# **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 September 2013

[10/2013]

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> 17 October 2013 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 September 2013 (Stage 1)

We refer to the captioned Monthly EM&A Report received on 11 and 16 October 2013 submitted by Environmental Team (ET) via email. Pursuant to EP Condition 3.3, I hereby verify the Monthly EM&A Report for September 2013 (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)

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# **EXECUTIVE SUMMARY**

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) 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 December 2013; while construction programme of Stage 2 is currently under review. 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 30 September 2013. 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
- Installation of soil nails
- At-grade road construction
- Widening and demolition of central dividers
- Retaining wall construction
- Noise barrier footing construction
- Noise barrier panels installation
- Asphalt laying
- Installation of Drainage Pipes
- Modification of Edge coping

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

- Condition survey of existing structures
- Initial and record survey
- Survey Setting out works for slopes and 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
- NTHA mitigation works
- Construction of retaining wall and associated mini-piles
- 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 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

No follow-up complaint, new complaint, 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 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.

# 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 December 2013; while construction programme of Stage 2 is currently under review. 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 forty-seventh 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 September 2013.

# 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 Chief Resident Engineer /TOLO1 Veatch Joint Venture)		James Tsang	9038 8797	26674000
ER of Stage 1, Contract 2 (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer /TOLO2	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	Site Agent	Eddie Tang	9863 7686	2667 5666
(China State Construction Engineering (Hong	Environmental Officer	Michael Tsang	9277 4956	2667 5666
Kong) Limited)		M L Lam	9489 4641	2667 5666
	Site Agent	John Chan	3126 1202	2559 3410
Contractor of Stage 1, Contract 2		Thomson Chang	9213 6569	2559 3410
(Gammon Construction Limited)	Environmental Officer	Crispin Ao	9223 8773	2559 3410
		Ao Ho Fo	9220 5848	2559 3410
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
  - Installation of soil nails
  - At-grade road construction
  - Widening and demolition of central dividers
  - Retaining wall construction
  - Noise barrier footing construction
  - Noise barrier panels installation
  - Asphalt laying
  - Installation of Drainage Pipes
  - Modification of Edge coping
- 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
  - Initial and record survey
  - Survey Setting out works for slopes and 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
  - NTHA mitigation works
  - Construction of retaining wall and associated mini-piles
  - 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 ±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 ±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.



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- (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.
- On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m<sup>3</sup>/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m<sup>3</sup>/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 September 2013 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 (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AM1A	78.4	72.4 – 83.2	302.1	500
AM2	78.6	72.9 – 84.0	301.9	500
AM3	79.3	72.6 – 84.8	301.9	500
AM4A	79.1	73.9 – 86.0	302.3	500

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

	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AM1A	46.3	23.9 – 68.1	176.6	260
AM2	24.8	12.2 – 42.7	178.6	260
AM3	27.7	12.8 – 40.7	193.1	260
AM4A	34.0	17.9 – 34.0	198.5	260

- 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 September 2013 from the Tai Mei Tuk Automatic Weather Station were missing, the weather data from Tai Po Automatic Weather Station in September 2013 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
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. $L_{\rm eq},L_{\rm 10}$ and $L_{\rm 90}$ 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 September 2013 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),	Range, dB(A),	Limit Level, dB(A),
	L <sub>eg (30 mins)</sub>	L <sub>eg (30 mins)</sub>	L <sub>eg (30 mins)</sub>
NM1A	61.8	57.7 – 64.1	75
NM2	63.6*	65.9 – 61.9*	75
NM3	62.2	53.3 – 64.3	70#
NM4	63.8	60.4 – 65.8	75
NM5	60.5	56.7 – 62.9	75
NM6	60.2*	56.5 – 62.6*	70#
NM7	58.0	55.6 – 59.9	75

<sup>\*+3</sup>dB(A) Facade correction included

- 3.7.2 There was no noise complaint related to 0700 1900 hours on normal weekdays was received and followed up by 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.



<sup>#</sup> Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

#### 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, 4 site inspections were carried out on 4, 11, 18 and 25 September 2013 for Contract 1 of the Project, and 4 site inspections for Contract 2 of the Project were carried out on 5, 12, 19 and 26 September 2013.
- 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 The Contractor was reminded to remove the stagnant water within the construction site at Bridge 11.

#### Chemical and Waste Management

- 4.1.7 The Contractor was reminded to remove the general refuse at Bridge 11.
- 4.1.8 The Contractor was reminded to remove the construction waste within the construction area at Bridge 10.

