and 260m³ of inert C&D materials were reused on site and reused in other projects respectively Besides, no chemical waste was collected by the licensed contractor in the reporting period.
- 4.2.4 The Contract 1 Contractor (CSHK) and the Contract 2 Contractor (GCL) are advised to maintain on site waste sorting and recording system and maximize reuse / recycle of C&D wastes.

4.3 Environmental Licenses and Permits

- 4.3.1 The environmental licenses and permits for Stage 1 of the Project and valid in the reporting month is summarized in Table 4.1.

Table 4.1 Summary of Environmental Licensing and Permit Status

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		License/ Permit Holder	Remarks
			From	To		
EIAO	Environmental Permit	EP-324/2008/A	31/01/2012	N/A	HyD	Tolo Highway/Fanling Highway between Island House Interchange and Ma Wo
WPCO	Discharge License (Office)	WT00005096-2009	03/12/2009	31/12/2014	CSHK	Discharge at Site Office
	Discharge License (Site)	WT00005445-2009	15/12/2009	31/12/2014	CSHK	Discharge of Construction Runoff
	Discharge License (Office)	WT00006782-2010	25/06/2010	30/06/2015	GCL	Discharge at Site Office
	Discharge License (Site)	WT00007162-2010	09/08/2010	31/07/2015	GCL	Discharge of Construction Runoff
WDO	Chemical Waste Producer Registration	5213-727-C3249-46	25/09/2009	N/A	CSHK	Chemical waste produced in Contract HY/2008/09
		5213-722-G2347-18	18/05/2010	N/A	GCL	Chemical waste produced in Contract HY/2009/08
WDO	Billing Account for Disposal of Construction Waste	7009328	08/09/2009	N/A	CSHK	Waste disposal in Contract HY/2008/09
		7010320	02/03/2010	N/A	GCL	Waste disposal in Contract HY/2009/08
NCO	Construction Noise Permit	GW-RN0561-13	02/10/2013	01/04/2014	CSHK	Modification of Sign Gantry_G11, G13, G70, G73, G74, G75 & G76
		GW-RN0766-13	14/12/2013	23/02/2014	CSHK	Road Paving on Tolo Highway between Ma Wo and NLKRB (Shatin Bound)
		GW-RN0789-13	02/01/2014	31/03/2014	CSHK	Construction works next to MTRC's tracks protection zone
		GW-RN0801-13	28/12/2013	23/02/2014	CSHK	Road Marking Alternation at Tolo Highway at Island House Interchange

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		License/ Permit Holder	Remarks
			From	To		
		GW-RN0807-13	29/12/2013	23/02/2014	CSHK	Road pavement for Slip Road from Tolo Highway to Tai Po Road near Yuen Chau Tsai (Fanling Bound)
		GW-RN0810-13	31/12/2013	23/02/2014	CSHK	Road Paving Reconstruction on Slip Road from Tai Po Road-Yuen Chau Tsai
		GW-RN0812-13	03/01/2014	25/03/2014	CSHK	Sign Gantry at Tolo Highway between Yuen Chau Tsai and Ma Wo
		GW-RN0815-13	04/01/2014	23/02/2014	CSHK	Road Marking Alternation at Tolo Highway between Ma Wo and The Paragon (Fanling Bound)
		GW-RN0819-13	06/01/2014	28/02/2014	CSHK	Road Pavement at Island House on Normal Weekdays
		GW-RN0822-13	11/01/2014	23/02/2014	CSHK	Road Paving on Tolo Highway between Grand Dynasty and The Paragon (Shatin Bound)
		GW-RN0016-14	16/01/2014	28/02/2014	CSHK	Road pavement for Slip Road from Tolo Highway to Tai Po Road near Yuen Chau Tsai (Fanling Bound)
		GW-RN0025-14	17/01/2014	28/02/2014	CSHK	Road Pavement at Tolo Highway between Wan Tau Tong Estate and Tai Po Road (Shatin Bound)
		GW-RN0030-14	21/01/2014	28/02/2014	CSHK	Installation of Sign Gantries G18
		GW-RN0031-14	23/01/2014	01/03/2014	CSHK	Road Resurfacing on Tolo Highway between Ma Wo and Tai Po Road (Fanling Bound)
		GW-RN0039-14	27/01/2014	26/07/2014	CSHK	Construction works at Island House Interchange
		GW-RN0058-14	29/01/2014	01/03/2014	CSHK	Modification of Sign Gantries_G13-17, 66-68 & 70

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		License/ Permit Holder	Remarks
			From	To		
		GW-RN0064-14	29/01/2014	01/03/2014	CSHK	Installation of Noise Barrier on Kwong Fuk West Viaduct
		GW-RN0530-13	03/10/2013	02/02/2014	GCL	Renewal of GW-RN0194-13 Tolo Highway near Tai Po Tau Raw Water Pumping Station
		GW-RN0695-13	17/11/2013	12/05/2014	GCL	General work and asphalt paving at Tolo Highway near Shek Kwu Lung and Ma Wo (CH18.1 - 19.2)
		GW-RN0758-13	12/12/2013	27/02/2014	GCL	General Works at a section of Tolo Highway near Parc Versailles
		GW-RN0785-13	28/12/2013	27/02/2014	GCL	Stitching Construction at Section of Tolo Highway (Shatin Bound) CH19 to CH18.8A
		GW-RN0786-13	19/12/2013	11/06/2014	GCL	Renewal of GW-RN0484-13 Tolo Highway and Fanling Highway near Tai Po Tai Wo Road, Lam Kam Interchange & Tai Wo Service Road West
		GW-RN0795-13	24/12/2013	27/02/2014	GCL	Erection of Sign Gantry at Tolo Highway (Fanling Bound) CH19.9 to CH20.1 near Lam Kam Interchange
		GW-RN0817-13	04/01/2014	28/02/2014	GCL	Renewal of GW-RN0637-13 Erection of Sign Gantry at a section of Tai Po Tai Wo Road Uphill to Tolo Highway Northbound near Shek Kwu Lung
		GW-RN0006-14	12/01/2014	23/02/2014	GCL	Lane Shifting at Tolo Highway CH19.8 - 17.95A near Ma Wo
		GW-RN0018-14	15/01/2014	28/02/2014	GCL	Lane Shifting Works and Modification of Road Marking at

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		License/ Permit Holder	Remarks
			From	To		
						Tolo Highway CH19.9 to CH20.3B
		GW-RN0022-14	17/01/2014	29/03/2014	GCL	Installation of Sign Gantry G26 at Tolo Highway (Fanling Bound) CH19.55 to CH19.65B
		GW-RN0023-14	18/01/2014	28/02/2014	GCL	Installation of Sign Gantry G25 at Tolo Highway (Fanling Bound) CH19.3 to CH19.5B
		GW-RN0037-14	28/01/2014	12/04/2014	GCL	Erection of Sign Gantry G29 at Lam Kam Flyover (Fanling Bound) from CH21.0 to CH21.2B
		GW-RN0052-14	26/01/2014	23/02/2014	GCL	Road Sections of Tolo Highway (South Bound) between Shek Kwu Lung and Dynasty View, Tai Po, New Territories
		GW-RN0057-14	29/01/2014	28/02/2014	GCL	Tolo Highway (Fanling Bound) near Mun Shue Hang, Tai Po, New Territories

4.4 Implementation Status of Environmental Mitigation Measures

- 4.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 4.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C. Most of the necessary mitigation measures were implemented properly.

4.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 4.5.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 4.5.2 For construction noise, no Action and Limit Level exceedance was recorded at all monitoring stations in the reporting period.

4.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 4.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 4.1.
- 4.6.2 One (1) noise-related complaint was received on 27 February 2014 and followed up by the Environmental Team in February 2014. The complaint is still under investigation as of the end of February 2014 and the investigation result will be reported in the next Monthly EM&A Report (March 2014).
- 4.6.3 The details of the complaint are as follows:
- EPD referred a follow-up complaint from a resident of Ma Wo on 27 February 2014. The complainant said that the Contractor caused serious noise nuisance at non-restricted hours.
- 4.6.4 No new notification of summons and prosecution was received in the reporting period.
- 4.6.5 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix L.

5 FUTURE KEY ISSUES

5.1 Construction Programme for the Coming Month

5.1.1 The major construction works for Contract 1 in March 2014 will be:-

- Temporary shoring, sheetpiling and excavation
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier installation
- Asphalt laying
- Installation of drainage pipes

5.1.2 The major construction works for Contract 2 in March 2014 will be:-

- Condition survey of existing structures
- Setting up the temporary traffic arrangement
- Excavation of trial trenches to locate existing utilities
- Construction of haul road
- Construction of concrete profile barrier and beam barrier
- Construction of Pilecap / Spread footing of Noise Barrier / Semi Noise Enclosure
- Slope works, including installation of soil nails
- Noise barrier construction
- Modification of existing bridge structures
- Entrusted watermains works
- Sewer Installation
- Road and drainage works
- Landscaping works

5.2 Key Issues for the Coming Month

5.2.1 Key issues to be considered in March 2014:-

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Site runoff should be properly collected and treated prior to discharge;
- 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;
- Suppress dust generated from excavation, breaking and drilling activities, haul road traffic and grout mixing process;
- Quieter powered mechanical equipment should be used;
- Closely check and replace the sound insulation materials wrapped at the concrete breaker tip regularly;
- Better scheduling of construction works to minimize noise nuisance; and
- Tree protective measures for all retained trees should be well maintained.

5.3 Monitoring Schedule for the Coming Month

5.3.1 The tentative schedule for environmental monitoring in March 2014 is provided in Appendix F.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

- 6.1.1 The construction phase and EM&A programme of Stage 1 of the project commenced on 23 November 2009.
- 6.1.2 1-hour TSP, 24-hour TSP and noise monitoring were carried out in the reporting period.
- 6.1.3 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting period.
- 6.1.4 No Action and Limit Level exceedance for construction noise was recorded at all monitoring stations in the reporting month.
- 6.1.5 Environmental site inspection was carried out 8 times in February 2014. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.6 One (1) noise-related complaint was received on 27 February 2014 and followed up by the Environmental Team in February 2014. The complaint is still under investigation as of the end of February 2014 and the investigation result will be reported in the next Monthly EM&A Report (March 2014).
- 6.1.7 No new notification of summons and prosecution was received in the reporting period.

6.2 Recommendations

- 6.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:-

Air Quality Impact

- The soil stockpiles should be properly covered.
- The grouting station should be properly sheltered as one of the dust control measures

Construction Noise Impact

- Properly erect the temporary noise barriers in accordance with the Environmental Permit requirement.
- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.
- Sound insulation materials shall be wrapped at the breaker tip for concrete breaking works.

Water Quality Impact

- Preventive measures should be implemented to avoid the spread of mud trails on the public road.
- Silty effluent should be treated/desilted before discharged. Untreated effluent should be prevented from entering public drain channel.
- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.
- Stagnant water accumulated within works area should be removed.

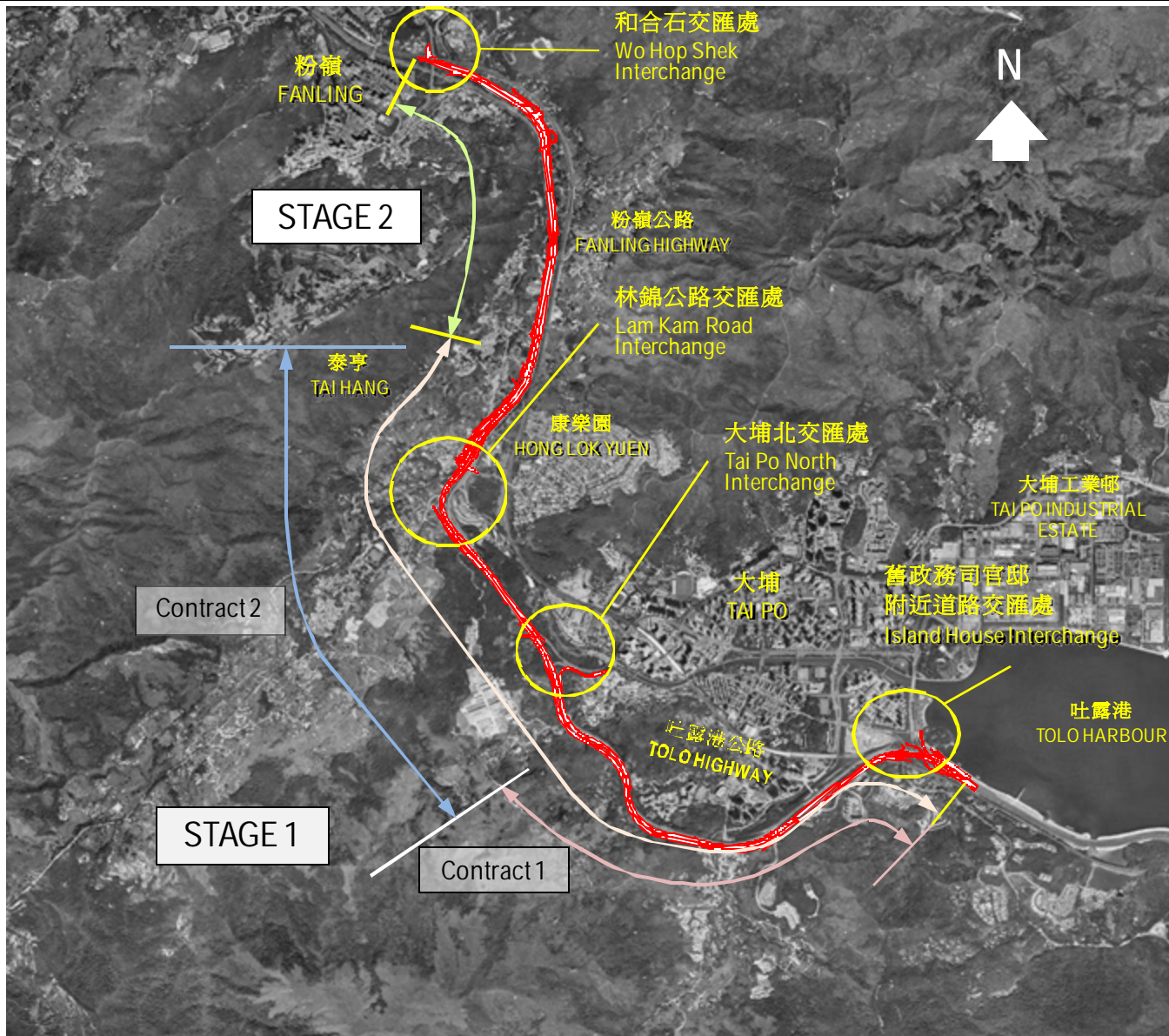
Chemical and Waste Management

- C&D materials and wastes, general refuse should be sorted properly and removed timely.
- All chemical containers and oil drums should be properly stored.
- All plants and vehicles on site should be properly maintained to prevent oil leakage.
- All drain holes of the drip trays utilized within works areas should be properly plugged to avoid any oil leakage.
- Oil stains on soil surface and empty chemical containers should be cleared and disposed of as chemical waste.
- Drip tray should be provided to prevent oil leakage.
- Only the recycling materials should be dumped into the appropriate recycling bins.

Landscape and Visual Impact

- All retained trees should be properly fenced off at the works area.

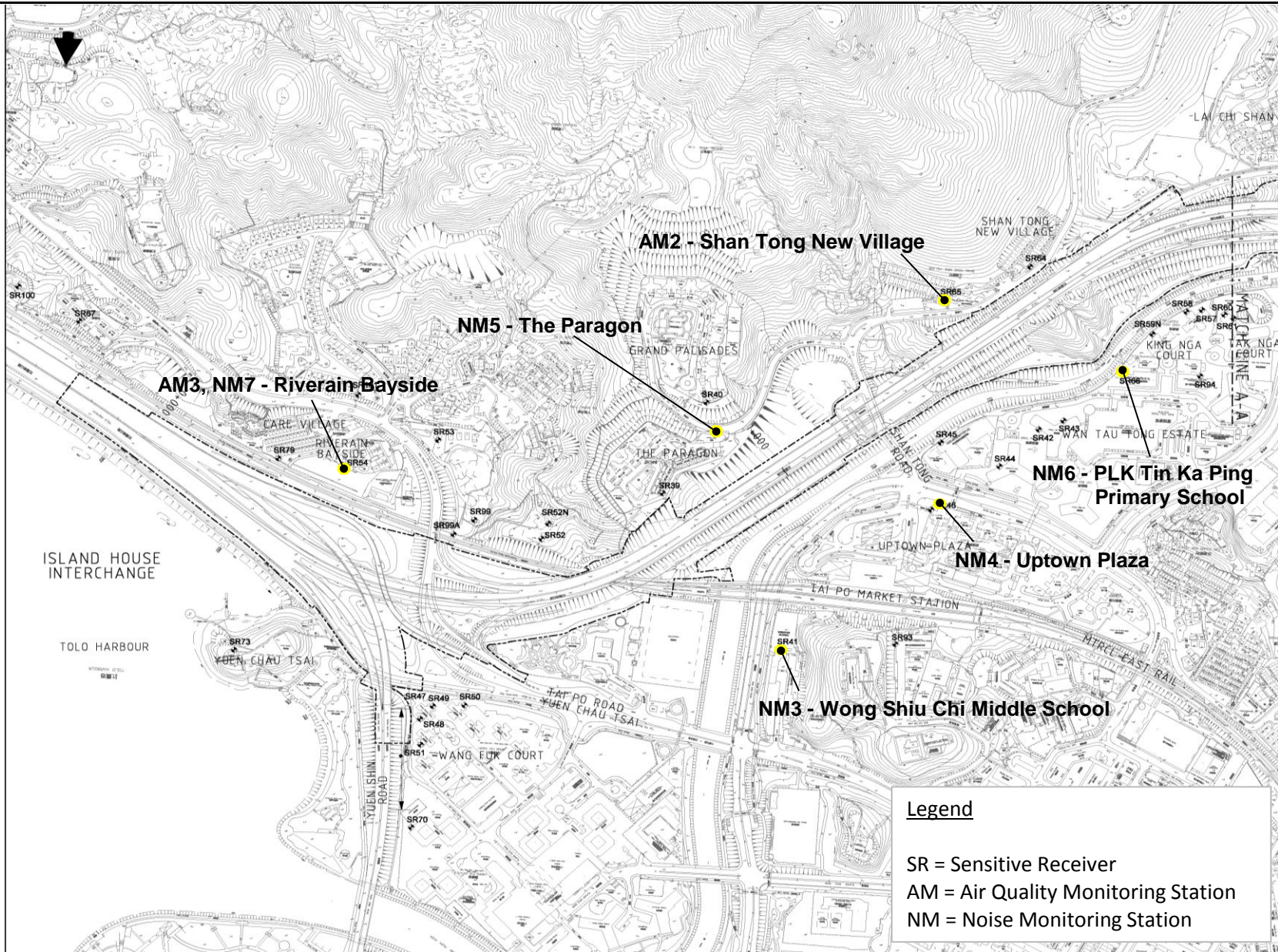
FIGURES



Environmental Team for the Widening of Tolo Highway between
Island House Interchange and Tai Hang - Investigation

General Project Layout Plan

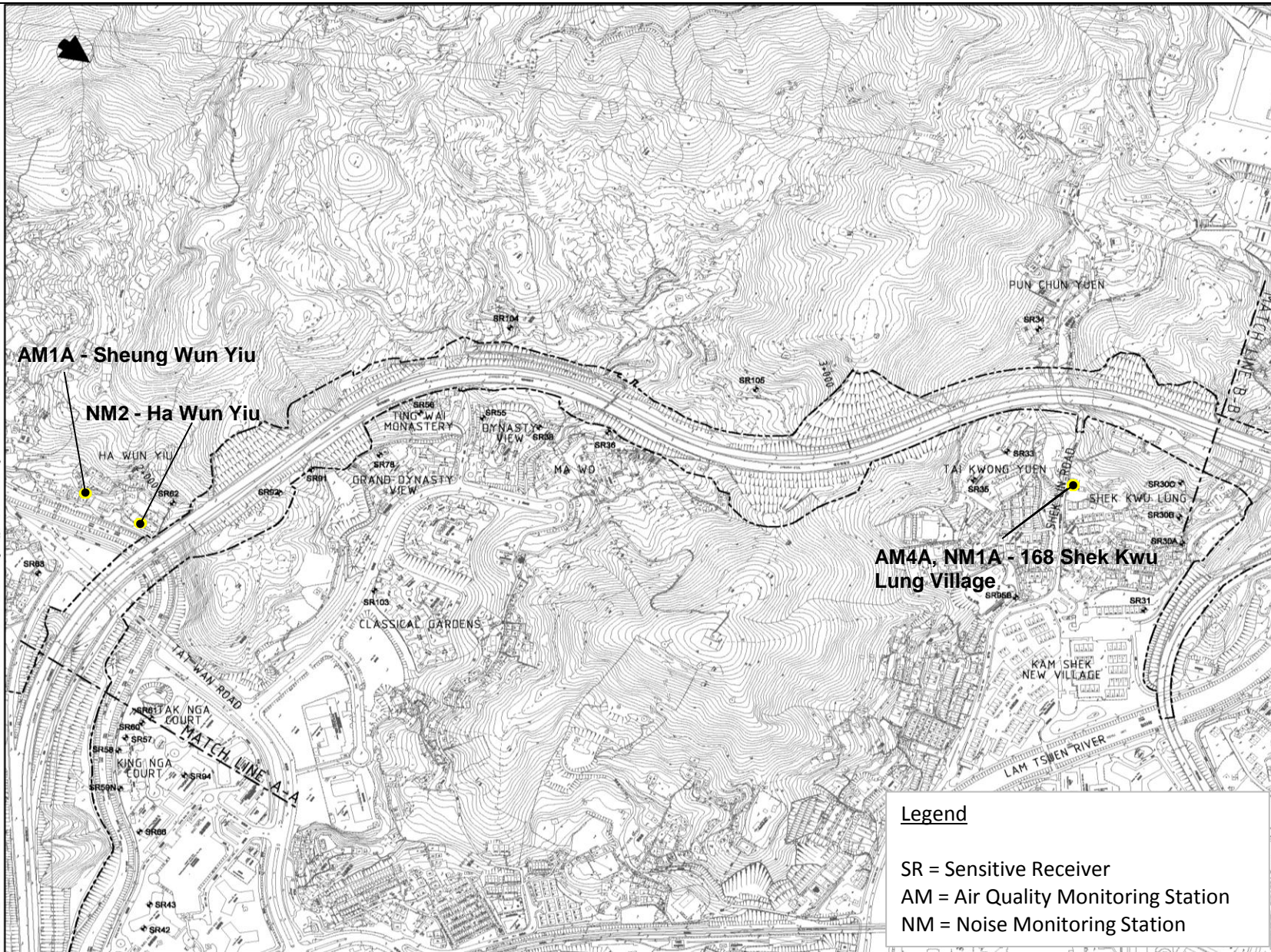
SCALE	N.T.S.	DATE	Dec-09
CHECK	ENFL	DRAWN	RWHW
JOB NO.	60102979	FIGURE NO.	1.1
			Rev 0



Legend

SR = Sensitive Receiver
 AM = Air Quality Monitoring Station
 NM = Noise Monitoring Station

AECOM	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Sep-11
	EM&A Monitoring Locations (Sheet 1 of 2)	CHECK	ENFL	DRAWN	LCHC
		JOB NO.	60102979	FIGURE NO.	2.1



Legend

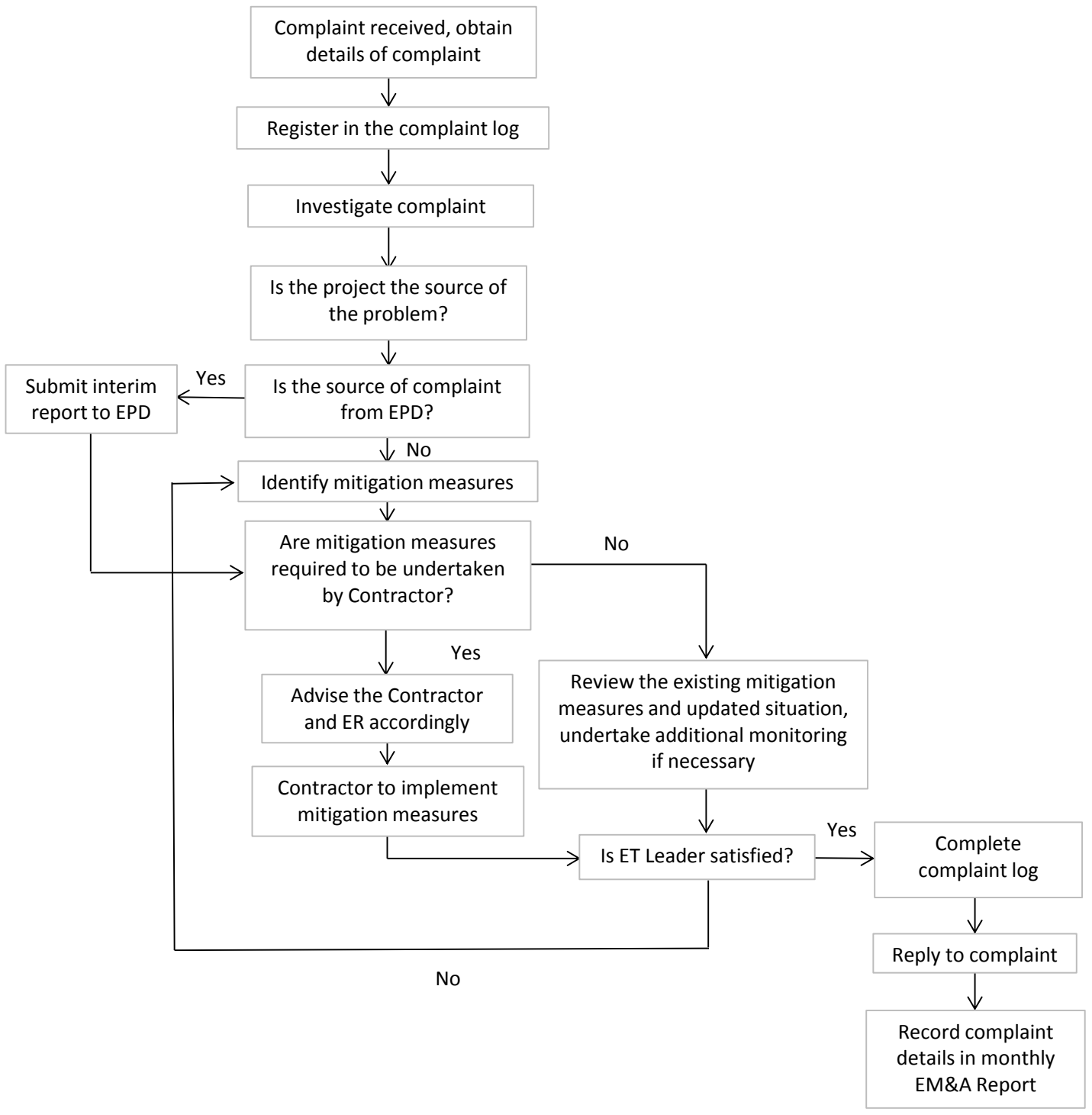
SR = Sensitive Receiver
 AM = Air Quality Monitoring Station
 NM = Noise Monitoring Station



**Environmental Team for the Widening of Tolo Highway between
 Island House Interchange and Tai Hang - Investigation**

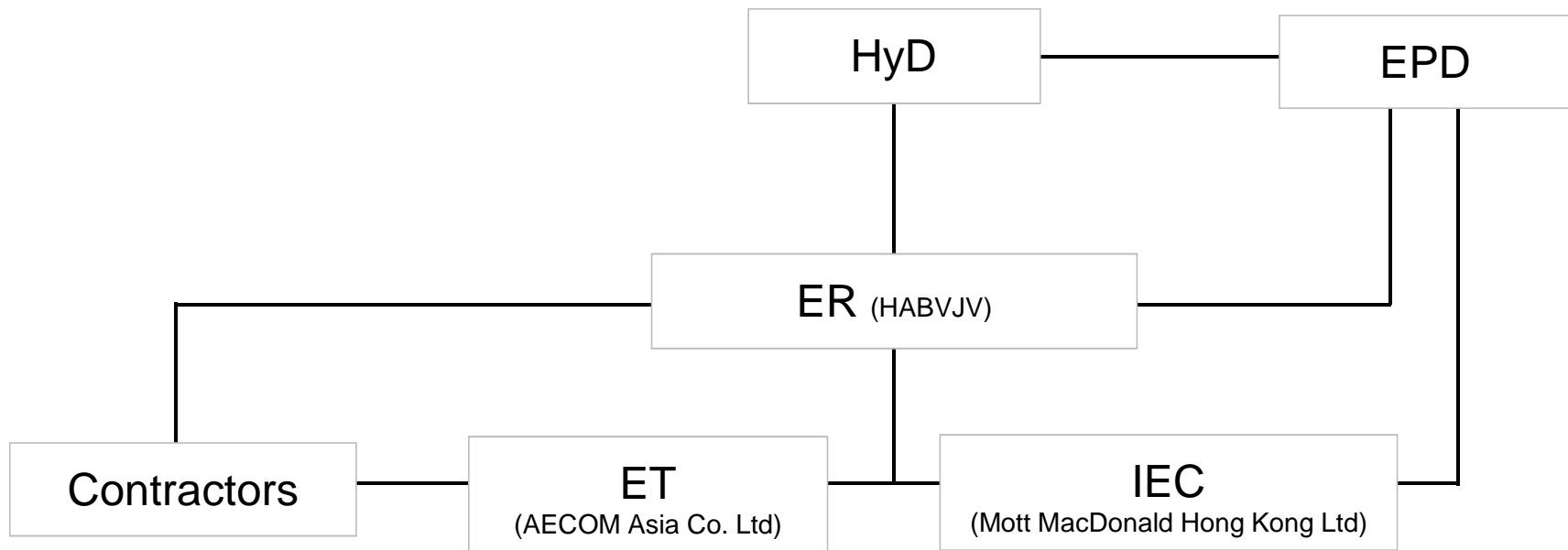
EM&A Monitoring Locations (Sheet 2 of 2)

SCALE	N.T.S.	DATE	Sep-11
CHECK	ENFL	DRAWN	LCHC
JOB NO.	60102979	FIGURE NO.	2.1
		Rev	0



AECOM	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-13
		CHECK	ENFL	DRAWN	CHCL
	Environmental Complaint Handling Procedure	JOB NO.	60102979	FIGURE	4.1

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



**Environmental Team for the Widening of Tolo Highway between
Island House Interchange and Tai Hang - Investigation**

Project Organization Structure

SCALE	N.T.S.	DATE	2009
CHECK	ENFL	DRAWN	RWHW
JOB NO.	60102979	APPENDIX	Rev
		A	-

**APPENDIX B
CONSTRUCTION PROGRAMMES**

Activity ID	Activity Name	Original Durat...	Start	Finish	2014														
					February			March			April			May					
					9	26	02	09	16	23	02	09	16	23	30	06	13	20	27
KEY DATES																			
Section Completion																			
Section Completion Date																			
Key Date																			
KD-300900	KD9 Section 9 Area SA1, 3 to 9A Road Maintenance (1580)	0		23-Feb-14*															
KD-300200	KD2 Section 2 Areas SA8,SA9 + SA9A Work (1052d)	0		31-Mar-14*															
KD-300600	KD6 Section 6 Remainder Landscape Softwork (1355d)	0		03-May-14*															
SOFT LANDSCAPE IN SA1: SECT. 5 WORKS																			
Landscaping Works																			
Landscape Works																			
S5-212800	Areas SA1 Irrigation + Landscape Soft Works	30	01-May-14	30-May-14															
REMAINDER OF SOFT LANDSCAPE: SECT. 6 WORKS																			
Landscaping Works																			
Landscape Works																			
S6-212800	Remainder Irrigation + Landscape Soft Works	30	03-Apr-14	03-May-14															
REMAINDER OF ESTABLISHMENT WORKS: SECT. 8 WORKS																			
Establishment Works																			
Landscape and Establishment Works																			
S8-214800	Remainder - Establishment Works	365	03-May-14	03-May-15															
ROUTINE MAINTENANCE: SECT. 9 WORKS																			
Road Maintenance																			
Routine Maintenance of Road Network																			
S9-100000	Road Maintenance of Road Network	1401	22-Feb-10 A	23-Feb-14*															
Z1: CH 0 to CH 500: SECT. 1 WORKS																			
Noise Barrier at Kwong Fuk West																			
Noise Barrier at Kwong Fuk West Viaduct																			
Noise Barrier Foundation Works																			
S1-180510A040	Pier Head (incl. all cast-in item)-PC5A(Tradition formwork)	9	21-Oct-13 A	22-Feb-14															
S1-180700A	KFWV structural steel, (bay 1-5)	18	09-Apr-14	01-May-14															
S1-180810	KFWV structural steel, (bay 5-7)	26	09-Apr-14	12-May-14															
S1-180800	KFWV Panel Installation, (bay 1-5)	14	02-May-14	19-May-14															
S1-180820	KFWV Panel Installation, (bay 5-7)	26	13-May-14	12-Jun-14															
TCSS Works/Other Utilities																			
S1-180905	Civil prov. works (CPW)- TCSS Pillar Box B	18	15-Mar-14	04-Apr-14															
TCSS Works																			
New Sign Gantry Construction																			
G18 (VO205 Slip Road)																			
GS1810	G18 Footing construction besides Slip road	25	20-Nov-13 A	22-Jan-14 A															
GS1802	VO341 - Reconstruct existing drain pipe at G18 LHS footing	20	27-Dec-13 A	15-Mar-14															
GS1790	Erect column besides slip road & Gantry Beam	4	23-Jan-14 A	24-Jan-14 A															
GS1860	Design information by Engineer for existing NB modification available	0	20-Feb-14																
GS1870	Existing NB modification	14	17-Mar-14	01-Apr-14															
Existing Sign Gantry Modification																			
G19 (VO: New Gantry Modification without drawing)																			
GS2650	Carry out Sign Gantry modification (LCS, TCSS etc)-New Gantry	14	20-Feb-14	07-Mar-14															
GS2660	Speed Enforcement Camera installation	2	08-Mar-14	10-Mar-14															
GS2670	VSLs and VDS installation	2	11-Mar-14	12-Mar-14															
TCSS E&M Works & Handover																			
S1-700075	T&C - Lighting	20	16-Apr-14	12-May-14															
S1-700080	T&C - power supply system to TCSS	20	16-Apr-14	12-May-14															
Southbound Work- Ret. Wall, Noise B, Rd NB6, and Slope S4																			
High Mast Lighting																			
S1-203068	Install/delete lamps at high mast HM2 & HM3	18	20-Feb-14	12-Mar-14															
Noise Barrier NB6																			
S1-207055	NB production period	10	10-Apr-13 A	22-Feb-14															
S1-207060	NB6 Structural Steel	6	24-Feb-14	01-Mar-14															
S1-208060	NB6 NB Panels	5	03-Mar-14	07-Mar-14															
Road Lighting/ or High Mast																			
S1-700050	Cabling works for utilities/Lighting	20	20-Feb-14	14-Mar-14															
S1-203067	Relocate pillar box for high mast HM1 - HM10	18	15-Mar-14	04-Apr-14															
S1-700070	Pillar Box + MCB Board installation	18	15-Mar-14	04-Apr-14															
Cut Slope S4																			
S1-031060B	Cut Slope S4 - drainage/ u channels	20	15-Oct-13 A	14-Mar-14															
SB Road & Drain, Ch 0-300, after NB3																			



Contract: HY/2008/09
Widening of Tolo Highway / Fanling Highway
Between Island House Interchange and Fanling
(Stage 1 - Between Island House Interchange and Ma Wo)

Three Months Rolling Programme
for the Period of 21 Feb 2014 to 20 May 2014

Activity ID	Activity Name	Original Durat...	Start	Finish	2014															
					February					March					April				May	
					9	26	02	09	16	23	02	09	16	23	30	06	13	20	27	04
TCSS Works/Other Utilities																				
S1-035045	TCSS P57 - footing	14	20-Nov-13 A	27-Feb-14	TCSS P57 - footing															
S1-035055	TCSS S167 - footing	14	28-Feb-14	15-Mar-14	TCSS S167 - footing															
Road Lighting/ or High Mast																				
S1-051215A	Public Lighting - cabling works	18	26-Mar-14*	15-Apr-14	Public Lighting - cab															
S1-051215B	Public Lighting - power supply connection & test	18	26-Mar-14	15-Apr-14	Public Lighting - pov															
Roadworks																				
S1-051230	Roadworks- 4th TTA - fast lane	26	30-Dec-13 A	26-Jan-14 A	Roadworks- 4th TTA - fast lane															
NB6 and Slope S4A, after TB1 demolition																				
Noise Barrier NB6 (remaining 1 bay after TB1 removal)																				
S1-208130	NB6 Structural Steel	10	24-Feb-14*	06-Mar-14	NB6 Structural Steel															
S1-208135	NB6 NB Panels	6	07-Mar-14	13-Mar-14	NB6 NB Panels															
Cut Slope S4A																				
S1-208140A	Cut Slope S4A - excavation	30	24-Oct-13 A	14-Feb-14 A	Cut Slope S4A - excavation															
S1-208140B	Cut Slope S4A - u channels	30	20-Feb-14	26-Mar-14	Cut Slope S4A - u channels															
NB11, Slope S4B & F124, after TB2 dem.																				
High Mast Lighting																				
S1-200112	High Mast HM5 - footing + relocation + lamp	30	14-Feb-14 A	26-Mar-14	High Mast HM5 - footing + reloca															
Noise Barrier NB11																				
S1-207110	NB11 Structural Steel	10	17-Mar-14*	27-Mar-14	NB11 Structural Steel															
S1-208110	NB11 NB Panels	10	28-Mar-14	08-Apr-14	NB11 NB Panels															
Cut Slope S4B, S4C																				
S1-031032	Pending design of slope profile	10	20-Feb-14	03-Mar-14	Pending design of slope profile															
S1-031040A	Cut Slope S4B, S4C - excavation	21	04-Mar-14*	27-Mar-14	Cut Slope S4B, S4C - excavation															
S1-031040B	Cut Slope S4B, S4C - drainage/ channels	48	04-Mar-14	30-Apr-14	Cut Slope															
South Bound Road and Drain, Ch 300-500																				
Road Drainage																				
S1-051347	Road Drainage - pipelayinng + manhole, L=200	7	08-Jan-14 A	24-Jan-14 A	Road Drainage - pipelayinng + manhole, L=200															
Firemain																				
S1-051305	Firemain- excav, pipe install + pit/new hydrants	14	26-Feb-14*	13-Mar-14	Firemain- excav, pipe install + pit/new hyc															
TCSS Works/Other Utilities																				
S1-051325	Utilities & TCSS buried ducts	24	26-Feb-14	25-Mar-14	Utilities & TCSS buried ducts															
S1-051303	Civil prov. works (CPW)- TCSS Pillar Box A	18	15-Mar-14	04-Apr-14	Civil prov. works (CPW)- TC															
Road Lighting/ or High Mast																				
S1-051350	Public Lighting - Lamp Pole + Lamps	18	26-Nov-13 A	07-Mar-14	Public Lighting - Lamp Pole + Lamps															
S1-051350A	Public Lighting - cabling works	18	17-Mar-14*	05-Apr-14	Public Lighting - cabling wo															
S1-051350B	Public Lighting - power supply connection & test	18	17-Mar-14	05-Apr-14	Public Lighting - power sup															
Roadworks																				
S1-051355	Roadworks- 4th TTA - Fast lane	19	30-Dec-13 A	26-Jan-14 A	Roadworks- 4th TTA - Fast lane															
S1-051360	South Bound Road CH300-500 Complete	0	26-Jan-14 A		South Bound Road CH300-500 Complete															
Central Median Work- Noise Barrier + Road/Drain																				
Noise Barrier NB3 CH0-357																				
Road Lighting/ or High Mast																				
S1-208040	Public Lighting - Lamp Pole + Lamps	18	22-Aug-13 A	04-Mar-14	Public Lighting - Lamp Pole + Lamps															
S1-208040A	Public Lighting - cabling works	18	22-Aug-13 A	04-Mar-14	Public Lighting - cabling works															
S1-208040B	Public Lighting - power supply connection & test	18	17-Mar-14*	05-Apr-14	Public Lighting - power sup															
Noise Barrier NB10 CH444-500, after TB2 demolition																				
Noise Barrier Foundation Works																				
S1-200094	Pending VO for searching existing ducting for TCSS works	10	20-Feb-14	03-Mar-14	Pending VO for searching existing ducting for T															
Noise Barrier Structural Steel & Panels																				
S1-207100	NB10 Structural Steel + Lighting	12	02-Nov-13 A	18-Feb-14 A	NB10 Structural Steel + Lighting															
S1-208100	NB10 NB Panels	12	18-Feb-14 A	20-Feb-14 A	NB10 NB Panels															
Northbound Work- Ret. Wall, Noise B, Rd																				
RW W1+ NB1+S1, NB2 Ch200-300																				
Noise Barrier NB1																				
S1-208015	Northbound work Complete	0	15-Mar-14		Northbound work Complete															
Cut Slope S1																				
S1-031015020	Fill Slope S1- drainage	26	18-Oct-13 A	14-Mar-14	Fill/Slope S1- drainage															
S1-031015015	Fill Slope S1- backfilling (remaining 50% after relocation of HM7)	57	20-Nov-13 A	14-Mar-14	Fill/Slope S1- backfilling (remaining 50%															
Northbound Rd/ Dr, Ch 0-300, after NB3																				
Roadworks																				
S1-051135	Drainage at Slow Lane	15	20-Nov-13 A	22-Jan-14 A	Drainage at Slow Lane															
S1-051145	Implement TTA	0	20-Jan-14 A		Implement TTA															
Slip Rd A after Banyan West Completion																				
Slip Rd A																				
S1-051155	Slip Road A - drainage + road reconstruction	175	20-Oct-12 A	07-Apr-14	Slip Road A - drainage +															
NB2 & Slope S2, after TB1 demolition																				
High Mast Lighting																				
S1-031037	High Mast HM6 - footing, relocation + lamp	15	28-Feb-14*	17-Mar-14	High Mast HM6 - footing, relocation + l															
S1-031039	High Mast HM10 - install/delete lamps	6	18-Mar-14	24-Mar-14	High Mast HM10 - install/delete la															
Noise Barrier NB2																				
S1-031055	NB2 Structural Steel	10	17-Feb-14 A	17-Feb-14 A	NB2 Structural Steel															