## Landscape and Visual Impact

4.1.9 No adverse observation was identified in the reporting month.

#### Miscellaneous

- 4.1.10 No adverse observation was identified in the reporting month.
- 4.1.11 Particular observations and reminder during the site inspections for Contract 2 are described below:

### Air Quality

- 4.1.12 The Contractor was reminded to cover the exposed soil stockpile at Lam Kam Bridge P2.
- 4.1.13 The Contractor was reminded to cover the cement bags with impervious sheet at Link Bridge 1.

#### Noise

4.1.14 No adverse observation was identified in the reporting month.



# Water Quality

4.1.15 The Contractor was reminded to remove the standing water held within the drip tray at Link Bridge 1.

## Chemical and Waste Management

- 4.1.16 The Contractor was reminded to remove the general refuse at NB 30.
- 4.1.17 The Contractor was reminded to remove the oil drum or provide a drip tray for holding the oil drum at NB 30.
- 4.1.18 The Contractor was reminded to provide drip tray for holding the oil cans at Link Bridge 1.

# Landscape and Visual Impact

4.1.19 No adverse observation was identified in the reporting month.

#### Miscellaneous

4.1.20 No adverse observation was identified in the reporting month.

# 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), 0m³ of inert C&D material was disposed as public fill to Tuen Mun 38 (of which 0m³ was broken concrete), while 104m³ of general refuse was disposed at NENT landfill. 96kg of paper/cardboard packaging, 2,424kg of plastics and 0kg of metals were collected by recycling contractor in the reporting month. 2,137m³ and 688m³ of inert C&D materials were reused on site and reused in NENT for backfilling purpose respectively. 0kg of chemical waste was collected by licensed contractor in the reporting period.
- 4.2.3 As advised by the Contract 2 Contractor (GCL), 380m³ of inert C&D material were disposed to Tuen Mun 38 and 290m³ general refuse was disposed to NENT landfill in the reporting period. 240kg of paper/cardboard packaging, 0kg of plastics and 0kg of metals were collected by recycling contractor in the reporting month. No inert C&D material was reused on site or reused in NENT for backfilling purpose. Besides, no chemical waste was collected by 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 I	Period	License/ Permit Remarks Holder	Remarks
Reference	i <del>C</del> illin	i emit No.	From	То	Holder	

Statutory	License/	License or	Valid	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
EIAO	Environmental Permit	EP- 324/2008/A	31/01/2012	N/A	HyD	Tolo Highway/Fanling Highway between Island House Interchange and Ma Wo
	Discharge License (Office)	WT00005096 -2009	03/12/2009	31/12/2014	CSHK	Discharge at Site Office
WDOO	Discharge License (Site)	WT00005445 -2009	15/12/2009	31/12/2014	CSHK	Discharge of Construction Runoff
WPCO	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	5213-727- C3249-46	25/09/2009	N/A	CSHK	Chemical waste produced in Contract HY/2008/09
	Registration	5213-722- G2347-18	18/05/2010	N/A	GCL	Chemical waste produced in Contract HY/2009/08
WDO	Billing Account for Disposal of	7009328	08/09/2009	N/A	CSHK	Waste disposal in Contract HY/2008/09
WBO	Construction Waste	7010320	02/03/2010	02/03/2010 N/A		Waste disposal in Contract HY/2009/08
		GW- RN0226-13	24/04/2013	23/10/2013	CSHK	Construction of W4 - NLKRB South Abutment
			09/07/2013	17/09/2013	CSHK	Erection of Columns of Sign Gantry & Noise Barrier between Shan Tong Road and Ma Wo
NCO	Construction Noise Permit			Modification of Sign Gantry_G13, G14, 15, 16, 17, 65, 66, 67 68 & 70		
NOO	NCO Noise Fermit		27/07/2013	06/10/2013	CSHK	Modification of Sign Gantry_G11, 73, 74, 75 & 76
		GW- RN0417-13	21/07/2013	17/01/2014	CSHK	Construction works at Island House Interchange
		GW- RN0422-13	29/07/2013	31/12/2013	CSHK	Road Paving on Tolo Highway at Island House Interchange

Statutory	License/	License or	Valid I	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
		GW- RN0425-13	29/07/2013	28/09/2013	СЅНК	Installation of Noise Barrier on Tolo Highway at Island House Interchange
		GW- RN0434-13	03/08/2013	23/09/2013	CSHK	Road Marking Alternation at SB of Tolo Highway near King Nga Court
		GW- RN0444-13	06/08/2013	28/09/2013	CSHK	Road Paving on Slip Road from Tolo Highway (Fanling Bound) to Yuen Shin Road
		GW- RN0453-13	11/08/2013	29/09/2013	CSHK	Road Paving & Road Marking Works at Yuen Shin Road near Tolo Highway
		GW- RN0454-13	14/08/2013	06/10/2013	CSHK	Modification of G 12
		GW- RN0468-13	19/08/2013	23/01/2014	CSHK	Routine Road Maintenance
		GW- RN0479-13	21/08/2013	15/11/2013	CSHK	Lifting Operation at W20A
		GW- RN0487-13	21/08/2013	14/09/2013	CSHK	Stitching Works on Bridge 11
		GW- RN0507-13	28/08/2013	31/10/2013	CSHK	Road Pavement at North Bound of Tolo Highway near The Paragon and Ma Wo
		GW- RN0512-13	01/09/2013	31/10/2013	CSHK	Carrying out construction works within MTRC's tracks protection zone
		GW- RN0513-13	07/09/2013	7/09/2013 03/11/2013		Road Marking Alternation near Sign Gantry G14
		GW- RN0524-13	04/09/2013	15/11/2013	CSHK	Sign Gantry at Tolo Highway between Yuen Chau Tsai and Ma Wo
		GW- RN0525-13	16/09/2013	30/11/2013	CSHK	Stitching Works on Bridge 11
		GW- RN0564-13	28/09/2013	22/12/2013	сѕнк	Road Paving Reconstruction on Tolo Highway (Fanling Bound) near Shan Tong Road
		GW- RN0566-13	25/09/2013	30/11/2013	CSHK	Road Paving Reconstruction on

Statutory	License/	License or	Valid I	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
						Slip Road from Tai Po Road-Yuen Chau Tsai
	, i	GW- RN0572-13	07/09/2013	03/12/2013	CSHK	Modification of Sign Gantry_G14, G15, G16, G17, G65, G66, G67 & G68
		GW- RN0194-13	03/04/2013	02/10/2013	GCL	Near Lam Kam Interchange Supersede CNP GW-RN0064-13
		GW- RN0235-13	19/04/2013	16/10/2013	GCL	Tolo Highway Northbound near Buddist Tai Kwong Middle School and Shek Lin Road
		GW- RN0250-13	30/04/2013	26/10/2013	GCL	Tolo Highway Southbound near Parc Versailles
		GW- RN0260-13	08/05/2013	25/10/2013	GCL	Slip Road from Tolo Highway North Bound to Tai Po Tai Wo Road
		GW- RN0284-13	15/05/2013	02/11/2013	GCL	Construction of B15A
		GW- RN0309-13	27/06/2013	26/12/2013	GCL	Tai Po Tai Wo Road Uphill Northbound
		GW- RN0351-13	30/06/2013	08/09/2013	GCL	Tolo Highway near Ma Wo Village
		GW- RN0360-13	03/07/2013	27/09/2013	GCL	Renewal of GW- RN0237-13 Dismantling at Tai Po Tai Wo Road Uphill
		GW- RN0362-13	16/07/2013	29/10/2013	GCL	Renewal of GW- RN0259-13 Dismantling of Overhead Falsework between NLKP8 and NLKP10
		GW- RN0391-13	14/07/2013	16/09/2013	GCL	Lane Shifting at Tolo Highway Northbound for tie-in with NLKRF
		GW- RN0398-13	12/07/2013	26/09/2013	GCL	Steel Portal Dismantle at Tai Po Tai Wo Road Uphill
		GW- RN0405-13	25/07/2013	24/01/2014	GCL	Northbound near CH.18.39 - 19.1 near Shek Link