Contract: HY/2008/09

**Widening of Tolo Highway / Fanling Highway
Between Island House Interchange and Fanling
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**Three Months Rolling Programme
for the Period of 21 Feb 2014 to 20 May 2014**

Activity ID	Activity Name	Original Durat...	Start	Finish	2014															
					February				March				April				May			
					9	26	02	09	16	23	02	09	16	23	30	06	13	20	27	04
S1-031065	NB2 NB Panels	10	20-Feb-14	03-Mar-14																
Cut Slope S2																				
S1-031025B	Cut Slope S2- channel (Pending for Slope Profile design)	30	01-Mar-14	04-Apr-14																
NB9, Slope F121, S5, (after TB2 demolition)																				
Noise Barrier NB9																				
S1-200130	NB9 Structural Steel	5	17-Feb-14 A	27-Feb-14																
S1-200135	NB9 NB Panels	5	28-Feb-14	05-Mar-14																
Cut Slope S5																				
S1-200140	Slope F121 + S5 (Pending for Slope Profile design)	28	20-Feb-14*	24-Mar-14																
North Bound Road and Drain, Ch 300-500																				
Road Drainage																				
S1-200155	Road Drainage - pipelaying + manhole	15	22-Nov-13 A	14-Feb-14 A																
Firemain																				
S1-200170	Firemain- excav, pipe install + pit/new hydrants	9	10-Mar-14*	19-Mar-14																
TCSS Works/Other Utilities																				
S1-200180	Utilities & TCSS buried ducts	15	10-Jan-14 A	17-Mar-14																
Road Lighting/ or High Mast																				
S1-200205	Public Lighting - Lamp Pole + Lamps	15	10-Dec-13 A	19-Mar-14																
S1-200175	Public Lighting - buried ducts	15	03-Mar-14*	19-Mar-14																
Roadworks																				
S1-200215	complete	0	19-Mar-14																	
Z2: CH 500 to CH 1100: SECT. 4 WORKS																				
Zone 2: CH500 to Ch1100 (Section 4 Works)																				
VO No.28 (VO 211) - Diversion of Existing Stormwater Drain in Kwong Fuk Park																				
VO28-1085	Town Gas installation works (from main to complete connection to ...	50	05-Dec-13 A	31-Mar-14																
VO28-1090	Backfill Topsoil Manhole Z to P	18	01-Apr-14	23-Apr-14																
VO28-1150	Completion of VO28	0		23-Apr-14																
WM Test+Drain CCTV+ E&M Works																				
TCSS E&M Works & Handover																				
S4-208355	Cabling works for Utilities/TCSS/Lighting	22	20-Sep-13 A	31-Mar-14																
S4-208370	T&C - power supply system to TCSS/Lighting	6	25-Mar-14	31-Mar-14																
Section Completion																				
Section Completion Date																				
KD-300400A	ZONE 2 COMPLETE - KD4 Section 4	0		01-May-14																
Stage 1: Southbound Work- Ret. Wall, Noise B, Rd																				
NLKR - Bridge Deck + Noise Barrier																				
Bridge Deck																				
S4-N01375	Noise barrier Post	7	01-Apr-14*	08-Apr-14																
S4-N01385	Noise barrier panel	9	09-Apr-14	19-Apr-14																
RW W4-W7+Slope S7+NB15, NB12+Slip Rd L																				
Noise Barrier NB12																				
S4-208120	NB12 NB Panels	454	01-Feb-12 A	20-Feb-14																
S4-208270	NB12 (bay 1-3) NB Panel	6	10-Mar-14*	15-Mar-14																
Cut Slope S6 and Slip Rd L																				
S1-203065A	Cut slope S6 - excavation	403	01-Feb-12 A	28-Feb-14																
S1-203065B	Cut slope S6 - drainage/U-channels	11	01-Mar-14*	13-Mar-14																
Fill Slope S7																				
S4-031070A	Fill Slope S7- backfilling to RW coping level	1066	07-May-10 A	18-Feb-14 A																
S4-031070B	Fill Slope S7- backfilling to road level	1016	20-Jul-10 A	22-Mar-14																
S4-031070C	Fill Slope S7- u channels	24	06-Mar-14	03-Apr-14																
S4-031070D	Fill Slope S7- metal works + hand rails etc.	18	20-Mar-14	10-Apr-14																
Retaining Wall W7																				
S4-035070B	Retaining Wall W7, backfill (assumed rockfill as VO No. 90)	23	11-Dec-13 A	18-Feb-14 A																
SB: CH500-1100, Road&Drain+Utilities																				
TCSS Works/Other Utilities																				
S4-512850	Civil prov. works (CPW)- TCSS Pillar Box C	20	20-Sep-13 A	31-Mar-14																
S4-512880	Utilities+ TCSS + CPW- SC 63/S63	14	16-Oct-13 A	31-Mar-14																
S4-031160	Power supply cable ducts	31	20-Nov-13 A	31-Mar-14																
Road Lighting/ or High Mast																				
S4-031178	Public lighting - Lamp Pole + Lamps	12	18-Oct-13 A	31-Mar-14																
S4-031178A	Public Lighting - cabling works	6	18-Oct-13 A	31-Mar-14																
S4-031178A10	Public Lighting - cabling works	13	20-Feb-14	06-Mar-14																
S4-512930	Public lighting - Lamp Pole + Lamps	21	07-Mar-14	31-Mar-14																
S4-031178B10	Public Lighting - power supply connection & test	12	18-Mar-14	31-Mar-14																
S4-031178B	Public Lighting - power supply connection & test	4	27-Mar-14	31-Mar-14																
Stage 3: Central Median - Ret. Wall, Noise B, Rd																				
Noise Barrier NB10, NB14, NB17 Foundation Works																				
Noise Barrier NB10																				
S4-203195	NB10 (5,6 bays) Steel Column & NB Panel	14	28-Nov-13 A	28-Feb-14																



Contract: HY/2008/09

Widening of Tolo Highway / Fanling Highway
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Three Months Rolling Programme
for the Period of 21 Feb 2014 to 20 May 2014

Activity ID	Activity Name	Original Durat...	Start	Finish	2014													
					February				March				April				May	
					9	26	02	09	16	23	02	09	16	23	30	06	13	20
CM: CH500-1100, Road&Drain+Utilities																		
TCSS Works/Other Utilities																		
S4-208305	Power supply cable ducts	36	14-Aug-13 A	15-Mar-14	Power supply cable ducts													
S4-208300	Utilities+TCSS buried ducts + civil prov. works	48	16-Aug-13 A	15-Mar-14	Utilities+TCSS buried ducts + civil prov.													
Road Lighting/ or High Mast																		
S4-208325A	Public Lighting - cabling works	18	20-Sep-13 A	15-Mar-14	Public Lighting - cabling works													
S4-208325	Public lighting - Lamp Pole + Lamps	21	20-Feb-14	15-Mar-14	Public lighting - Lamp Pole + Lamps													
S4-208325B	Public Lighting - power supply connection & test	15	27-Feb-14	15-Mar-14	Public Lighting - power supply connectio													
Roadworks																		
S4-208315	Roadworks - base course to friction course	11	06-Dec-13 A	26-Jan-14 A	Roadworks - base course to friction course													
S4-208320	Roadworks - road marking + furnitures	16	31-Dec-13 A	26-Jan-14 A	Roadworks - road marking + furnitures													
S4-208335	Central Median Works Complete	0	01-Mar-14		◆ Central Median Works Complete													
Stage 2: Northbound Work- Ret. Wall, Noise B, Rd																		
Mod. Existing Lam Kam Railway Br. +Noise B.																		
S4-193900	LKRB NB plinth at slow lane (besides W4A)	75	13-Jan-14 A	28-Mar-14	LKRB NB plinth at slow lane (be													
S4-193910	NB steel post installation	8	14-May-14	30-May-14														
Noise Barrier NB16																		
Noise Barrier Foundation Works																		
S4-513145	NB16 - (5-7) bay Remaining Wall Stem & plinth	42	06-Dec-13 A	15-Mar-14	NB16 - (5-7) bay Remaining Wall Stem &													
S4-513150	NB16 - Drainage work	26	16-Dec-13 A	31-Mar-14	NB16 - Drainage work													
S4-513160	NB16 - Backfilling	12	18-Mar-14	31-Mar-14	NB16 - Backfilling													
Noise Barrier Structural Steel & Panels																		
S4-207160	NB16 Structural Steel	10	29-Apr-14	10-May-14	NB16													
S4-208160	NB16 NB Panels	10	12-May-14	22-May-14														
Retaining Wall W4A & NB13 & Slip Rd M																		
Retaining Wall W4A																		
S4-03504A040	RW W4A (last 4 bays) excavation + base slab+wall thickening	30	06-Jan-14 A	15-Apr-14	RW W4A (last 4 bay													
S4-03504A070	VO164 - L3 Containment barrier	44	24-Feb-14*	15-Apr-14	VO164 - L3 Containm													
S4-03504A050	RW W4A (last 4 bays), wall stem	30	16-Apr-14	26-May-14														
NB: CH500-1100, Road&Drain+Utilities																		
Road Drainage																		
S4-031210	Road Drainage - pipelayinng + manhole	44	02-Jul-13 A	31-Mar-14	Road Drainage - pipelayinng -													
Firemain																		
S4-031220	Firemain- excav, pipe install + pit/new hydrants	36	25-Jul-13 A	30-Apr-14	Firemain-													
TCSS Works/Other Utilities																		
S4-031225	Utilities + TCSS + CPW- SC 20/S20	36	17-Jul-13 A	30-Apr-14	Utilities + T													
S4-031230	Power supply cable ducts	36	20-Jul-13 A	30-Apr-14	Power sup													
Road Lighting/ or High Mast																		
S4-031250A	Public Lighting - cabling works	18	04-Oct-13 A	31-Mar-14	Public Lighting - cabling works													
S4-031250	Public lighting - Lamp Pole + Lamps	24	20-Dec-13 A	30-Apr-14	Public light													
S4-031250B	Public Lighting - power supply connection & test	18	08-Apr-14	30-Apr-14	Public Ligh													
Roadworks																		
A1170	NB16 - Road Re-construction for (HS)	22	01-Apr-14	28-Apr-14	NB16 - Roa													
S4-031260	Northbound road substantial completed in Zone 2	0	01-May-14		◆ Northbound													
Z3: CH 1100 to CH 2000: SECT. 4 WORKS																		
Section Completion																		
Section Completion Date																		
KD-300400B	ZONE 3 COMPLETE - KD4 Section 4	0		12-Apr-14	◆ ZONE 3 COMPLETE -													
TCSS Works																		
TCSS E&M Works & Handover																		
S4-0512765	Cabling works for Utilities/TCSS/Lighting	24	20-Sep-13 A	31-Mar-14	Cabling works for Utilities/TCSS													
S4-0512780	T&C - power supply system to TCSS/Lighting	36	20-Sep-13 A	31-Mar-14	T&C - power supply system to													
S4-0512785	Handover to TCSS Contractor	0		31-Mar-14	◆ Handover to TCSS Contractor													
Stage 1: Southbound Work- Ret. Wall, Noise B, Rd																		
Fill Slope S13 and NB21																		
Fill Slope S13																		
S4-031130C	Fill Slope S13- u channels	363	12-Mar-12 A	17-Mar-14	Fill Slope S13- u channels													
S4-031130D	Fill Slope S13- metal works + hand rails etc.	236	15-Aug-12 A	17-Mar-14	Fill Slope S13- metal works + hand rail													
SB: CH1260-1600, L=410m, Road&Drain+Utilities																		
Roadworks																		
S4-0507845	Roadworks - base course to friction course	219	31-Aug-12 A	26-Jan-14 A	Roadworks - base course to friction course													
S4-0507850	Roadworks - road marking + furnitures	244	31-Aug-12 A	26-Jan-14 A	Roadworks - road marking + furnitures													
S4-0507865	Complete (divert SB traffic to RW10, B11A, RW8 area)	0	26-Jan-14 A		◆ Complete (divert SB traffic to RW10, B11A, RW8 area)													
Stage 3: Central Median - Ret. Wall, Noise B, Rd																		
CM: CH1260-1600, L=410m, Road&Drain+Utilities																		
TCSS Works/Other Utilities																		
S4-0512710	Power supply cable ducts	91	20-Feb-13 A	03-Mar-14	Power supply cable ducts													
Road Lighting/ or High Mast																		
S4-051273A	Public Lighting - cabling works	91	20-Feb-13 A	01-Mar-14	Public Lighting - cabling works													



Contract: HY/2008/09
Widening of Tolo Highway / Fanling Highway
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Activity ID	Activity Name	Original Durat...	Start	Finish	2014																			
					February					March					April					May				
					19	26	02	09	16	23	02	09	16	23	30	06	13	20	27	04	11			
S4-051273B	Public Lighting - power supply connection & test	9	20-Feb-14	01-Mar-14																			Public Lighting - power supply connection & test	
Roadworks																								
S4-0512740	Road Works completed	0	03-Mar-14																					Road Works completed
Noise Barrier Structural Steel & Panels																								
S4-208200	NB20 & NB23 NB Panels	160	15-Dec-12 A	01-Mar-14																				NB20 & NB23 NB Panels
W20A + Slope S20																								
Cut Slope S20A																								
S4-03120AA	Cut Slope S20A - excavation	30	20-Jan-14 A	04-Mar-14																				Cut Slope S20A - excavation
S4-03120AB	Cut Slope S20A - drainage/channels	30	21-Feb-14	27-Mar-14																				Cut Slope S20A - drainage/channels
Stage 2: Northbound Work- Ret. Wall, Noise B, Rd																								
Modification of Existing Bridge No. 10 + Noise B																								
Bridge Roadworks & Furnitures																								
S4-194880	Install noise barrier (1st half from east end)	36	20-Feb-14	02-Apr-14																				Install noise barrier (1st half from east end)
S4-194889	Install noise barrier (2nd half to west end)	40	20-Feb-14	07-Apr-14																				Install noise barrier (2nd half to west end)
S4-194899	Road Surfacing & Furnitures	18	20-Feb-14	12-Mar-14																				Road Surfacing & Furnitures
S4-194990	Bridge No. 10 Modification Completion	0		12-Mar-14																				Bridge No. 10 Modification Completion
Modification of Existing Bridge No.11 + Noise B																								
Bridge Roadworks & Furnitures																								
S4-195895	Road Surfacing & Furnitures after stitching	18	20-Jan-14 A	18-Feb-14 A																				Road Surfacing & Furnitures after stitching
S4-195910	Install Noise barrier panel	30	20-Feb-14	26-Mar-14																				Install Noise barrier panel
S4-195900	Bridge No. 11 Modification Completion	0		26-Mar-14																				Bridge No. 11 Modification Completion
RW W9, Slope S9, & Noise Barrier NB19, NB22																								
Noise Barrier NB19																								
S4-207190	NB19 Structural Steel, 10 bays	35	20-Feb-14*	01-Apr-14																				NB19 Structural Steel, 10 bays
S4-207190A	NB19 Structural Steel, 21 bays	35	20-Feb-14*	01-Apr-14																				NB19 Structural Steel, 21 bays
S4-208190	NB19 NB Panels, 10 bays	10	02-Apr-14	12-Apr-14																				NB19 NB Panels, 10 bays
S4-208190A	NB19 NB Panels, 21 bays	10	02-Apr-14	12-Apr-14																				NB19 NB Panels, 21 bays
Noise Barrier NB22																								
S4-207220	NB22 Structural Steel	13	20-Sep-13 A	27-Jan-14 A																				NB22 Structural Steel
S4-208220	NB22 NB Panels	24	20-Sep-13 A	27-Jan-14 A																				NB22 NB Panels
Fill Slope S9																								
S4-031095A	Fill Slope S9- backfilling	24	20-Feb-14*	19-Mar-14																				Fill Slope S9- backfilling
S4-031095B	Fill Slope S9 - drainage	12	13-Mar-14	26-Mar-14																				Fill Slope S9 - drainage
NB: CH1260-1750, L=410m, Road&Drain+Utilities																								
Road Drainage																								
S4-0512620	Road Drainage - pipelaying + manhole	48	01-Aug-13 A	18-Mar-14																				Road Drainage - pipelaying + manhole
Firemain																								
S4-0512630	Firemain- excav, pipe install+pit/new hydrants	24	17-Sep-13 A	18-Mar-14																				Firemain- excav, pipe install+pit/new hydrants
TCSS Works/Other Utilities																								
S4-0512635	Utilities +TCSS buried ducts + civil prov. works	36	21-Oct-13 A	15-Mar-14																				Utilities +TCSS buried ducts + civil prov. works
S4-0512640	Power supply cable ducts	34	20-Feb-14*	31-Mar-14																				Power supply cable ducts
S4-0512627	TCSS High mast M7/S117 - footing	17	27-Feb-14*	18-Mar-14																				TCSS High mast M7/S117 - footing
Road Lighting/ or High Mast																								
S4-0512660	Public lighting - Lamp Pole + Lamps	36	21-Oct-13 A	31-Mar-14																				Public lighting - Lamp Pole + Lamps
S4-051266A	Public Lighting - cabling works	36	21-Oct-13 A	31-Mar-14																				Public Lighting - cabling works
S4-051266B	Public Lighting - power supply connection & test	12	18-Mar-14	31-Mar-14																				Public Lighting - power supply connection & test
Roadworks																								
S4-0512645	Roadworks +Slip Road N- Resurfacing	26	18-Oct-13 A	31-Mar-14																				Roadworks +Slip Road N- Resurfacing
S4-0512655	Roadworks +Slip Road N- road marking + furnitures	6	25-Mar-14	31-Mar-14																				Roadworks +Slip Road N- road marking + furnitures
Z4: CH 2000 to CH 2400: SECT. 2 WORKS																								
Stage 1A: Southbound - S14-, RW21-28, TP7,Rd/Dr																								
Retaining Wall W24 to W28 & Slope S17																								
Cut Slope S17																								
S2-031170	Slope S17 (SB) (after 29A & W29B part)	45	03-Jun-13 A	08-Mar-14																				Slope S17 (SB) (after 29A & W29B part)
SB Road & Drain, Ch 2000-2200, L=200m																								
TCSS Works/Other Utilities																								
S2-031295	Power supply cable ducts	277	25-Jul-12 A	08-Mar-14																				Power supply cable ducts
Cut Slope S14																								
S2-031140E10	Slope S14 - Soil nail & remaining drainage work (VO343-additional ...	61	10-Jun-13 A	07-Apr-14																				Slope S14 - Soil nail & remaining drainage work (VO343-additional ...
Stage 1B: Northbound- S15-S19, RW31-33, Rd/Dr																								
Retaining Wall W30, W31, W32(Piled), W33																								
Retaining Wall W31,32, 33																								
S2-035325C10	RW W31,W32,33 - wall stem + backfill (5 months)	161	18-Mar-13 A	22-Feb-14 A																				RW W31,W32,33 - wall stem + backfill (5 months)
S2-GCL036	Northbound - GCL interfacing work completion for Lane 1,2,3 open	0		20-Feb-14*																				Northbound - GCL interfacing work completion for Lane 1,2,3 open
S2-GCL046	Completion of works subject to GCL works completion	30	20-Feb-14	26-Mar-14																				Completion of works subject to GCL works completion
Stage 2A: Southbound- S17, RW 29-34, NB27-29																								
Noise Barrier NB27, NB29																								
Noise Barrier NB29																								
S2-035350	NB29 NB Panels	7	16-Oct-13 A	31-Mar-14																				NB29 NB Panels
Retaining Wall, W29 & NB27 (@W29)																								
Retaining Wall W29A																								



Contract: HY/2008/09

Widening of Tolo Highway / Fanling Highway
Between Island House Interchange and Fanling
(Stage 1 - Between Island House Interchange and Ma Wo)

Three Months Rolling Programme
for the Period of 21 Feb 2014 to 20 May 2014

Activity ID	Activity Name	Original Durat...	Start	Finish	2014															
					February				March				April				May			
					9	26	02	09	16	23	02	09	16	23	30	06	13	20	27	04
S2-03529AB	RW W29A facing panel structure (bay 1)	34	20-Feb-14*	31-Mar-14																
SB: CH2200-2400, L=200m, Road&Drain+Utilities																				
Road Drainage																				
S2-031250	W29A bay 1 road drainage after GCL TTA stage 6A	20	14-Mar-14	05-Apr-14																
TCSS Works/Other Utilities																				
S2-031287	TCSS S160 (VDS) - footing	23	14-Sep-13 A	15-Mar-14																
Roadworks																				
S2-031255	W29A bay 1 road work after GCL TTA stage 6A	39	14-Mar-14	30-Apr-14																
S2-031265	Remaining roadwork to final pavement level after GCL TTA stage 6A	6	01-May-14	08-May-14																
Stage 3: Central Median- NB26, NB29 +Road&Drain																				
CM: NB26 & NB28 L=400m & Road&Drain+Utilities																				
Noise Barrier Structural Steel & Panels																				
S2-208300	NB26 NB Structural Steel	7	08-Jul-13 A	15-Mar-14																
S2-208310	NB26 NB Panels	12	03-Mar-14	15-Mar-14																
S2-208395	Implement TTA- divert traffic to new SB, NB & CM	0	27-Mar-14																	
Stage 2B: Northbound- NB25																				
Noise Barrier NB25																				
S4-207250	NB25 Structural Steel	21	20-Feb-14*	15-Mar-14																
S4-208250	NB25 NB Panels	10	17-Mar-14	27-Mar-14																
TCSS Works																				
TCSS E&M Works & Handover																				
S2-208420	Lighting & T&C	24	15-Oct-13 A	17-Mar-14																
S2-208450	T&C - power supply system to TCSS	22	20-Feb-14	17-Mar-14																
S2-208425	Handover to TCSS Contractor	0		17-Mar-14																
Z6: TCSS IN PORTION SA11: SECT. 4 WORKS																				
TCSS Works																				
New Sign Gantry Construction																				
G14 (Outside Site Boundary)																				
GS1680	Reinstatement & Shifting of traffic lane	52	20-Feb-14	23-Apr-14																
Existing Sign Gantry Modification																				
G13 (Substantial Modification Works of Sign Gantries)																				
GS2410	Carry out Sign Gantry modification (LCS, TCSS etc)	52	27-Mar-14	29-May-14																
G66 (Substantial Modification Works of Sign Gantries)																				
GS2730	Carry out Sign Gantry modification (LCS, TCSS etc)	30	12-Dec-13 A	26-Mar-14																
G75 (Substantial Modification Works of Sign Gantries)																				
GS3290	Carry out Sign Gantry modification (LCS, TCSS etc)	52	26-Nov-13 A	31-Mar-14																
G76 (Substantial Modification Works of Sign Gantries)																				
GS3370	Carry out Sign Gantry modification (LCS, TCSS etc)	52	26-Nov-13 A	31-Mar-14																
VO214, 223, 227 - Ground Works & Ducts Works for TCSS (Outside Site Boundary)																				
VO214 -Outside site Boundary- Install UPVC Ducts for TCSS Works-Road Side Work																				
GS3570	Road Side Works - SK1258 - G66	20	01-May-13 A	26-Feb-14																
GS3490	Road Side Works - SK1252, SK1253 - G11 LHS (Case 113/111-112)	26	20-Feb-14	21-Mar-14																
GS3530	Cycle Track G73 - G74 Sk1253	26	22-Mar-14	23-Apr-14																
VO214 -Outside site Boundary- Install UPVC Ducts for TCSS Works-Cross Road Work																				
GS3610	(Pending for VO for cancellation)Cross Road Ducts - SK1253 - P12 ...	30	20-Feb-14	26-Mar-14																
GS3620	(Pending for VO for cancellation)Cross Road Ducts - SK1253 - P12 ...	30	27-Mar-14	02-May-14																
GS3630	(Pending for VO for cancellation)Cross Road Ducts - SK1256 - P59 ...	30	03-May-14	09-Jun-14																
SI-40 - 7 Nos of Trial Pits for P11, P12, S107 and P59																				
GS3680	Trial Pits for P11, P12, S107 and P59	30	20-Feb-14	26-Mar-14																



Contract: HY/2008/09
Widening of Tolo Highway / Fanling Highway
Between Island House Interchange and Fanling
(Stage 1 - Between Island House Interchange and Ma Wo)

Three Months Rolling Programme
for the Period of 21 Feb 2014 to 20 May 2014

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010				2011				2012				2013				2014		
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3

HY/2009/08 TOLO HIGHWAY WIDENING, Updated on 20140126

EXECUTIVE SUMMARY

Design

A1330	Alternative Design		100%	292	26-Jul-10 A	14-Jan-11 A
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Construction

Section 1

A1000	SA21 - North Bound		100%	959	15-Oct-10 A	25-Dec-13 A
A1010	SA21 - South Bound	-100	95.99%	814	15-Oct-10 A	28-Feb-14
A1020	SA21 - Middle Lane	-84	94%	275	08-May-12 A	12-Feb-14

Section 2

A1030	SA22 - North Bound		100%	1016	26-Feb-10 A	07-Dec-13 A
A1040	SA22 - South Bound	-70	94.7%	1037	01-Apr-10 A	22-Mar-14
A1060	SA23 - South Bound		100%	388	28-Dec-11 A	25-Jan-14 A
A1070	SA24 - North Bound	-95	89.83%	787	25-Aug-10 A	16-Apr-14
A1080	SA25 - South Bound	-48	96.98%	777	20-Oct-10 A	19-Feb-14
A1090	SA26 - North Bound	-55	96.75%	1216	26-Feb-10 A	07-Mar-14
A1100	SA26 - South Bound	-61	96.22%	1216	26-Feb-10 A	13-Mar-14

Section 3

A1110	SA26A - North Bound	-15	97.48%	1191	26-Feb-10 A	25-Feb-14
A1120	SA26A - South Bound	-21	95.96%	879	26-Feb-10 A	03-Mar-14
A1130	SA26A - North & South Bound		100%	612	26-Feb-11 A	30-Jul-13 A
A1140	SA27 - South Bound	-15	96.43%	826	27-Mar-10 A	25-Feb-14

Section 4

A1150	SA28 - North Bound	-65	92.64%	1216	26-Feb-10 A	26-Apr-14
A1160	SA28 - South Bound	-8	97.01%	1099	23-Jun-10 A	28-Feb-14
A1170	SA29 - North Bound		100%	909	26-Jan-11 A	26-Sep-13 A
A1180	SA32 - Roadside FVMS		100%	265	26-Mar-11 A	15-Dec-11 A

Section 5

A1190	SA31 - South Bound		100%	884	26-Feb-10 A	28-Mar-13 A
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Section 7

A1200	SA41 - Site Office	-71	85.96%	1581	26-Feb-10 A	05-Sep-14
A1210	SA42 - Temporary Contractor's Works Area	0	90.52%	1582	25-Feb-10 A	25-Jun-14

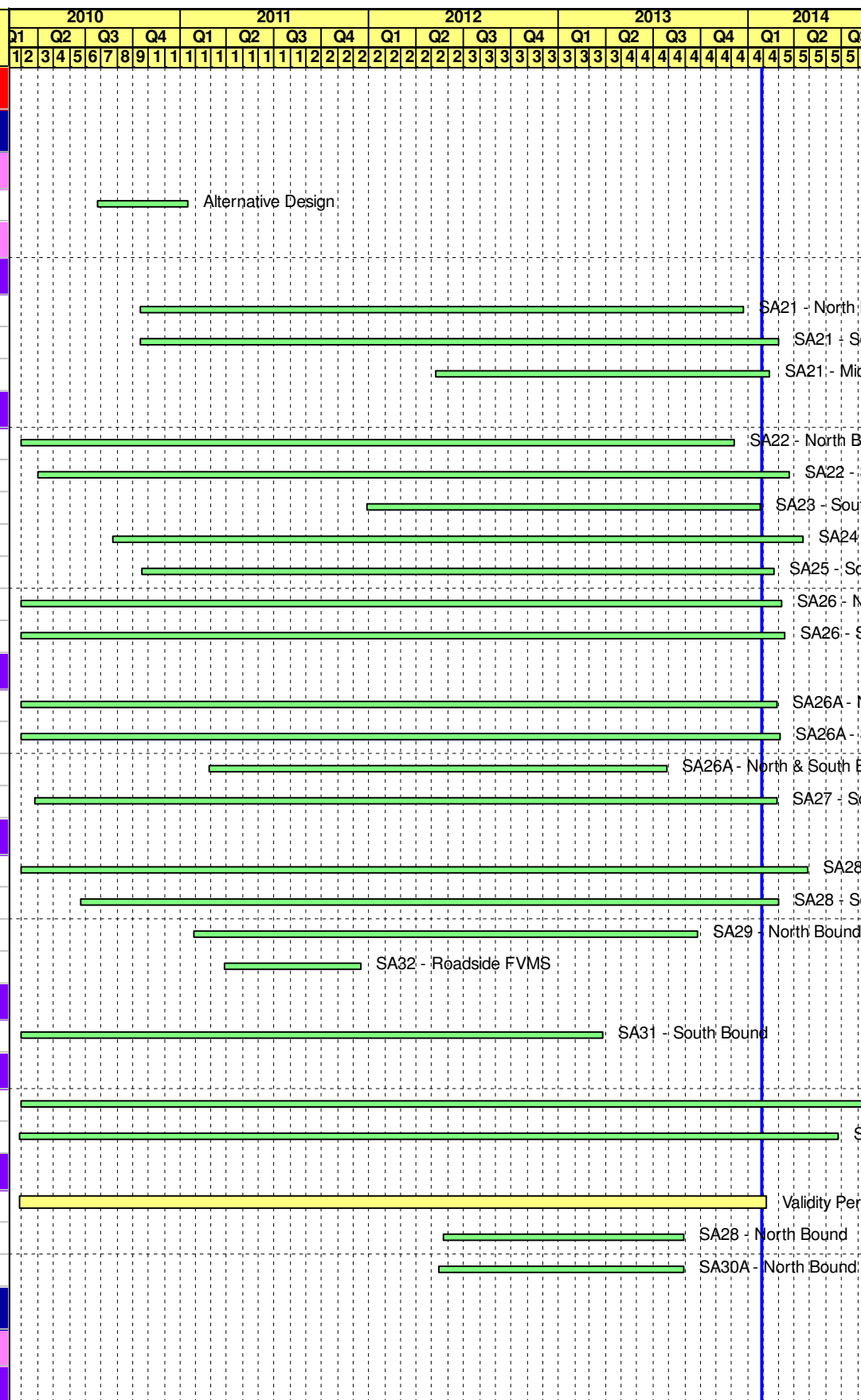
Section 17 (Subject to Excision, Engineer may instruct within 819 days)

A1300	Validity Period	140	98.6%	819	25-Feb-10 A	07-Feb-14
A1310	SA28 - North Bound		100%	34	24-May-12 A	31-Aug-13 A
A1320	SA30A - North Bound		100%	155	14-May-12 A	31-Aug-13 A

KEY DATES/ MILESTONES

Portion Handover Dates

Section 1 (Site Area SA21)



Project ID: J3318-UPDATE 2014JAN
 Project Name: HY/2009/08 TOLO HIGHWAY WIDENING...
 Print Date: 30-Jan-14
 Data Date: 27-Jan-14
 Page 1 of 46

- Current Bar
- Level of Effort
- Critical
- Milestone

Highways Department - Contract No. HY/2009/08

**Widening of Tolo Highway/ Fanling Highway
 Stage 1 - Between Ma Wo and Tai Hang**

Updated Works Programme, 26 January 2014

UWP Revision			
Date	Revision	Checked	Approved
27-Jan-14	UWP January, 2014	WY	JC

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011												2012												2013												2014											
							Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4														
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
PHSA2100	Possession of SA21 (Day365)		100%	0	16-Jul-10 A		◇ Possession of SA21 (Day365)																																																											
Section 3 (Site Area SA26A and SA 27)																																																																		
PHSA26A0	Possession of SA26A (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA26A (Day0)																																																											
PHSA2700	Possession of SA27 (Day 90)		100%	0	26-Mar-10 A		◇ Possession of SA27 (Day 90)																																																											
Section 2 (Site Area SA22, SA23, SA24, SA25 and SA26)																																																																		
PHSA2200	Possession of SA22 (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA22 (Day0)																																																											
PHSA2300	Possession of SA23 (Day180)		100%	0	04-May-10 A		◇ Possession of SA23 (Day180)																																																											
PHSA2400	Possession of SA24 (Day180)		100%	0	04-May-10 A		◇ Possession of SA24 (Day180)																																																											
PHSA2500	Possession of SA25 (Day270)		100%	0	04-May-10 A		◇ Possession of SA25 (Day270)																																																											
PHSA2600	Possession of SA26 (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA26 (Day0)																																																											
Section 4 (Site Area SA28, SA29 and SA32)																																																																		
PHSA2800	Possession of SA28 (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA28 (Day0)																																																											
PHSA2900	Possession of SA29 (Day270)		100%	0	27-Jul-10 A		◇ Possession of SA29 (Day270)																																																											
PHSA3200	Possession of SA32 (Day365)		100%	0	25-Feb-11 A		◇ Possession of SA32 (Day365)																																																											
Section 5 (Site Area SA31)																																																																		
PHSA3100	Possession of SA31 (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA31 (Day0)																																																											
Section 7 (All Works Except Works Included in Other Sections)																																																																		
PHSA4100	Possession of SA41 (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA41 (Day0)																																																											
PHSA4200	Possession of SA42 (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA42 (Day0)																																																											
PHSA4300	Possession of SA43 (Day90)		100%	0	04-May-10 A		◇ Possession of SA43 (Day90)																																																											
Section 8 (Establishment Works in Site Area SA21)																																																																		
PHSA2110	Possession of SA21 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA21 (Day1217)																																																											
Section 9 (Establishment Works in Site Area SA22, SA23, SA24, SA25 and SA26)																																																																		
PHSA2210	Possession of SA22 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA22 (Day1217)																																																											
PHSA2310	Possession of SA23 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA23 (Day1217)																																																											
PHSA2420	Possession of SA24 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA24 (Day1217)																																																											
PHSA2510	Possession of SA25 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA25 (Day1217)																																																											
PHSA2610	Possession of SA26 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA26 (Day1217)																																																											
Section 10 (Establishment Works in Site Area SA26A and SA27)																																																																		
PHSA26A1	Possession of SA26A (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA26A (Day1217)																																																											
PHSA2710	Possession of SA27 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA27 (Day1217)																																																											
Section 11 (Establishment Works in Site Area SA28 and SA29)																																																																		
PHSA2810	Possession of SA28 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA28 (Day1217)																																																											
PHSA2910	Possession of SA29 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA29 (Day1217)																																																											
Section 12 (Establishment Works in Site Area SA30 and SA30A)																																																																		
PHSA3000	Possession of SA30 (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA30 (Day1217)																																																											
PHSA30A0	Possession of SA30A (Day1217)	-214	0%	0	27-Jan-14		◇ Possession of SA30A (Day1217)																																																											
Section 13 (Remainder of Establishment Works)																																																																		
PHSA3110	Possession of SA31 (Day1217)	-178	0%	0	27-Jan-14*		◇ Possession of SA31 (Day1217)																																																											
PHSA3220	Possession of SA32 (Day1217)	-178	0%	0	27-Jan-14*		◇ Possession of SA32 (Day1217)																																																											
PHSA4120	Possession of SA41 (Day1217)	-178	0%	0	27-Jan-14*		◇ Possession of SA41 (Day1217)																																																											
PHSA4220	Possession of SA42 (Day1217)	-178	0%	0	27-Jan-14*		◇ Possession of SA42 (Day1217)																																																											
PHSA4330	Possession of SA43 (Day1217)	-178	0%	0	27-Jan-14*		◇ Possession of SA43 (Day1217)																																																											
Section 14 Comprises Routine Maintenance of Road Network in Site Area SA21 to SA31)																																																																		
PHSA2130	Possession of SA21 for Routine Maintenance (Day365)		100%	0	16-Jul-10 A		◇ Possession of SA21 for Routine Maintenance (Day365)																																																											
PHSA2230	Possession of SA22 for Routine Maintenance (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA22 for Routine Maintenance (Day0)																																																											

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014		
							Q1			Q2			Q3			Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
PHSA2330	Possession of SA23 for Routine Maintenance (Day180)		100%	0	04-May-10 A		◇ Possession of SA23 for Routine Maintenance (Day180)																										
PHSA2430	Possession of SA24 for Routine Maintenance (Day180)		100%	0	04-May-10 A		◇ Possession of SA24 for Routine Maintenance (Day180)																										
PHSA2530	Possession of SA25 for Routine Maintenance (Day270)		100%	0	04-May-10 A		◇ Possession of SA25 for Routine Maintenance (Day270)																										
PHSA2630	Possession of SA26 for Routine Maintenance (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA26 for Routine Maintenance (Day0)																										
PHSA26A3	Possession of SA26A for Routine Maintenance (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA26A for Routine Maintenance (Day0)																										
PHSA2730	Possession of SA27 for Routine Maintenance (Day90)		100%	0	26-Mar-10 A		◇ Possession of SA27 for Routine Maintenance (Day90)																										
PHSA2830	Possession of SA28 for Routine Maintenance (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA28 for Routine Maintenance (Day0)																										
PHSA2930	Possession of SA29 for Routine Maintenance (Day270)		100%	0	27-Jul-10 A		◇ Possession of SA29 for Routine Maintenance (Day270)																										
PHSA3060	Possession of SA30 for Routine Maintenance (Day0)		100%	0	26-Feb-10 A		◇ Possession of SA30 for Routine Maintenance (Day0)																										
PHSA30A4	Possession of SA30A for Routine Maintenance (Day180)		100%	0	27-Jul-10 A		◇ Possession of SA30A for Routine Maintenance (Day180)																										
PHSA3130	Possession of SA31 for Routine Maintenance		100%	0	26-Feb-10 A		◇ Possession of SA31 for Routine Maintenance																										
Section 17 (Subject to Excision and Instruct by Engineer within 819 days)																																	
PHSA3030	Earliest Date to Possession of SA30		100%	0	26-Feb-10 A		◇ Earliest Date to Possession of SA30																										
PHSA30A3	Earliest Date to Possession of SA30A		100%	0	27-Jul-10 A		◇ Earliest Date to Possession of SA30A																										
Key Dates (include EOT GCL submitted and awarded upto Aug 2013)																																	
HDS01000	KD1: Completion of Section 1 - (Day1216) - Overall Completion of Works	-100	0%	0		28-Feb-14*	◇ KD1: Comp																										
HDS01100	KD1: Completion of Section 1 - (Day1216) - Substantial Completion for Road Opening	-71	0%	0		30-Jan-14*	◇ KD1: Comple																										
HDS02000	KD2: Completion of Section 2 - (Day1216) - Overall Completion of Works	-95	0%	0		16-Apr-14*	◇ KD2: Cc																										
HDS02100	KD2: Completion of Section 2 - (Day1216) - Substantial Completion for Road Opening	-70	0%	0		22-Mar-14*	◇ KD2: Con																										
HDS03000	KD3: Completion of Section 3 - (Day1216) - Overall Completion of Works	-59	0%	0		10-Apr-14*	◇ KD3: Cc																										
HDS03100	KD3: Completion of Section 3 - (Day1216) - Substantial Completion for Road Opening	-17	0%	0		28-Feb-14*	◇ KD3: Comp																										
HDS04000	KD4: Completion of Section 4 - (Day1216) - Overall Completion of Works	-65	0%	0		26-Apr-14*	◇ KD4: C																										
HDS04100	KD4: Completion of Section 4 - (Day1216) - Substantial Completion for Road Opening	-8	0%	0		28-Feb-14*	◇ KD4: Comp																										
HDS05000	KD5: Completion of Section 5 - (Day884)		100%	0		28-Mar-13 A	◇ KD5: Completion of Section 5 - (Da																										
HDS07000	KD7: Completion of Section 7 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS08000	KD8: Completion of Section 8 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS09000	KD9: Completion of Section 9 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS10000	KD10: Completion of Section 10 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS11000	KD11: Completion of Section 11 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS12000	KD12: Completion of Section 12 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS13000	KD13: Completion of Section 13 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS14000	KD14: Completion of Section 14 - (Day1581)	0	0%	0		25-Jun-14*	◇ KD																										
HDS17000	KD17: Latest Date to Compl of Section 17 - (Day397) Subject to Excision		100%	0		31-Aug-13 A	◇ KD17: Latest Date to Cc																										
DESIGN SUBMISSION																																	
Alternative Design																																	
Ground Investigation & Reporting																																	
AD000010	Ground Investigation for Alternative Design		100%	54	22-Mar-10 A	29-May-10 A	Ground Investigation for Alternative Design																										
AD000020	Report of Ground Investigation		100%	56	12-Apr-10 A	18-Jun-10 A	Report of Ground Investigation																										
Package AD1: W56B																																	
AD000110	AD1 - Design Period		100%	80	29-Mar-10 A	08-Jul-10 A	AD1 - Design Period																										
AD000120	AD1 - Full Package to ICE for Certification		100%	20	09-Jul-10 A	31-Jul-10 A	AD1 - Full Package to ICE for Certification																										
AD000130	AD1 - Approval by ER/CLIENT/CEDD (GEO)		100%	101	09-Jul-10 A	06-Nov-10 A	AD1 - Approval by ER/CLIENT/CEDD (GEO)																										
Package AD2: W57B																																	
AD000210	AD2 - Design Period		100%	72	14-Apr-10 A	10-Jul-10 A	AD2 - Design Period																										
AD000220	AD2 - Full Package to ICE for Certification		100%	44	12-Jul-10 A	31-Aug-10 A	AD2 - Full Package to ICE for Certification																										
AD000230	AD2 - Approval by ER/CLIENT/CEDD (GEO)		100%	172	26-Nov-10 A	26-Apr-11 A	AD2 - Approval by ER/CLIENT/CEDD (GEO)																										

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010				2011				2012				2013				2014		
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Package AD3: W69																									
AD000310	AD3 - Design Period		100%	75	03-May-10 A	31-Jul-10 A	AD3 - Design Period																		
AD000320	AD3 - Full Package to ICE for Certification		100%	57	02-Aug-10 A	08-Oct-10 A	AD3 - Full Package to ICE for Certification																		
AD000330	AD3 - Approval by ER/CLIENT/CEDD (GEO)		100%	100	02-Aug-10 A	29-Nov-10 A	AD3 - Approval by ER/CLIENT/CEDD (GEO)																		
Package AD4: W38																									
AD000410	AD4 - Design Period		100%	78	09-Jun-10 A	09-Sep-10 A	AD4 - Design Period																		
AD000420	AD4 - Full Package to ICE for Certification		100%	18	10-Sep-10 A	09-Nov-10 A	AD4 - Full Package to ICE for Certification																		
AD000430	AD4 - Approval by ER/CLIENT/CEDD (GEO)		100%	54	11-Nov-10 A	15-Jan-11 A	AD4 - Approval by ER/CLIENT/CEDD (GEO)																		
Package AD5 (Noise Barrier Foundation): NB38, NB39, NB41 & NB43																									
AD000510	AD5 - Design Period		100%	98	21-Jul-10 A	22-Oct-10 A	AD5 - Design Period																		
AD000520	AD5 - Full Package to ICE for Certification		100%	51	23-Oct-10 A	22-Dec-10 A	AD5 - Full Package to ICE for Certification																		
AD000530	AD5 - Approval by ER/CLIENT/CEDD (GEO)		100%	74	18-Oct-10 A	14-Jan-11 A	AD5 - Approval by ER/CLIENT/CEDD (GEO)																		
MATERIALS PROCUREMENT																									
Major Materials (Detail shall refer to supplementary information)																									
Water Works																									
MA001010	Place Order		100%	0	31-Aug-10 A		Place Order																		
MA001030	Fabrication, Manufacturing & Delivery		100%	900	31-Aug-10 A	31-Aug-12 A	Fabrication, Manufacturing & Delivery																		
Vehicular Parapet SSD161																									
MA001050	Place Order		100%	0	26-May-11 A		Place Order																		
MA001060	Fabrication, Manufacturing & Delivery		100%	350	26-May-11 A	24-Aug-12 A	Fabrication, Manufacturing & Delivery																		
Bearing																									
MA001070	Place Order		100%	0	31-Jul-10 A		Place Order																		
MA001080	Fabrication, Manufacturing & Delivery		100%	630	31-Jul-10 A	05-Aug-12 A	Fabrication, Manufacturing & Delivery																		
Movement Joint																									
MA001090	Place Order		100%	0	31-Aug-10 A		Place Order																		
MA001100	Fabrication, Manufacturing & Delivery		100%	620	31-Aug-10 A	31-Aug-12 A	Fabrication, Manufacturing & Delivery																		
CONSTRUCTION PHASE																									
Preliminaries & General Requirement																									
Preliminaries																									
General Submissions																									
PR000000	Commencement of Works		100%	0	26-Feb-10 A		Commencement of Works																		
PR001000	Site Establishment		100%	90	26-Feb-10 A	25-May-10 A	Site Establishment																		
PR001010	Effect required Insurances		100%	0	26-Feb-10 A		Effect required Insurances																		
PR001030	Erect Contractor's Office Compound		100%	69	26-Feb-10 A	04-May-10 A	Erect Contractor's Office Compound																		
PR001040	Submit Site Organization Chart		100%	14	26-Feb-10 A	10-Mar-10 A	Submit Site Organization Chart																		
PR001050	Submit Site Layout Plan		100%	7	26-Feb-10 A	03-Mar-10 A	Submit Site Layout Plan																		
PR001060	Prepare/Submit Initial Works Programme		100%	7	26-Feb-10 A	03-Mar-10 A	Prepare/Submit Initial Works Programme																		
PR001070	Approval on Initial Works Programme		100%	30	04-Mar-10 A	02-Apr-10 A	Approval on Initial Works Programme																		
PR001080	Prepare/Submit Detailed Works Programme		100%	58	03-Apr-10 A	30-May-10 A	Prepare/Submit Detailed Works Programme																		
PR001090	Prepare/Submit First 3-month Programme		100%	14	26-Feb-10 A	10-Mar-10 A	Prepare/Submit First 3-month Programme																		
PR001100	Submit initial 12-month Pgr for Rou. Maint. Work		100%	14	26-Feb-10 A	10-Mar-10 A	Submit initial 12-month Pgr for Rou. Maint. Work																		
PR001110	Submit Rolling 3month Routine Maint. Program		100%	14	26-Feb-10 A	10-Mar-10 A	Submit Rolling 3month Routine Maint. Program																		
PR001170	Prepare/Submit Subcon Management Plan (SMP)		100%	30	26-Feb-10 A	26-Mar-10 A	Prepare/Submit Subcon Management Plan (SMP)																		
PR001200	Submit Interface Management Plan		100%	60	26-Feb-10 A	25-Apr-10 A	Submit Interface Management Plan																		
PR001242	Application of Expressway Permit		100%	7	26-Feb-10 A	03-Mar-10 A	Application of Expressway Permit																		
PR001244	Approval of Expressway Permit		100%	21	04-Mar-10 A	24-Mar-10 A	Approval of Expressway Permit																		

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010				2011				2012				2013				2014		
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
VO000770	VO. 77: Provision of Cable Duct for Power Supply in Site Area SA28 and SA31		100%	0	17-Oct-12 A		◇ VO. 77: Provision of Cable Duct for Power Sup																		
VO000780	VO. 78: Bridge 18A Revised CLP Concrete Cable Trough Details		100%	0	22-Oct-12 A		◇ VO. 78: Bridge 18A Revised CLP Concrete Ca																		
VO000790	VO. 79: Bridge 18A East Abutment - Reinforced Concrete Wall (Bay3)		100%	0	14-Nov-12 A		◇ VO. 79: Bridge 18A East Abutment - Reinforc																		
VO000800	VO. 80: Removal and Storage of Remaining Parts of Existing Speed Camera No. W05, W06 at NB and W10 at SB		100%	0	03-Dec-12 A		◇ VO. 80: Removal and Storage of Remaining																		
VO000810	VO. 81: Details of Maintenance Access of Noise Barrier NB41 and NB42 along Tai Wo Service Road West		100%	0	04-Jan-13 A		◇ VO. 81: Details of Maintenance Access of																		
VO000820	VO. 82: Irrigation System Along the Vehicular Access to Wai Tau Tsuen		100%	0	04-Feb-13 A		◇ VO. 82: Irrigation System Along the Veh																		
VO000830	VO. 83: Stormwater Drainage System MN18.1 to MN18.11 in Front of Retaining Wall W56B		100%	0	08-Feb-13 A		◇ VO. 83: Stormwater Drainage System																		
VO000840	VO. 84: Removal and Storage of Remaining Parts of Existing Speed Enforcement Camera No. TO06 at Tolo Highway Southbound		100%	0	08-Feb-13 A		◇ VO. 84: Removal and Storage of Rema																		
VO000860	VO. 86: Provision of Verge Tubular Railing Adjacent to Retaining Wall W67		100%	0	12-Apr-13 A		◇ VO. 86: Provision of Verge Tubular																		
VO000870	VO. 87: Existing Retaining Wall at Tai Po Tai Wo Road - Modification Works		100%	0	19-Apr-13 A		◇ VO. 87: Existing Retaining Wall at																		
VO000880	VO. 88: Additional Hospital Sign Plate for Existing Directional Signs DSX01A and DSX05B		100%	0	10-May-13 A		◇ VO. 88: Additional Hospital Sign																		
VO000890	VO. 89: Change of Material of Southern Trunk Sewer Pipes between manhole		100%	0	10-May-13 A		◇ VO. 89: Change of Material of S																		
VO000900	VO. 90: Revised Southern Trunk Sewer Details		100%	0	10-May-13 A		◇ VO. 90: Revised Southern Trunk																		
VO000910	VO. 91: Nosing Details at South Abutment of Bridge 13A - Modification Works		100%	0	02-Jul-13 A		◇ VO. 91: Nosing Details at So																		
VO000920	VO. 92: Revised Noise Barrier Footing fro NB30 Bay 1		100%	0	14-Jun-13 A		◇ VO. 92: Revised Noise Barrier																		
VO000930	VO. 93: Irrigation System for the Shrub Planting Area Adjacent to Fanling Highway		100%	0	13-Jun-13 A		◇ VO. 93: Irrigation System for t																		
VO000940	VO. 94: Irrigation System for the Shrub Planting Area Adjacent to Lam Kam Road Interchange with connection to Firemain		100%	0	11-Jun-13 A		◇ VO. 94: Irrigation System for t																		
VO000950	VO. 95: Revised Sign Gantry G101 Details		100%	0	07-Jun-13 A		◇ VO. 95: Revised Sign Gantry G																		
VO000970	VO. 97: Provision of Stormwater Drainage System for the Wai Tau Tsuen Access Road Behind W74		100%	0	13-Jun-13 A		◇ VO. 97: Provision of Stormwat																		
VO000980	VO. 98: Revised Sign Gantry G101 Sign Face DS T8(B) Details		100%	0	11-Jun-13 A		◇ VO. 98: Revised Sign Gantry G																		
VO000990	VO. 99: Revised Sign Gantry G59 Details		100%	0	11-Jun-13 A		◇ VO. 99: Revised Sign Gantry G																		
VO001000	VO. 100: Revised Sign Gantry G58 Details		100%	0	11-Jun-13 A		◇ VO. 100: Revised Sign Gantry																		
VO001010	VO. 101: Existing Bridges 12&13 - Revised Detail of the Strengthening Beam of the Stitching Slab		100%	0	02-Jul-13 A		◇ VO. 101: Existing Bridges 12																		
VO001030	VO. 103: Parapet Wall PW1 - Revised Drainage and Miscellaneous Details		100%	0	03-Jul-13 A		◇ VO. 103: Parapet Wall PW1																		
VO001040	VO. 104: Revised Alignment and Layout of Noise Barrier NB38		100%	0	26-Jun-13 A		◇ VO. 104: Revised Alignment a																		
VO001050	VO. 105: Additional Precast Concrete Cover for Catchpit No. CP1.1		100%	0	02-Jul-13 A		◇ VO. 105: Additional Precast C																		
VO001060	VO. 106: Revised Details fo Retaining Wall No. W71 and Slope S43 at CH0.00 to CH4.00		100%	0	02-Jul-13 A		◇ VO. 106: Revised Details fo																		
VO001070	VO. 107: Revised Alignment of U-Channel at Interface of Retaining Wall W66 and Slope S38		100%	0	02-Jul-13 A		◇ VO. 107: Revised Alignment																		
VO001080	VO. 108: Revision for Proposed Cut Slope S31A		100%	0	11-Jul-13 A		◇ VO. 108: Revision for Propo																		
VO001090	VO. 109: Revision for Proposed Cut Slope S45		100%	0	19-Jul-13 A		◇ VO. 109: Revision for Propo																		
VO001100	VO. 110: Revised Base Plate Details of Noise Barrier NB38		100%	0	19-Aug-13 A		◇ VO. 110: Revised Base P																		
Milestones of Temporary Traffic Arrangement																									
TTA000	TTA Stage 0 - Divert the traffic to new Slip Road J & K		100%	0	07-Oct-12 A		◇ TTA Stage 0 - Divert the traffic to new Slip Road																		
TTA010	TTA Stage 1 - divert the traffic to new bridge 18a		100%	0	23-Jun-13 A		◇ TTA Stage 1 - divert the traffic																		
TTA050	TTA Stage 5 - Full enclosure of Tai Wo Road (CH3350 - CH3540)		100%	0	27-Sep-12 A		◇ TTA Stage 5 - Full enclosure of Tai Wo Road; (C																		
TTA060	TTA Stage 6 - Open the new Northbound but reserve one lane & close the existing Northbound		100%	0	25-Feb-12 A		◇ TTA Stage 6 - Open the new Northbound but reserve one lane																		
TTA070	TTA Stage 7 - Close the existing southbound and temporary divert the traffic to the existing Northbound		100%	0	25-Feb-12 A		◇ TTA Stage 7 - Close the existing southbound and temporary div																		
TTA090	TTA Stage 9 - NLK Open the new Northbound but reserve one lane & close the existing Northbound	-21	0%	0	27-Jan-14		◇ TTA Stage 9 -																		
TTA110	TTA Stage 11 - Open the new LB2 and link up the LB1 & LB3	-24	0%	0	13-Feb-14		◇ TTA Stage 11 -																		
TTA310	TTA Stage 5A-1 Diversion the traffic to B13A and B15A		100%	0	23-Jun-13 A		◇ TTA Stage 5A-1 Diversion the																		

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011												2012												2013												2014																																			
							Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4																																						
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12																																				
Retaining Wall W49							Clearing & Prepare Piling Platform & Pre-drilling for W49												Sheet Pile/Excavate & Construct W49												Open-cut Excavation												Construction of W49 Structure												Backfilling												Backfilling behind W49 and drainage works																							
S21N2570	Construction of RW Structure (W45)		100%	75	26-Jan-12 A	04-Jun-12 A													Construction of RW Structure (W45)																																																																							
S21N2580	Construction of RW Structure (W46)		100%	75	01-Mar-12 A	26-May-12 A													Construction of RW Structure (W46)																																																																							
S21N2590	Backfilling W45 & W46		100%	40	28-Aug-12 A	20-Oct-12 A													Backfilling W45 & W46																																																																							
S21N2600	Backfilling behind W45 to W48 and drainage works	-58	95%	70	04-Mar-13 A	30-Jan-14																									Backfilling behind W45 to W48 and drainage works																																																											
Road Re-Construction Works, Roadworks & Drainage							Road works Slow Lane (Ch2400 ~ 2650)												Road works Slow Lane (Ch2650 ~ 2840)												Roadworks, Drainages & Utilities (CH 2400 - 2840)												Removal of existing paving												Drainages (incl. VO 33 : Drainage details at W48)												Utilities (incl. VO 26: Permanent Diversion of existing DN80 WSD Watermain at Ma WO Subway TP9)																							
S21N4000	Road works Slow Lane (Ch2400 ~ 2650)		100%	20	14-Dec-12 A	04-Jan-13 A																									Road works Slow Lane (Ch2400 ~ 2650)																																																											
S21N4010	Road works Slow Lane (Ch2650 ~ 2840)		100%	20	10-Jan-13 A	11-Apr-13 A																									Road works Slow Lane (Ch2650 ~ 2840)																																																											
S21N4100	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-57	98.65%	133	06-Aug-11 A	28-Jan-14													Roadworks, Drainages & Utilities (CH 2400 - 2840)																																																																							
S21N4110	Removal of existing paving		100%	25	06-Aug-11 A	13-Jul-13 A													Removal of existing paving																																																																							
S21N4120	Drainages (incl. VO 33 : Drainage details at W48)		100%	25	06-Aug-12 A	05-Apr-13 A													Drainages (incl. VO 33 : Drainage details at W48)																																																																							
S21N4130	Utilities (incl. VO 26: Permanent Diversion of existing DN80 WSD Watermain at Ma WO Subway TP9)	-56	95%	25	08-Jul-13 A	28-Jan-14																									Utilities (incl. VO 26: Permanent Diversion of existing DN80 WSD Watermain at Ma WO Subway TP9)																																																											
S21N4135	Road Surface (Stage 1: CH2400 - CH2520)		100%	75	26-Dec-11 A	24-Feb-12 A													Road Surface (Stage 1: CH2400 - CH2520)																																																																							
S21N4140	Road Surface (Stage 2 : CH2520 - CH2840)		100%	75	08-Jan-13 A	14-Dec-13 A																									Road Surface (Stage 2 : CH2520 - CH2840)																																																											
S21N4141	Road Construction Works (CH2600 - CH3000) for traffic diversion stage 4B-1		100%	75	10-Jan-13 A	04-May-13 A																									Road Construction Works (CH2600 - CH3000) for traffic diversion stage 4B-1																																																											
S21N4142	Road Construction Works (Fast Lane) for C1/ C2 Interface stage 6B		100%	40	21-Jan-13 A	11-May-13 A																									Road Construction Works (Fast Lane) for C1/ C2 Interface stage 6B																																																											
S21N4143	Road Construction Works (Mid Lane) for C1/ C2 Interface stage 7B		100%	28	13-May-13 A	09-Jun-13 A																									Road Construction Works (Mid Lane) for C1/ C2 Interface stage 7B																																																											
S21N4144	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 8B		100%	27	10-Jun-13 A	06-Jul-13 A																									Road Construction Works (Slow Lane) for C1/ C2 Interface stage 8B																																																											
S21N4145	Road Construction Works for C1/ C2 Interface Final stage	-57	95%	36	08-Jul-13 A	28-Jan-14																									Road Construction Works for C1/ C2 Interface Final stage																																																											
S21N4150	Shift lane for C1/ C2 Interface (Stage 1)		100%	0	27-Feb-12 A																										Shift lane for C1/ C2 Interface (Stage 1)																																																											
S21N4152	Shift lane for C1/ C2 interface (Stage 2: North Bound along W38 to W46)		100%	0	20-Jan-13 A																										Shift lane for C1/ C2 interface (Stage 2: North Bound along W38 to W46)																																																											
S21N4153	Shift lane for (CH2600 - CH3000) stage 4B-1		100%	0	05-May-13 A																										Shift lane for (CH2600 - CH3000) stage 4B-1																																																											
S21N4155	Shift lane for C1/ C2 Interface stage 6B		100%	0	12-May-13 A																										Shift lane for C1/ C2 Interface stage 6B																																																											
S21N4156	Shift lane for C1/ C2 Interface stage 7B		100%	0	09-Jun-13 A																										Shift lane for C1/ C2 Interface stage 7B																																																											
S21N4157	Shift lane for C1/ C2 Interface stage 8B		100%	0	07-Jul-13 A																										Shift lane for C1/ C2 Interface stage 8B																																																											
S21N4160	Shift lane for C1/ C2 interface Final stage	-57	0%	0	28-Jan-14																										Shift lane for C1/ C2 interface Final stage																																																											
Noise Barriers & Road Barriers							NB31 (CH 0-183.6, W39 - W49)												NB31 : Excavation and Footing (Bay 1-4)												NB31 : Excavation and Footing (Bay 5 - 7)												NB31 : Erecting H-Column												NB31 (CH 90-183.6) : Installation Panel												Remaining NB31 Installation of Panel																							
S21N3010	NB31 (CH 0-183.6, W39 - W49)		100%	80	07-Nov-12 A	17-Jan-13 A													NB31 (CH 0-183.6, W39 - W49)																																																																							
S21N3060	NB31 : Excavation and Footing (Bay 1-4)		100%	24	07-Nov-12 A	05-Jan-13 A													NB31 : Excavation and Footing (Bay 1-4)																																																																							
S21N3070	NB31 : Excavation and Footing (Bay 5 - 7)		100%	24	01-Dec-12 A	08-Jan-13 A													NB31 : Excavation and Footing (Bay 5 - 7)																																																																							
S21N3080	NB31 : Erecting H-Column		100%	18	02-Jan-13 A	10-Jan-13 A													NB31 : Erecting H-Column																																																																							
S21N3090	NB31 (CH 90-183.6) : Installation Panel		100%	18	11-Jan-13 A	17-Jan-13 A													NB31 (CH 90-183.6) : Installation Panel																																																																							
S21N3100	Remaining NB31 Installation of Panel	-55	98.01%	7	27-Jun-13 A	27-Jan-14																									Remaining NB31 Installation of Panel																																																											
Traffic Control & Surveillance System							TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)																								TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)																																																											
S21N4800	TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)		100%	50	10-Jan-13 A	07-Sep-13 A																									TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)																																																											
Landscaping							Landscaping Works																								Landscaping Works																																																											
S21N6000	Landscaping Works	-73	50%	25	02-Nov-13 A	19-Feb-14																									Landscaping Works																																																											
South Bound Preliminaries							Site Clearance/Access Rd																								Site Clearance/Access Rd																																																											
S21S0000	Site Clearance/Access Rd		100%	48	15-Oct-10 A	10-Dec-10 A																									Site Clearance/Access Rd																																																											

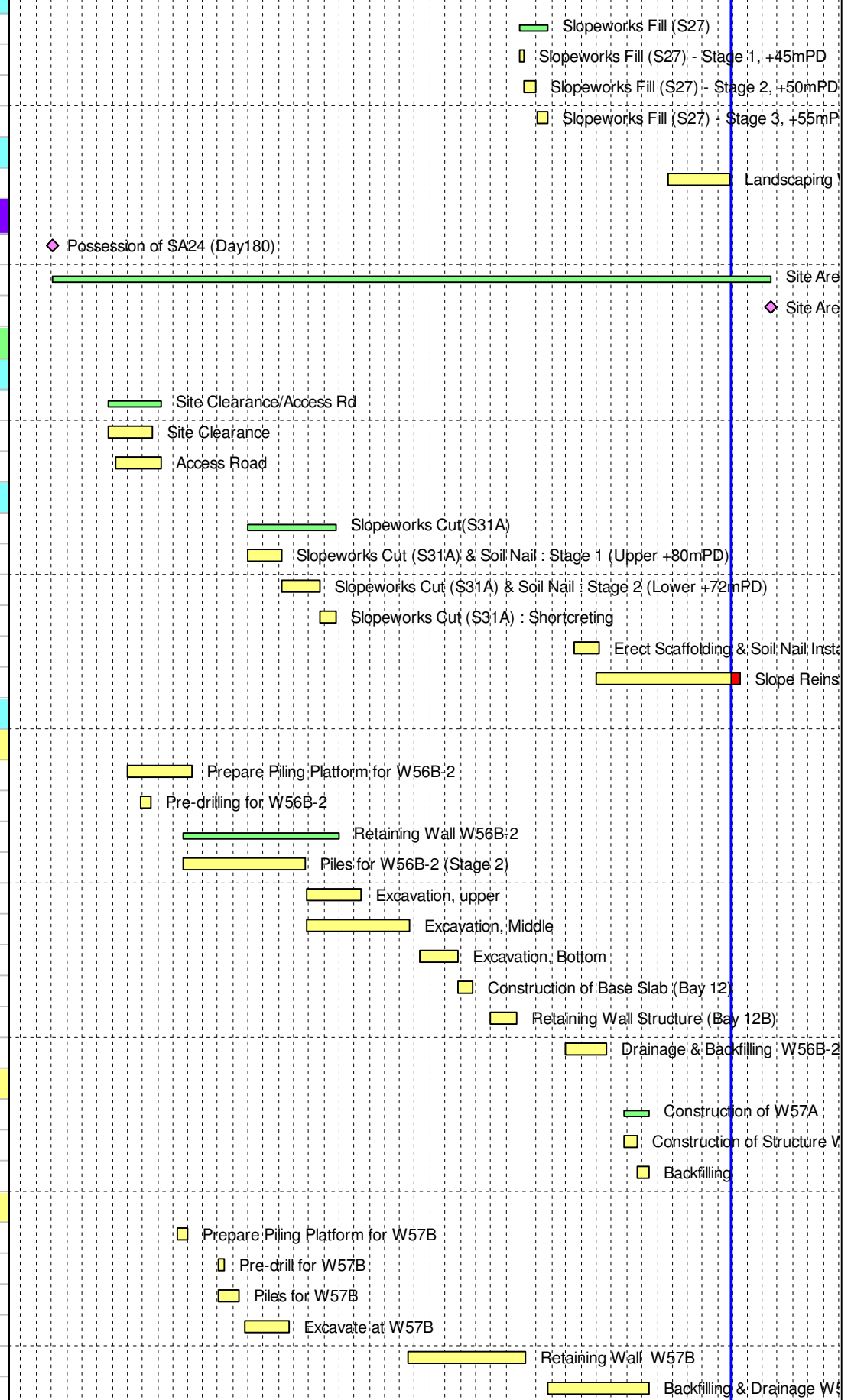
Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011												2012												2013												2014															
							Q1				Q2				Q3				Q4				Q1				Q2				Q3				Q4				Q1				Q2				Q3				Q4				Q1				Q2				Q3				Q4			
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
S21S0010	Site Clearance		100%	36	15-Oct-10 A	26-Nov-10 A																																																																
S21S0030	Access Road		100%	34	02-Nov-10 A	10-Dec-10 A																																																																
Slopeworks																																																																						
S21S5000	Slopeworks Fill(S26)	-80	97.19%	40	25-Mar-13 A	28-Jan-14																																																																
S21S5010	Slopeworks Fill(S26) - Lower +50mPD		100%	15	25-Mar-13 A	10-May-13 A																																																																
S21S5020	Slopeworks Fill(S26) - Upper +55mPD	-80	95%	23	13-May-13 A	28-Jan-14																																																																
S21S5100	Slopeworks Fill(S27)		100%	120	09-Jan-13 A	25-Jan-14 A																																																																
S21S5110	Slopeworks Fill(S27) - Lower +50mPD		100%	60	09-Jan-13 A	17-Jan-13 A																																																																
S21S5120	Slopeworks Fill(S27) - Lower +55mPD		100%	60	18-Jan-13 A	25-Jan-14 A																																																																
Extension of Culverts																																																																						
S21S1100	Extension of Box Culvert (TP9), Downstream		100%	60	20-Dec-12 A	06-Feb-13 A																																																																
S21S5130	Temporary Water Diversion		100%	12	20-Dec-12 A	28-Dec-12 A																																																																
S21S5140	Construction of Base Slab, Wall & Top Slab		100%	48	29-Dec-12 A	06-Feb-13 A																																																																
Construction of Retaining Wall																																																																						
Retaining Wall W50																																																																						
S21S2000	Sheet Pile/Excavate & Construct W50 (w/SP)		100%	215	21-May-12 A	23-Apr-13 A																																																																
S21S2010	Sheet Pile & ELS Works		100%	24	21-May-12 A	07-Sep-12 A																																																																
S21S2020	Construction of W50 Structure		100%	75	02-Jan-13 A	19-Mar-13 A																																																																
S21S2030	Backfilling		100%	50	20-Mar-13 A	23-Apr-13 A																																																																
Retaining Wall W51-56 (CSD 3)																																																																						
S21S2100	Sheet Pile / Excavate & Construct W51-56 (w/SP)		100%	216	25-Feb-11 A	27-Dec-12 A																																																																
S21S2110	Sheet Pile & ELS Works (W51)		100%	24	25-Feb-11 A	11-May-11 A																																																																
S21S2120	Construction of W51 Structure		100%	42	19-Apr-11 A	14-Jun-11 A																																																																
S21S2130	Sheet Pile & ELS Works (W52 & W53)		100%	24	28-Jul-11 A	16-Sep-11 A																																																																
S21S2140	Construction of W52 & W53 Structure		100%	42	17-Oct-11 A	05-Dec-11 A																																																																
S21S2150	Backfilling of W51, W52 & W53		100%	24	17-Jan-12 A	27-Dec-12 A																																																																
S21S2160	Sheet Pile & ELS Works (W54, 55 & 56)		100%	24	17-Feb-12 A	03-Mar-12 A																																																																
S21S2170	Construction of W54, 55 & 56 Structure		100%	75	15-Feb-12 A	06-Jul-12 A																																																																
S21S2180	Backfilling of W54, 55 & 56		100%	30	02-Aug-12 A	27-Dec-12 A																																																																
S21S2190	Backfilling behind W51 to W56 and drainage works		100%	70	04-Mar-13 A	25-Nov-13 A																																																																
Retaining Wall W51A(CSD 3)																																																																						
S21S2163	Excavate to cut-off level		100%	8	17-Jan-11 A	25-Jan-11 A																																																																
S21S2164	Capping/Walling for W51A		100%	18	12-Jul-11 A	01-Aug-11 A																																																																
S21S2165	Backfilling		100%	30	28-Dec-11 A	04-Feb-12 A																																																																
Retaining Wall W35A, (CSD 2)																																																																						
S21S2211	Construction of W35A (w/MP)		100%	198	13-Apr-12 A	05-Dec-12 A																																																																
S21S2212	Removal of existing concrete structure at W35A		100%	35	13-Apr-12 A	03-Jul-12 A																																																																
S21S2218	Mini Piles for W35A (8 nos.)		100%	30	25-Jul-12 A	14-Aug-12 A																																																																
S21S2230	Excavation and tie back installation		100%	25	15-Aug-12 A	09-Oct-12 A																																																																
S21S2240	Capping/Walling for W35A		100%	40	10-Oct-12 A	24-Nov-12 A																																																																
S21S2250	Backfilling		100%	6	29-Nov-12 A	05-Dec-12 A																																																																
Road Re-construction Works, Roadworks & Drainage																																																																						
S21S3895	Roadwork (South Bound slow lane along W35A)		100%	6	06-Dec-12 A	09-Dec-12 A																																																																
S21S3896	Roadwork (South Bound slow lane along W50 - W56)		100%	30	01-Feb-13 A	29-Apr-13 A																																																																
S21S3900	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-58	97.9%	150	25-Jan-13 A	30-Jan-14																																																																
S21S4001	Removal of Existing Paving		100%	40	25-Jan-13 A	25-Jan-14 A																																																																
S21S4002	Drainages (incl. VO33: Drainage details at W48)	-59	95%	30	14-Sep-13 A	28-Jan-14																																																																
S21S4003	Utilities (incl. VO 26 & VO69)	-59	90%	30	27-Jul-13 A	04-Feb-14																																																																

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011												2012												2013												2014											
							Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4														
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
S21M400	Backfilling (Stage 1: Bay 1 - Bay 2)		100%	10	18-Mar-13 A	20-Apr-13 A	Backfilling (Stage 1: Bay 1 - Bay 2)																																																											
S21M401	Backfilling (Stage 2: Bay 3 - Bay 26)	-66	90%	20	15-Jul-13 A	28-Jan-14	Backfilling (Stage 2: Bay 3 - Bay 26)																																																											
S21M403	Road Lighting Works	-66	85%	10	29-Apr-13 A	30-Jan-14	Road Lighting Works																																																											
S21M404	Remaining Roadworks & Road Surfacing	-66	80%	40	03-Oct-13 A	12-Feb-14	Remaining Roadworks & Road Surfacing																																																											
Ready For Pre-Handover Retaining Wall of Section 1																																																																		
HRW0010	Ready For Pre-Handover Retaining Wall W35, W36, W38, W39, W40, W44, W45, W46, W47, W48, W49	-62	0%	7	27-Jan-14	06-Feb-14	Ready For Pre-Handover Retaining Wall W35, W36, W38, W39, W40, W44, W45, W46, W47, W48, W49																																																											
HRW0011	Ready For Pre-Handover Retaining Wall W35A, W50, W51, W52, W53, W54, W55, W56	-62	0%	7	27-Jan-14	06-Feb-14	Ready For Pre-Handover Retaining Wall W35A, W50, W51, W52, W53, W54, W55, W56																																																											
Section 2																																																																		
Site Area SA22																																																																		
PHSA2220	Possession of SA22 (Day0)		100%	0	26-Feb-10 A		Possession of SA22 (Day0)																																																											
SA220000	Site Area SA22 Works Period (incl. VO 28: Provision of hoarding at site boundry of SA 22)	96	95.48%	1216	26-Feb-10 A	22-Mar-14	Site Area SA22 Works Period (incl. VO 28: Provision of hoarding at site boundry of SA 22)																																																											
SA220010	Site Area SA22 Works Completion	96	0%	0		22-Mar-14	Site Area SA22 Works Completion																																																											
SA220020	Temporary Traffic Management (Detail shall refer to supplementary information)	96	94.42%	985	25-Feb-10 A	22-Mar-14	Temporary Traffic Management (Detail shall refer to supplementary information)																																																											
SA220030	Overall Utilities Diversion (Detail shall refer to supplementary information)	96	94.42%	985	25-Feb-10 A	22-Mar-14	Overall Utilities Diversion (Detail shall refer to supplementary information)																																																											
North Bound																																																																		
Preliminaries																																																																		
S22N0000	Site Clearance/Access Rd (W56A&W56B)		100%	90	26-Feb-10 A	18-Jun-10 A	Site Clearance/Access Rd (W56A&W56B)																																																											
S22N0001	Site Clearance - Stage 1 (Near W56A)		100%	30	26-Feb-10 A	01-Apr-10 A	Site Clearance - Stage 1 (Near W56A)																																																											
S22N0002	Access Road - Stage 1 (Near W56A)		100%	30	22-Mar-10 A	29-Apr-10 A	Access Road - Stage 1 (Near W56A)																																																											
S22N0003	Site Clearance - Stage 2 (Near W56B)		100%	30	19-Apr-10 A	25-May-10 A	Site Clearance - Stage 2 (Near W56B)																																																											
S22N0004	Access Road - Stage 2 (Near W56B)		100%	30	13-May-10 A	18-Jun-10 A	Access Road - Stage 2 (Near W56B)																																																											
S22N0030	Erection of Temp Safety Fence (N/B ch2840-3150)		100%	60	10-May-10 A	21-Jul-10 A	Erection of Temp Safety Fence (N/B ch2840-3150)																																																											
S22N0040	Erection of Temp Safety Fence (N/B ch2840-3000)		100%	30	10-May-10 A	14-Jun-10 A	Erection of Temp Safety Fence (N/B ch2840-3000)																																																											
S22N0050	Erection of Temp Safety Fence (N/B ch3000-3150)		100%	30	15-Jun-10 A	21-Jul-10 A	Erection of Temp Safety Fence (N/B ch3000-3150)																																																											
Slopeworks																																																																		
S22N5000	Slopeworks Cut & U-Channel/Berm (S29-sn), C4		100%	421	22-Jul-10 A	17-Dec-11 A	Slopeworks Cut & U-Channel/Berm (S29-sn), C4																																																											
S22N5010	Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)		100%	12	22-Jul-10 A	04-Aug-10 A	Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)																																																											
S22N5020	Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)		100%	12	26-Mar-11 A	09-Apr-11 A	Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)																																																											
S22N5040	Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)		100%	50	19-Aug-10 A	19-Oct-10 A	Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)																																																											
S22N5050	Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)		100%	21	02-Apr-11 A	30-Apr-11 A	Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)																																																											
S22N5070	Slopeworks (S29) & U-Channel/Berm - Stage 3 (Cutslope)		100%	28	21-Oct-10 A	13-Nov-10 A	Slopeworks (S29) & U-Channel/Berm - Stage 3 (Cutslope)																																																											
S22N5080	Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)		100%	36	27-Jun-11 A	08-Aug-11 A	Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)																																																											
S22N5100	Slopeworks (S29) & U-Channel/Berm - Stage 4 (Cutslope)		100%	36	26-Oct-11 A	07-Dec-11 A	Slopeworks (S29) & U-Channel/Berm - Stage 4 (Cutslope)																																																											
S22N5110	Slopeworks (S29) - Stage 4 (Soil Nail Installation : EFGH)		100%	36	07-Nov-11 A	28-Nov-11 A	Slopeworks (S29) - Stage 4 (Soil Nail Installation : EFGH)																																																											
S22N5130	Slopeworks (S29) & U-Channel/Berm - Stage 5 (Cutslope)		100%	36	03-Jan-13 A	31-Jan-13 A	Slopeworks (S29) & U-Channel/Berm - Stage 5 (Cutslope)																																																											
S22N5140	Slopeworks (S29) - Stage 5 (Soil Nail Installation : ABCD)		100%	36	21-Nov-11 A	03-Jan-13 A	Slopeworks (S29) - Stage 5 (Soil Nail Installation : ABCD)																																																											
S22N5160	Slopeworks (S29) & U-Channel/Berm - Stage 6 (Cutslope)		100%	36	22-Apr-13 A	15-Oct-13 A	Slopeworks (S29) & U-Channel/Berm - Stage 6 (Cutslope)																																																											
Construction of Retaining Wall																																																																		
Retaining Wall W56A, (CSD 1)																																																																		
S22N2154	Excavate to cut-off level (Stage 1, Bay 1 - 5)		100%	60	20-Apr-11 A	06-Jul-11 A	Excavate to cut-off level (Stage 1, Bay 1 - 5)																																																											
S22N2155	Excavate to cut-off level (Stage 2, Bay 5 - 9)		100%	50	26-Sep-11 A	24-Nov-11 A	Excavate to cut-off level (Stage 2, Bay 5 - 9)																																																											
S22N2160	Base Slab for W56A		100%	141	05-Jul-11 A	19-Dec-11 A	Base Slab for W56A																																																											
S22N2165	Base Slab for W56A (Stage 1), South		100%	50	05-Jul-11 A	17-Sep-11 A	Base Slab for W56A (Stage 1), South																																																											
S22N2166	Base Slab for W56A (Stage 2), North		100%	56	04-Jun-12 A	14-Jul-12 A	Base Slab for W56A (Stage 2), North																																																											
S22N2170	Wall Stem		100%	172	11-Aug-11 A	17-Nov-12 A	Wall Stem																																																											
S22N2171	Wall Stem (Bay 1e & 1f)		100%	25	11-Aug-11 A	23-Sep-11 A	Wall Stem (Bay 1e & 1f)																																																											