Statutory	License/	License or	Valid l	Period	License/ Permit	Remarks
Reference	Permit	Permit No.	From	То	Holder	
						Road
		GW- RN0421-13	28/07/2013	23/09/2013	GCL	Near CH.18.7 to 20.01
		GW- RN0435-13	04/08/2013	14/10/2013	GCL	Road Diversion from Dynasty View to Mui Shu Hang Playground
		GW- RN0437-13	04/08/2013	23/09/2013	GCL	Road diversion at Tolo Highway CH18.7 to 19.3
		GW- RN0439-13	01/08/2013	17/10/2013	GCL	Erection of Sign Gantry at Tolo Highway Ch19.6 to 17.1
		GW- RN0445-13	11/08/2013	14/10/2013	GCL	Lane Shifting at Tolo Highway Shatin Bound CH18 - 19.2 and Slip Road of Tai Po Tai Wo Road
		GW- RN0457-13	11/08/2013	14/10/2013	GCL	Tolo Highway South Bound CH19.8 to CH 18.7
		GW- RN0467-13	16/08/2013	31/10/2013	GCL	Dismantling of B18 Pier
		GW- RN0473-13	27/08/2013	11/10/2013	GCL	A section of Fanling Highway and Tai Wo Service Road West near Wai Tau
		GW- RN0484-13	02/09/2013	31/12/2013	GCL	Renewal of GW- RN0091-13 Tolo Highway and Fanling Highway near Tai Po Tai Wo Road, Lam Kam Interchange & Tai Wo Service Road West
		GW- RN0519-13	15/09/2013	09/03/2014	GCL	Renewal of GW- RN0351-13 Tolo Highway near Ma Wo Village
		GW- RN0549-13	17/09/2013	30/11/2013	GCL	Erection and dismantle of Sign Gantry
		GW- RN0551-13	19/09/2013	03/12/2013	GCL	Stitching Construction of B12B
		GW- RN0575-13	27/09/2013	10/12/2013	GCL	Erection of Sign Gantry at Lam Kam Road Flyover CH. 20.2 to 20.3



# 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 There was no complaint followed up by Environmental Team in the reporting period.
- 4.6.3 No new complaint, notification of summons and prosecution was received in the reporting period.
- 4.6.4 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 Months

- 5.1.1 The major construction works for Contract 1 in October 2013 will be:-
  - Temporary shoring, sheetpiling and excavation
  - At-grade road construction
  - Widening and demolition of central dividers
  - Retaining wall construction
  - Noise barrier footing construction
  - Noise barrier panels installation
  - Asphalt laying
  - Installation of drainage pipes
  - Modification of edge coping
- 5.1.2 The major construction works for Contract 2 in October 2013 will be:-
  - Condition survey of existing structures
  - Initial and record survey
  - Survey Setting out works for slopes and 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
  - NTHA mitigation works
  - Construction of retaining wall and associated mini-piles
  - 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 October 2013:-
  - 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 October 2013 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 September 2013. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.1.6 There was no complaint followed up by Environmental Team in the reporting month.
- 6.1.7 No new complaint, 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.

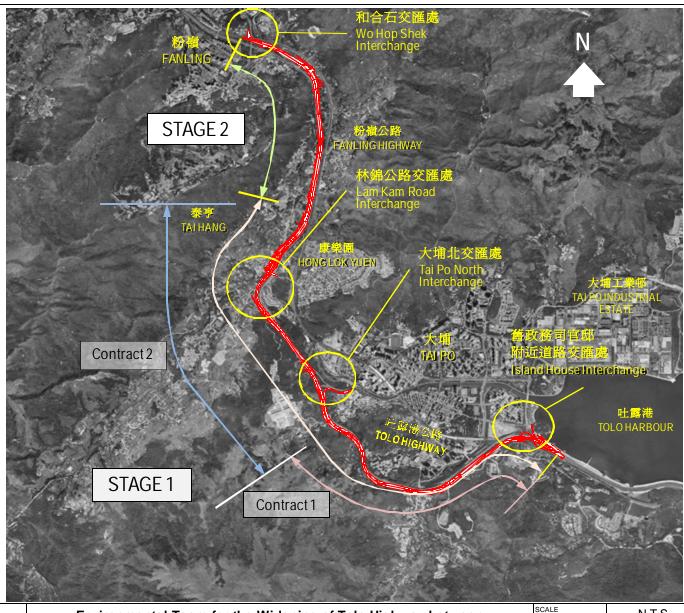
# Chemical and Waste Management

- 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** 



**AECOM** 

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

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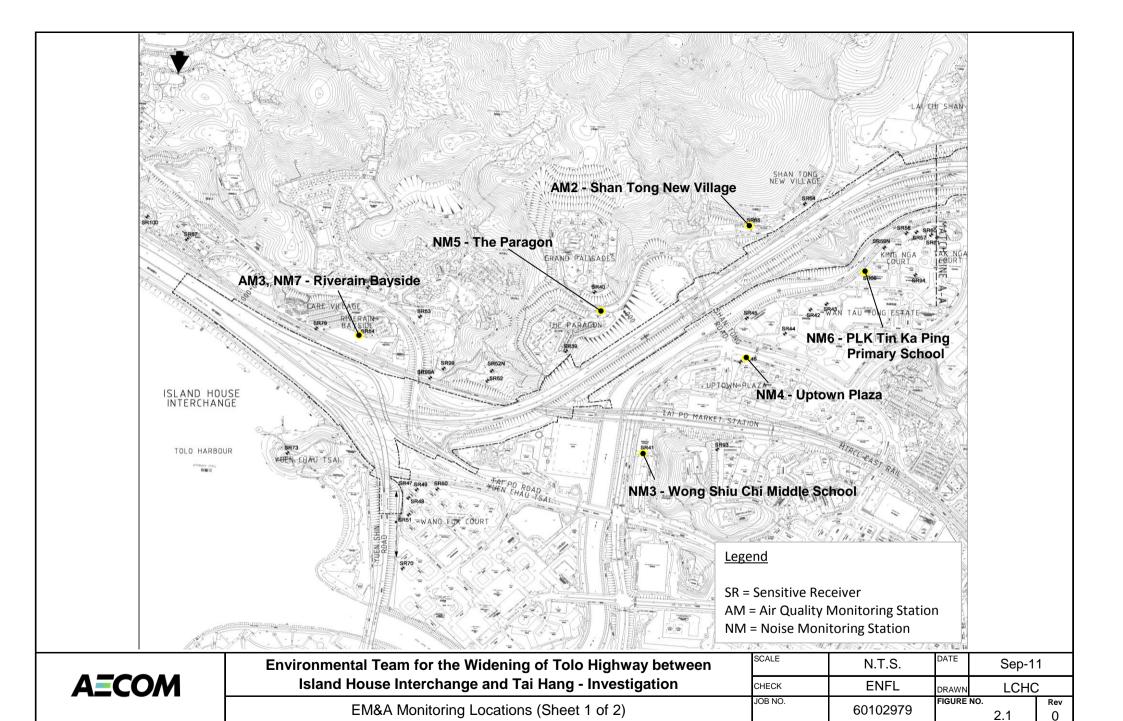