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010				2011				2012				2013				2014		
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
S22N2173	Wall Stem (Bay 1c & 1d, 1a & 1b, 1g)		100%	25	26-Sep-11 A	26-Oct-11 A																			
S22N2174	Wall Stem (Bay 2a, 2bnb, 2b)		100%	75	16-Jul-12 A	13-Oct-12 A																			
S22N2175	Wall Stem (Bay 2c, 2d)		100%	30	06-Aug-12 A	03-Nov-12 A																			
S22N2176	Wall Stem (Bay 3)		100%	25	31-Aug-12 A	17-Nov-12 A																			
S22N2186	Backfilling		100%	30	19-Nov-12 A	26-Jan-13 A																			
Retaining Wall W56B (AD 1)																									
S22N2210	Prepare Piling Platform for W56B		100%	37	02-Oct-10 A	11-Feb-11 A																			
S22N2220	Pre-drilling for W56B		100%	37	02-Oct-10 A	15-Nov-10 A																			
S22N2240	Pipe Pile for W56B		100%	98	20-Nov-10 A	21-Mar-11 A																			
S22N2241	Pipe Pile for W56B - Stage 1		100%	75	20-Nov-10 A	23-Feb-11 A																			
S22N2242	Pipe Pile for W56B - Stage 2		100%	75	31-Jan-11 A	23-Sep-11 A																			
S22N2250	Construction of W56B		100%	276	17-Sep-11 A	06-Apr-13 A																			
S22N2251	Excavation (W56B), upper		100%	75	17-Sep-11 A	05-Jan-12 A																			
S22N2252	Excavation (W56B), Middle		100%	60	06-Jan-12 A	26-May-12 A																			
S22N2254	Excavation (W56B), bottom		100%	60	11-May-12 A	29-Sep-12 A																			
S22N2260	Base Slab (W56B), (Bay 1 -3)		100%	25	27-Jul-12 A	10-Sep-12 A																			
S22N2262	Base Slab (W56B), (Bay 4 - 8)		100%	60	27-Sep-12 A	10-Nov-12 A																			
S22N2264	Base Slab (W56B), (Bay 9, 10 & 12A)		100%	35	27-Jul-12 A	13-Oct-12 A																			
S22N2270	Wall Stem (W56B), (Bay 1 - 3, Total 18 pours)		100%	75	01-Nov-12 A	06-Apr-13 A																			
S22N2274	Wall Stem (W56B), (Bay 4 - 8, Total 30 pours)		100%	75	12-Nov-12 A	06-Apr-13 A																			
S22N2276	Wall Stem (W56B), (Bay 9 - 10, Total 12 pours)		100%	75	24-Nov-12 A	06-Apr-13 A																			
S22N2290	Backfilling (Bay 1 to Bay 3)		100%	15	10-Jan-13 A	19-Jan-13 A																			
S22N2292	Backfilling (Bay 4 to Bay 10)		100%	30	14-Jan-13 A	05-Mar-13 A																			
Roadworks & Drainage																									
S22N4000	Roadworks, Drainages & Utilities (CH 2840 - 3140)		100%	129	15-Jan-13 A	07-Dec-13 A																			
S22N4010	Roadworks Stage 1 (CH 2840 - 3000)		100%	30	15-Jan-13 A	29-Mar-13 A																			
S22N4030	Drainages Stage 1 (CH2840 - 3000)		100%	30	15-Jan-13 A	05-Mar-13 A																			
S22N4040	Road Surface Works		100%	30	21-Mar-13 A	23-Apr-13 A																			
S22N4042	Roadworks Stage 2 (CH3000 - 3140)		100%	30	18-Mar-13 A	30-Jul-13 A																			
S22N4044	Drainages Stage 2 (CH3000 - 3140)		100%	30	20-Feb-13 A	11-Apr-13 A																			
S22N4046	Road Surface Works		100%	30	17-May-13 A	18-Aug-13 A																			
S22N4048	Road Construction Works Remain Fast Lane (along CH2840 - 3140)		100%	50	25-Nov-13 A	07-Dec-13 A																			
Noise Barriers																									
Noise Barrier NB31A																									
S22N3020	NB31A (CH 0-21.9) on W56A (incl. VO 9: Construction of double leaf access door for noise barrier)		100%	74	15-Oct-12 A	22-Nov-12 A																			
S22N3021	NB31A (CH 0-21.9) on W56A : Erecting H-Column		100%	38	15-Oct-12 A	19-Oct-12 A																			
S22N3022	NB31A (CH 0-21.9) on W56A : Installing Panel		100%	36	22-Oct-12 A	22-Nov-12 A																			
South Bound																									
Preliminaries																									
S22S0000	Site Clearance/Access Rd		100%	84	01-Apr-10 A	16-Jul-10 A																			
S22S0010	Site Clearance		100%	72	01-Apr-10 A	02-Jul-10 A																			
S22S0020	Access Road		100%	72	20-Apr-10 A	16-Jul-10 A																			
Slopeworks																									
S22S5000	Slopeworks Cut(S28-sn) (incl. VO15: Revised Layout of Slope S28)		100%	198	21-Oct-10 A	17-Aug-11 A																			
S22S5010	Slopeworks Cut(S28) - Stage 1 (Cutslope)		100%	23	21-Oct-10 A	16-Nov-10 A																			
S22S5030	Slopeworks Cut(S28) - Stage 1 (Soil Nail Installation : IJKL)		100%	23	17-Nov-10 A	08-Feb-11 A																			
S22S5040	Slopeworks Cut(S28) - Stage 2 (Cutslope)		100%	37	11-Dec-10 A	03-Jan-11 A																			

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014																							
							Q1			Q2			Q3			Q4			Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4		Q1	Q2	Q3																	
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
S22S5060	Slopecuts Cut(S28) - Stage 2 (Soil Nail Installation : EFGH)		100%	37	08-Feb-11 A	23-Mar-11 A																																																
S22S5070	Slopecuts Cut(S28) - Stage 3 (Cutslope)		100%	36	06-Jul-11 A	17-Aug-11 A																																																
S22S5090	Slopecuts Cut(S28) - Stage 3 (Soil Nail Installation : ABCD)		100%	36	20-Aug-11 A	04-Oct-11 A																																																
S22S5100	Slope Reinstatement Works (Bridge 12B)	-61	0%	25	27-Jan-14	27-Feb-14																																																
Construction of Retaining Wall																																																						
Retaining Wall RWB12B																																																						
S22S2110	Pre-drilling for RWB12B		100%	24	16-Jul-10 A	12-Aug-10 A																																																
S22S2120	Piles for RWB12B		100%	116	13-Aug-10 A	20-Nov-10 A																																																
S22S2130	Excavate to cut-off level		100%	60	26-Jan-11 A	09-Apr-11 A																																																
S22S2140	Capping/Walling for Bay 1-2, RWB12B		100%	60	28-Mar-11 A	10-May-12 A																																																
S22S2142	Capping/Walling for Bay 3-6, RWB12B		100%	75	11-May-12 A	03-Sep-12 A																																																
S22S2150	Backfilling		100%	60	04-Sep-12 A	22-Jun-13 A																																																
Road Re-construction Works, Roadworks & Drainage																																																						
S22S4000	Road Re-construction Works (CH 2840 - 3450)	-57	75.64%	185	06-May-13 A	22-Mar-14																																																
S22S4405	Road and Drainages Works for Fast Lane (CH2840 - 3000)	-56	95%	45	06-May-13 A	29-Jan-14																																																
S22S4410	Road Surface Works for Fast Lane (CH2840 - 3000)	-56	95%	12	26-Nov-13 A	29-Jan-14																																																
S22S4415	Road Re-Construction Works for Mid 2 Lane (CH2840 - 3000)	-49	70%	24	20-Dec-13 A	11-Feb-14																																																
S22S4420	Road and Drainages Works for Fast and Mid Lane (CH3000 - 3450)	-56	20%	18	26-Nov-13 A	19-Feb-14																																																
S22S4425	Road Surface Works for Fast Lane and Mid Lane (CH3000 - 3450)	-56	0%	10	19-Feb-14	03-Mar-14																																																
S22S4430	Road and Drainages Works for Slow Lane (CH2840 - 3450)	-56	0%	10	03-Mar-14	14-Mar-14																																																
S22S4435	Road Surface Works for Slow Lane (CH3000 - 3450)	-56	0%	7	14-Mar-14	22-Mar-14																																																
S22S4440	Road Construction Works Remaining Works (along CH2840 - 3450)	-57	0%	12	10-Mar-14	22-Mar-14																																																
S22S4500	Roadworks for Realignment of Existing Shek Lin Road	-55	0%	18	28-Feb-14	20-Mar-14																																																
Traffic Control & Survelance System																																																						
S22S4820	TCSS - (Gantry 60) (incl. VO73 Revised Sign Gantry Details)	-56	60%	50	16-Sep-13 A	22-Mar-14																																																
Modification of Existing Bridge 12																																																						
S22S1300	Demolish Existing Parapet & Stitching Works for bridge 12 & 12B (incl. VO3 & VO29)	-51	44.29%	70	16-Sep-13 A	15-Mar-14																																																
S22S1315	VO 3: Existing Bridge 12 pile cap construction		100%	30	17-Sep-10 A	15-Feb-11 A																																																
S22S1322	Removal of Existing Steel Barrier and Surface	-24	85%	8	22-Jul-13 A	28-Jan-14																																																
S22S1323	Stitching Works of Existing Bridge Decks B12 and B12B	-24	80%	20	08-Aug-13 A	05-Feb-14																																																
S22S1324	Road Surface of B12B for TW Slip Road	-24	0%	7	05-Feb-14	13-Feb-14																																																
S22S1326	Removal of existing central barrier along B12 and Erection breaking platform	-57	70%	12	16-Sep-13 A	30-Jan-14																																																
S22S1328	Breaking the existing stitch of B12 and condition survey	-57	50%	18	14-Dec-13 A	08-Feb-14																																																
S22S1329	Removal M.J and Replacement M.J	-57	50%	8	26-Nov-13 A	13-Feb-14																																																
S22S1331	Stitching Works for B12	-57	0%	20	14-Feb-14	08-Mar-14																																																
S22S1332	Road Surface Works	-51	0%	6	10-Mar-14	15-Mar-14																																																
Landscaping																																																						
S22S6000	Landscaping Works	-61	20%	30	23-Sep-13 A	27-Mar-14																																																
Site Area SA23																																																						
PHSA2320	Possession of SA23 (Day180)		100%	0	04-May-10 A																																																	
SA230000	Site Area SA23 Works Period		100%	586	16-Jul-10 A	25-Jan-14 A																																																
SA230010	Site Area SA23 Works Completion	151	0%	0		27-Jan-14																																																
South Bound																																																						
Preliminaries																																																						
S23S0000	Site Clearance / Site Access		100%	144	28-Dec-11 A	24-Aug-13 A																																																
S23S1000	Site Clearance		100%	72	28-Dec-11 A	27-Dec-12 A																																																
S23S2000	Site Access		100%	72	28-Dec-12 A	24-Aug-13 A																																																

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014			
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	1	2	3	4	1	2	3	4				
Slopeworks																																		
S21N2638	Slopeworks Fill (S27)		100%	99	29-Nov-12 A	24-Jan-13 A																												
S21N26381	Slopeworks Fill (S27) - Stage 1, +45mPD		100%	33	29-Nov-12 A	07-Dec-12 A																												
S21N26382	Slopeworks Fill (S27) - Stage 2, +50mPD		100%	33	08-Dec-12 A	31-Dec-12 A																												
S21N26383	Slopeworks Fill (S27) - Stage 3, +55mPD		100%	33	04-Jan-13 A	24-Jan-13 A																												
Landscaping																																		
S23S6000	Landscaping Works		100%	50	23-Sep-13 A	25-Jan-14 A																												
Site Area SA24																																		
PHSA2410	Possession of SA24 (Day180)		100%	0	04-May-10 A																													
SA240000	Site Area SA24 Works Period	-95	89.85%	788	04-May-10 A	16-Apr-14																												
SA240010	Site Area SA24 Works Completion	71	0%	0		16-Apr-14																												
North Bound																																		
Preliminaries																																		
S24N0000	Site Clearance/Access Rd		100%	89	25-Aug-10 A	09-Dec-10 A																												
S24N0010	Site Clearance		100%	72	25-Aug-10 A	19-Nov-10 A																												
S24N0020	Access Road		100%	72	07-Sep-10 A	09-Dec-10 A																												
Slopeworks																																		
S24N5000	Slopeworks Cut(S31A)		100%	150	01-Jun-11 A	25-Nov-11 A																												
S24N5010	Slopeworks Cut (S31A) & Soil Nail : Stage 1 (Upper +80mPD)		100%	60	01-Jun-11 A	06-Aug-11 A																												
S24N5020	Slopeworks Cut (S31A) & Soil Nail : Stage 2 (Lower +72mPD)		100%	60	08-Aug-11 A	22-Oct-11 A																												
S24N5030	Slopeworks Cut (S31A) : Shortcreting		100%	30	24-Oct-11 A	25-Nov-11 A																												
S24N5810	Erect Scaffolding & Soil Nail Installation (Area 4)		100%	60	19-Mar-13 A	08-May-13 A																												
S24N5831	Slope Reinstatement Works (Bridge 12ASA incl. VO74)	-77	80%	75	30-Apr-13 A	15-Feb-14																												
Construction of Retaining Wall																																		
Retaining Wall W56B-2 (Bay 12) (AD)																																		
S24N2110	Prepare Piling Platform for W56B-2		100%	24	02-Oct-10 A	07-Feb-11 A																												
S24N2120	Pre-drilling for W56B-2		100%	18	28-Oct-10 A	18-Nov-10 A																												
S24N2130	Retaining Wall W56B-2		100%	255	21-Jan-11 A	01-Dec-11 A																												
S24N2140	Piles for W56B-2 (Stage 2)		100%	75	21-Jan-11 A	23-Sep-11 A																												
S24N2150	Excavation, upper		100%	75	26-Sep-11 A	13-Jan-12 A																												
S24N2152	Excavation, Middle		100%	60	26-Sep-11 A	19-Apr-12 A																												
S24N2155	Excavation, Bottom		100%	75	11-May-12 A	26-Jul-12 A																												
S24N2160	Construction of Base Slab (Bay 12)		100%	75	27-Jul-12 A	25-Aug-12 A																												
S24N2162	Retaining Wall Structure (Bay 12B)		100%	40	01-Oct-12 A	23-Nov-12 A																												
S24N2170	Drainage & Backfilling W56B-2		100%	75	27-Feb-13 A	22-May-13 A																												
Retaining Wall W57A																																		
S24N2200	Construction of W57A		100%	35	26-Jun-13 A	17-Aug-13 A																												
S24N2202	Construction of Structure W57A (W57B - bay1 to bay2)		100%	20	26-Jun-13 A	23-Jul-13 A																												
S24N2203	Backfilling		100%	7	22-Jul-13 A	17-Aug-13 A																												
Retaining Wall W57B (AD 2)																																		
S24N2310	Prepare Piling Platform for W57B		100%	18	11-Jan-11 A	31-Jan-11 A																												
S24N2320	Pre-drill for W57B		100%	20	01-Apr-11 A	13-Apr-11 A																												
S24N2330	Piles for W57B		100%	45	01-Apr-11 A	14-May-11 A																												
S24N2340	Excavate at W57B		100%	75	26-May-11 A	23-Aug-11 A																												
S24N2360	Retaining Wall W57B		100%	75	19-Apr-12 A	11-Dec-12 A																												
S24N2370	Backfilling & Drainage W57B		100%	60	25-Jan-13 A	17-Aug-13 A																												
Retaining Wall W57C, (CSD 2)																																		



Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011												2012												2013												2014											
							Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4														
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Retaining Wall RWB12A																																																																		
S24N2402	Pre-drilling for W57C		100%	20	26-Mar-11 A	19-Apr-11 A																																																												
S24N2404	Piles for W57C		100%	45	01-Apr-11 A	14-May-11 A																																																												
S24N2407	Excavate to cut-off level		100%	75	26-May-11 A	23-Aug-11 A																																																												
S24N2408	Retaining Wall, W57C		100%	75	19-Apr-12 A	13-Dec-12 A																																																												
S24N2420	Backfilling & Drainage for W57C		100%	54	25-Jan-13 A	17-Aug-13 A																																																												
S24N1500	Piling & Construct RWB12A		100%	195	04-Jun-11 A	31-Jan-12 A																																																												
S24N1510	Piling of RWB12A, Stage 1 (28/34 nos)		100%	60	04-Jun-11 A	31-Aug-11 A																																																												
S24N1515	Piling of RWB12A, Stage 2 (6nos)		100%	24	01-Sep-11 A	23-Sep-11 A																																																												
S24N1517	Piles Load Test		100%	36	26-Nov-11 A	10-Jan-12 A																																																												
S24N1520	Construction of Base Slab, RWB12A		100%	60	23-Apr-12 A	17-Apr-13 A																																																												
S24N1522	Construction of Wall, RWB12A		100%	40	18-Apr-13 A	07-Jun-13 A																																																												
S24N1530	Backfilling		100%	20	09-May-13 A	25-Jun-13 A																																																												
S24N1540	Construction the wing slab of RWB12A		100%	30	16-Sep-13 A	09-Nov-13 A																																																												
Roadworks, Drainage & Utilities																																																																		
S24N4000	Roadworks, Drainages & Utilities (ch3140-3400, exclude B12A)		100%	109	19-Aug-13 A	07-Dec-13 A																																																												
S24N4015	Road and Drainage Works		100%	10	19-Aug-13 A	14-Sep-13 A																																																												
S24N4025	Road Surface Works for Mid and Slow Lane		100%	14	27-Aug-13 A	14-Sep-13 A																																																												
S24N4026	TTA - Stage 4B-3		100%	0		14-Sep-13 A																																																												
S24N4035	Road Construction Fast Lane and Remaining Works (along CH3140 - 3400)		100%	50	26-Oct-13 A	07-Dec-13 A																																																												
Landscaping																																																																		
S24N6000	Landscaping Works	-77	0%	50	17-Feb-14	16-Apr-14																																																												
Site Area SA25																																																																		
PHSA2520	Possession of SA25 (Day270)		100%	0	04-May-10 A																																																													
SA250000	Site Area SA25 Works Period (incl, Provision of hoarding at site boundary of SA25)	118	95.68%	770	04-May-10 A	01-Mar-14																																																												
SA250010	Site Area SA25 Works Completion	118	0%	0		01-Mar-14																																																												
SA250020	Temporary Traffic Management (Detail shall refer to supplementary information)	95	96.57%	765	04-May-10 A	01-Mar-14																																																												
SA250030	Overall Utility Diversion (Detail shall refer to supplementary information)	95	96.57%	765	04-May-10 A	01-Mar-14																																																												
South Bound																																																																		
Preliminaries																																																																		
S25S0000	Site Clearance/Access Rd (ch3400-3600)		100%	97	20-Oct-10 A	16-Feb-11 A																																																												
S25S0010	Site Clearance (ch3400-3600)		100%	75	20-Oct-10 A	18-Jan-11 A																																																												
S25S0020	Access Road (ch3400-3600)		100%	75	15-Nov-10 A	16-Feb-11 A																																																												
Slopeworks																																																																		
S25S5000	Slopeworks Fill(S30A)		100%	60	15-Oct-12 A	10-Nov-12 A																																																												
S25S5010	Slopeworks Fill (S30A) - Stage 1: +53.5mPD		100%	30	15-Oct-12 A	30-Oct-12 A																																																												
S25S5020	Slopeworks Fill (S30A) - Stage 2: 55.8mPD		100%	30	31-Oct-12 A	10-Nov-12 A																																																												
S25S5110	Slope Reinstatement Works (Bridge 13A)	-38	65%	25	26-Sep-13 A	08-Feb-14																																																												
S25S5140	Slope Reinstatement Works (Bridge LB1)	-38	65%	25	26-Sep-13 A	19-Feb-14																																																												
S25S5150	Slope Reinstatement Works (S30A)	-38	65%	25	28-Sep-13 A	01-Mar-14																																																												
Construction of Retaining Wall																																																																		
Retaining Wall W58B, (CSD 2)																																																																		
S25S2020	Site Formation		100%	25	01-Nov-10 A	30-Nov-10 A																																																												
S25S2030	Excavate to cut-off level		100%	10	01-Nov-10 A	31-Dec-10 A																																																												
S25S2050	Construction of Structure W58B		100%	75	13-May-11 A	15-Sep-12 A																																																												
S25S2060	Backfilling		100%	45	05-Nov-12 A	08-Feb-13 A																																																												
Road Re-construction Works, Roadworks & Drainage																																																																		

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010				2011				2012				2013				2014		
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
S26S1384	Base slab of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	75	26-Nov-11 A	10-Nov-12 A	[Gantt bar] Base slab of RWTW2 (stage 1 & 2: half Bay1																		
S26S1386	Wall of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	48	12-Nov-12 A	22-Jan-13 A	[Gantt bar] Wall of RWTW2 (stage 1 & 2: half Bay1																		
S26S1520	Construction of Remain of RWTW2 (stage 3: Remaining Half Bay 1, Connection to LB2)		100%	50	18-Feb-13 A	04-Jun-13 A	[Gantt bar] Construction of Remain of RW																		
S26S1530	Backfilling of RWTW2		100%	20	02-May-13 A	18-Jun-13 A	[Gantt bar] Backfilling of RWTW2																		
S26S1540	Roadworks		100%	20	22-Aug-13 A	25-Sep-13 A	[Gantt bar] Roadworks																		
Retaining Wall RWTW3, (VO)																									
S26S1389	Pre-drilling for RWTW3		100%	12	28-Dec-10 A	11-Jan-11 A	[Gantt bar] Pre-drilling for RWTW3																		
S26S1390	Piling/Excavate & Construct RWTW3		100%	708	01-Aug-11 A	25-Sep-13 A	[Gantt bar] Piling/Excavate & Const																		
S26S1591	Piling for RWTW3		100%	24	01-Aug-11 A	23-Sep-11 A	[Gantt bar] Piling for RWTW3																		
S26S1592	ELS Works & Excavation		100%	24	28-Dec-11 A	28-Jan-12 A	[Gantt bar] ELS Works & Excavation																		
S26S1593	VO 51.1: Modification works of ELS		100%	20	03-Jul-12 A	31-Jul-12 A	[Gantt bar] VO 51.1: Modification works of ELS																		
S26S1596	VO 51.1: Construction RWTW Base Slab (Bay2-8)		100%	60	20-Aug-12 A	10-Nov-12 A	[Gantt bar] VO 51.1: Construction RWTW Base Slab (Ba																		
S26S1598	VO 51.1: Construction RWTW Wall Stem (Bay 2-8)		100%	60	17-Sep-12 A	14-Jan-13 A	[Gantt bar] VO 51.1: Construction RWTW Wall Stem																		
S26S1600	VO 51.1: Temporary cut to slope toe		100%	25	22-Jan-13 A	12-Apr-13 A	[Gantt bar] VO 51.1: Temporary cut to slope to																		
S26S1602	VO 51.1: Rockfill Slope (Bay 1 -Bay 7)		100%	40	13-Apr-13 A	17-Jun-13 A	[Gantt bar] VO:51.1: Rockfill Slope (Bay																		
S26S1604	VO 51.1: Construction RWTW3 (Bay 1)		100%	40	12-Nov-12 A	12-Dec-12 A	[Gantt bar] VO:51.1: Construction RWTW3 (Bay 1)																		
S26S1606	VO 51.1: Remaining Rockfill below LB3	119	90%	20	19-Jun-13 A	28-Jan-14	[Gantt bar] VO 51.1: Rem																		
S26S1608	VO 51.1: Roadworks		100%	30	26-Jun-13 A	25-Sep-13 A	[Gantt bar] VO 51.1: Roadworks																		
Retaining Wall RWTW3A																									
S26S1614	Construction of RWTW 3A		100%	168	01-Oct-12 A	25-Sep-13 A	[Gantt bar] Construction of RWTW																		
S26S1628	ELS works RWTW3A		100%	32	01-Oct-12 A	15-Nov-12 A	[Gantt bar] ELS works RWTW3A																		
S26S1638	Excavation works RWTW 3A		100%	25	16-Nov-12 A	24-Nov-12 A	[Gantt bar] Excavation works RWTW 3A																		
S26S1648	RC wall construction RWTW 3A		100%	70	26-Nov-12 A	27-Apr-13 A	[Gantt bar] RC wall construction RWTW 3A																		
S26S1658	Backfill RWTW 3A		100%	20	06-May-13 A	15-Jun-13 A	[Gantt bar] Backfill RWTW 3A																		
S26S1668	Roadworks		100%	30	26-Jun-13 A	25-Sep-13 A	[Gantt bar] Roadworks																		
Retaining Wall W60 & W61A (CSD 2)																									
S26S2020	Pre-drilling for W60 & W61A		100%	7	06-May-11 A	24-Jun-11 A	[Gantt bar] Pre-drilling for W60 & W61A																		
S26S2030	Mini Piles for W60 & W61A		100%	30	15-Jun-11 A	20-Aug-11 A	[Gantt bar] Mini Piles for W60 & W61A																		
S26S2040	Excavation		100%	50	19-Apr-12 A	25-Aug-12 A	[Gantt bar] Excavation																		
S26S2050	Construct Cap & Wall		100%	52	06-Jun-12 A	31-Aug-12 A	[Gantt bar] Construct Cap & Wall																		
S26S2060	Backfilling		100%	30	04-Sep-12 A	10-Apr-13 A	[Gantt bar] Backfilling																		
Temporary Bridge bet. RWTW2 & RWTW1																									
S26S2520	TTA Stage 5		100%	0	27-Sep-12 A		[Gantt bar] TTA Stage 5																		
Road Re-construction Works, Roadworks, Drainage & Utilities																									
S26S4000	Roadworks, Drainages & Utilities (Landing between B13A & B15A within CH 3600 - 3720)		100%	62	18-Feb-13 A	21-Jun-13 A	[Gantt bar] Roadworks, Drainages & Utili																		
S26S4002	Removal of existing paving of landing area		100%	12	18-Feb-13 A	09-Apr-13 A	[Gantt bar] Removal of existing paving of landi																		
S26S4005	Road Works		100%	25	10-Apr-13 A	31-May-13 A	[Gantt bar] Road Works																		
S26S4006	Drainages Works		100%	15	23-Apr-13 A	30-May-13 A	[Gantt bar] Drainages Works																		
S26S4010	Road Surface Works (incl. VO14: Revised Layout of Police Observation Platform at CH3700)		100%	10	01-Jun-13 A	21-Jun-13 A	[Gantt bar] Road Surface Works (incl. VO																		
Noise Barriers & Road Barriers																									
Noise Barrier NB35																									
S26S3000	Construct Noise Barrier & Beam Barrier, NB35		100%	60	15-Mar-13 A	18-Jun-13 A	[Gantt bar] Construct Noise Barrier & Bea																		
S26S3010	Construct Noise Barrier : foundation Works. NB35		100%	30	15-Mar-13 A	11-May-13 A	[Gantt bar] Construct Noise Barrier : founda																		
S26S3020	Construct Noise Barrier : Installation of H-coulmn & Panel NB35		100%	7	17-May-13 A	18-Jun-13 A	[Gantt bar] Construct Noise Barrier : Inst																		
S26S3030	Remaining Works of NB35	-49	80%	10	27-Aug-13 A	28-Jan-14	[Gantt bar] Remaining,W																		
Traffic Control & Survelance System																									
S26S4800	TCSS		100%	57	12-Mar-13 A	10-Aug-13 A	[Gantt bar] TCSS																		
S26S4810	TCSS - Stage 1 (LB1) (VSL Pole P55)		100%	30	12-Mar-13 A	21-Sep-13 A	[Gantt bar] TCSS - Stage 1 (LB1)																		

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010				2011				2012				2013				2014			
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
South Abutment																										
S24N1260	Piling-South Abutment		100%	29	15-Oct-10 A	19-Jan-11 A																				
S24N1261	Preparing piling platform		100%	18	15-Oct-10 A	05-Nov-10 A																				
S24N1262	Pre-drilling		100%	18	15-Oct-10 A	05-Nov-10 A																				
S24N1263	Piling (21nos)		100%	43	27-Nov-10 A	19-Jan-11 A																				
S24N1310	Excavation & Cap-South Abutment		100%	35	04-May-11 A	04-Jun-11 A																				
S24N1360	Pier & backfill, South Abutment		100%	36	27-Jun-11 A	17-Aug-11 A																				
Pier 1																										
S24N1270	Piling-Pier 1 (15nos)		100%	30	02-Mar-11 A	07-Apr-11 A																				
S24N1320	Cap-Pier 1 & Backfill		100%	36	23-May-11 A	05-Jul-11 A																				
S24N1370	Pier 1 (Pierhead included)		100%	96	26-Sep-11 A	17-Dec-11 A																				
Pier 2																										
S24N1280	Piling-Pier 2 (15nos)		100%	38	02-Aug-10 A	15-Sep-10 A																				
S24N1330	Cap-Pier 2 & Backfill		100%	38	20-Nov-10 A	19-Jan-11 A																				
S24N1380	Pier 2 (Pierhead included)		100%	96	14-Apr-11 A	12-Aug-11 A																				
Pier 3																										
S24N1290	Piling-Pier 3 (15nos)		100%	38	16-Feb-11 A	27-Apr-11 A																				
S24N1340	Cap-Pier 3 & Backfill		100%	32	26-May-11 A	04-Jul-11 A																				
S24N1390	Pier 3 (pierhead included)		100%	96	11-Jul-11 A	02-Nov-11 A																				
North Abutment																										
S24N1300	Pre-drilling & Preparation for Piling (incl. VO 39: Revised Foundation for North Abutment)		100%	24	26-May-11 A	23-Jun-11 A																				
S24N1302	ELS for North abutment		100%	75	19-Jan-12 A	07-Nov-12 A																				
S24N1350	Cap-North Abutment		100%	25	08-Nov-12 A	20-Nov-12 A																				
S24N1400	Abutment, Drainage & backfill, North Abutment		100%	75	21-Nov-12 A	25-Jun-13 A																				
Decking and Finishing																										
S24N1410	Deck-South Abutment to Pier 1		100%	62	07-Dec-11 A	26-Apr-12 A																				
S24N1420	Deck-Pier 1 to Pier 2		100%	75	23-Apr-12 A	30-Aug-12 A																				
S24N1430	Deck-Pier 2 to Pier 3		100%	75	02-Jun-12 A	22-Dec-12 A																				
S24N1434	Erection of Falsework		100%	25	29-Dec-12 A	22-Jan-13 A																				
S24N1440	Deck-Pier 3 to North Abutment		100%	60	22-Jan-13 A	30-Apr-13 A																				
S24N1444	Dismantling of Falsework		100%	25	14-May-13 A	07-Dec-13 A																				
S24N1450	Parapet (incl. precast concrete skin)		100%	21	18-Feb-13 A	09-Jul-13 A																				
S24N1457	Erecting Railing (Short Column and barrier)		100%	10	13-Aug-13 A	14-Sep-13 A																				
S24N1463	Noise Barrier (Erecting H-Column and Panel)		100%	15	06-Jun-13 A	14-Sep-13 A																				
S24N1470	Road Lighting		100%	12	27-Aug-13 A	14-Sep-13 A																				
S24N1480	Surfacing		100%	12	30-Jul-13 A	11-Sep-13 A																				
S24N1490	Inspection and Handover of Bridge 12A		100%	3	12-Sep-13 A	14-Sep-13 A																				
Construction of Bridge LB2																										
S26S1200	Construction of Bridge LB2 (incl. VO29 & 37: revised piling details and pile caps sleeving details)		100%	641	16-Apr-11 A	25-Sep-13 A																				
Preparatory and Enabling Works																										
S26S1205	Gas main Diversion at East Abutment (No Connection)		100%	15	24-Jan-13 A	28-Feb-13 A																				
S26S1215	Temporary Traffic Arrangement for Piling Work		100%	75	28-Dec-11 A	04-Jun-12 A																				
Substructure and Pier Construction																										
TW4																										
S26S1203	Excavation and lateral support		100%	20	05-Mar-12 A	30-Jun-12 A																				
S26S1204	Coring and backfill for Piling works		100%	75	02-Jul-12 A	28-Jul-12 A																				
S26S1212	Piling-TW4 (20)		100%	49	30-Jul-12 A	17-Oct-12 A																				

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish
S26S680	Preparing of Travelling Form		100%	12	28-Dec-11 A	11-Jan-12 A
S26S690	Construction of Cantiliver Deck, TW3		100%	40	12-Jan-12 A	19-Apr-12 A
S26S700	Stitching TW2-TW3		100%	22	18-May-12 A	22-Jun-12 A
S26S720	North End Span		100%	50	18-May-12 A	12-Jul-12 A
S26S740	Parapet (incl. precast concrete skin)		100%	52	05-Nov-12 A	21-Sep-13 A
S26S750	Erecting of Precast Parapet		100%	32	05-Nov-12 A	27-Aug-13 A
S26S760	Installing M-Barrier		100%	6	15-Aug-13 A	21-Sep-13 A
S26S770	Noise Barrier		100%	6	15-Aug-13 A	07-Sep-13 A
S26S780	Surfacing		100%	7	16-Sep-13 A	25-Sep-13 A
S26S790	Road Lighting		100%	7	27-Aug-13 A	14-Sep-13 A
S26S800	Handover Inspection of LB1		100%	1	02-Oct-13 A	02-Oct-13 A

Construction of Bridge 13A

S26S1300	Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and pile caps sleeving details)		100%	744	03-May-10 A	22-Jun-13 A
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Preparatory and Enabling Works

S26S1610	Site Clearance		100%	24	03-May-10 A	31-May-10 A
S26S1611	Access Road		100%	63	03-May-10 A	17-Jul-10 A
S26S1620	Gas main Diversion at North/South Abutment, HKCG		100%	37	01-Jun-10 A	15-Jul-10 A
S26S1690	SA25-Site Clearance		100%	25	26-Feb-11 A	26-Mar-11 A
S26S1700	SA25 Haul Road		100%	25	26-Feb-11 A	26-Mar-11 A
S26S1710	SA25-Gas Main diversion at South Abutment & P1		100%	25	26-Feb-11 A	26-Mar-11 A

Substructure and Pier Construction

North Abutment

S26S1630	Piling-North Abutment		100%	65	16-Jul-10 A	30-Sep-10 A
S26S1631	Pre-drilling & Preparing of piling platform		100%	20	16-Jul-10 A	07-Aug-10 A
S26S1632	Piling		100%	45	09-Aug-10 A	30-Nov-10 A
S26S1650	Excavation & Cap-Nouth Abutment		100%	50	04-Jan-11 A	04-Apr-11 A
S26S1670	Construction of Abutment-Nouth Abutment		100%	50	27-Oct-11 A	17-Dec-11 A
S26S1930	Backfill Stage 1, North Abutment		100%	24	01-Mar-12 A	14-Apr-12 A
S26S1940	Backfill Stage 2, North Abutment		100%	60	15-Oct-12 A	24-Apr-13 A

South Abutment

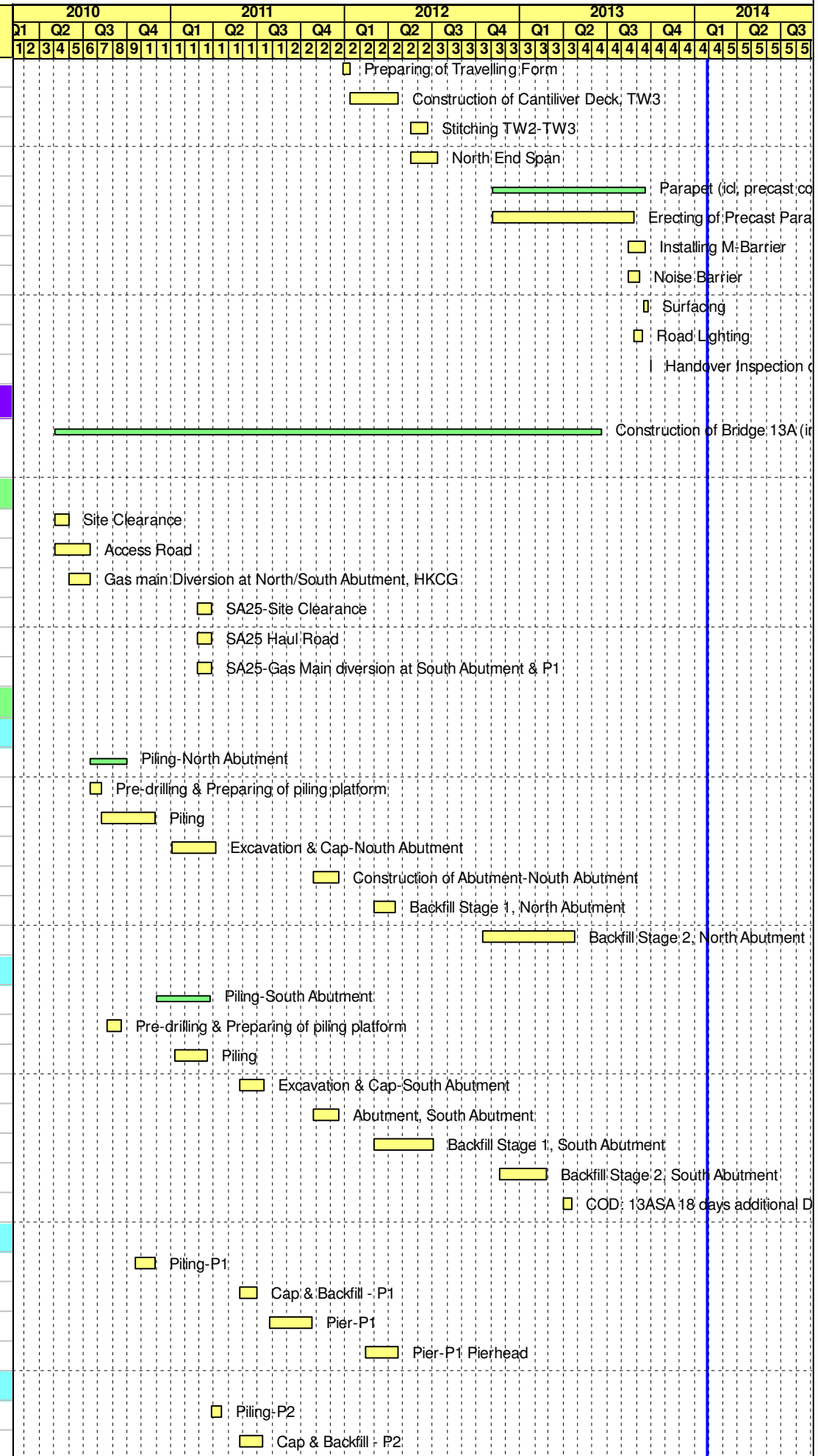
S26S1720	Piling-South Abutment		100%	90	02-Dec-10 A	23-Mar-11 A
S26S1721	Pre-drilling & Preparing of piling platform		100%	30	20-Aug-10 A	20-Sep-10 A
S26S1722	Piling		100%	60	10-Jan-11 A	17-Mar-11 A
S26S1750	Excavation & Cap-South Abutment		100%	40	26-May-11 A	14-Jul-11 A
S26S1780	Abutment, South Abutment		100%	38	26-Oct-11 A	17-Dec-11 A
S26S1950	Backfill Stage 1, South Abutment		100%	24	01-Mar-12 A	04-Jul-12 A
S26S1960	Backfill Stage 2, South Abutment		100%	43	19-Nov-12 A	25-Feb-13 A
S26S1970	COD: 13ASA 18 days additional Drainage works (if RFI can be replied before 4-12-2012)		100%	18	01-Apr-13 A	19-Apr-13 A

P1

S26S1730	Piling-P1		100%	20	18-Oct-10 A	30-Nov-10 A
S26S1760	Cap & Backfill - P1		100%	33	26-May-11 A	30-Jun-11 A
S26S1790	Pier-P1		100%	75	26-Jul-11 A	24-Oct-11 A
S26S1820	Pier-P1 Pierhead		100%	48	14-Feb-12 A	19-Apr-12 A

P2

S26S1740	Piling-P2		100%	35	28-Mar-11 A	16-Apr-11 A
S26S1770	Cap & Backfill - P2		100%	38	26-May-11 A	11-Jul-11 A



Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014																			
							Q1			Q2			Q3			Q4			Q1		Q2		Q3		Q4		Q1		Q2		Q3		Q4	Q1	Q2	Q3														
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
S26S1800	Pier-P2		100%	75	26-Oct-11 A	27-Jan-12 A													Pier-P2																															
S26S1910	Pier-P2 Pierhead		100%	53	01-Aug-12 A	12-Oct-12 A													Pier-P2 Pierhead																															
P3																																																		
S26S1640	Piling-P3		100%	50	26-Feb-11 A	19-Mar-11 A													Piling-P3																															
S26S1660	Cap & Backfill -P3		100%	50	26-May-11 A	30-Jul-11 A													Cap & Backfill -P3																															
S26S1680	Pier-P3		100%	96	26-Sep-11 A	20-Jan-12 A													Pier-P3																															
S26S1920	Pier-P3 Pierhead		100%	48	19-Apr-12 A	31-Jul-12 A													Pier-P3 Pierhead																															
Decking and Finishing																																																		
S26S1808	Decking (Bearings, drainage & MJ included) (incl. VO 45: Details of Drainage Arrangement of LB1 & B13A)		100%	110	01-Jun-12 A	01-Mar-13 A													Decking (Bearings, drainage & MJ inc																															
S26S1810	Balanced Cantilever deck at P1		100%	0	01-Jun-12 A	20-Jul-12 A													Balanced Cantilever deck at P1																															
S26S1811	Preparing of Travelling Form		100%	12	01-Jun-12 A	25-Sep-12 A													Preparing of Travelling Form																															
S26S1812	Construction of Cantiliver Deck at P1		100%	55	15-Jun-12 A	04-Aug-12 A													Construction of Cantiliver Deck at P1																															
S26S1816	South End Span (South abutment-P1)		100%	197	13-Aug-12 A	09-Nov-12 A													South End Span (South abutment-P1)																															
S26S1818	South End Span		100%	50	13-Aug-12 A	10-Nov-12 A													South End Span																															
S26S1830	Balanced Cantilever deck at P2 & Stitching (P1-P2)		100%	78	19-Nov-12 A	14-Jan-13 A													Balanced Cantilever deck at P2 & Stitchin																															
S26S1831	Preparing of Travelling Form		100%	12	19-Nov-12 A	08-Dec-12 A													Preparing of Travelling Form																															
S26S1832	Balanced Cantilever deck at P2		100%	50	10-Dec-12 A	05-Jan-13 A													Balanced Cantilever deck at P2																															
S26S1833	Stitching (P1-P2)		100%	18	11-Jan-13 A	14-Jan-13 A													Stitching (P1-P2)																															
S26S1840	Balanced Cantilever deck at P3 & Stitching (P2-P3)		100%	73	20-Aug-12 A	17-Jan-13 A													Balanced Cantilever deck at P3 & Stitchin																															
S26S1841	Preparing of Travelling Form		100%	12	20-Aug-12 A	05-Sep-12 A													Preparing of Travelling Form																															
S26S1842	Balanced Cantilever deck at P3		100%	43	06-Sep-12 A	05-Nov-12 A													Balanced Cantilever deck at P3																															
S26S1843	Stitching (P2-P3)		100%	18	15-Jan-13 A	17-Jan-13 A													Stitching (P2-P3)																															
S26S1850	North End Span & Stitching (Nouth Abutment-P3)		100%	96	29-Oct-12 A	01-Mar-13 A													North End Span & Stitching (Nouth Ab																															
S26S1851	End Spans for B13A		100%	29	29-Oct-12 A	01-Feb-13 A													End Spans for B13A																															
S26S1852	Post Tentioning Works		100%	18	18-Feb-13 A	01-Mar-13 A													Post Tentioning Works																															
S26S1860	Parapet (icl, precast concrete skin)		100%	24	19-Mar-13 A	25-May-13 A													Parapet (icl, precast concrete s																															
S26S1863	Erection of Short Column and Barrier		100%	12	03-May-13 A	15-Jun-13 A													Erection of Short Column and																															
S26S1873	Noise Barrier (Erection of H-Column and Panel)		100%	12	03-May-13 A	11-Jun-13 A													Noise Barrier (Erection of H-C																															
S26S1875	Lighting		100%	12	25-May-13 A	11-Jun-13 A													Lighting																															
S26S1880	Surfacing		100%	12	25-May-13 A	21-Jun-13 A													Surfacing																															
S26S1900	Handover Inspection of Bridge 13A		100%	3	21-Jun-13 A	22-Jun-13 A													Handover Inspection of Bridg																															
Ready For Pre-Handover Retaining Wall of Section 2																																																		
HRW0020	Ready For Pre-Handover Retaining Wall W56A, W56B, W57A, W57B, W57C, W59 and RWB12A(N)	-19	0%	7	27-Jan-14	06-Feb-14																					Ready For P																							
HRW0021	Ready For Pre-Handover Retaining Wall W58, W60, W61A, RWTW1, RWTW2, RWTW3, RWTW3a and RWB12B	-19	0%	7	27-Jan-14	06-Feb-14																					Ready For P																							
Section 3																																																		
Site Area SA26A																																																		
PHSA26A2	Possession of SA26A (Day0)		100%	0	26-Feb-10 A														◇ Possession of SA26A (Day0)																															
SA26A000	Site Area SA26A Works Period	-9	98.02%	1215	26-Feb-10 A	19-Feb-14													Site Area SA																															
SA26A010	Site Area SA26A Works Completion	-9	0%	0		19-Feb-14													◇ Site Area SA																															
SA26A020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	-8	98.17%	983	26-Feb-10 A	19-Feb-14													Temporary																															
SA26A030	Overall Utilities Diversion (Detail shall refer to supplementary information)	-8	98.17%	983	26-Feb-10 A	19-Feb-14													Overall Utilit																															
North Bound																																																		
Preliminaries																																																		
S26AN000	Site Clearance/Access Rd		100%	75	26-Feb-10 A	18-Jun-10 A													Site Clearance/Access Rd																															

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014		
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
S26AN010	Site Clearance		100%	60	26-Feb-10 A	12-May-10 A	Site Clearance																										
S26AN020	Access Rd		100%	60	07-Apr-10 A	18-Jun-10 A	Access Rd																										
Slopeworks																																	
S26AN502	Cut Slope (S37A)		100%	48	26-Apr-12 A	03-Jul-12 A	Cut Slope (S37A)																										
S26AN506	Cut Slope (S40-sn, Including removal of existing retaining wall)		100%	168	19-Jun-10 A	08-Jan-11 A	Cut Slope (S40-sn, Including removal of existing retaining wall)																										
S26AN508	Slopeworks Cut(S40) - Stage 1 (Cut Slope and Erect Scaffolding)		100%	11	19-Jun-10 A	16-Jul-10 A	Slopeworks Cut(S40) - Stage 1 (Cut Slope and Erect Scaffolding)																										
S26AN510	Slopeworks Cut(S40) - Stage 1 (Soil Nail Installation : QRST)		100%	11	19-Jul-10 A	18-Aug-10 A	Slopeworks Cut(S40) - Stage 1 (Soil Nail Installation : QRST)																										
S26AN514	Slopeworks Cut(S40) - Stage 2 (Cut Slope and Erect Scaffolding)		100%	14	19-Aug-10 A	17-Sep-10 A	Slopeworks Cut(S40) - Stage 2 (Cut Slope and Erect Scaffolding)																										
S26AN516	Slopeworks Cut(S40) - Stage 2 (Soil Nail Installation : MNOP)		100%	14	21-Nov-10 A	26-Dec-10 A	Slopeworks Cut(S40) - Stage 2 (Soil Nail Installation : MNOP)																										
S26AN518	Slopeworks Cut(S40) - Stage 3 (Cut Slope and Erect Scaffolding)		100%	17	18-Aug-10 A	17-Sep-10 A	Slopeworks Cut(S40) - Stage 3 (Cut Slope and Erect Scaffolding)																										
S26AN520	Slopeworks Cut(S40) - Stage 3 (Soil Nail Installation : IJKL)		100%	17	27-Dec-10 A	01-Feb-11 A	Slopeworks Cut(S40) - Stage 3 (Soil Nail Installation : IJKL)																										
S26AN522	Slopeworks Cut(S40) - Stage 4 (Cut Slope and Erect Scaffolding)		100%	12	28-Jan-11 A	15-Feb-11 A	Slopeworks Cut(S40) - Stage 4 (Cut Slope and Erect Scaffolding)																										
S26AN524	Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)		100%	12	02-Feb-11 A	19-Feb-11 A	Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)																										
S26AN525	Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffolding)		100%	15	29-Oct-11 A	16-Nov-11 A	Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffolding)																										
S26AN526	Slopeworks Cut(S40) - Stage 5 (Soil Nail Installation : ABCD)		100%	18	16-Nov-11 A	07-Dec-11 A	Slopeworks Cut(S40) - Stage 5 (Soil Nail Installation : ABCD)																										
S26AN528	Removal of Existing Retaining Wall		100%	30	11-Apr-11 A	20-May-11 A	Removal of Existing Retaining Wall																										
S26AN530	Cut Slope (S41-sn)		100%	138	19-Jun-10 A	02-Dec-10 A	Cut Slope (S41-sn)																										
S26AN531	Cut Slope (S41-sn) - Stage 1 (Cut Slope and Erect Scaffolding)		100%	11	19-Jun-10 A	16-Jul-10 A	Cut Slope (S41-sn) - Stage 1 (Cut Slope and Erect Scaffolding)																										
S26AN532	Cut Slope (S41-sn) - Stage 1 (Soil Nail Installation : MNOPQ)		100%	11	19-Jul-10 A	13-Aug-10 A	Cut Slope (S41-sn) - Stage 1 (Soil Nail Installation : MNOPQ)																										
S26AN533	Cut Slope (S41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)		100%	26	23-Aug-10 A	17-Sep-10 A	Cut Slope (S41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)																										
S26AN534	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation : IJKL)		100%	26	28-Dec-10 A	27-Jan-11 A	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation : IJKL)																										
S26AN535	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)		100%	20	20-Sep-10 A	27-Nov-10 A	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)																										
S26AN536	Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)		100%	19	30-May-11 A	22-Jun-11 A	Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)																										
S26AN537	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)		100%	12	26-Oct-11 A	08-Nov-11 A	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)																										
S26AN538	Cut Slope (S41-sn) - Stage 4 (Soil Nail Installation : ABCD)		100%	12	03-Dec-12 A	14-Jan-13 A	Cut Slope (S41-sn) - Stage 4 (Soil Nail Installation : ABCD)																										
S26AN540	Slope 7NW-B/C 349		100%	75	02-Oct-10 A	25-Nov-10 A	Slope 7NW-B/C 349																										
S26AN541	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52nos.		100%	15	02-Oct-10 A	19-Oct-10 A	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52nos.																										
S26AN542	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 2 (ABCD) 270nos.		100%	72	20-Oct-10 A	25-Nov-10 A	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 2 (ABCD) 270nos.																										
S26AN550	Slope 7NW-A/C35-sn		100%	200	01-Sep-10 A	20-Nov-10 A	Slope 7NW-A/C35-sn																										
S26AN560	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 25nos.		100%	10	01-Sep-10 A	11-Sep-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 25nos.																										
S26AN570	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 2 (KLMN) 285nos.		100%	40	13-Sep-10 A	19-Oct-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 2 (KLMN) 285nos.																										
S26AN580	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 3 (GHIJ) 370nos.		100%	57	30-Sep-10 A	19-Oct-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 3 (GHIJ) 370nos.																										
S26AN590	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 4 (CDEF) 407nos.		100%	62	20-Oct-10 A	19-Nov-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 4 (CDEF) 407nos.																										
S26AN650	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 5 (AB) 204nos.		100%	31	01-Nov-10 A	20-Nov-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 5 (AB) 204nos.																										
S26AN660	Slope 7NW-A/CR39		100%	80	22-Nov-10 A	28-Mar-11 A	Slope 7NW-A/CR39																										
S26AN670	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos.		100%	10	22-Nov-10 A	15-Dec-10 A	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28nos.																										
S26AN680	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 2 (DEFGHI) 162nos.		100%	40	16-Dec-10 A	25-Feb-11 A	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 2 (DEFGHI) 162nos.																										
S26AN690	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 109nos.		100%	30	22-Feb-11 A	28-Mar-11 A	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 109nos.																										
S26AN930	Erect Scaffolding & Soil Nail Installation (Area 6-1)		100%	75	20-Feb-13 A	25-Nov-13 A	Erect Scaffolding & Soil Nail Installation (Area 6-1)																										
Construction of Retaining Wall																																	
Retaining Wall W65C (w/SP)																																	
S26AN100	Sheet Pile/Excavate & Construct W65C (w/SP)		100%	150	27-Jun-11 A	25-Jul-11 A	Sheet Pile/Excavate & Construct W65C (w/SP)																										
S26AN101	Sheet Pile and Excavation		100%	24	27-Jun-11 A	25-Jul-11 A	Sheet Pile and Excavation																										
S26AN102	Construction of Structure W65C		100%	72	27-Jun-11 A	25-Jul-11 A	Construction of Structure W65C																										
S26AN103	Backfilling		100%	24	27-Jun-11 A	25-Jul-11 A	Backfilling																										
Retaining Wall W68																																	
S26AN120	Sheet Pile/Excavate & Construct W68 (w/SP)		100%	99	15-Nov-10 A	16-Jul-12 A	Sheet Pile/Excavate & Construct W68 (w/SP)																										
S26AN121	Sheet Pile and Excavation		100%	19	15-Nov-10 A	04-Dec-10 A	Sheet Pile and Excavation																										

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010			2011				2012				2013				2014								
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3					
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	
S26AN122	Construction of Structure W68		100%	75	26-Aug-11 A	24-Nov-11 A																							Construction of Structure W68	
S26AN123	Backfilling		100%	54	01-Jun-12 A	16-Jul-12 A																							Backfilling	
Retaining Wall W69 on Mini-Piles (AD 3)																														
S26AN142	Prepare Piling Platform for W69		100%	24	21-Sep-10 A	10-Oct-10 A																								Prepare Piling Platform for W69
S26AN144	Pre-drilling for W69		100%	24	10-Sep-10 A	10-Oct-10 A																								Pre-drilling for W69
S26AN146	Pipe Pile for W69		100%	77	20-Oct-10 A	24-Dec-10 A																								Pipe Pile for W69
S26AN147	Pipe Pile for W69 - Stage 1 (south)		100%	38	20-Oct-10 A	19-Nov-10 A																								Pipe Pile for W69 - Stage 1 (south)
S26AN148	Pipe Pile for W69 - Stage 2 (north)		100%	26	20-Nov-10 A	19-Dec-10 A																								Pipe Pile for W69 - Stage 2 (north)
S26AN149	Excavate and Tension Piles W69		100%	110	26-Mar-11 A	11-Aug-11 A																								Excavate and Tension Piles W69
S26AN150	Excavation and Installation of Tension Piles - Stage 1 (south)		100%	55	26-Mar-11 A	04-Jun-11 A																								Excavation and Installation of Tension Piles - Stage 1 (south)
S26AN151	Excavation and Installation of Tension Piles - Stage 2 (north)		100%	55	13-Jun-11 A	16-Aug-11 A																								Excavation and Installation of Tension Piles - Stage 2 (north)
S26AN152	Retaining Wall & Drainage W69		100%	120	26-Aug-11 A	19-Jan-12 A																								Retaining Wall & Drainage W69
S26AN153	Construction of Structure W69		100%	75	26-Aug-11 A	24-Nov-11 A																								Construction of Structure W69
S26AN154	Drainage		100%	40	06-Feb-12 A	15-Mar-13 A																								Drainage
S26AN155	Backfilling		100%	75	01-Jun-12 A	16-Jul-12 A																								Backfilling
Retaining Wall W70																														
S26AN170	Sheet Pile/Excavate & Construct W70 (w/SP)		100%	165	03-Dec-10 A	15-Mar-13 A																								Sheet Pile/Excavate & Construct W70 (w/SP)
S26AN171	Sheet Pile and Excavation		100%	18	03-Dec-10 A	14-Dec-10 A																								Sheet Pile and Excavation
S26AN172	Construction of Structure W70 (w/SP)		100%	75	18-Jul-11 A	15-Oct-11 A																								Construction of Structure W70 (w/SP)
S26AN173	Drainage & Backfilling		100%	54	18-Feb-13 A	28-Jun-13 A																								Drainage & Backfilling
S26AN174	Backfilling behind W68 to W70 and drainage works		100%	60	18-Mar-13 A	25-Nov-13 A																								Backfilling behind W68 to W70 and drainage works
S26AN184	Erect Scaffolding & Soil Nail Installation		100%	35	04-Oct-13 A	25-Nov-13 A																								Erect Scaffolding & Soil Nail Installation
Retaining Wall W72A(w/SP)																														
S26AN190	Sheet Pile/Excavate & Construct W72A (w/SP)		100%	92	30-Oct-10 A	21-Nov-11 A																								Sheet Pile/Excavate & Construct W72A (w/SP)
S26AN191	Sheet Pile and Excavation		100%	34	30-Oct-10 A	31-Jan-11 A																								Sheet Pile and Excavation
S26AN192	Construction of Structure W72A (w/SP)		100%	46	03-Jan-11 A	24-Mar-11 A																								Construction of Structure W72A (w/SP)
S26AN193	Drainage & Backfilling		100%	68	01-Jun-11 A	21-Nov-11 A																								Drainage & Backfilling
Road Re-Construction Works, Roadworks & Drainage																														
S26AN430	Slip Road R (From W72A to W73) Stage 1 (incl. VO 36: Slip Road R & Drainage detail.)		100%	15	30-Jan-12 A	25-Jul-12 A																								Slip Road R (From W72A to W73) Stage 1 (incl. VO 36: Slip Road R & Drainage detail.)
S26AN431	Slip Road R (From W70 to B18A) Stage 1.1 formation		100%	15	26-May-12 A	13-Jun-12 A																								Slip Road R (From W70 to B18A) Stage 1.1 formation
S26AN432	Slip Road R (From W70 to B18A) Stage 1.1 Drainage & utilities		100%	15	14-Jun-12 A	03-Jul-12 A																								Slip Road R (From W70 to B18A) Stage 1.1 Drainage & utilities
S26AN433	Slip Road R (From W70 to B18A) Stage 1.1 pavement & roadworks		100%	15	04-Jul-12 A	26-Jul-12 A																								Slip Road R (From W70 to B18A) Stage 1.1 pavement & roadworks
S26AN435	Slip Road R (From W70 to B18A) Stage 2		100%	93	18-May-12 A	14-Sep-13 A																								Slip Road R (From W70 to B18A) Stage 2
S26AN436	Slip Road R (From W70 to B18A) Stage 2, formation (Remaining)		100%	30	18-May-12 A	06-Aug-13 A																								Slip Road R (From W70 to B18A) Stage 2, formation (Remaining)
S26AN437	Slip Road R (From W70 to B18A) Stage 2, Drainage & utilities (Remaining)		100%	30	27-Jun-12 A	14-Sep-13 A																								Slip Road R (From W70 to B18A) Stage 2, Drainage & utilities (Remaining)
S26AN438	Slip Road R (From W70 to B18A) Stage 2, pavement & roadworks (Remaining)		100%	50	14-Jul-12 A	14-Sep-13 A																								Slip Road R (From W70 to B18A) Stage 2, pavement & roadworks (Remaining)
S26AN447	Construction Slip Road J (Under Bridge 15A)	-13	50%	45	27-Aug-13 A	25-Feb-14																								Construction Slip Road J (Under Bridge 15A)
S26AN448	Construction Slip Road Q (At W65C)	-13	50%	45	27-Dec-13 A	25-Feb-14																								Construction Slip Road Q (At W65C)
S26AN451	Road and Drainage Works (CH 3720 - 4550)		100%	168	24-Jun-13 A	20-Dec-13 A																								Road and Drainage Works (CH 3720 - 4550)
S26AN452	Removal of existing central barrier and forming temporary road (CH3720-4100)		100%	12	24-Jun-13 A	20-Jul-13 A																								Removal of existing central barrier and forming temporary road (CH3720-4100)
S26AN4525	TTA - Stage 4B-2		100%	0		21-Jul-13 A																								TTA - Stage 4B-2
S26AN453	Road and Drainage Works for Slow and Mid Lane (CH3720 - 3850)	-13	60%	20	08-Jul-13 A	07-Feb-14																								Road and Drainage Works for Slow and Mid Lane (CH3720 - 3850)
S26AN454	Road Surface Works for Slow and Mid Lane (CH3720 - 3850)	-6	60%	10	26-Oct-13 A	12-Feb-14																								Road Surface Works for Slow and Mid Lane (CH3720 - 3850)
S26AN455	Removal of existing central barrier (CH4100-4550)		100%	8	26-Jul-13 A	09-Aug-13 A																								Removal of existing central barrier (CH4100-4550)
S26AN456	Road Works for Fast and Mid Lane (CH3850 - CH4550)		100%	20	10-Aug-13 A	25-Nov-13 A																								Road Works for Fast and Mid Lane (CH3850 - CH4550)
S26AN457	Road Surface Works for Fast and Mid Lane (CH3850 - 4550)		100%	10	27-Aug-13 A	25-Nov-13 A																								Road Surface Works for Fast and Mid Lane (CH3850 - 4550)
S26AN458	Road Works for Fast Lane (CH3720 - 3850)		100%	20	26-Oct-13 A	25-Nov-13 A																								Road Works for Fast Lane (CH3720 - 3850)
S26AN459	Road Surface Works for Fast Lane (CH3720 - 3850)		100%	10	26-Oct-13 A	25-Nov-13 A																								Road Surface Works for Fast Lane (CH3720 - 3850)

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010				2011				2012				2013				2014					
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3			
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3			
S26AN460	Road and Drainage Works for Slow Lane (CH4250 - 4550)	-13	60%	35	05-Oct-13 A	14-Feb-14																						
S26AN461	Road Surface Works for Slow Lane (CH4250 - 4550)	-8	60%	10	26-Oct-13 A	19-Feb-14																						
S26AN462	Road Construction and Remaining Works (along CH 3720 - 4550)		100%	35	05-Oct-13 A	20-Dec-13 A																						
S26AN470	Road and Drainage Works (CH 4550 - 4720)	-15	71.36%	88	26-Oct-13 A	28-Feb-14																						
S26AN471	Road and Drainage Works for Fast Lane (CH 4550 - 4720)		100%	35	26-Oct-13 A	25-Nov-13 A																						
S26AN472	Road Surface Works for Fast Lane (CH4550 - 4720)		100%	8	26-Oct-13 A	25-Nov-13 A																						
S26AN482	Road Construction and Remaining Works (along CH 4550 - 4720)	-15	44%	45	05-Oct-13 A	28-Feb-14																						
Traffic Control & Survelance System																												
S26AN480	TCSS (G25, G26, G27, G28 & SEC Poles SC58/S58) (incl. VO73 Revised Sign Gantry Details)	-13	70%	50	15-Jun-13 A	25-Feb-14																						
Modification of Existing Bridge																												
S26AN200	Modification of Existing Bridge 15	-7	83.88%	104	24-Jun-13 A	18-Feb-14																						
S26AN230	Demolish of Central Barrier		100%	12	24-Jun-13 A	04-Oct-13 A																						
S26AN240	Raising of Concrete Edge for N/B (CH3800 -3900)		100%	15	09-Sep-13 A	25-Nov-13 A																						
S26AN250	Removal existing M.J and install new M.J for Slow and Mid Lane (S/B)	-7	85%	8	02-Aug-13 A	28-Jan-14																						
S26AN260	Raising of Concrete Edge for S/B (CH3800 - 4020) and N/B (CH3900 - 4020)	-7	50%	25	09-Sep-13 A	14-Feb-14																						
S26AN270	Removal existing M.J and install new M.J for Fast Lane (S/B and N/B)		100%	10	04-Oct-13 A	25-Nov-13 A																						
S26AN280	Removal existing M.J and install new M.J for Slow and Mid Lane (N/B)	-7	85%	20	09-Sep-13 A	18-Feb-14																						
Landscaping																												
S26AN610	Landscaping Works	5	85%	29	15-Mar-13 A	04-Feb-14																						
South Bound																												
Preliminaries																												
S26AS000	Site Clearance/Access Rd		100%	164	26-Feb-10 A	14-Sep-10 A																						
S26AS010	Site Clearance		100%	75	26-Feb-10 A	18-Jun-10 A																						
S26AS020	Access Road		100%	75	31-May-10 A	14-Sep-10 A																						
Slopeworks																												
S26AS510	Slope Reinstatement Works (Bridge 15A)	-50	68.42%	95	08-Aug-13 A	05-Mar-14																						
S26AS515	Backfilling Slope	-50	85%	30	08-Aug-13 A	04-Feb-14																						
S26AS520	Soil Nail Installation	-50	70%	50	27-Aug-13 A	21-Feb-14																						
S26AS540	Slope Surface Treatment	-50	30%	15	28-Oct-13 A	05-Mar-14																						
Landscaping																												
S26AS600	Landscaping	-50	0%	30	06-Mar-14	10-Apr-14																						
Road Re-Construction Works, Roadworks, Drainage & Utilities																												
S26AS400	Roadworks, Drainages & Utilities (CH 4020 - 4500)	-18	93.11%	399	14-Feb-12 A	03-Mar-14																						
S26AS410	Roadworks, Drainages & Utilities Stage 1 (ch4020-ch4200 & Tai Po Tai Wo Road)		100%	110	14-Feb-12 A	11-Dec-12 A																						
S26AS411	Removal of existing paving		100%	25	14-Feb-12 A	02-Jul-12 A																						
S26AS412	Utilities		100%	75	14-Feb-12 A	31-Jul-12 A																						
S26AS416	Drainages		100%	75	27-Jun-12 A	31-Jul-12 A																						
S26AS418	Road Surface & Roadmark - Stage 1		100%	5	14-Jul-12 A	11-Dec-12 A																						
S26AS420	Roadworks, Drainages & Utilities Stage 2(ch4200-ch4500)		100%	737	14-Feb-12 A	28-Sep-12 A																						
S26AS422	Removal of existing paving		100%	50	14-Feb-12 A	12-Jan-13 A																						
S26AS424	Utilities		100%	75	14-Feb-12 A	28-May-12 A																						
S26AS426	Drainages		100%	75	27-Jun-12 A	11-Aug-12 A																						
S26AS428	Road Surface & Roadmark - Stage 2		100%	8	10-Sep-12 A	28-Sep-12 A																						
S26AS430	Roadworks Stage 3 (ch4020-ch4200 & Tai Po Tai Wo Road)		100%	35	28-Jan-13 A	21-Jun-13 A																						
S26AS440	Road Construction and Remaining Works (along CH4020 - 4500)		100%	75	28-Jan-13 A	20-Jul-13 A																						
S27S4090	HyD/Lighting (Existing Street Light removal by HyD Lightings)		100%	52	26-May-11 A	25-Jun-11 A																						
S27S4100	Slip Road K (utilities & drainage), Stage 1 (excl. WSD connection)		100%	75	14-Feb-12 A	19-Apr-12 A																						
S27S4102	Slip Road K (utilities & drainage roadwork), Stage 2 (incl. WSD connection)		100%	50	18-May-12 A	15-Oct-12 A																						

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010			2011				2012				2013				2014							
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
							1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3				
S27S1001	Sheet Pile & Excavation		100%	32	28-Dec-10 A	07-Feb-11 A																							
S27S1002	Construction of Structure W65A		100%	50	11-Apr-11 A	13-Aug-11 A																							
S27S1012	Backfilling behind W65A and drainage works	-41	85%	40	15-Jul-13 A	11-Feb-14																							
Retaining Wall W65B, (CSD 1)																													
S27S1040	WSD 1220 dia Diversion		100%	36	26-Jul-11 A	17-Dec-12 A																							
S27S1041	HyD Lighting relocation		100%	36	26-May-11 A	18-Jun-11 A																							
S27S1042	Excavate to cut-off level		100%	42	15-Oct-10 A	03-Dec-10 A																							
S27S1043	COD: CLP overhead cable		100%	75	15-Jan-11 A	11-Apr-11 A																							
S27S1044	Relocation of Existing Electric Poles, CLP		100%	24	15-Feb-11 A	11-Apr-11 A																							
S27S1060	Capping/Walling for W65B		100%	42	06-Apr-11 A	20-Aug-11 A																							
S27S1070	Backfilling for W65A & B		100%	75	10-Sep-11 A	21-Jul-12 A																							
S27S1090	COD: DAN 273- revised thrust box detail and additional works for DN1220		100%	30	17-Dec-12 A	24-Jan-13 A																							
S27S1110	Backfilling behind W65B and drainage works	-41	85%	40	15-Jul-13 A	11-Feb-14																							
Retaining Wall W66/67 (CSD 2) & W71																													
S27S1100	W66 & W67 (CSD 2)		100%	45	02-Oct-10 A	19-Mar-11 A																							
S27S1101	Base Slab (W66)		100%	30	02-Oct-10 A	01-Nov-10 A																							
S27S1102	Wall Stem (W66)		100%	30	02-Nov-10 A	26-Dec-10 A																							
S27S1103	Base Slab (W67)		100%	30	08-Nov-10 A	25-Dec-10 A																							
S27S1113	Wall Stem (W67)		100%	24	28-Feb-11 A	19-Mar-11 A																							
S27S1115	Backfill for W66&67		100%	61	27-Jun-11 A	15-Oct-11 A																							
S27S1200	Retaining Wall W71 (Bay1 - Bay5)		100%	110	02-Jun-10 A	12-Oct-10 A																							
S27S1210	Retaining Wall W71 : Base Slab		100%	55	02-Jun-10 A	06-Aug-10 A																							
S27S1220	Retaining Wall W71 : Wall Stem		100%	55	07-Aug-10 A	12-Oct-10 A																							
S27S1230	Backfill for W71		100%	50	27-Jun-11 A	24-Aug-11 A																							
Slopeworks																													
S27S0000	Site Clearance/Access Rd		100%	130	27-Mar-10 A	03-Sep-10 A																							
S27S0001	Site Clearance (Stage 1)		100%	40	27-Mar-10 A	18-May-10 A																							
S27S0002	Site Clearance (Stage 2)		100%	40	19-Jun-10 A	05-Aug-10 A																							
S27S0004	Access Rd (Stage 1)		100%	40	30-Apr-10 A	18-Jun-10 A																							
S27S0005	Access Rd (Stage 2)		100%	40	20-Jul-10 A	03-Sep-10 A																							
S27S5000	Slopeworks Cut(S34)		100%	46	28-Dec-10 A	23-Feb-11 A																							
S27S5100	Slopeworks Cut(S42), Fill(S43)		100%	75	28-Dec-10 A	29-Mar-11 A																							
S27S5101	Slopeworks Cut(S42)		100%	60	28-Dec-10 A	11-Mar-11 A																							
S27S5102	Slopeworks Fill(S43)		100%	60	26-Oct-11 A	06-Jan-12 A																							
S27S5110	Slopeworks Cut(S37)		100%	0	02-Feb-11 A	02-Feb-11 A																							
S27S5111	Slopeworks Cut(S37) - Stage 1, +40mPD		100%	62	18-Nov-10 A	01-Feb-11 A																							
S27S5112	Slopeworks Cut(S37) - Stage 2, +33.8mPD		100%	62	30-Jan-12 A	19-Apr-12 A																							
S27S5120	Slopeworks Fill(S38)(Including removal of existing retaining wall)		100%	96	13-Apr-12 A	21-Aug-12 A																							
S27S5121	Slopeworks Fill(S38) : Removal of existing retaining wall		100%	24	13-Apr-12 A	19-May-12 A																							
S27S5122	Slopeworks Fill(S38) - Stage 1, +32mPD		100%	24	26-May-12 A	08-Jun-12 A																							
S27S5123	Slopeworks Fill(S38) - Stage 2, +34mPD		100%	24	11-Jun-12 A	11-Jul-12 A																							
S27S5124	Slopeworks Fill(S38) - Stage 3, formation level		100%	24	11-Jul-12 A	21-Aug-12 A																							
S27S5130	Slopeworks Cut(S39)		100%	138	19-Jun-10 A	23-Feb-11 A																							
S27S5131	Slopeworks Cut(S39) - Stage 1, +37mPD		100%	46	19-Jun-10 A	12-Aug-10 A																							
S27S5132	Slopeworks Cut(S39) - Stage 2, +35mPD		100%	46	13-Aug-10 A	07-Oct-10 A																							
S27S5133	Slopeworks Cut(S39) - Stage 3, formation level		100%	46	28-Dec-10 A	23-Feb-11 A																							
S27S5150	Slope Reinstatement Works (S42)	-31	97%	40	06-Sep-13 A	28-Jan-14																							
Landscaping																													

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014											
							Q1			Q2			Q3			Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3													
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
S28N0000	Site Clearance/Access Rd		100%	239	26-Feb-10 A	19-Feb-11 A	Site Clearance/Access Rd																																			
S28N0010	Site Clearance (ch 4830-5250)		100%	75	26-Feb-10 A	05-Jun-10 A	Site Clearance (ch 4830-5250)																																			
S28N0020	Site Clearance (ch 5250-5700)		100%	75	17-Apr-10 A	23-Jul-10 A	Site Clearance (ch 5250-5700)																																			
S28N0110	Access Rd (ch 4830-5250)		100%	75	30-Jun-10 A	04-Oct-10 A	Access Rd (ch 4830-5250)																																			
S28N0120	Access Rd (ch 5250-5700)		100%	75	09-Sep-10 A	19-Feb-11 A	Access Rd (ch 5250-5700)																																			
Slopeworks																																										
S28N5000	Slopeworks Fill S44		100%	36	28-Dec-11 A	11-Feb-12 A	Slopeworks Fill S44																																			
S28N5010	Slopeworks Fill S45	-21	0%	40	27-Jan-14	17-Mar-14	Slopeworks Fill S45																																			
Construction of Retaining Wall																																										
Retaining Wall W72B (CSD 1)																																										
S28N2010	Prepare Piling Platform for W72B		100%	13	14-Sep-10 A	29-Sep-10 A	Prepare Piling Platform for W72B																																			
S28N2020	Pre-drilling for W72B		100%	13	14-Sep-10 A	29-Sep-10 A	Pre-drilling for W72B																																			
S28N2040	Piling works		100%	24	01-Mar-11 A	21-Mar-11 A	Piling works																																			
S28N2050	Capping/Walling for W72B		100%	50	26-May-11 A	25-Jul-11 A	Capping/Walling for W72B																																			
S28N2051	Pile Cap for W72B		100%	30	26-May-11 A	09-Jun-11 A	Pile Cap for W72B																																			
S28N2052	Walling for W72B		100%	75	21-Jun-11 A	17-Sep-11 A	Walling for W72B																																			
S28N2060	Backfilling		100%	68	26-Sep-11 A	15-Dec-11 A	Backfilling																																			
Retaining Wall W73 (CSD 1)																																										
S28N2071	Excavation & ELS		100%	24	14-Sep-10 A	13-Oct-10 A	Excavation & ELS																																			
S28N2072	W73 wall Structure (7 bays)		100%	45	01-Mar-11 A	20-Apr-11 A	W73 wall Structure (7 bays)																																			
S28N2073	Base Slab W73		100%	24	01-Mar-11 A	28-Mar-11 A	Base Slab W73																																			
S28N2074	Wall Stem & W73		100%	24	25-Mar-11 A	20-Apr-11 A	Wall Stem & W73																																			
S28N2080	Backfill		100%	75	09-Jul-11 A	24-Dec-11 A	Backfill																																			
Retaining Wall for Accom. Underpass Extn. (CSD 1)																																										
S28N230	Pre-drilling for Accommodation Underpass Extension		100%	30	30-Jun-10 A	04-Aug-10 A	Pre-drilling for Accommodation Underpass Extension																																			
S28N240	Prepare Piling Platform for Accom. Underpass Extn		100%	30	30-Jun-10 A	04-Aug-10 A	Prepare Piling Platform for Accom. Underpass Extn																																			
S28N250	Piling works		100%	45	01-Mar-11 A	25-Mar-11 A	Piling works																																			
S28N260	Capping/Walling (incl. VO71: Details of typical section for slip road R verge at AUE wall)		100%	54	26-Mar-11 A	03-Jun-11 A	Capping/Walling (incl. VO71: Details of typical section for slip road R verge at AUE wall)																																			
S28N270	Capping (AUE)		100%	45	26-Mar-11 A	25-May-11 A	Capping (AUE)																																			
S28N280	Walling (AUE)		100%	55	26-May-11 A	30-Jul-11 A	Walling (AUE)																																			
S28N290	Backfilling		100%	62	26-Sep-11 A	17-Dec-11 A	Backfilling																																			
Retaining Wall W74																																										
S28N2105	Liasion with location resident for slip road diversion		100%	75	26-Feb-10 A	05-Jun-10 A	Liasion with location resident for slip road diversion																																			
S28N2115	Utilities Diversion		100%	60	07-Jun-10 A	17-Aug-10 A	Utilities Diversion																																			
S28N2120	Temporary road and pedestrian diversion		100%	60	18-Aug-10 A	29-Oct-10 A	Temporary road and pedestrian diversion																																			
S28N2125	Pre-drilling for Piles		100%	15	21-Oct-10 A	19-Nov-10 A	Pre-drilling for Piles																																			
S28N2130	Confirmation of Founding Level		100%	19	26-Mar-11 A	18-Apr-11 A	Confirmation of Founding Level																																			
S28N2134	Falsework removal beteew NLK deck P7 -P8		100%	26	07-Jan-13 A	01-Feb-13 A	Falsework removal beteew NLK deck P7 -P8																																			
S28N2135	Piling work for W74 (Stage 1: Bay1 - 3)		100%	75	21-Feb-13 A	22-Apr-13 A	Piling work for W74 (Stage 1: Bay1 - 3)																																			
S28N2140	Temporary Work for Excavation (Stage 1: Bay1 - 3)		100%	20	27-Jun-12 A	31-Jul-12 A	Temporary Work for Excavation (Stage 1: Bay1 - 3)																																			
S28N2145	Excavation and Tie Back to Formation Level (Stage 1: Bay1 - 3)		100%	18	18-Jul-12 A	31-Jul-12 A	Excavation and Tie Back to Formation Level (Stage 1: Bay1 - 3)																																			
S28N2150	Pile Head Trimming and bearing plate (Stage 1: Bay1 - 3)		100%	14	27-May-13 A	11-Jun-13 A	Pile Head Trimming and bearing plate (Stage 1: Bay1 - 3)																																			
S28N2155	Retaining Wall Construction (Stage 1: Bay1 - 3)		100%	45	11-Jun-13 A	07-Oct-13 A	Retaining Wall Construction (Stage 1: Bay1 - 3)																																			
S28N2156	Base Slab (W74) (Bay 1 - 3)		100%	30	25-May-13 A	27-Jul-13 A	Base Slab (W74) (Bay 1 - 3)																																			
S28N2158	Wall Stem (W74) (Bay 1 - 3)		100%	30	23-Jul-13 A	07-Oct-13 A	Wall Stem (W74) (Bay 1 - 3)																																			
S28N2160	Retaining Wall Construction (Stage 2: Bay 4 - 9)	-18	91.34%	202	23-Apr-13 A	19-Feb-14	Retaining Wall Construction (Stage 2: Bay 4 - 9)																																			
S28N2161	Falsework removal bewteen NLK deck P8 - P9		100%	26	23-Apr-13 A	20-Jul-13 A	Falsework removal bewteen NLK deck P8 - P9																																			
S28N2162	Piling work for W74 (Stage 2: Bay 4 - 9)		100%	50	24-Jun-13 A	22-Oct-13 A	Piling work for W74 (Stage 2: Bay 4 - 9)																																			