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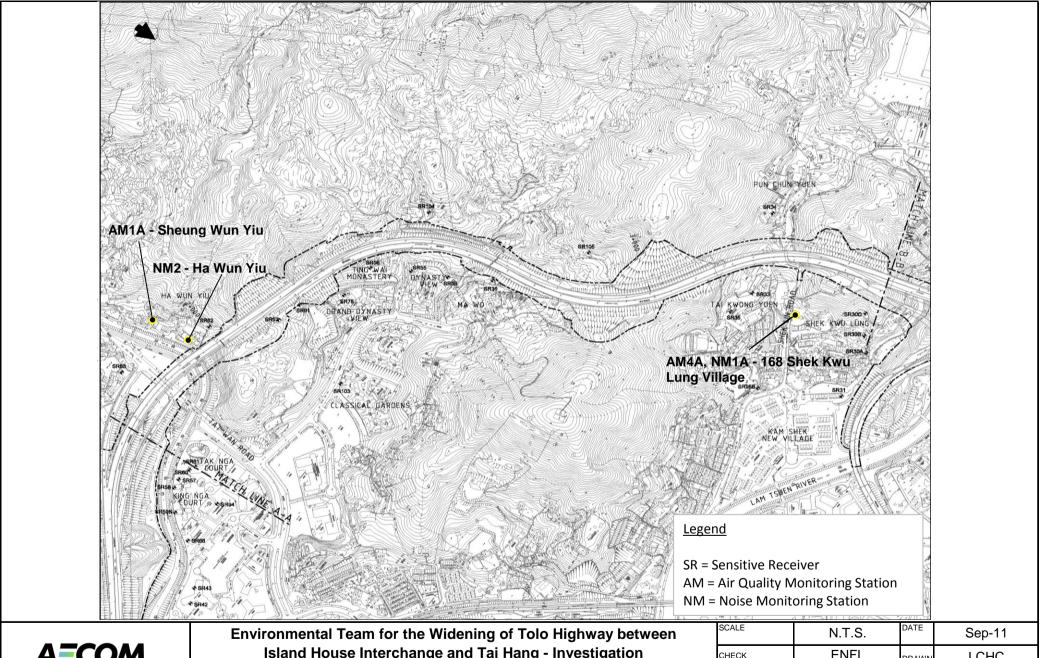
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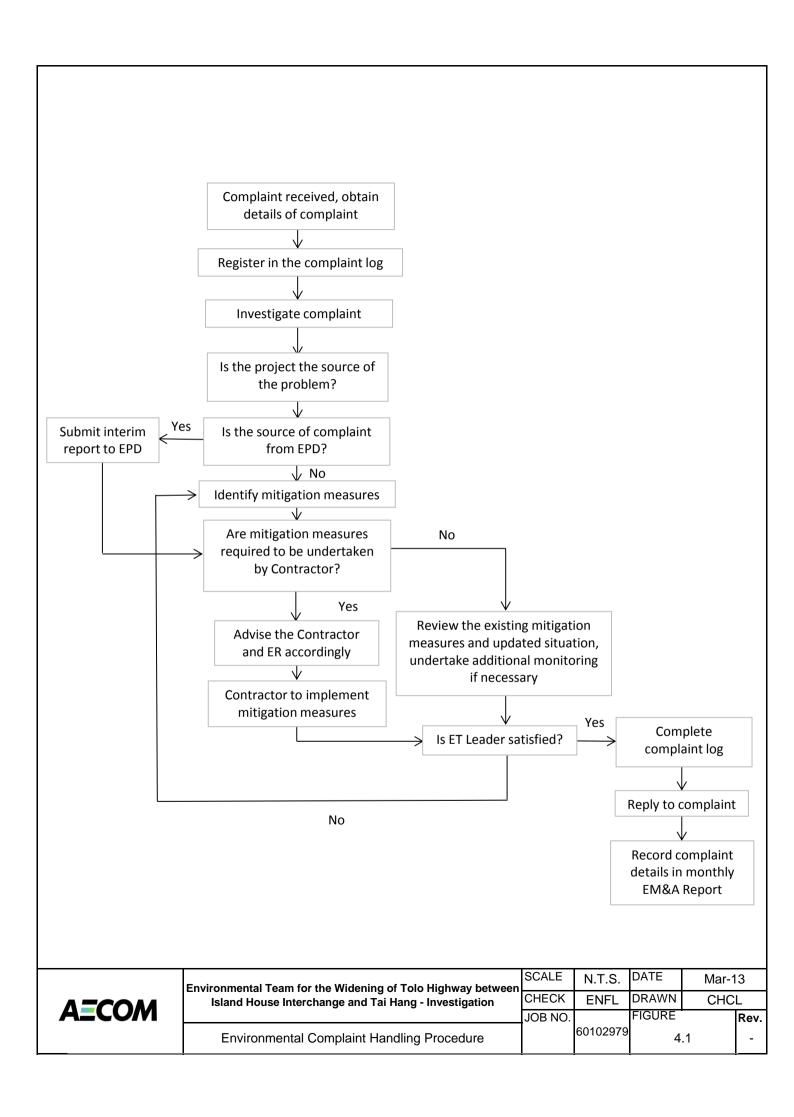
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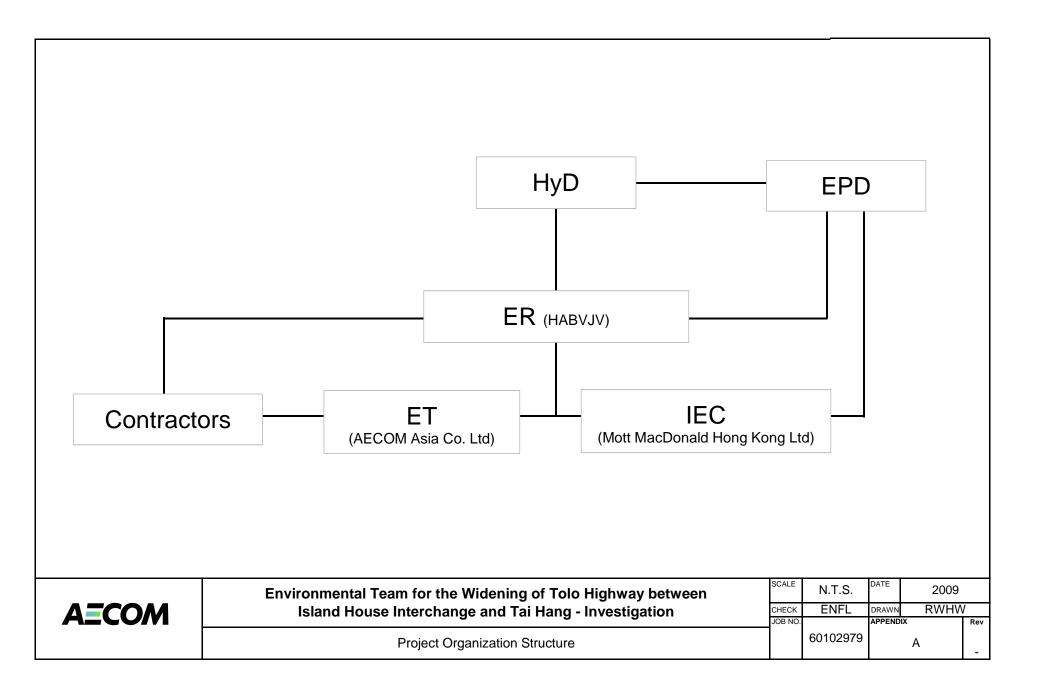