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014		
							Q1			Q2			Q3			Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
S28S0020	Access Rd		100%	75	27-Jul-10 A	01-Feb-11 A	Access Rd																										
Roadworks, Drainage & Utilities																																	
S28S4010	Roadworks, Drainages & Utilities (CH4820 - Ch5700)(incl. VO20: Revised Fire mains alignment plan)	6	97.25%	454	11-May-12 A	13-Feb-14	Roadworks,																										
S28S4012	Removal of existing paving - Stage 1 (CH5300 - 5700 & Slip Road W)		100%	75	11-May-12 A	08-Jun-13 A	Removal of existing paving - S																										
S28S4016	Utilities - Stage 1		100%	75	11-May-12 A	08-Feb-13 A	Utilities - Stage 1																										
S28S4020	Road and Drainages Works - Stage 1 (incl.VO 75 Modification of existing SAV Chamber)		100%	75	11-May-12 A	25-Jun-13 A	Road and Drainages Works																										
S28S4021	Road Surface and Roadmark - Stage 1 (Slow Lane)		100%	30	18-Mar-13 A	18-Jul-13 A	Road Surface and Roadma																										
S28S4025	Removal of existing paving - Stage 2 (CH5300 - 5700 & Slip Road W)		100%	30	19-Jul-13 A	02-Aug-13 A	Removal of existing paving																										
S28S4027	Utilities - Stage 2 (CH5300 - 5700) (incl. VO 77 Provision of cable duct for power supply)		100%	30	03-Aug-13 A	12-Aug-13 A	Utilities - Stage 2 (CH530																										
S28S4029	Road and Drainages Works - Stage 2		100%	30	03-Aug-13 A	12-Aug-13 A	Road and Drainages Wor																										
S28S4031	Road Surface and Roadmark - Stage 2 (Fast Lane)	6	85%	30	13-Aug-13 A	04-Feb-14	Road Surface																										
S28S4085	Remaining Road Works at Slip Road W	6	80%	40	27-Aug-13 A	13-Feb-14	Remaining R																										
Noise Barriers 44 & Road Barriers																																	
Noise Barrier NB44																																	
S28S2000	Excavation for NB44		100%	219	25-Aug-10 A	24-May-11 A	Excavation for NB44																										
S28S2010	Excavation for NB44 (Bay1 & Bay2)		100%	44	25-Aug-10 A	18-Oct-10 A	Excavation for NB44 (Bay1 & Bay2)																										
S28S2020	Excavation for NB44 (Bay3 & Bay4)		100%	44	19-Oct-10 A	08-Dec-10 A	Excavation for NB44 (Bay3 & Bay4)																										
S28S2030	Excavation for NB44 (Bay5 & Bay6)		100%	44	26-Apr-11 A	26-May-11 A	Excavation for NB44 (Bay5 & Bay6)																										
S28S2040	Excavation for NB44 (Bay7 & Bay8)		100%	36	26-Aug-11 A	10-Oct-11 A	Excavation for NB44 (Bay7 & Bay8)																										
S28S2050	Excavation for NB44 (Bay9 & Bay10)		100%	43	14-Oct-11 A	03-Dec-11 A	Excavation for NB44 (Bay9 & Bay10)																										
S28S2060	Noise Barrier Footing Construction for NB44 (incl. VO 46: Modification of Noise Barrier Footing for NB44)		100%	282	26-Mar-11 A	20-Dec-11 A	Noise Barrier Footing Construction for NB44 (incl. VO 46: Modificatio																										
S28S2070	Noise Barrier Footing Construction for NB44 (Bay 1)		100%	32	26-Mar-11 A	15-Apr-11 A	Noise Barrier Footing Construction for NB44 (Bay 1)																										
S28S2080	Noise Barrier Footing Construction for NB44 (Bay 2)		100%	32	06-Apr-11 A	21-Apr-11 A	Noise Barrier Footing Construction for NB44 (Bay 2)																										
S28S2090	Noise Barrier Footing Construction for NB44 (Bay 3)		100%	32	26-May-11 A	04-Jun-11 A	Noise Barrier Footing Construction for NB44 (Bay 3)																										
S28S2100	Noise Barrier Footing Construction for NB44 (Bay 4)		100%	30	26-Apr-11 A	26-May-11 A	Noise Barrier Footing Construction for NB44 (Bay 4)																										
S28S2110	Noise Barrier Footing Construction for NB44 (Bay 5)		100%	24	26-Sep-11 A	25-Oct-11 A	Noise Barrier Footing Construction for NB44 (Bay 5)																										
S28S2120	Noise Barrier Footing Construction for NB44 (Bay 6)		100%	24	26-Oct-11 A	22-Nov-11 A	Noise Barrier Footing Construction for NB44 (Bay 6)																										
S28S2130	Noise Barrier Footing Construction for NB44 (Bay 7)		100%	24	23-Nov-11 A	20-Dec-11 A	Noise Barrier Footing Construction for NB44 (Bay 7)																										
S28S2140	Noise Barrier Footing Construction for NB44 (Bay 8)		100%	24	23-Nov-11 A	20-Dec-11 A	Noise Barrier Footing Construction for NB44 (Bay 8)																										
S28S2150	Noise Barrier Footing Construction for NB44 (Bay 9)		100%	23	23-Nov-11 A	20-Dec-11 A	Noise Barrier Footing Construction for NB44 (Bay 9)																										
S28S2160	Noise Barrier Footing Construction for NB44 (Bay 10)		100%	18	23-Nov-11 A	20-Dec-11 A	Noise Barrier Footing Construction for NB44 (Bay 10)																										
S28S2170	Remaining NB44 installation of panel		100%	7	27-Aug-13 A	26-Sep-13 A	Remaining NB44 insta																										
Traffic Control & Survelance System																																	
S28S4800	TCSS	-5	81.5%	130	28-Feb-13 A	26-Feb-14	TCSS																										
S28S4810	TCSS - Stage 1 (ch4820 - ch5520)	-5	80%	24	28-Feb-13 A	04-Feb-14	TCSS - Stag																										
S28S4850	TCSS - Stage 5 (ch5520 - ch5640), (Gantry G56) (incl. VO73 Revised Sign Gantry Details)	-5	20%	24	27-Nov-13 A	26-Feb-14	TCSS - Sta																										
Modification of Existing Bridge																																	
S28S1200	Modification of Lam Kam Rd. Flyover	-21	79.23%	119	26-Aug-13 A	27-Feb-14	Modification																										
S28S1240	Diversion for modification kerb and road reconstruction (N/B)	-21	95%	43	26-Aug-13 A	29-Jan-14	Diversion for																										
S28S1250	Removal central barrier and road construction	-21	85%	40	26-Sep-13 A	08-Feb-14	Removal cer																										
S28S1260	Diversion for modification kerb and road reconstruction (S/B)	-21	45%	30	02-Dec-13 A	27-Feb-14	Diversion fo																										
Road Construction and Road Resurfacing																																	
S28S4960	Road Construction and Resurfacing S/B for SA28	6	85%	60	26-Sep-13 A	14-Feb-14	Road Const																										
Site Area SA29																																	
PHSA2920	Possession of SA29 (Day270)		100%	0	27-Jul-10 A		◇ Possession of SA29 (Day270)																										

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014		
							Q1			Q2			Q3			Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
SA290000	Site Area SA29 Works Period (incl. VO002 & VO0011: Fencing details along site boundaries SA 29)	148	99.63%	946	27-Jul-10 A	30-Jan-14																											
SA290010	Site Area SA29 Works Completion	148	0%	0		30-Jan-14																											
SA290020	Temporary Traffic Arrangement (Detail shall refer to supplementary information)	118	99.54%	764	27-Jul-10 A	30-Jan-14																											
SA290030	Overall Utilities Diversion (Detail shall refer to supplementary information)	118	99.54%	764	27-Jul-10 A	30-Jan-14																											
North Bound																																	
Preliminaries																																	
S29N0000	Site Clearance/Access Rd		100%	60	26-Jan-11 A	09-Apr-11 A																											
Roadworks, Drainage & Utilities																																	
S29N4010	Roadworks, Realignment of Tai Wo Service Rd. West (NB42)		100%	58	13-Apr-12 A	21-Jan-13 A																											
S29N4020	Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)		100%	38	15-Jan-13 A	28-Mar-13 A																											
S29N4100	Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Southern Trunk Sewer & Manhole Schedule)		100%	111	03-Jan-11 A	15-Dec-12 A																											
S29N4110	Gravity Sewer Line - Stage 1 (STS10.30-80)		100%	60	03-Jan-11 A	31-Mar-12 A																											
S29N4120	Gravity Sewer Line - Stage 2 (STS10.10-30)		100%	60	01-Apr-11 A	30-Jul-11 A																											
S29N4130	Gravity Sewer Line - Stage 2 (STS10.80-105)		100%	63	28-May-11 A	15-Dec-12 A																											
Noise Barriers & Road Barriers																																	
Noise Barrier NB42 on Mini-Piles (AD)																																	
S29N2000	WSD/DSD/HKCG/PCCW/HGC/CATV/NWT/HKBN/TGT/CLP Diversion		100%	72	11-Apr-11 A	11-Jul-11 A																											
S29N2020	Footing for NB42 (Bay1 - Bay9) (incl. VO 7: Construction of modified noise barrier foundation for NB42)		100%	110	06-Dec-10 A	05-Jul-11 A																											
S29N2030	Footing for NB42 (Bay1 - Bay5)		100%	60	06-Dec-10 A	05-Jul-11 A																											
S29N2040	Footing for NB42 (Bay6 - Bay9)		100%	50	06-Dec-10 A	05-Jul-11 A																											
S29N3000	Construct Noise Barrier & Beam Barrier (incl. VO 23. Provision of Drainage at Noise Barrier 42)		100%	60	26-Sep-11 A	01-Aug-12 A																											
Landscaping																																	
S29N6000	Landscaping Works (Near NB43)		100%	50	27-Jun-13 A	26-Sep-13 A																											
Site Area SA32																																	
PHSA3210	Possession of SA32 (Day365)		100%	0	25-Feb-11 A																												
SA320000	Site Area SA32 Works Period		100%	265	26-Feb-11 A	17-Nov-11 A																											
SA320010	Site Area SA32 Works Completion	-46	0%	0		07-Apr-14																											
General																																	
S32G0000	Site Clearance/TTM		100%	72	26-Mar-11 A	25-Jun-11 A																											
S32G4005	Application XP for Construct Roadside Fully Variable Message Sign	-38	90%	60	11-Mar-13 A	05-Feb-14																											
S32G4015	Construct Roadside Fully Variable Message Sign (RFVMS3)(include duct, footing and column)	-38	15%	30	26-Sep-13 A	07-Mar-14																											
S32G4025	Construct Roadside Fully Variable Message Sign (RFVMS2)(include duct, footing and column)	-38	15%	30	26-Sep-13 A	07-Mar-14																											
S32G4035	Construct Roadside Fully Variable Message Sign (RFVMS1)(include duct, footing and column)	-38	15%	30	26-Sep-13 A	07-Apr-14																											
S32G4045	Construct Roadside Fully Variable Message Sign (TP04)(include duct, footing and column)	-38	15%	30	26-Sep-13 A	07-Apr-14																											
S32G4060	VO 13: Relocation of existing Directional Signs in the Vicinity of Lam Kam Road Interchange		100%	10	27-Apr-11 A	11-Sep-12 A																											
Construction of New Lam Kam Road																																	
Substructure and Pier Construction																																	
South Ramp																																	
S28N1213	Temporary Work for Excavation		100%	15	27-Jul-12 A	13-Aug-12 A																											
S28N1214	Excavation		100%	20	23-Jul-12 A	08-Aug-12 A																											
S28N1215	Construction of South Ramp (incl. VO72: revised North & South Ramps Retaining Wall)		100%	145	23-Jul-12 A	26-Jan-13 A																											
S28N1216	Base Slab		100%	60	23-Jul-12 A	19-Oct-12 A																											
S28N1217	Wing Wall		100%	75	24-Sep-12 A	31-Dec-12 A																											
S28N1227	Backfilling to South Ramp		100%	40	28-Dec-12 A	25-Jan-13 A																											

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014		
							Q1			Q2			Q3			Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
S28N1309	Backfilling		100%	30	13-Dec-10 A	18-Dec-10 A	█ Backfilling																										
S28N1310	Pier Construction		100%	74	28-Dec-10 A	28-Mar-11 A	█ Pier Construction																										
Pier NLKP6																																	
S28N1321	Gas main Diversion		100%	150	13-May-10 A	10-Nov-10 A	█ Gas main Diversion																										
S28N1322	Pre-drilling for Piles		100%	14	21-Jul-10 A	23-Feb-11 A	█ Pre-drilling for Piles																										
S28N1323	Confirmation of Founding Level		100%	14	21-Jul-10 A	25-Feb-11 A	█ Confirmation of Founding Level																										
S28N1324	Piling Work (23shp)		100%	75	28-Feb-11 A	28-Mar-11 A	█ Piling Work (23shp)																										
S28N1325	Temporary Shoring System		100%	44	26-May-11 A	18-Jul-11 A	█ Temporary Shoring System																										
S28N1326	Excavation to Formation Level		100%	7	05-May-11 A	23-Jun-11 A	█ Excavation to Formation Level																										
S28N1327	Pile Head Trimming and bearing plate		100%	14	29-Jun-11 A	05-Jul-11 A	█ Pile Head Trimming and bearing plate																										
S28N1328	Pile Cap Construction (incl. VO29: revised piling details)		100%	23	28-Jul-11 A	24-Aug-11 A	█ Pile Cap Construction (incl. VO29: revised piling details)																										
S28N1329	Backfilling		100%	28	26-Sep-11 A	29-Oct-11 A	█ Backfilling																										
S28N1330	Pier Construction		100%	71	28-Sep-11 A	12-Nov-11 A	█ Pier Construction																										
Pier NLKP7																																	
S28N1341	Realignment of Existing slip road		100%	45	19-May-10 A	13-Jul-10 A	█ Realignment of Existing slip road																										
S28N1342	Existing Water main Diversion		100%	45	14-Jul-10 A	03-Sep-10 A	█ Existing Water main Diversion																										
S28N1343	Pre-drilling for Piles		100%	7	04-Sep-10 A	18-Sep-10 A	█ Pre-drilling for Piles																										
S28N1344	Confirmation of Founding Level		100%	14	13-Sep-10 A	25-Sep-10 A	█ Confirmation of Founding Level																										
S28N1345	Piling Work (16shp)		100%	62	26-Jan-11 A	28-Feb-11 A	█ Piling Work (16shp)																										
S28N1346	Temporary Shoring System		100%	44	08-Mar-11 A	16-Apr-11 A	█ Temporary Shoring System																										
S28N1347	Excavation to Formation Level		100%	7	08-Mar-11 A	16-Apr-11 A	█ Excavation to Formation Level																										
S28N1348	Pile Head Trimming and bearing plate		100%	14	27-Apr-11 A	17-May-11 A	█ Pile Head Trimming and bearing plate																										
S28N1349	Pile Cap Construction (incl. VO29: revised piling details)		100%	21	19-May-11 A	31-May-11 A	█ Pile Cap Construction (incl. VO29: revised piling details)																										
S28N1350	Backfilling		100%	30	26-Sep-11 A	01-Nov-11 A	█ Backfilling																										
S28N1351	Pier Construction		100%	72	03-Oct-11 A	24-Dec-11 A	█ Pier Construction																										
Pier NLKP8																																	
S28N1361	Realignment of Existing slip road		100%	45	19-May-10 A	13-Jul-10 A	█ Realignment of Existing slip road																										
S28N1363	Existing Water main Diversion		100%	45	14-Jul-10 A	03-Sep-10 A	█ Existing Water main Diversion																										
S28N1364	Pre-drilling for Piles		100%	18	04-Sep-10 A	25-Sep-10 A	█ Pre-drilling for Piles																										
S28N1365	Confirmation of Founding Level		100%	14	27-Sep-10 A	13-Oct-10 A	█ Confirmation of Founding Level																										
S28N1366	Piling Work (24shp)		100%	75	14-Jan-11 A	05-Feb-11 A	█ Piling Work (24shp)																										
S28N1367	Temporary Shoring System		100%	44	26-Apr-11 A	25-May-11 A	█ Temporary Shoring System																										
S28N1368	Excavation to Formation Level		100%	30	26-Sep-11 A	22-Oct-11 A	█ Excavation to Formation Level																										
S28N1369	Pile Head Trimming and bearing plate		100%	7	15-Oct-11 A	22-Oct-11 A	█ Pile Head Trimming and bearing plate																										
S28N1370	Pile Cap Construction (incl. VO29: revised piling details)		100%	24	26-Oct-11 A	02-Nov-11 A	█ Pile Cap Construction (incl. VO29: revised piling details)																										
S28N1371	Backfilling		100%	24	26-Nov-11 A	23-Dec-11 A	█ Backfilling																										
S28N1372	Pier Construction		100%	72	21-Dec-11 A	31-Jan-12 A	█ Pier Construction																										
Pier NLKP9																																	
S28N1381	Realignment of Existing slip road		100%	45	19-May-10 A	13-Jul-10 A	█ Realignment of Existing slip road																										
S28N1382	Existing Water main Diversion		100%	45	14-Jul-10 A	03-Sep-10 A	█ Existing Water main Diversion																										
S28N1383	Pre-drilling for Piles		100%	14	04-Sep-10 A	20-Sep-10 A	█ Pre-drilling for Piles																										
S28N1384	Confirmation of Founding Level		100%	14	21-Sep-10 A	08-Oct-10 A	█ Confirmation of Founding Level																										
S28N1385	COD: Drainage (ADN 72, 86, 121, 145, 225), Fire Services Mains (DAN 202) and related UU works		100%	75	21-Sep-10 A	21-Oct-11 A	█ COD: Drainage (ADN 72, 86, 121, 145, 225), Fire Services Mains (DAN)																										
S28N1386	Piling Work (24shp)		100%	75	22-Oct-11 A	19-Dec-11 A	█ Piling Work (24shp)																										
S28N1387	Temporary Shoring System		100%	30	01-Feb-12 A	19-Apr-12 A	█ Temporary Shoring System																										
S28N1388	Excavation to Formation Level		100%	36	19-Apr-12 A	26-Jun-12 A	█ Excavation to Formation Level																										
S28N1389	Pile Head Trimming and bearing plate		100%	12	27-Jun-12 A	11-Jul-12 A	█ Pile Head Trimming and bearing plate																										

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014					
							Q1			Q2			Q3			Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3							
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
S41G040	Construction of Mulching Production Yard		100%	60	06-Aug-10 A	18-Oct-10 A	Construction of Mulching Production Yard																													
S41G050	Temp Warehouse, Fabrication & Equip Yard (Site allocated for period till 8 May 2012) : Expected production = 900m3	151	100%	1260	13-Sep-10 A	27-Jan-14	Temp Warehouse																													
S41G060	Mulching Production Phase 1 (45m3)		100%	63	13-Sep-10 A	09-Oct-10 A	Mulching Production Phase 1 (45m3)																													
S41G070	Mulching Production Phase 2 (45m3) (incl. VO16, VO 18)		100%	63	21-Dec-10 A	21-Feb-11 A	Mulching Production Phase 2 (45m3) (incl. VO16, VO 18)																													
S41G080	Mulching Production Phase 3 (45m3)		100%	63	20-Feb-11 A	24-Apr-11 A	Mulching Production Phase 3 (45m3)																													
S41G090	Mulching Production Phase 4 (45m3)		100%	63	24-Apr-11 A	26-Jun-11 A	Mulching Production Phase 4 (45m3)																													
S41G100	Mulching Production Phase 5 (45m3)		100%	63	27-Jun-11 A	28-Aug-11 A	Mulching Production Phase 5 (45m3)																													
S41G110	Mulching Production Phase 6 (45m3)		100%	63	29-Aug-11 A	30-Oct-11 A	Mulching Production Phase 6 (45m3)																													
S41G120	Mulching Production Phase 7 (45m3)		100%	63	31-Oct-11 A	01-Jan-12 A	Mulching Production Phase 7 (45m3)																													
S41G130	Mulching Production Phase 8 (45m3)		100%	63	02-Jan-12 A	31-Mar-12 A	Mulching Production Phase 8 (45m3)																													
S41G140	Mulching Production Phase 9 (45m3)		100%	63	02-Apr-12 A	31-Dec-12 A	Mulching Production Phase 9 (45m3)																													
S41G260	Dismantle of Mulching Production Yard	-61	0%	68	17-Jun-14	05-Sep-14																														
S41G270	Dismantle of Mulching Production Yard : Removing Mulching Office	-61	0%	48	17-Jun-14	13-Aug-14																														
S41G280	Dismantle of Mulching Production Yard : Removing Security Fence and Security Device	-61	0%	20	13-Aug-14	05-Sep-14																														
Section 8																																				
Establishment Works																																				
S21G8000	SA21 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
Section 9																																				
Establishment Works																																				
S22G8000	SA22 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
S23G8000	SA23 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
S24G8000	SA24 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
S25G8000	SA25 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
S26G8000	SA26 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
Section 10																																				
Establishment Works																																				
S26AG800	SA26A Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
S27G8000	SA27 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
Section 11																																				
Establishment Works																																				
S28G8000	SA28 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
S29G8000	SA29 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
Section 12																																				
Establishment Works																																				
S30AG800	SA30A Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
S30G8000	SA30 Establishment Works	-214	0%	365	27-Jan-14	26-Jan-15																														
Section 13																																				
Establishment Works																																				
S30AG810	Remainder of Establishment Works (Exclude Section 8 to 12)	-214	0%	365	27-Jan-14	26-Jan-15																														
Section 14																																				
Route Network Maintenance (Subject to the the Engineer's Instruction)																																				
S21G7000	Tentative Start Date for SA21 Route Maintenance Works		100%	0	17-Sep-10 A		◆ Tentative Start Date for SA21 Route Maintenance Works																													
S22G7000	Tentative Start Date for SA22 Route Maintenance Works		100%	0	26-Feb-10 A		◆ Tentative Start Date for SA22 Route Maintenance Works																													
S23G7000	Tentative Start Date for SA23 Route Maintenance Works		100%	0	25-Aug-10 A		◆ Tentative Start Date for SA23 Route Maintenance Works																													
S24G7000	Tentative Start Date for SA24 Route Maintenance Works		100%	0	25-Aug-10 A		◆ Tentative Start Date for SA24 Route Maintenance Works																													

Activity ID	Activity Name	Total Float	Activity % Complete	Original Duration	Start	Finish	2010												2011				2012				2013				2014		
							Q1			Q2			Q3			Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
							1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
S25G7000	Tentative Start Date for SA25 Route Maintenance Works		100%	0	20-Oct-10 A		◆ Tentative Start Date for SA25 Route Maintenance Works																										
S26AG700	Tentative Start Date for SA26A Route Maintenance Works		100%	0	26-Feb-10 A		◆ Tentative Start Date for SA26A Route Maintenance Works																										
S26G7000	Tentative Start Date for SA26 Route Maintenance Works		100%	0	26-Feb-10 A		◆ Tentative Start Date for SA26 Route Maintenance Works																										
S27G7000	Tentative Start Date for SA27 Route Maintenance Works		100%	0	27-May-10 A		◆ Tentative Start Date for SA27 Route Maintenance Works																										
S28G7000	Tentative Start Date for SA28 Route Maintenance Works		100%	0	26-Feb-10 A		◆ Tentative Start Date for SA28 Route Maintenance Works																										
S29G7000	Tentative Start Date for SA29 Route Maintenance Works		100%	0	20-Oct-10 A		◆ Tentative Start Date for SA29 Route Maintenance Works																										
S30AG700	Tentative Start Date for SA30A Route Maintenance Works		100%	0	25-Aug-10 A		◆ Tentative Start Date for SA30A Route Maintenance Works																										
S30G7000	Tentative Start Date for SA30 Route Maintenance Works		100%	0	26-Feb-10 A		◆ Tentative Start Date for SA30 Route Maintenance Works																										
S31G7000	Tentative Start Date for SA31 Route Maintenance Works		100%	0	26-Feb-10 A		◆ Tentative Start Date for SA31 Route Maintenance Works																										
Section 17 (Subject to Excision and Instruct by Engineer within 819 days)																																	
General																																	
SC150025	Validity Period		100%	819	25-Feb-10 A	31-Aug-13 A	Validity Period																										
SC150030	Latest Date for the Engineer to Issue EI		100%	0		31-Aug-13 A	◆ Latest Date for the Engineer to Issue EI																										
Site Area SA28 & SA30																																	
PHSA2840	Possession of SA28 & SA30		100%	0	26-Feb-10 A		◆ Possession of SA28 & SA30																										
SA280005	Site Area SA28 Works Period		100%	0	24-May-12 A	31-Aug-13 A	Site Area SA28 Works Period																										
SA280020	Site Area SA28 & SA30 Works Completion		100%	0		31-Aug-13 A	◆ Site Area SA28 & SA30 Works Completion																										
All Area																																	
Preliminaries																																	
S28N1000	Site Clearance/TTM/Access Rd/Utility Diversion		100%	45	24-May-12 A	26-Sep-13 A	Site Clearance/TTM/Access Rd/Utility Diversion																										
Site Area SA30A																																	
PHSA30A5	Possession of SA30A		100%	0	27-Jul-10 A		◆ Possession of SA30A																										
SA30A005	Site Area SA30A Works Period		100%	155	23-May-12 A	31-Aug-13 A	Site Area SA30A Works Period																										
SA30A020	Site Area SA30A Works Completion		100%	0		31-Aug-13 A	◆ Site Area SA30A Works Completion																										
North Bound																																	
Preliminaries																																	
S30AN100	Site Clearance/TTM/Access Rd/Utility Diversion		100%	75	14-May-12 A	23-May-12 A	Site Clearance/TTM/Access Rd/Utility Diversion																										
Roadworks, Drainage & Utilities																																	
S30AN415	Section 17 subject to Excision Works Instruction date (Trunk Sewer Line)		100%	245	23-May-12 A	20-Sep-13 A	Section 17 subject to Excision Works Instruction date (Trunk Sewer Line)																										
S30AN420	Issuing of latest design drawing		100%	75	24-May-12 A	05-Sep-12 A	Issuing of latest design drawing																										
S30AN430	Procurement & delivery of Trunk Sewer pipe (Stage 1)		100%	75	06-Sep-12 A	17-Sep-12 A	Procurement & delivery of Trunk Sewer pipe (Stage 1)																										
S30AN440	Design clarification period		100%	60	06-Sep-12 A	31-Jul-13 A	Design clarification period																										
S30AN450	Procurement & delivery of Trunk Sewer pipe (Stage 2)		100%	75	01-Nov-12 A	31-Jul-13 A	Procurement & delivery of Trunk Sewer pipe (Stage 2)																										
S30AN460	Underground Utilities cable detection before ELS works		100%	60	17-Aug-12 A	24-Aug-12 A	Underground Utilities cable detection before ELS works																										
S30AN470	Gravity Sewer Line STS10_170 to 160 (22m Long)		100%	90	05-Dec-12 A	06-Feb-13 A	Gravity Sewer Line STS10_170 to 160 (22m Long)																										
S30AN480	M/H 170 and M/H160 construction (6m depth)		100%	75	05-Dec-12 A	23-Jan-13 A	M/H 170 and M/H160 construction (6m depth)																										
S30AN490	Pipe laying and concrete surround works		100%	60	05-Dec-12 A	07-Jan-13 A	Pipe laying and concrete surround works																										
S30AN500	Backfilling (2 Layers + Temp fill)		100%	30	08-Jan-13 A	06-Feb-13 A	Backfilling (2 Layers + Temp fill)																										
S30AN510	Gravity Sewer Line STS10_160 to 150 (40m Long)		100%	95	27-Feb-13 A	23-Sep-13 A	Gravity Sewer Line STS10_160 to 150 (40m Long)																										
S30AN520	M/H150 construction (5m depth)		100%	40	27-Feb-13 A	16-Mar-13 A	M/H150 construction (5m depth)																										
S30AN530	Pipe laying and concrete surround works (Stage 1)		100%	25	18-Mar-13 A	30-Apr-13 A	Pipe laying and concrete surround works (Stage 1)																										
S30AN540	Construction of Temporary Access for Villager		100%	8	30-Apr-13 A	10-May-13 A	Construction of Temporary Access for Villager																										
S30AN550	Pipe Laying and concrete works (Stage 2)		100%	21	13-May-13 A	14-Sep-13 A	Pipe Laying and concrete works (Stage 2)																										
S30AN560	Backfilling (15 Layers)		100%	8	27-Jul-13 A	23-Sep-13 A	Backfilling (15 Layers)																										
S30AN570	Gravity Sewer Line STS10_120 to 130 (41m Long)		100%	120	17-Sep-12 A	03-Jan-13 A	Gravity Sewer Line STS10_120 to 130 (41m Long)																										
S30AN580	M/H 120 and M/H130 construction (3.5m & 4m depth)		100%	70	24-Sep-12 A	12-Oct-12 A	M/H 120 and M/H130 construction (3.5m & 4m depth)																										
S30AN585	Pipe Laying & concrete surround works		100%	30	14-Nov-12 A	20-Nov-12 A	Pipe Laying & concrete surround works																										

**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
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
	• All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		V
	• Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		V
	• All spraying of materials and surfaces shall avoid excessive water usage.		V
	• 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
	• Materials shall be dampened, if necessary, before transportation.		V
	• Travelling speeds shall be controlled to reduce traffic induced dust dispersion and resuspension within the site from the operating haul trucks.		V
	• Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		V

Noise - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Noise during Construction	• Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V
	• Reduce the number of equipment and their percentage on-time.		V
	• 3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V
	• 3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V
	• 2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		In progress
	• 2.5 m high temporary noise barrier along TaiWo Service Road West (Figure 2c of the Environmental Permit).		V
	• 3.5m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure2c of the Environmental Permit).		In progress

Water Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Water quality during Construction	Demolition and reconstruction of bridges	During construction	
	<ul style="list-style-type: none"> Prevent off-site migration through use of sheet piles. 		V
	<ul style="list-style-type: none"> Minimize duration of works as far as practical. 		V
	<ul style="list-style-type: none"> All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. 		V
	<ul style="list-style-type: none"> Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 		V
	River training works		
	<ul style="list-style-type: none"> Inspection and testing of water quality in the nullah on the Tai Po River. 		N/A
	Road Widening Works and Earthworks		
	<ul style="list-style-type: none"> Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settable 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. 		V
	<ul style="list-style-type: none"> Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. 		V
	<ul style="list-style-type: none"> 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. 		V
	<ul style="list-style-type: none"> Regular inspections of stilling basins and/or silt traps are required to ensure that sediment is not conveyed into the existing drainage system. 		V
	<ul style="list-style-type: none"> Open stockpiles should be covered with a tarpaulin cover. 		V
	<ul style="list-style-type: none"> During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. 		V
	<ul style="list-style-type: none"> Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. 		V
<ul style="list-style-type: none"> 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
Waste Management during Construction	General Waste	During construction	
	<ul style="list-style-type: none"> Transport of wastes off site as soon as possible. 		@
	<ul style="list-style-type: none"> Maintenance of accurate waste records 		V
	<ul style="list-style-type: none"> Minimization of waste generation for disposal (via reduction/recycling/re-use). 		V
	<ul style="list-style-type: none"> No on-site burning will be permitted. 		V
	<ul style="list-style-type: none"> Use of re-useable metal hoardings/signboards. 		V
	Vegetation from site clearance		
	<ul style="list-style-type: none"> Segregation of materials to facilitate disposal. 		V
	<ul style="list-style-type: none"> Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas. 		V
	Demolition Wastes		
<ul style="list-style-type: none"> Segregation of materials to facilitate disposal. 	V		

• Appropriate stockpile management.	V
Excavated Materials	
• Segregation of materials to facilitate disposal / reuse.	V
• Appropriate stockpile management.	V
• Re-use of excavated material on or off site (where possible).	V
• Special handling and disposal procedures in the event that contaminated materials are excavated.	N/A
Construction Wastes	
• Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).	V
• Appropriate stockpile management.	V
• Planning to reduce over ordering and waste generation.	V
• Recycling and re-use of materials where possible (e.g. metal, wood from formwork)	V
• For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.	V
Bentonite Slurries	
• Bentonite slurries should be reused as far as possible.	N/A
• Disposal in accordance with <i>Practice Note For Professional Persons ProPECC PN 1/94</i> .	N/A
Chemical Wastes	
• Storage within locked, covered and bunded area.	@
• The storage area shall not be located adjacent to sensitive receivers e.g. drains.	V
• Minimize waste production and recycle oils/solvents where possible.	V
• A spill response procedure shall be in place and absorption material available for minor spillages.	V
• Use appropriate and labelled containers.	@
• Educate site workers on site cleanliness/waste management procedures.	V
• If chemical wastes are to be generated, the contractor must register with EPD as a Chemical Waste Producer.	V
• The chemical wastes shall be collected by a licensed chemical waste collector.	V
Municipal Wastes	
• Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal.	V
• Regular, daily collections are required by an approved waste collector.	V

Ecology - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Ecology during Construction	Accurate Delineation of Works Area	During construction	
	• Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats.		V
	• Individual trees which fall within the works areas but which work plans show do not require removal are to be retained and fenced off to maximize protection.		V
	Vegetation Clearance		
	• No fires shall be lit within the works area for the purpose of burning cleared vegetation.		V
• The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area /	V		

	adjacent land.		
	Dust generation		
	• Vehicle washing facilities to be provided at every discernible or designated vehicle exit point;		V
	• All temporary site access roads shall be sprayed with water to suppress dust as necessary;		V
	• All dusty materials should be sprayed with water immediately prior to any handling; and		V
	• All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area.		V
	Surface Run-off		
	• Bund and cover stockpiles to avoid run-off;		V
	• Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical;		V
	• All vehicle maintenance to be undertaken within a bunded area; and		N/A
	• Maximize vegetation retention on-site to maximize absorption (minimize transport).		V

Landscape and Visual Impact - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Landscape and Visual Impact during Construction	Preservation of Existing Vegetation	During construction	
	• 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		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
	Hoarding		
	• A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSR's.		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.		N/A
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.	V		

Legend: V = implemented;
x = not implemented;
@ = partially implemented;
N/A = not applicable - No such work was undertaken or no such material was used on site.

**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
AM1A	302.1 µg/m ³	500 µg/m ³
AM2	301.9 µg/m ³	500 µg/m ³
AM3	301.9 µg/m ³	500 µg/m ³
AM4A	302.3 µg/m ³	500 µg/m ³

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

Location	Action Level	Limit Level
AM1A	176.6 µg/m ³	260 µg/m ³
AM2	178.6 µg/m ³	260 µg/m ³
AM3	193.1 µg/m ³	260 µg/m ³
AM4A	198.5 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
NM1A	When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
NM2		75 dB(A)
NM3		65/70 dB(A)*
NM4		75 dB(A)
NM5		75 dB(A)
NM6		70 dB(A)*
NM7		75 dB(A)

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

**APPENDIX E
CALIBRATION CERTIFICATES OF
MONITORING EQUIPMENTS**

AECOM Asia Company Limited

TSP High Volume Sampler

Field Calibration Report

Station: Shan Tong New Village (AM2) Operator: Gary Choi
 Cal. Date: 15-Jan-14 Next Due Date: 15-Mar-14
 Equipment No.: A-001-29T Serial No.: 10202

Ambient Condition			
Temperature, Ta (K)	289	Pressure, Pa (mmHg)	767.0

Orifice Transfer Standard Information					
Serial No:	988	Slope, mc	1.94727	Intercept, bc	0.02332
Last Calibration Date:	20-May-13	$mc \times Qstd + bc = [DH \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	20-May-14	$Qstd = \{[DH \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Resistance Plate No.	Orifice			HVS Flow Recorder	
	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X-axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	10.0	3.23	1.64	46.0	46.93
13	7.5	2.79	1.42	41.0	41.82
10	5.5	2.39	1.22	35.0	35.70
7	3.8	1.99	1.01	28.0	28.56
5	2.5	1.61	0.82	23.0	23.46

By Linear Regression of Y on X
 Slope, mw = 29.0506 Intercept, bw = -0.2010
 Correlation Coefficient* = 0.9958
 *If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.30m³/min
 From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = IC \times [(Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)]^{1/2} = 36.82

Remarks: _____

QC Reviewer: WS CHAN Signature: [Signature] Date: 16/1/14

AECOM Asia Company Limited

TSP High Volume Sampler

Field Calibration Report

Station: Riverain Bayside (AM3) Operator: Choi Wing Ho
 Cal. Date: 22-Dec-13 Next Due Date: 22-Feb-14
 Equipment No.: A-001-69T Serial No.: 716

Ambient Condition			
Temperature, Ta (K)	289	Pressure, Pa (mmHg)	756.9

Orifice Transfer Standard Information					
Serial No:	988	Slope, mc	1.94727	Intercept, bc	0.02332
Last Calibration Date:	20-May-13	$mc \times Qstd + bc = [DH \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	20-May-14	$Qstd = \{[DH \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Resistance Plate No.	Orifice			HVS Flow Recorder	
	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X-axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	8.8	3.01	1.53	47.0	47.63
13	7.3	2.74	1.39	43.0	43.58
10	5.6	2.40	1.22	35.0	35.47
7	3.9	2.00	1.02	26.0	26.35
5	2.9	1.73	0.87	22.0	22.29

By Linear Regression of Y on X

Slope, mw = 40.2648 Intercept, bw = -13.5403

Correlation Coefficient* = 0.9943

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation
From the TSP Field Calibration Curve, take Qstd = 1.30m ³ /min
From the Regression Equation, the "Y" value according to
$mw \times Qstd + bw = IC \times [(Pa/760) \times (298/Ta)]^{1/2}$
Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} = <u>38.29</u>

Remarks: _____

QC Reviewer: YT Leung

Signature: 

Date: 23-12-13

AECOM Asia Company Limited
TSP High Volume Sampler
Field Calibration Report

Station: Riverain Bayside (AM3) Operator: Choi Wing Ho
 Cal. Date: 18-Feb-14 Next Due Date: 18-May-14
 Equipment No.: A-001-69T Serial No.: 716

Ambient Condition			
Temperature, Ta (K)	290	Pressure, Pa (mmHg)	762.4

Orifice Transfer Standard Information					
Serial No:	988	Slope, mc	1.94727	Intercept, bc	0.02332
Last Calibration Date:	20-May-13	$mc \times Qstd + bc = [DH \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	20-May-14	$Qstd = \{[DH \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Resistance Plate No.	Orifice			HVS Flow Recorder	
	DH (orifice), in. of water	$[DH \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (m ³ /min) X-axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	8.9	3.03	1.54	46.0	46.70
13	7.5	2.78	1.42	43.0	43.66
10	5.6	2.40	1.22	34.0	34.52
7	4.0	2.03	1.03	27.0	27.41
5	3.0	1.76	0.89	21.0	21.32

By Linear Regression of Y on X
 Slope, mw = 39.7791 Intercept, bw = -13.8329
 Correlation Coefficient* = 0.9949
 *If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation	
From the TSP Field Calibration Curve, take Qstd = 1.30m ³ /min	
From the Regression Equation, the "Y" value according to	
$mw \times Qstd + bw = IC \times [(Pa/760) \times (298/Ta)]^{1/2}$	
Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} =	<u>37.31</u>

Remarks: _____

QC Reviewer: H. Sun Signature: [Signature] Date: 20-2-14

AECOM Asia Company Limited

TSP High Volume Sampler

Field Calibration Report

Station: 168 Shek Kwu Lung Village (AM4A) Operator: Gary Choi
 Cal. Date: 15-Jan-14 Next Due Date: 15-Mar-14
 Equipment No.: A-001-70T Serial No.: 10273

Ambient Condition			
Temperature, Ta (K)	289	Pressure, Pa (mmHg)	767.0

Orifice Transfer Standard Information					
Serial No:	988	Slope, mc	1.94727	Intercept, bc	0.02332
Last Calibration Date:	20-May-13	$mc \times Qstd + bc = [DH \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	20-May-14	$Qstd = \{[DH \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Resistance Plate No.	Orifice			HVS Flow Recorder	
	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X-axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	9.0	3.06	1.56	46.0	46.93
13	7.4	2.78	1.41	42.0	42.84
10	5.0	2.28	1.16	35.0	35.70
7	3.3	1.85	0.94	27.0	27.54
5	2.5	1.61	0.82	23.0	23.46

By Linear Regression of Y on X
 Slope, mw = 31.7150 Intercept, bw = -2.0528
 Correlation Coefficient* = 0.9964
 *If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 1.30m³/min
 From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = IC \times [(Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)]^{1/2} = 38.40

Remarks: _____

QC Reviewer: WS CHAN Signature: [Signature] Date: 16/1/14



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE.
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 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 20, 2013 Rootsometer S/N 0438320 Ta (K) - 297
 Operator Tisch Orifice I.D. - 0988 Pa (mm) - 751.84