**AECOM** 

Island House Interchange and Tai Hang - Investigation **ENFL** CHECK **LCHC** DRAWN JOB NO. FIGURE NO. Rev 60102979 EM&A Monitoring Locations (Sheet 2 of 2) 2.1 0



# APPENDIX A PROJECT ORGANIZATION STRUCTURE



# APPENDIX B CONSTRUCTION PROGRAMMES

vity ID	Activity Name	Total Activity% Original Start Finish 2013						2014							
		Float	Complete	ete Duration Q3 Q3 Q Q1 Q1 41 42 43 44 45 46					Q3 41 42 43 44				47 48 49		
Y/2009/0	08 TOLO HIGHWAY WIDENING, E	xternal July [20	130726	CRE submission]		!			1	1					
	IVE SUMMARY								1 1 1 1						į
	TV E SSMINARY								1	1 1 1 1					
Design A1330	Alternative Design		100%	292 29-Mar-10 A	14-Jan-11 A				1 1	1 1 1					j I
	•		100 /6	232 23-Wai-10 A	14-3a11-11 A				1 1 1	1 1 1 1					1
Construct										 	- 	¦ 			<u></u>
Section 1			22.244	250 15 0 110 4	07.0				; 1 1 1						ı I
A1000	SA21 - North Bound	-69	93.34%	959 15-Oct-10 A	27-Sep-13				1	SA21 - Nort					1
A1020	SA21 - South Bound	-75	91.4%	814 15-Oct-10 A	03-Oct-13					⇒ SAZI-S	outh Bound	21 - Middle La	no		-
A1020	SA21 - Middle Lane	-120	58.09%	275 08-May-12 A	18-Nov-13		- 1		1 1 1	II II II	SA	  - 	ine		
Section 2			22.224	1010 00 5 1 10 1					 	 		<u> </u>			<u>-</u>
A1030	SA22 - North Bound	-6	90.92%	1016 26-Feb-10 A	26-Oct-13	1			1	1	SA22 - North		0400 0		
A1040	SA22 - South Bound	-73	84.67%	1037 01-Apr-10 A	31-Dec-13	1			1	1 1 1	1	1	SA22 - South	n Bound	į
A1060	SA23 - South Bound	-47	65.75%	388 28-Dec-11 A	05-Dec-13	i			1 1 1	I I I	!	i	outh Bound		
A1090	SA24 - North Bound	-47	83.1%	787 25-Aug-10 A	05-Dec-13				1	1	CAGE C-		orth Bound	!	
A1000	SA25 - South Bound	-41	87.77%	777 20-Oct-10 A	28-Oct-13						SA25 - Sou		SA26 - North	Pound	; ·
A1100	SA26 - North Bound	-73	86.92%	1216 26-Feb-10 A	31-Dec-13		1		1 1	1 1 1	1 1	CAO		!	j I
A1100	SA26 - South Bound	-57	88.22%	1216 26-Feb-10 A	16-Dec-13	- 1	1		1 1 1	II II II	1	SA20	S - South Boun	a	1
Section 3			22.24	1101 00 5 1 10 1	00 B 10				1	1 1 1					
A1110	SA26A - North Bound	-22	86.8%	1191 26-Feb-10 A	30-Dec-13	- :			1	I I I	104004	1	SA26A - Nort	th Bound	;
A1120	SA26A - South Bound	40	89.19%	879 26-Feb-10 A	28-Oct-13				<u></u>		SA26A - So	uth Bound ÷			<u> </u>
A1130	SA26A - North & South Bound	17	99.35%	612 26-Feb-11 A	29-Jul-13			SA26A - Noi	rth & South Bo	und					
A1140	SA27 - South Bound	17	85.71%	826 27-Mar-10 A	20-Nov-13				i i	1	\$ :	A27 - South Bo	buna		
Section 4			25 (2)	1010 00 5 1 10 1					1 1 1	1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
A1150	SA28 - North Bound	-12	85.49%	1216 26-Feb-10 A	18-Jan-14					1	1			8 - North Bo	
A1160	SA28 - South Bound	-7	84.35%	1099 23-Jun-10 A					 	 		·		South Bour	 