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3900	3.2	2.00
2	NA	NA	1.00	0.9720	6.4	4.00
3	NA	NA	1.00	0.8670	7.9	5.00
4	NA	NA	1.00	0.8270	8.7	5.50
5	NA	NA	1.00	0.6800	12.6	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9884	0.7110	1.4090	0.9957	0.7163	0.8889
0.9842	1.0125	1.9926	0.9915	1.0201	1.2570
0.9821	1.1327	2.2278	0.9894	1.1412	1.4054
0.9811	1.1863	2.3365	0.9884	1.1952	1.4740
0.9759	1.4352	2.8179	0.9832	1.4459	1.7777
Qstd slope (m) = 1.94727			Qa slope (m) = 1.21935		
intercept (b) = 0.02332			intercept (b) = 0.01471		
coefficient (r) = 0.99998			coefficient (r) = 0.99998		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

$$Qstd = 1/m \{ [\text{SQRT}(\text{H2O}(\text{Pa}/760)(298/\text{Ta}))] - b \}$$

$$Qa = 1/m \{ [\text{SQRT} \text{H2O}(\text{Ta}/\text{Pa})] - b \}$$

EQUIPMENT CALIBRATION RECORD

Type: Laser Dust Monitor
 Manufacturer/Brand: SIBATA
 Model No.: LD-3
 Equipment No.: A.005.09a
 Sensitivity Adjustment Scale Setting: 797 CPM
 Operator: Mike Shek (MSKM)

Standard Equipment

Equipment: Rupprecht & Patashnick TEOM®
 Venue: Cyberport (Pui Ying Secondary School)
 Model No.: Series 1400AB
 Serial No: Control: 140AB219899803
 Sensor: 1200C143659803 K₀: 12500
 Last Calibration Date*: 18 May 2013

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): 797 CPM
 Sensitivity Adjustment Scale Setting (After Calibration): 797 CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
			Temp (°C)	R.H. (%)			
1	18-05-13	12:30 - 13:30	28.1	78	0.04714	1885	31.42
2	18-05-13	13:30 - 14:30	28.1	78	0.04932	1965	32.75
3	18-05-13	14:30 - 15:30	28.2	77	0.05156	2059	34.32
4	18-05-13	15:30 - 16:30	28.1	78	0.05083	2024	33.73


- Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
 2. Total Count was logged by Laser Dust Monitor
 3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor): 0.0015
 Correlation coefficient: 0.9973

Validity of Calibration Record: 17 May 2014

Remarks:

QC Reviewer: YW Fung Signature:  Date: 20 May 2013

EQUIPMENT CALIBRATION RECORD

Type: Laser Dust Monitor
 Manufacturer/Brand: SIBATA
 Model No.: LD-3
 Equipment No.: A.005.10a
 Sensitivity Adjustment Scale Setting: 753 CPM

Operator: Mike Shek (MSKM)

Standard Equipment

Equipment: Rupprecht & Patashnick TEOM®
 Venue: Cyberport (Pui Ying Secondary School)
 Model No.: Series 1400AB
 Serial No: Control: 140AB219899803
 Sensor: 1200C143659803 K₀: 12500
 Last Calibration Date*: 18 May 2013

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): 753 CPM
 Sensitivity Adjustment Scale Setting (After Calibration): 753 CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
			Temp (°C)	R.H. (%)			
1	18-05-13	12:30 - 13:30	28.1	78	0.04714	1886	31.43
2	18-05-13	13:30 - 14:30	28.1	78	0.04932	1968	32.80
3	18-05-13	14:30 - 15:30	28.2	77	0.05156	2061	34.35
4	18-05-13	15:30 - 16:30	28.1	78	0.05083	2026	33.77


Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
 2. Total Count was logged by Laser Dust Monitor
 3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor): 0.0015
 Correlation coefficient: 0.9983

Validity of Calibration Record: 17 May 2014

Remarks:

QC Reviewer: YW Fung Signature:  Date: 20 May 2013

EQUIPMENT CALIBRATION RECORD

Type: Laser Dust Monitor
 Manufacturer/Brand: SIBATA
 Model No.: LD-3
 Equipment No.: A.005.11a
 Sensitivity Adjustment Scale Setting: 799 CPM
 Operator: Mike Shek (MSKM)

Standard Equipment

Equipment: Rupprecht & Patashnick TEOM®
 Venue: Cyberport (Pui Ying Secondary School)
 Model No.: Series 1400AB
 Serial No: Control: 140AB219899803
 Sensor: 1200C143659803 K₀: 12500
 Last Calibration Date*: 18 May 2013

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): 799 CPM
 Sensitivity Adjustment Scale Setting (After Calibration): 799 CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
			Temp (°C)	R.H. (%)			
1	18-05-13	12:15 - 13:15	28.1	78	0.04685	1871	31.18
2	18-05-13	13:15 - 14:15	28.1	78	0.04941	1979	32.98
3	18-05-13	14:15 - 15:15	28.2	77	0.05127	2055	34.25
4	18-05-13	15:15 - 16:15	28.1	78	0.05060	2021	33.68


- Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
 2. Total Count was logged by Laser Dust Monitor
 3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor): 0.0015
 Correlation coefficient: 0.9976

Validity of Calibration Record: 17 May 2014

Remarks:

QC Reviewer: YW Fung Signature:  Date: 20 May 2013

EQUIPMENT CALIBRATION RECORD

Type: Laser Dust Monitor
 Manufacturer/Brand: SIBATA
 Model No.: LD-3B
 Equipment No.: A.005.13a
 Sensitivity Adjustment Scale Setting: 643 CPM

Operator: Mike Shek (MSKM)

Standard Equipment

Equipment: Rupprecht & Patashnick TEOM®
 Venue: Cyberport (Pui Ying Secondary School)
 Model No.: Series 1400AB
 Serial No: Control: 140AB219899803
 Sensor: 1200C143659803 K₀: 12500
 Last Calibration Date*: 18 May 2013

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): 643 CPM
 Sensitivity Adjustment Scale Setting (After Calibration): 643 CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
			Temp (°C)	R.H. (%)			
1	18-05-13	12:15 - 13:15	28.1	78	0.04685	1867	31.12
2	18-05-13	13:15 - 14:15	28.1	78	0.04941	1975	32.92
3	18-05-13	14:15 - 15:15	28.2	77	0.05127	2048	34.13
4	18-05-13	15:15 - 16:15	28.1	78	0.05060	2017	33.62

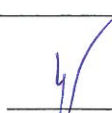
- Note:
1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
 2. Total Count was logged by Laser Dust Monitor
 3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor): 0.0015
 Correlation coefficient: 0.9986

Validity of Calibration Record: 17 May 2014

Remarks:

QC Reviewer: YW Fung Signature:  Date: 20 May 2013

EQUIPMENT CALIBRATION RECORD

Type: Laser Dust Monitor
 Manufacturer/Brand: SIBATA
 Model No.: LD-3B
 Equipment No.: A.005.16a
 Sensitivity Adjustment Scale Setting: 521 CPM

Operator: Mike Shek (MSKM)

Standard Equipment

Equipment: Rupprecht & Patashnick TEOM®
 Venue: Cyberport (Pui Ying Secondary School)
 Model No.: Series 1400AB
 Serial No: Control: 140AB219899803
 Sensor: 1200C143659803 K_o: 12500
 Last Calibration Date*: 18 May 2013

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): 521 CPM
 Sensitivity Adjustment Scale Setting (After Calibration): 521 CPM

Hour	Date (dd-mm-yy)	Time	Ambient Condition		Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
			Temp (°C)	R.H. (%)			
1	27-07-13	11:00 - 12:00	27.3	75	0.04734	1893	31.55
2	27-07-13	12:00 - 13:00	27.3	75	0.04789	1915	31.92
3	27-07-13	13:00 - 14:00	27.4	74	0.04953	1976	32.93
4	27-07-13	14:00 - 15:00	27.4	75	0.04867	1949	32.48

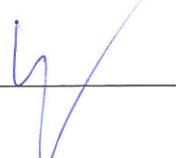
Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®
 2. Total Count was logged by Laser Dust Monitor
 3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor): 0.0015
 Correlation coefficient: 0.9934

Validity of Calibration Record: 26 July 2014

Remarks:

QC Reviewer: YW Fung Signature:  Date: 29 July 2013



CERTIFICATE OF CALIBRATION

Certificate No.: 13CA1107 01-02

Page: 1 of 2

Item tested

Description: Acoustical Calibrator (Class 1)
Manufacturer: Rion Co., Ltd.
Type/Model No.: NC-73
Serial/Equipment No.: 10307223 / N.004.08
Adaptors used: -

Item submitted by

Customer: AECOM ASIA CO., LTD.
Address of Customer: -
Request No.: -
Date of receipt: 07-Nov-2013

Date of test: 08-Nov-2013

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	17-Apr-2014	SCL
Preamplifier	B&K 2673	2239857	16-Apr-2014	CEPREI
Measuring amplifier	B&K 2610	2346941	24-Apr-2014	CEPREI
Signal generator	DS 360	61227	15-Apr-2014	CEPREI
Digital multi-meter	34401A	US36087050	10-Dec-2013	CEPREI
Audio analyzer	8903B	GB41300350	15-Apr-2014	CEPREI
Universal counter	53132A	MY40003662	15-Apr-2014	CEPREI

Ambient conditions

Temperature: 22 ± 1 °C
Relative humidity: 60 ± 10 %
Air pressure: 1000 ± 10 hPa

Test specifications

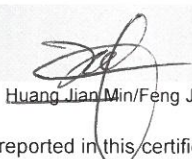
- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on **page 2** of this certificate.

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 11-Nov-2013

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.



CERTIFICATE OF CALIBRATION

Certificate No.: 13CA1107 01-01 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	Rion Co., Ltd.	,	Rion Co., Ltd.
Type/Model No.:	NL-31	,	UC-53A
Serial/Equipment No.:	00320528 / N.007.03A	,	90565
Adaptors used:	-	,	-

Item submitted by

Customer Name: AECOM ASIA CO., LTD.
Address of Customer: -
Request No.: -
Date of receipt: 07-Nov-2013

Date of test: 08-Nov-2013

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	22-Jun-2014	CIGISMEC
Signal generator	DS 360	33873	15-Apr-2014	CEPREI
Signal generator	DS 360	61227	15-Apr-2014	CEPREI

Ambient conditions

Temperature: 22 ± 1 °C
Relative humidity: 60 ± 10 %
Air pressure: 1000 ± 10 hPa

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure response of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian Min/Feng Jun Qi

Date: 11-Nov-2013

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.



CERTIFICATE OF CALIBRATION

Certificate No.: 13CA0325 01-01 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	B & K	,	B & K
Type/Model No.:	2238	,	4188
Serial/Equipment No.:	2285692	, 11009.04	2250420
Adaptors used:	-	,	-

Item submitted by

Customer Name: AECOM ASIA CO., LTD.
Address of Customer: -
Request No.: -
Date of receipt: 25-Mar-2013

Date of test: 26-Mar-2013

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	22-Jun-2013	CIGISMEC
Signal generator	DS 360	33873	29-May-2013	CEPREI
Signal generator	DS 360	61227	29-May-2013	CEPREI

Ambient conditions

Temperature: 22 ± 1 °C
Relative humidity: 60 ± 10 %
Air pressure: 1000 ± 10 hPa

Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure response of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 26-Mar-2013

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.



CERTIFICATE OF CALIBRATION

Certificate No.: 13CA0305 01-01 Page 1 of 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	B & K	,	B & K
Type/Model No.:	2250-L	,	4950
Serial/Equipment No.:	2681366 (N.011.01)	,	2665582
Adaptors used:	-	,	-

Item submitted by

Customer Name: AECOM ASIA CO LIMITED
Address of Customer: -
Request No.: -
Date of receipt: 05-Mar-2013

Date of test: 05-Mar-2013

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	23-May-2013	CIGISMEC
Signal generator	DS 360	33873	29-May-2013	CEPREI
Signal generator	DS 360	61227	29-May-2013	CEPREI

Ambient conditions

Temperature: 21 ± 1 °C
Relative humidity: 60 ± 10 %
Air pressure: 1000 ± 10 hPa

Test specifications

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsiveness of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:


Huang Jian Min/Feng Jun Qi

Date: 05-Mar-2013

Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

**APPENDIX F
EM&A MONITORING SCHEDULES**

**Widening of Tolo Highway / Fanling Highway (Stage 1) Between Island House Interchange and Tai Hang - Investigation
Impact Monitoring and Audit Schedule for February 2014**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Feb
2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb
			Site inspection (Contract 1) 24-hour TSP 1-hour TSP & Noise	Site inspection (Contract 2)		
9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
		24-hour TSP 1-hour TSP & Noise	Site inspection (Contract 1)	Site inspection (Contract 2)		
16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb
	24-hour TSP* (for AM1, AM3 and AM4) 1-hour TSP & Noise		24-hour TSP* (for AM2) Site inspection (Contract 1)	Site inspection (Contract 2)		24-hour TSP 1-hour TSP
23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	
			Site inspection (Contract 1)	Site inspection (Contract 2)	24-hour TSP 1-hour TSP & Noise	

* Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

**Widening of Tolo Highway / Fanling Highway (Stage 1) Between Island House Interchange and Tai Hang - Investigation
Tentative Impact Monitoring and Audit Schedule for March 2014**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Mar
2-Mar	3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar
			Site inspection (Contract 1)	Site inspection (Contract 2) 24-hour TSP 1-hour TSP & Noise		
9-Mar	10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar
			Site inspection (Contract 1) 24-hour TSP 1-hour TSP & Noise	Site inspection (Contract 2)		
16-Mar	17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar
		24-hour TSP 1-hour TSP & Noise	Site inspection (Contract 1)	Site inspection (Contract 2)		
23-Mar	24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar
	24-hour TSP 1-hour TSP		Site inspection (Contract 1)	Site inspection (Contract 2)		24-hour TSP 1-hour TSP
30-Mar	31-Mar					

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

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

Appendix G
Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM1A
(Fan Sin Temple, 3 Sheung Wun Yiu G/F)

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
5-Feb-14	10:21	74.9	73.6	72.7
11-Feb-14	10:00	72.7	74.1	70.8
17-Feb-14	9:40	80.6	82.4	81.5
22-Feb-14	11:08	80.5	81.7	82.3
28-Feb-14	9:56	73.7	75.1	74.3
Average				76.7
Min				70.8
Max				82.4

1-hour TSP Monitoring Results at Station AM2
(12 Shan Tong New Village G/F)

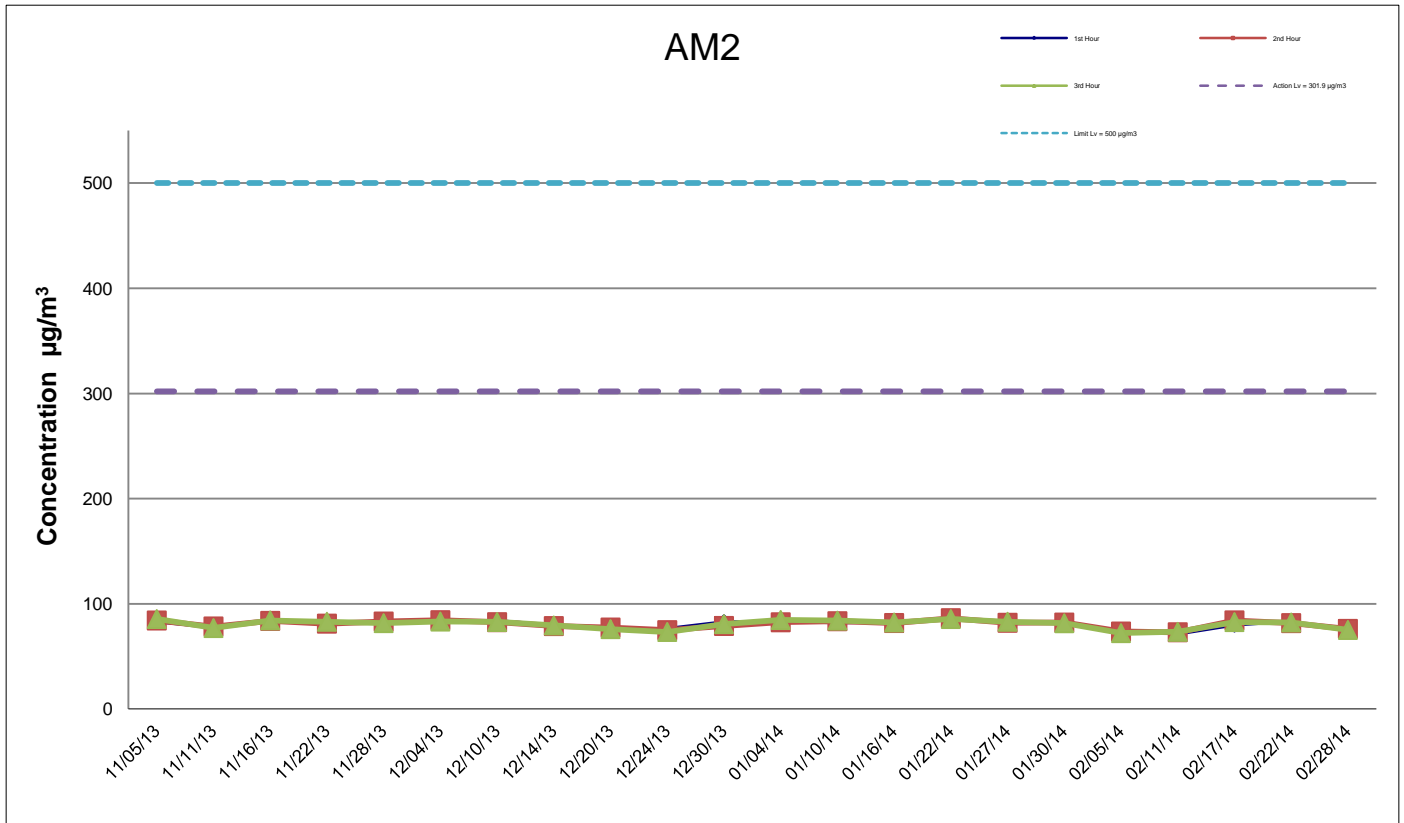
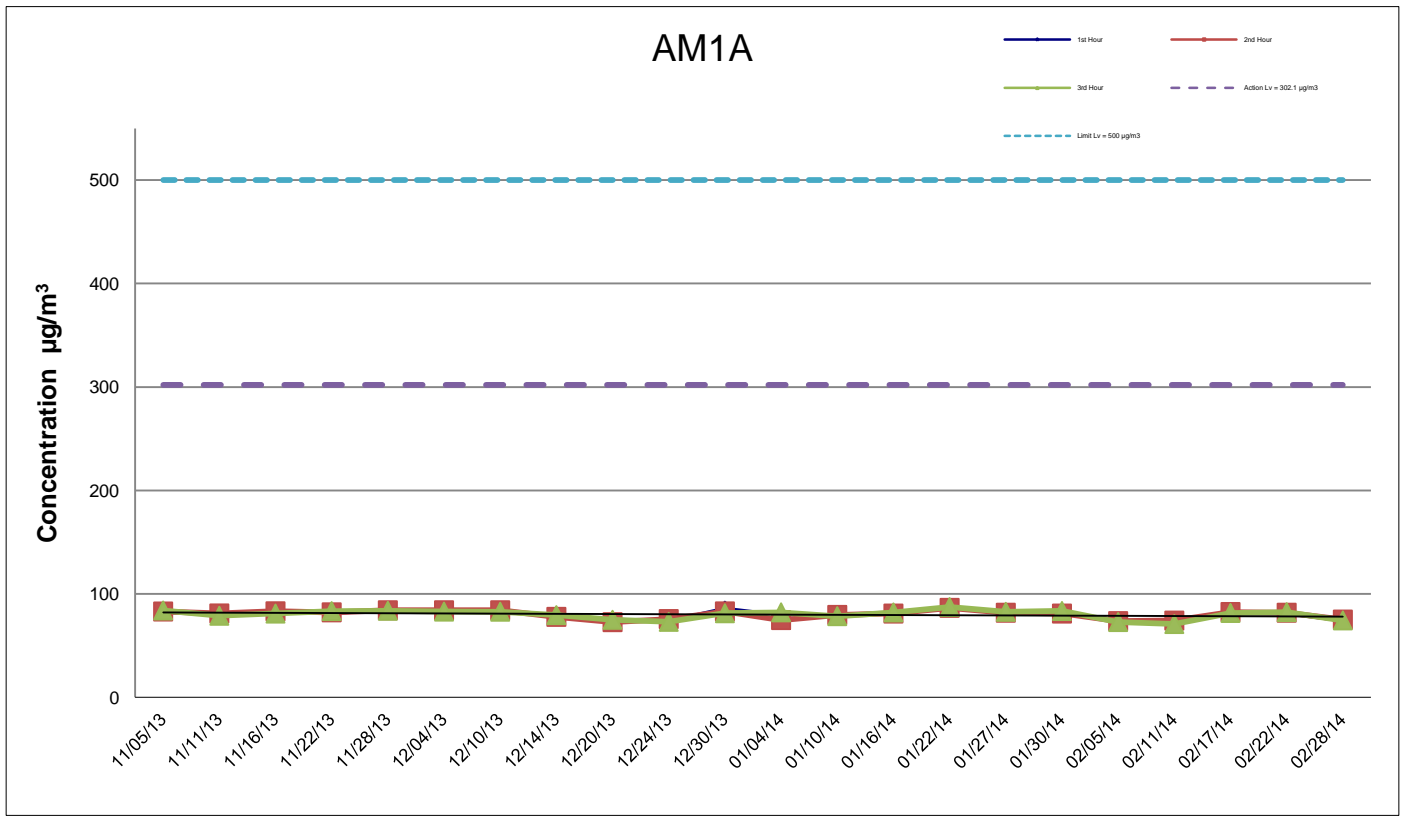
Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
5-Feb-14	10:09	74.4	73.6	72.1
11-Feb-14	10:10	71.1	72.9	73.3
17-Feb-14	9:50	79.6	84.2	82.6
22-Feb-14	10:55	83.0	81.6	82.2
28-Feb-14	9:42	75.5	76.1	75.1
Average				77.2
Min				71.1
Max				84.2

1-hour TSP Monitoring Results at Station AM3
(Roof of Switch Room at Riverain Bayside)

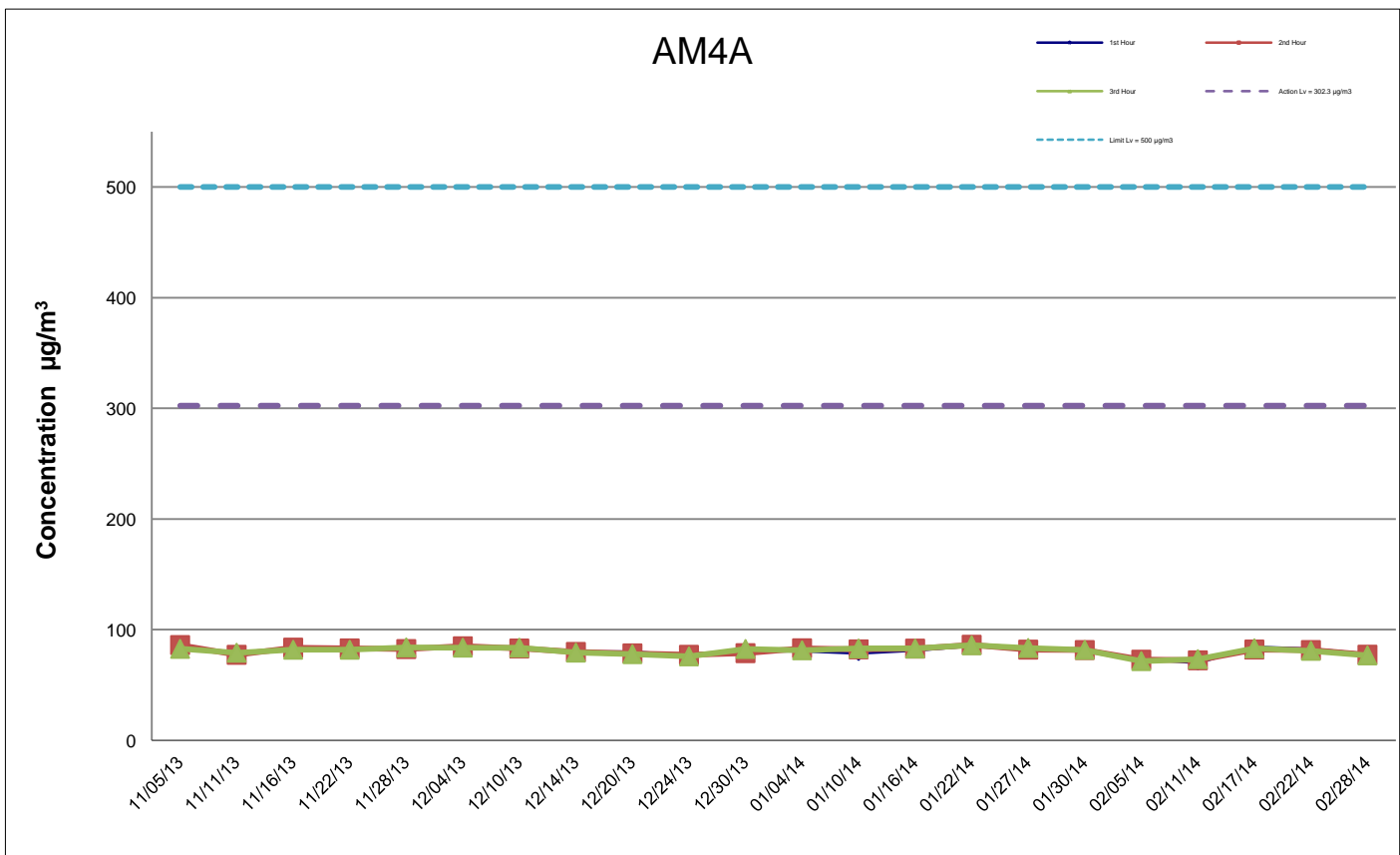
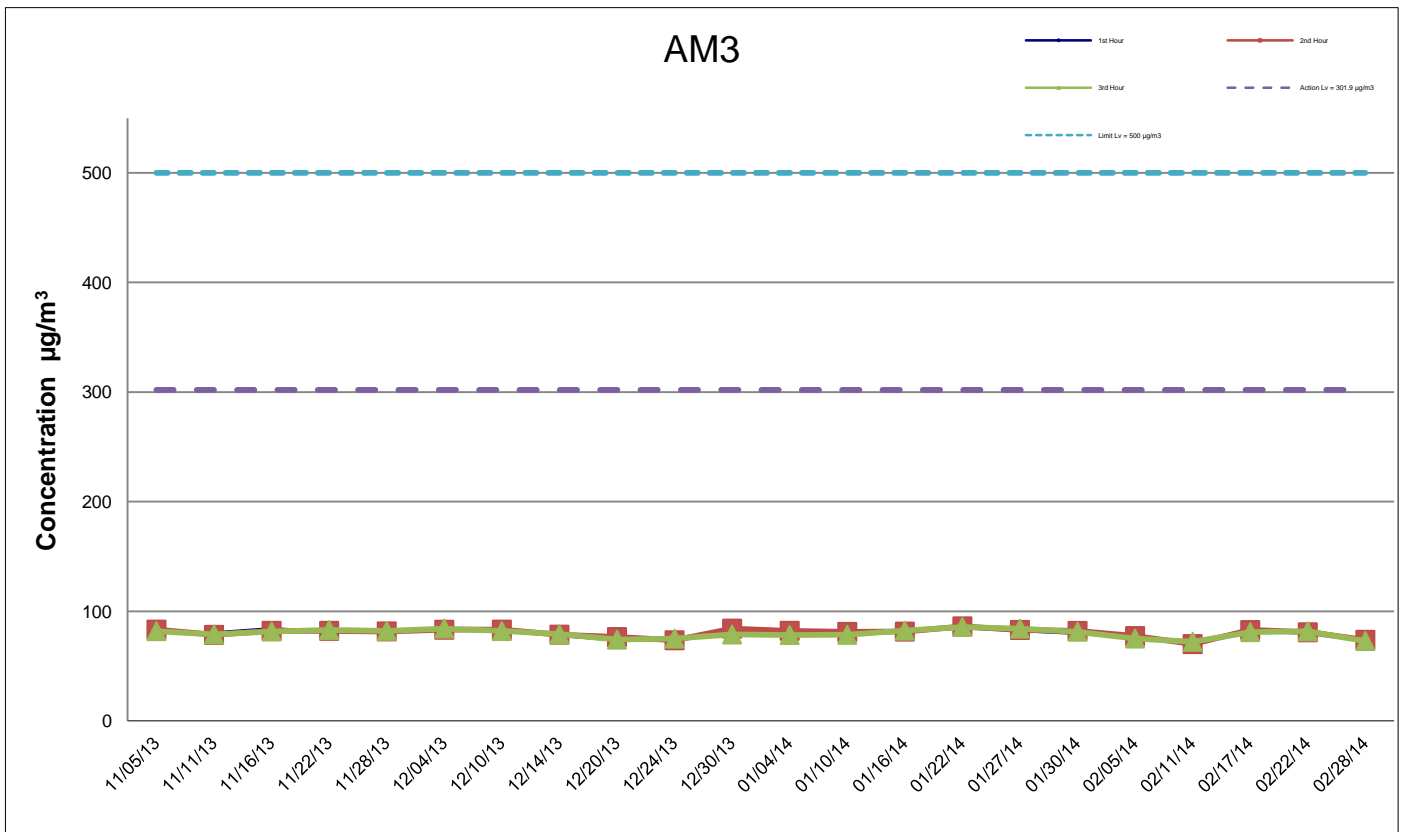
Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
5-Feb-14	9:56	76.1	77.4	75.2
11-Feb-14	9:45	71.6	70.1	72.2
17-Feb-14	10:02	81.4	82.9	81.0
22-Feb-14	10:40	83.1	80.9	81.8
28-Feb-14	10:12	73.9	74.0	72.9
Average				77.0
Min				70.1
Max				83.1

1-hour TSP Monitoring Results at Station AM4A
(Roof of Switch Room at 168 Shek Kwu Lung Village)

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
5-Feb-14	10:48	73.4	72.9	71.6
11-Feb-14	10:35	69.8	72.3	73.4
17-Feb-14	10:15	84.6	82.1	83.2
22-Feb-14	11:26	82.7	81.6	80.9
28-Feb-14	10:36	78.2	77.4	76.8
Average				77.4
Min				69.8
Max				84.6



AECOM	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-14
	Graphical Presentation of Impact 1-hour TSP Monitoring Results	CHECK	ENFL	DRAWN	JCYK
		JOB NO.	60102979	APPENDIX No.	G



Remark: The monitoring station at Tai Kwong Secondary School (AM4) was relocated to 168 Shek Kwu Lung Village (AM4A) starting from 1 September 2011 due to the mentioned school was closed down.

AECOM	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-14
	Graphical Presentation of Impact 1-hour TSP Monitoring Results	CHECK	ENFL	DRAWN	JCYK
		JOB NO.	60102979	APPENDIX No. G	

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM1A (Fan Sin Temple, 3 Sheung Wun Yiu G/F)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final		
5-Feb-14	Fine	17.1	1013.9	1.33	1.33	1.33	1916.6	2.6867	2.7644	0.0777	20523.46	20547.46	24.00	40.5
11-Feb-14	Fine	8.4	1019.9	1.33	1.33	1.33	1916.6	2.5431	2.5973	0.0542	20547.46	20571.46	24.00	28.3
17-Feb-14	Fine	17.6	1018.1	1.33	1.33	1.33	1916.6	2.7140	2.7846	0.0706	20571.46	20595.46	24.00	36.8
22-Feb-14	Fine	14.7	1023.0	1.33	1.33	1.33	1916.6	2.5380	2.6297	0.0917	20595.46	20619.46	24.00	47.8
28-Feb-14	Fine	18.3	1017.0	1.33	1.33	1.33	1916.6	2.6631	2.7100	0.0469	20619.46	20643.46	24.00	24.5
													Average	35.6
													Min	24.5
													Max	47.8

24-hour TSP Monitoring Results at Station AM2 (12 Shan Tong New Village G/F)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final		
5-Feb-14	Fine	17.1	1013.9	1.34	1.34	1.34	1925.3	2.6644	2.7348	0.0704	17095.12	17119.12	24.00	36.6
11-Feb-14	Fine	8.4	1019.9	1.34	1.34	1.34	1925.3	2.7382	2.8104	0.0722	17119.12	17143.12	24.00	37.5
19-Feb-14	Fine	10.0	1021.5	1.34	1.34	1.34	1925.3	2.7180	2.7989	0.0809	17143.12	17167.12	24.00	42.0
22-Feb-14	Fine	14.7	1023.0	1.31	1.31	1.31	1882.1	2.6562	2.6660	0.0098	17167.12	17191.12	24.00	5.2
28-Feb-14	Fine	18.3	1017.0	1.34	1.34	1.34	1925.3	2.6692	2.7228	0.0536	17191.12	17215.12	24.00	27.8
													Average	29.8
													Min	5.2
													Max	42.0

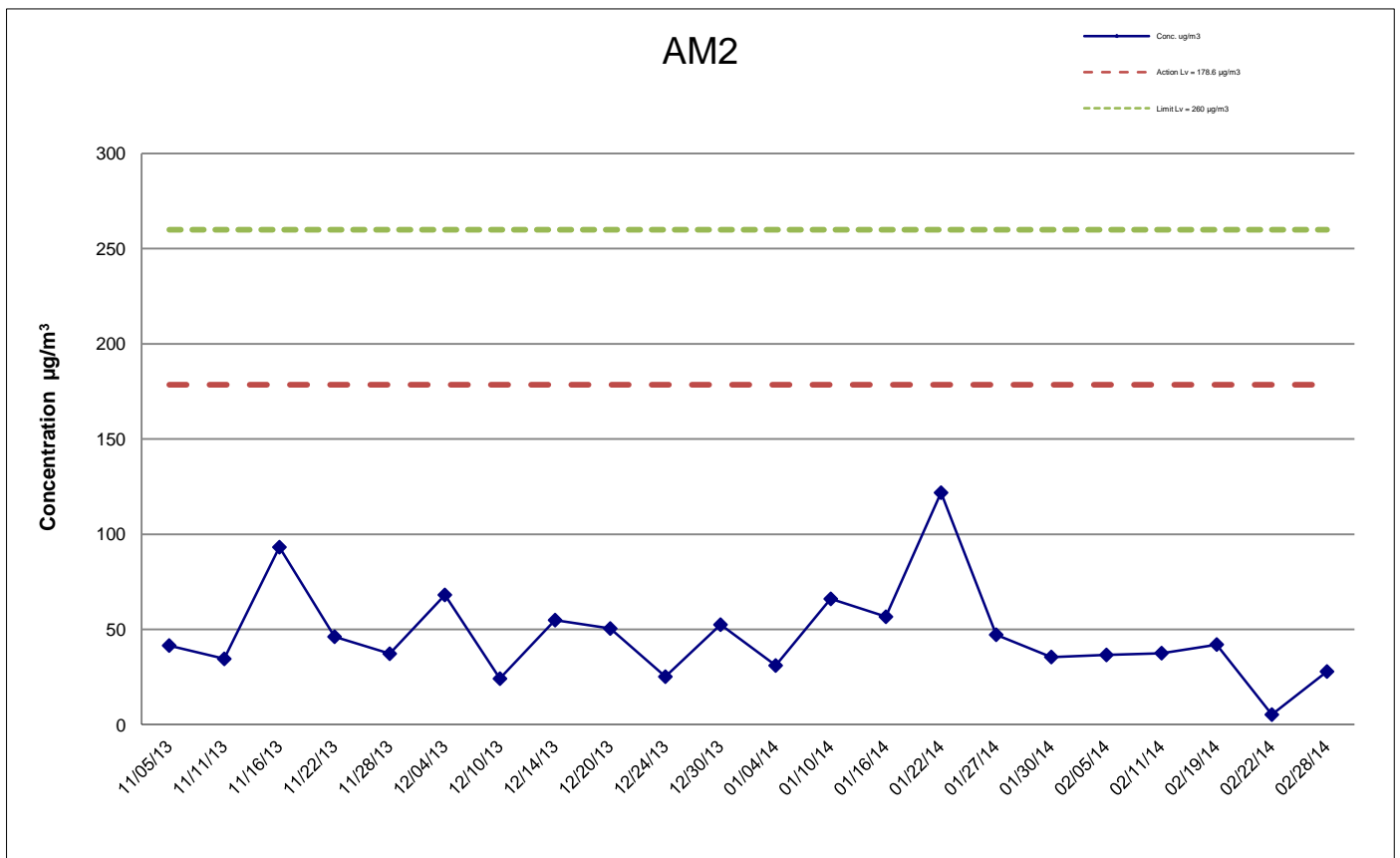
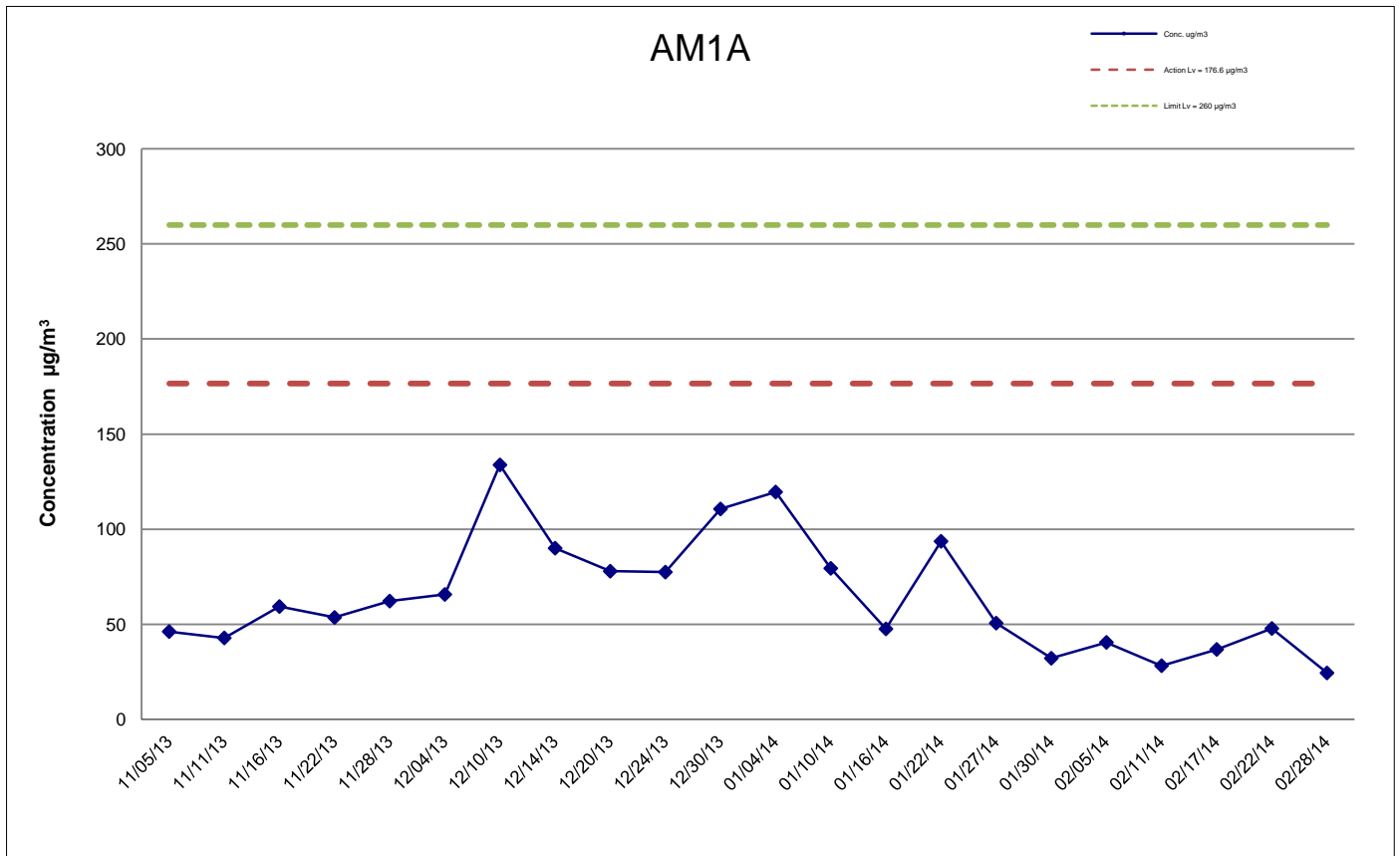
Remarks: Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

24-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final		
5-Feb-14	Fine	17.1	1013.9	1.33	1.33	1.33	1921.0	2.6388	2.7276	0.0888	20824.59	20848.59	24.00	46.2
11-Feb-14	Fine	8.4	1019.9	1.33	1.33	1.33	1921.0	2.7180	2.8311	0.1131	20848.59	20872.59	24.00	58.9
17-Feb-14	Fine	17.6	1018.1	1.33	1.33	1.33	1921.0	2.7353	2.8293	0.0940	20872.59	20896.59	24.00	48.9
22-Feb-14	Fine	14.7	1023.0	1.33	1.33	1.33	1921.0	2.6819	2.7805	0.0986	20896.59	20920.59	24.00	51.3
28-Feb-14	Fine	18.3	1017.0	1.33	1.33	1.33	1921.0	2.5192	2.6070	0.0878	20920.59	20944.59	24.00	45.7
													Average	50.2
													Min	45.7
													Max	58.9

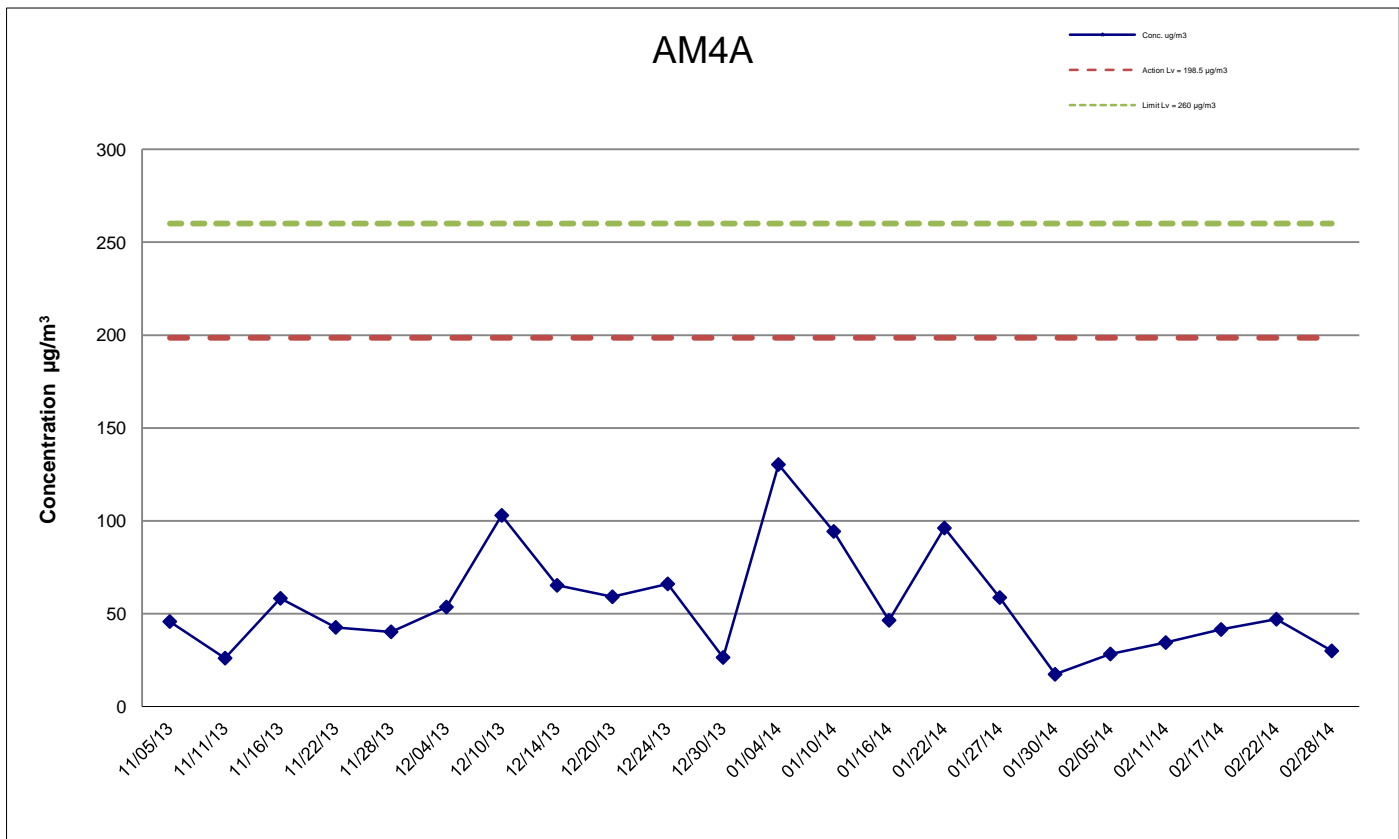
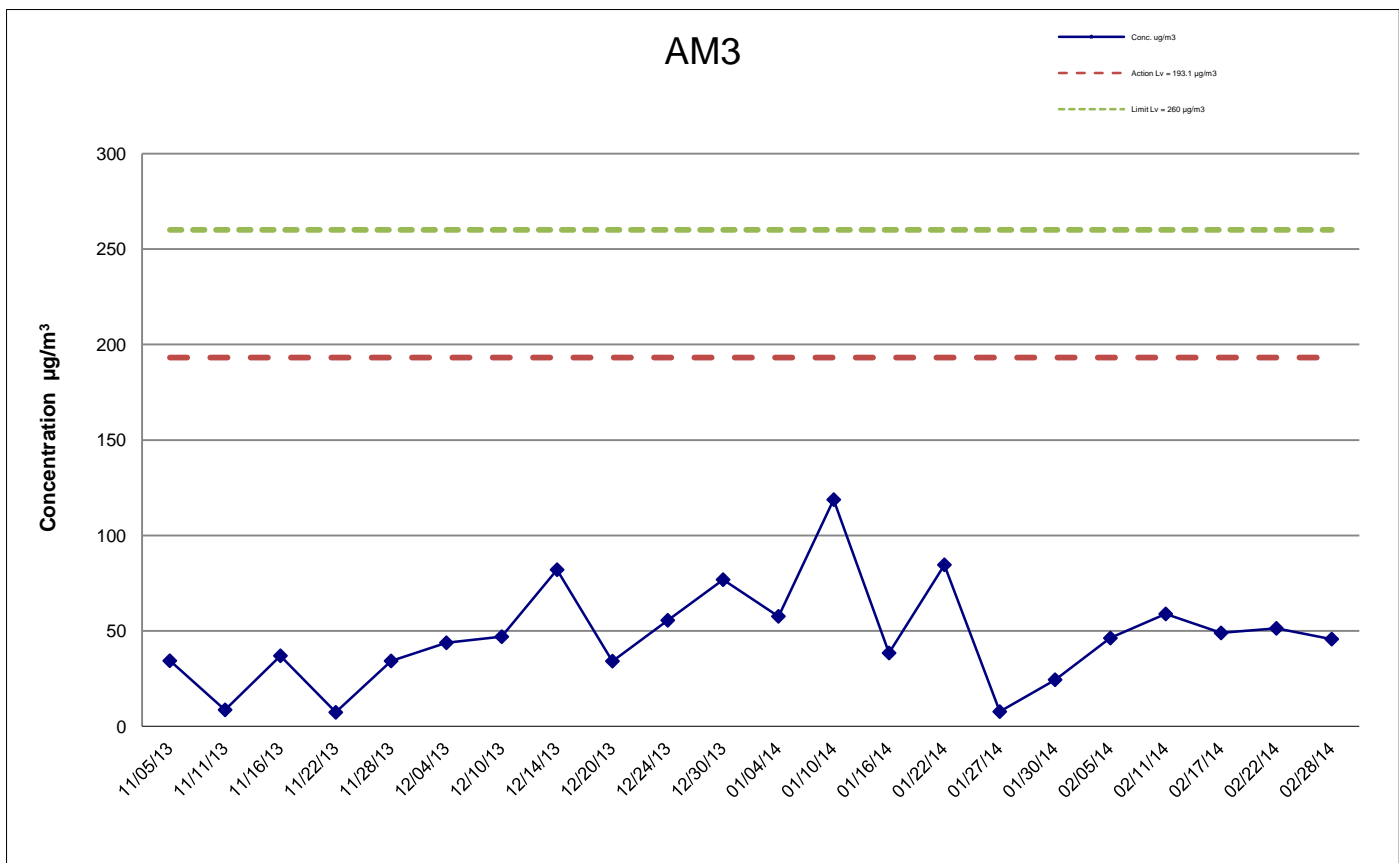
24-hour TSP Monitoring Results at Station AM4A (Roof of Switch Room at 168 Shek Kwu Lung Village)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final		
5-Feb-14	Fine	17.1	1013.9	1.33	1.33	1.33	1918.1	2.5990	2.6532	0.0542	16954.36	16978.36	24.00	28.3
11-Feb-14	Fine	8.4	1019.9	1.33	1.33	1.33	1918.1	2.7293	2.7953	0.0660	16978.36	17002.36	24.00	34.4
17-Feb-14	Fine	17.6	1018.1	1.33	1.33	1.33	1918.1	2.6951	2.7746	0.0795	17002.36	17026.36	24.00	41.4
22-Feb-14	Fine	14.7	1023.0	1.33	1.33	1.33	1918.1	2.6940	2.7841	0.0901	17026.36	17050.36	24.00	47.0
28-Feb-14	Fine	18.3	1017.0	1.33	1.33	1.33	1918.1	2.6613	2.7187	0.0574	17050.36	17074.36	24.00	29.9
													Average	36.2
													Min	28.3
													Max	47.0



Remarks: Due to power failure in AM2 on 17 February 2014, the 24-hr TSP monitoring was postponed to 19 February 2014.

AECOM	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-14
		CHECK	ENFL	DRAWN	JCYK
	Graphical Presentation of Impact 24-hour TSP Monitoring Results	JOB NO.	60102979	APPENDIX No. G	Rev. -



Remark: The monitoring station at Tai Kwong Secondary School (AM4) was relocated to 168 Shek Kwu Lung Village (AM4A) starting from 1 September 2011 due to the mentioned school was closed down.

	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-14
	Graphical Presentation of Impact 24-hour TSP Monitoring Results	CHECK	ENFL	DRAWN	JCYK
		JOB NO.	60102979	APPENDIX No.	
				G	-

**APPENDIX H
METEOROLOGICAL DATA FOR THE
REPORTING MONTH**

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,
February 2014**

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. (%)
1-Feb	*****	26.2	20.2	16.9	****	***	***	***
2-Feb	*****	27.2	20.3	15.8	****	***	***	***
3-Feb	*****	29.1	20.9	15.8	****	***	***	***
4-Feb	*****	19.8	17.6	16.2	****	***	***	***
5-Feb	*****	22.3	17.6	15.9	****	***	***	***
6-Feb	*****	23.5	18.7	15.9	****	***	***	***
7-Feb	*****	23.9	20.2	17.9	****	***	***	***
8-Feb	*****	19.4	15.5	14.4	****	***	***	***
9-Feb	*****	16.2	13.5	8.2	****	***	***	***
10-Feb	*****	9.1	7.8	6.9	****	***	***	***
11-Feb	*****	9.4	7.1	6.1	****	***	***	***
12-Feb	*****	9.4	7.6	5.9	****	***	***	***
13-Feb	*****	9.0	7.7	6.8	****	***	***	***
14-Feb	*****	14.8	10	7.2	****	***	***	***
15-Feb	*****	13.5	11.1	7.7	****	***	***	***
16-Feb	*****	15.5	14.5	13.3	****	***	***	***
17-Feb	*****	22.9	18	15.1	****	***	***	***
18-Feb	*****	23.1	17	10.5	****	***	***	***
19-Feb	*****	11.4	8.8	5.9	****	***	***	***
20-Feb	*****	18.6	11.5	5.3	****	***	***	***
21-Feb	*****	16.7	13.5	9.6	****	***	***	***
22-Feb	*****	21	14.8	12	****	***	***	***
23-Feb	*****	20.9	16.3	13.7	****	***	***	***
24-Feb	*****	23.1	17.9	14.1	****	***	***	***
25-Feb	*****	23.2	18.8	17.1	****	***	***	***
26-Feb	*****	25.4	20.2	17.8	****	***	***	***
27-Feb	*****	23.1	19.4	18	****	***	***	***
28-Feb	*****	18.8	18	16.9	****	***	***	***
Mean	*****	19.2	15.2	12.4	****	***	***	***
Maximum	*****	29.1	20.9	18	****	***	***	***
Minimum	*****	9.0	7.1	5.3	****	***	***	***

**Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station,
February 2014**

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Feb	0.0	70	5.3
2-Feb	0.0	260	4.6
3-Feb	0.0	150	4.8
4-Feb	0.0	90	20.5
5-Feb	0.0	90	12.5
6-Feb	0.0	60	8.5
7-Feb	0.0	60	6.3
8-Feb	0.5	50	9.6
9-Feb	6.0	40	16.0
10-Feb	1.0	30	14.3
11-Feb	0.0	40	10.9
12-Feb	1.5	50	8.6
13-Feb	10.0	30	7.9
14-Feb	0.0	20	11.4
15-Feb	0.0	40	10.4
16-Feb	0.0	80	13.5
17-Feb	0.0	60	6.3
18-Feb	0.0	260	9.3
19-Feb	6.5	20	17.7
20-Feb	0.0	110	6.2
21-Feb	0.0	90	18.3
22-Feb	0.0	50	16.2
23-Feb	0.0	70	16.3
24-Feb	0.0	50	12.6
25-Feb	0.0	70	9.5
26-Feb	0.0	60	4.5
27-Feb	0.0	70	14.0
28-Feb	0.0	90	12.5
Mean	-----	50	11.0
Total	25.5	---	-----
Maximum	10.0	---	20.5
Minimum	0.0	---	4.5

*** 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

**Extract of Meteorological Observations for Tai Po Automatic Weather Station,
February 2014**

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. (%)
1-Feb	1015.4	23.2	19.1	16.2	15.8	96	82	64
2-Feb	1011.4	24.5	19.3	15	14.8	95	77	52
3-Feb	1009.9	27.6	20.1	15.3	14	88	70	40
4-Feb	1013.4	19.8	17.6	16.4	14.2	92	80	69
5-Feb	1013.9	18.7	17.2	16.1	13.4	91	79	71
6-Feb	1012.1	20.9	18.2	16.4	16	94	87	76
7-Feb	1010.9	21.3	19.3	17.8	17.4	93	89	82
8-Feb	1011.7	19.3	15.2	13.6	13	97	87	72
9-Feb	1012.8	16.4	13.4	8.0	12.1	96	92	83
10-Feb	1019.8	8.6	7.7	6.6	2.6	93	70	58
11-Feb	1020.6	7.8	6.7	5.9	-0.2	68	61	53
12-Feb	1019.4	8.0	6.6	4.9	3.8	94	83	64
13-Feb	1022.2	8.0	6.8	5.9	4.6	94	86	65
14-Feb	1022.6	13.9	9.5	6.7	2.6	75	62	45
15-Feb	1020.9	13.9	10.7	7.6	5.8	82	72	65
16-Feb	1018.6	15.7	14.5	13.7	11.9	92	85	74
17-Feb	1018.1	19.6	17.2	15.2	16.1	97	93	84
18-Feb	1016.7	22	16.3	10.8	14.4	98	89	70
19-Feb	1022.4	11	8.9	7.0	3.6	94	70	53
20-Feb	1025.2	17.6	10.6	4.4	2.7	84	61	26
21-Feb	1024.8	15.4	12.9	8.9	7.8	93	72	54
22-Feb	1023.4	17.1	14.6	13	8.7	81	68	48
23-Feb	1022.9	18.7	16.2	14.5	11.3	86	73	53
24-Feb	1020.7	20.5	17.1	14	13	90	77	59
25-Feb	1018.6	19.7	18	16.5	15.7	94	86	77
26-Feb	1018.1	23.4	19.5	17.5	17.6	97	89	69
27-Feb	1019	21.5	19.1	17.9	16.9	96	88	78
28-Feb	1017.1	19.3	18.2	17.5	15.7	91	86	80
Mean	1017.9	17.6	14.7	12.3	10.9	91	79	64
Maximum	1025.2	27.6	20.1	17.9	17.6	98	93	84
Minimum	1009.9	7.8	6.6	4.4	-0.2	68	61	26

**Extract of Meteorological Observations for Tai Po Automatic Weather Station,
February 2014**

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
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-Feb	*****	***	*****
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

**Extract of Meteorological Observations for Sha Tin Automatic Weather Station,
February 2014**

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. (%)
1-Feb	1015.5	24.7	18.9	15.3	15.4	100	82	49
2-Feb	1011.7	25.8	18.5	13.5	14.1	100	78	45
3-Feb	1010.1	27.3	19.2	13	13.8	98	74	40
4-Feb	1013.7	18.3	16.9	14.2	13.6	96	81	73
5-Feb	1014.2	19.2	16.6	15.3	13	91	79	68
6-Feb	1012.2	21.5	18.3	16.2	15.8	93	85	73
7-Feb	1010.9	22.3	19.7	17.2	17.4	97	87	75
8-Feb	1011.7	19.7	15.4	13.6	13.2	97	87	72
9-Feb	1012.8	15.9	13.4	8.7	11.8	97	90	76
10-Feb	1019.7	8.9	7.7	6.6	2.5	91	69	58
11-Feb	1020.4	7.4	6.5	5.7	-0.3	71	62	54
12-Feb	1019.1	8.7	7.1	5.5	4.5	96	84	68
13-Feb	1021.8	7.9	7.0	6.1	4.4	94	84	66
14-Feb	1022.4	14	9.5	6.5	2.1	71	60	49
15-Feb	1020.7	13.3	10.8	8.4	6.4	84	74	66
16-Feb	1018.6	15.8	14.3	13.1	11.7	92	85	73
17-Feb	1018	21.7	17.9	15.2	16.5	100	92	78
18-Feb	1016.4	23.3	16.8	10.7	14.7	100	88	68
19-Feb	1021.9	10.9	9.0	7.2	3.1	89	67	54
20-Feb	1024.9	17.2	10.6	5.5	2.3	90	60	24
21-Feb	1024.7	15.2	12.6	8.2	7.0	97	70	50
22-Feb	1023.3	17.8	14.5	12.5	8.2	83	66	47
23-Feb	1023	19.3	16	13.9	10.9	85	72	54
24-Feb	1020.7	19.5	17.1	14.3	12.7	87	75	57
25-Feb	1018.6	20.9	18.6	16.7	15.5	93	83	70
26-Feb	1018	24.6	19.7	17.4	17.5	97	87	66
27-Feb	1019	21.7	18.9	17.7	16.7	96	87	74
28-Feb	1017.2	19	18	17.1	15.3	90	84	79
Mean	1017.9	17.9	14.6	12	10.7	92	78	62
Maximum	1024.9	27.3	19.7	17.7	17.5	100	92	79
Minimum	1010.1	7.4	6.5	5.5	-0.3	71	60	24

**Extract of Meteorological Observations for Sha Tin Automatic Weather Station,
February 2014**

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Feb	0.0	100	3.6
2-Feb	0.0	210	5.4
3-Feb	0.0	230	5.1
4-Feb	0.0	80	8.5
5-Feb	0.0	120	9.3
6-Feb	0.0	360	5.0
7-Feb	0.0	70	4.3
8-Feb	0.5	360	6.9
9-Feb	8.5	350	9.8
10-Feb	1.5	350	9.8
11-Feb	0.0	340	7.8
12-Feb	1.5	350	6.2
13-Feb	12.0	350	9.5
14-Feb	0.0	340	8.4
15-Feb	0.0	350	5.6
16-Feb	0.0	60	9.9
17-Feb	0.0	60	5.8
18-Feb	0.0	340	7.1
19-Feb	5.0	350	10.8
20-Feb	0.0	30	6.3
21-Feb	0.0	90	7.2
22-Feb	0.0	100	10.0
23-Feb	0.0	90	8.6
24-Feb	0.0	90	7.3
25-Feb	0.0	80	5.6
26-Feb	0.0	50	3.4
27-Feb	0.0	100	5.5
28-Feb	0.0	110	8.4
Mean	-----	350	7.2
Total	29.0	---	-----
Maximum	12.0	---	10.8
Minimum	0.0	---	3.4

*** unavailable

missing (less than 24 hourly observations a day)

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

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

Appendix I Impact Daytime Construction Noise Monitoring Results

Location : NM1A (168 Shek Kwu Lung Village G/F- Façade)

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

Date	Measured Noise Level for 30-min, dB(A)				Baseline Noise Level, dB(A)	Corrected Construction Noise Level, dB(A) **	Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq	L10	L90				
5-Feb-14	10:57	65.7	68.2	63.4	64.2	60.4	75	N
11-Feb-14	10:40	60.6	62.3	58.0	64.2	60.6	75	N
17-Feb-14	18:15	64.1	66.5	61.2	64.2	64.1	75	N
28-Feb-14	11:28	66.7	68.4	63.2	64.2	63.1	75	N

Corrected Noise Level dB(A)	
Average	62.3
Max	64.1
Min	60.4

Location : NM2 (38 Ha Wun Yiu G/F - Free Field)

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

Date	Measured Noise Level for 30-min, dB(A)				Baseline Noise Level, dB(A)*	Corrected Construction Noise Level, dB(A) **	Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*				
5-Feb-14	13:06	63.4	65.1	60.8	68.1	63.4	75	N
11-Feb-14	11:30	63.7	64.9	62.5	68.1	63.7	75	N
17-Feb-14	13:45	63.2	65.2	60.6	68.1	63.2	75	N
28-Feb-14	10:48	67.9	69.2	65.1	68.1	67.9	75	N

Corrected Noise Level dB(A)	
Average	65.0
Max	67.9
Min	63.2

* +3dB(A) Façade effect correction included

** Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level

Appendix I Impact Daytime Construction Noise Monitoring Results

Location : NM3 (Wong Shiu Chi Middle School Rooftop - Façade)

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

Date	Measured Noise Level for 30-min, dB(A)				Baseline Noise Level, dB(A)	Corrected Construction Noise Level, dB(A) **	Limit Level, dB(A)#	Exceedance (Y/N)
	Start Time	Leq	L10	L90				
5-Feb-14	10:42	66.2	67.8	64.3	64.8	60.6	65	N
11-Feb-14	13:05	61.2	63.0	60.0	64.8	61.2	65	N
17-Feb-14	15:10	63.9	67.2	61.0	64.8	63.9	65	N
28-Feb-14	9:46	65.7	67.9	63.2	64.8	58.4	70	N

Corrected Noise Level dB(A)	
Average	61.5
Max	63.9
Min	58.4

Location : NM4 (Uptown Plaza Block 4 Rooftop - Façade)

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

Date	Measured Noise Level for 30-min, dB(A)				Baseline Noise Level, dB(A)	Corrected Construction Noise Level, dB(A) **	Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq	L10	L90				
5-Feb-14	9:49	65.7	67.2	63.1	67.4	65.7	75	N
11-Feb-14	13:10	62.3	63.5	60.5	67.4	62.3	75	N
17-Feb-14	13:02	62.0	64.2	58.6	67.4	62.0	75	N
28-Feb-14	10:41	65.6	68.1	62.4	67.4	65.6	75	N

Corrected Noise Level dB(A)	
Average	64.2
Max	65.7
Min	62.0

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

** Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level

Appendix I Impact Daytime Construction Noise Monitoring Results

Location : NM5 (The Paragon Clubhouse Rooftop - Façade)

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

Date	Measured Noise Level for 30-min, dB(A)				Baseline Noise Level, dB(A)	Corrected Construction Noise Level, dB(A) **	Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq	L10	L90				
5-Feb-14	13:11	60.7	62.2	58.1	65.2	60.7	75	N
11-Feb-14	10:15	61.6	62.5	59.0	65.2	61.6	75	N
17-Feb-14	10:55	63.7	65.2	60.0	65.2	63.7	75	N
28-Feb-14	13:16	59.9	63.0	56.8	65.2	59.9	75	N

Corrected Noise Level dB(A)	
Average	61.7
Max	63.7
Min	59.9

Location : NM6 (PLK Tin Ka Ping Primary School near the entrance - Free Field)

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

Date	Measured Noise Level for 30-min, dB(A)				Baseline Noise Level, dB(A)*	Corrected Construction Noise Level, dB(A) **	Limit Level, dB(A)#	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*				
5-Feb-14	11:28	62.7	64.2	60.3	64.5	62.7	70	N
11-Feb-14	11:05	63.1	64.5	62.0	64.5	63.1	70	N
17-Feb-14	11:35	63.1	65.4	59.6	64.5	63.1	70	N
28-Feb-14	11:26	63.1	65.6	61.0	64.5	63.1	70	N

Corrected Noise Level dB(A)	
Average	63.0
Max	63.1
Min	62.7

Remarks

* +3dB(A) Façade effect correction included

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

** Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level

Appendix I Impact Daytime Construction Noise Monitoring Results

Location : NM7 (Riverain Bayside Switch Room Rooftop - Façade)

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

Date	Measured Noise Level for 30-min, dB(A)				Baseline Noise Level, dB(A)	Corrected Construction Noise Level, dB(A) **	Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq	L10	L90				
5-Feb-14	10:09	61.4	63.9	60.2	61.5	61.4	75	N
11-Feb-14	9:50	57.8	59.0	55.5	61.5	57.8	75	N
17-Feb-14	14:30	64.1	67.5	61.0	61.5	60.6	75	N
28-Feb-14	10:06	62.3	65.7	59.6	61.5	54.6	75	N

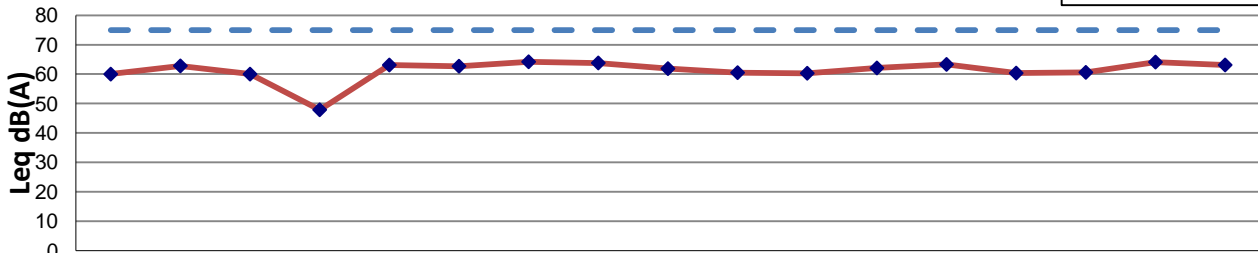
Corrected Noise Level dB(A)	
Average	59.3
Max	61.4
Min	54.6

Remarks

** Construction noise level is only calculated when Measured noise level (Leq) > Baseline noise level.

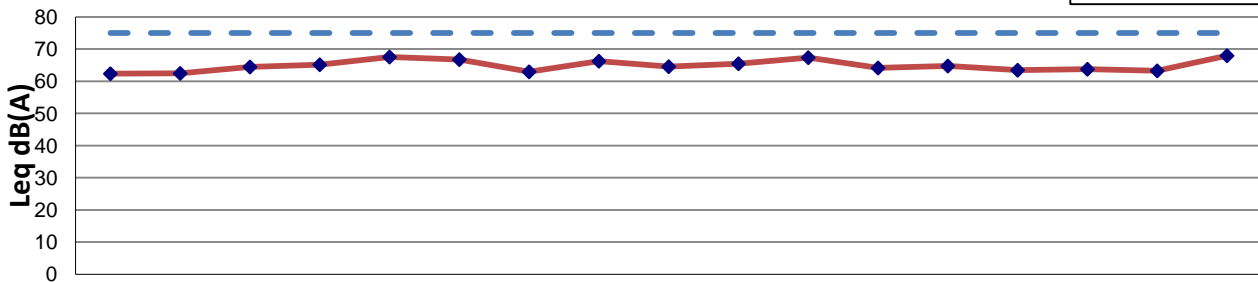
If Measured noise level < Baseline noise level, Corrected noise level = Measured noise level

NM1A



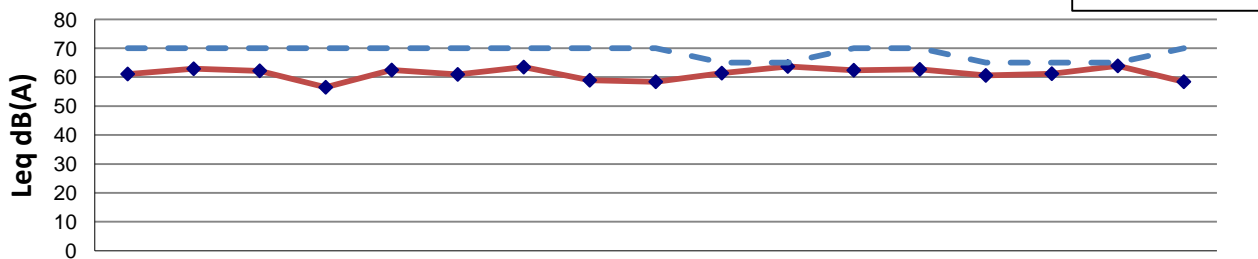
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1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4

NM2




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NM3

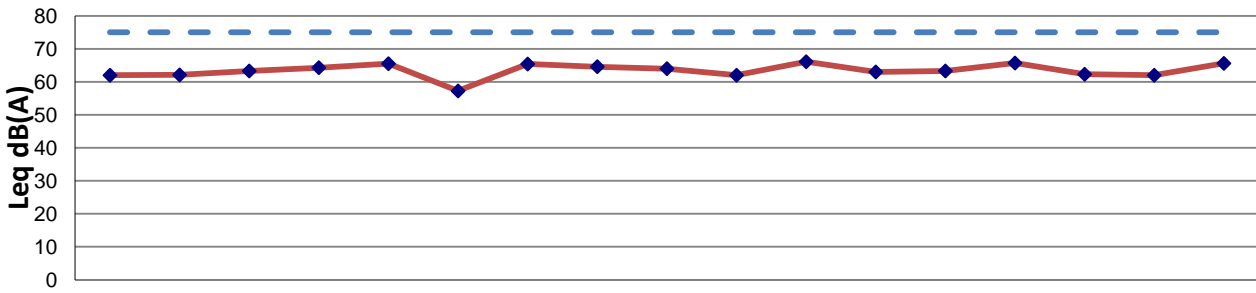


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3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4

Remarks: (1) The monitoring station at Tai Kwong Secondary School (NM1) was relocated to 168 Shek Kwu Lung Village (NM1A) starting from 1 September 2011 due to the mentioned school was closed down;
 (2) Measured noise level would be shown if Measured noise level (Leq) <= Baseline noise level

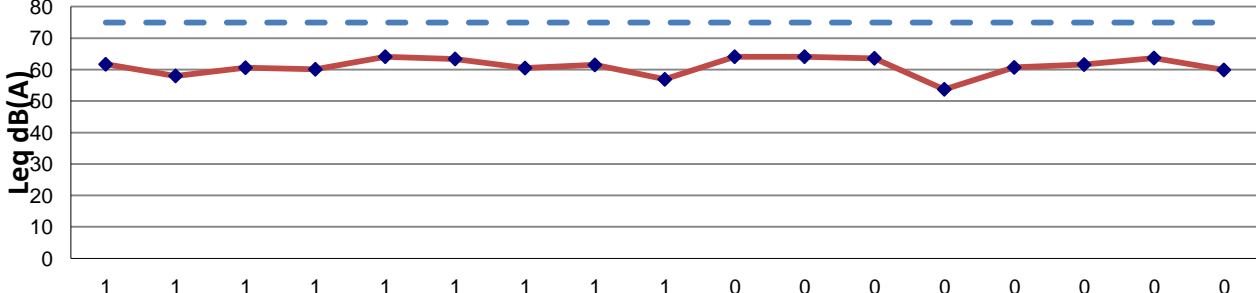
	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-14
		CHECK	ENFL	DRAWN	JCYK
	Graphical Presentation of Impact Daytime Construction Noise Monitoring Results	JOB NO.	60102979	APPENDIX No.	I

NM4



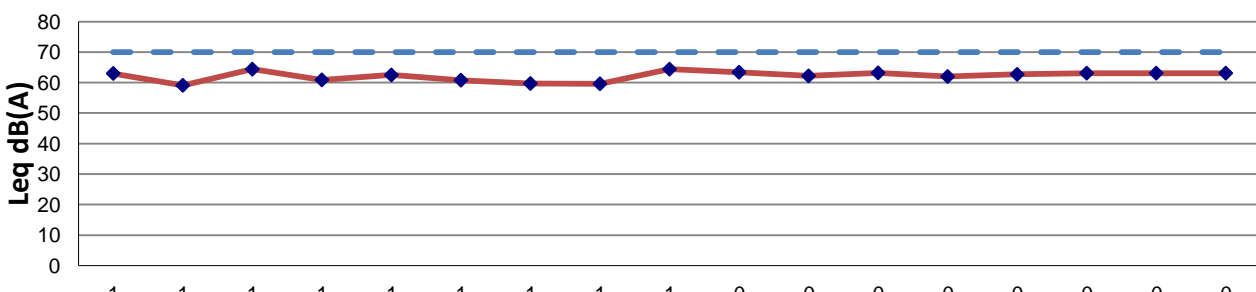
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1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4

NM5




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NM6

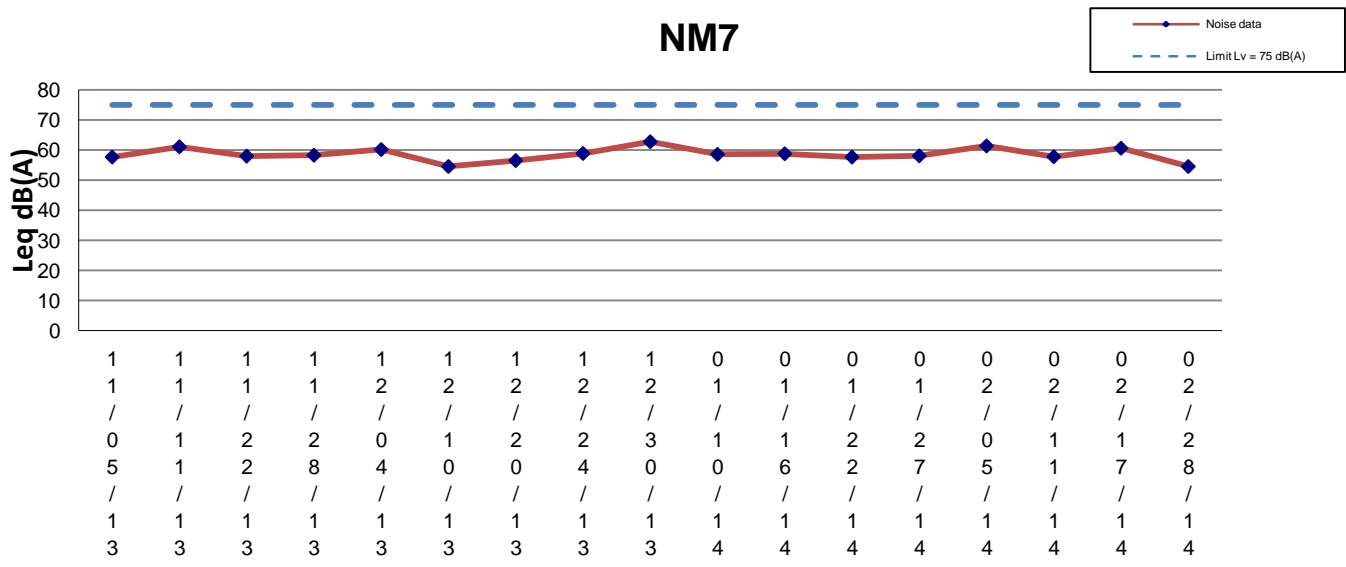


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1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4

Remark: Measured noise level would be shown if Measured noise level (Leq) <= Baseline noise level

	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-14	
		CHECK	ENFL	DRAWN	JCYK	
	Graphical Presentation of Impact Daytime Construction Noise Monitoring Results	JOB NO.	60102979	APPENDIX No.	I	Rev.

NM7



Remark: Measured noise level would be shown if Measured noise level (Leq) <= Baseline noise level

	Environmental Team for the Widening of Tolo Highway between Island House Interchange and Tai Hang - Investigation	SCALE	N.T.S.	DATE	Mar-14
		CHECK	ENFL	DRAWN	JCYK
	Graphical Presentation of Impact Daytime Construction Noise Monitoring Results	JOB NO.	60102979	APPENDIX No.	I
					-

**APPENDIX J
EVENT ACTION PLAN**

Appendix J – Event Action Plan

Event / Action Plan for Air Quality

Event	Action			
	ET Leader	IEC	ER	Contractor
Action Level				
Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method. 	<ol style="list-style-type: none"> 1. Notify Contractor. 	<ol style="list-style-type: none"> 1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC and ER; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency to daily; 5. Discuss with IEC and Contractor on remedial actions required; 6. If exceedance continues, arrange meeting with IEC and ER; 7. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to IEC within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event / Action Plan for Air Quality

Event Action Level	Action			
	ET Leader	IEC	ER	Contractor
Limit Level				
Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source; 2. Inform IEC, ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase frequency to daily; 5. Analyse Contractor's working procedures to determine possible mitigation to be; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly; 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by ER until the exceedance is abated.

Event / Action Plan for Noise Impact

Event Limit Level	Action			
	ET Leader	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to IEC and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review with analysed results submitted by ET. 2. Review the proposed remedial measures by the Contractor and advise ER accordingly. 3. Supervise the implement of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC. 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Notify, IEC, ER, EPD and the Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform IEC, ER, and EPD the causes & actions taken for the exceedances. 7. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 8. If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

**APPENDIX K
SITE INSPECTION SUMMARIES**

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1)
BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION



Site Inspection Summary

Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	05 February 2014
Time:	14:00
Inspection No.:	413

Non-compliance

Nil

Observations

Follow Up Observations

Nil.

New Observations

1. The Contractor was reminded to clear the general refuse under the bridge.

Remarks

Nil

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1)
BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION



Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	6 February 2014
Time:	14:00
Inspection No.:	414

Non-compliance

Nil

Observations

Follow Up Observations

1. The muddy water at the wheel-washing facilities in Shek Kwu Lung was cleared (Closed).
2. The general refuse inside and next to the rubbish bin was cleared (Closed).
3. The breaker was wrapped properly with sound-absorptive materials (Closed).

New Observations

4. The Contractor was reminded to clear the stagnant water inside the waste skip to prevent mosquito breeding.

Remarks

Nil

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1)
BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION



Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	12 February 2014
Time:	09:15
Inspection No.:	415

Non-compliance

Nil

Observations

Follow Up Observations

1. The general refuse under the bridge was cleared (Closed).

New Observations

Nil.

Remarks

Nil

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1)
BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION



Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	13 February 2014
Time:	14:00
Inspection No.:	416

Non-compliance

Nil

Observations

Follow Up Observations

1. Stagnant water inside the waste skip was cleared (Closed).

New Observations

2. Chemical containers were found under Bridge R15a. The Contractor was reminded to provide drip tray or storage the containers properly.

Remarks

Nil

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1)
BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION



Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	20 February 2014
Time:	14:15
Inspection No.:	418

Non-compliance

Nil

Observations

Follow Up Observations

1. Chemical containers are removed (Closed).

New Observations

2. The Contractor was reminded to provide a drip tray to hold the oil drums or remove the oil drums.
3. Oil leakage was observed under the generator. The Contractor was reminded to close the knob of the drip tray and clear the oil stain on the ground. Moreover, the drip tray should be cleared and kept tidy.

Remarks

Nil

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1)
BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION



Inspection Information

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	26 February 2014
Time:	09:15
Inspection No.:	419

Non-compliance

Nil

Observations

<p><u>Follow Up Observations</u></p> <p>Nil.</p> <p><u>New Observations</u></p> <p>1. The Contractor was reminded to fence off retained trees under Bridge 10A for maximum protection.</p>

Remarks

Nil

EM&A Environmental Inspection Record

WIDENING OF TOLO HIGHWAY (STAGE 1)
BETWEEN ISLAND HOUSE INTERCHANGE AND TAI HANG - INVESTIGATION



Inspection Information

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	27 February 2014
Time:	14:15
Inspection No.:	420

Non-compliance

Nil

Observations

Follow Up Observations

1. Oil drums were removed (Closed).
2. Oil stain was cleared and the generator was removed from the construction site (Closed).

New Observations

3. The Contractor was reminded to label chemical containers.

Remarks

Nil

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

Appendix L

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. followed up by ET this month	Total no. followed up by ET since project commencement
Environmental complaints	27 February 2014 (Follow-up)	EPD referred a follow-up complaint from a resident of Ma Wo on 27 February 2014. The complainant said that the Contractor caused serious noise nuisance at non-restricted hours.	Under Investigation	1	37
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0