A1170	SA29 - North Bound	-7	81.06%	909 26-Jan-11 A	14-Jan-14	1			1 1 1	I I I	1 1	1 1 1	SA29	- North Boul	าต
A1180	SA32 - Roadside FVMS		100%	265 26-Mar-11 A	15-Dec-11 A				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1					
Section 5		,							1	! ! !					
A1190	SA31 - South Bound		100%	884 26-Feb-10 A	28-Mar-13 A				, 	1 1 1					-
Section 7									! ! !	 	 	 	 		<u>.</u>
A1200	SA41 - Site Office	-327	58.07%	1581 26-Feb-10 A	19-May-15	1			1	1 1	1	1		 	
A1210	SA42 - Temporary Contractor's Works Area	0	78.82%	1582 25-Feb-10 A	25-Jun-14				:	1					_
Section 1	17 (Subject to Excision, Engineer may in	struct within 819 (	days)						1 1 1	1 1 1 1	1 1 1				1
A1300	Validity Period	319	97.9%	819 25-Feb-10 A	12-Aug-13	:			y Period	1 					
A1310	SA28 - North Bound	318	47.65%	34 24-May-12 A					North Bound		; ; ;	; ;			; 
A1320	SA30A - North Bound	318	88.52%	155 14-May-12 A	12-Aug-13	1		SA30/	A - North Bou	nd ¦	1				
<b>(EY DAT</b>	TES/ MILESTONES								1	1 1 1 1	1		1		
Portion H	landover Dates								1 1 1	1 1 1 1	1 1 1				į
Section 1	1 (Site Area SA21)								1	1 1 1 1	1				
	(				<u> </u>	!			!	1	1	1	1		
	JPDATE 2013JUL-2 Current Bar		Highway	ys Department - Conti	act No. HY/2009/08		1						UWP Revis		_
ct Name: HY/20 ENING	2009/08 TOLO HIGHWAY Level of Effort			-								Date 26-Jul-13 UWP	Revision July. 2013	Checke	ed A
Date:07-Aug-13	13 Critical			ing of Tolo Highway/									,- =010	1** '	
<b>Date:</b> 26-Jul-13 1 <b>of</b> 45	3 ♦ Milestone		Sta	ge 1 - Between Ma Wo	and Tai Hang										
			Hnda	ated Works Programn	26 July 2012										
			Opuc	aca works i logialilli	io, 20 daiy 2013										

	2									2013						
tivity ID	Activity Name	Total Float	Activity %	Origina		Finish		Q3				Q4			2014 Q1	
Bulletone		rioat	Complete	Duration			41	42	43	44	45	46	47	48	49	5
PHSA2100	Possession of SA21 (Day365)		100%	(	16-Jul-10 A						 					
	(Site Area SA26A and SA 27)		10001		100 5 1 10 1					1 1 1	1 1 1			1 1 1	1 1 1	1
PHSA26A0	Possession of SA26A (Day0)		100%		26-Feb-10 A				1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1	
PHSA2700	Possession of SA27 (Day 90)		100%	C	26-Mar-10 A											
	(Site Area SA22, SA23, SA24, SA25 and SA26)									1 1 1	1 1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1
PHSA2200	Possession of SA22 (Day0)		100%		26-Feb-10 A											
PHSA2300	Possession of SA23 (Day180)		100%		04-May-10 A											
PHSA2400	Possession of SA24 (Day180)		100%		04-May-10 A						 			1	1 1	1
PHSA2500	Possession of SA25 (Day270)		100%		0 04-May-10 A				1	1 1 1	1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	-
PHSA2600	Possession of SA26 (Day0)		100%	C	26-Feb-10 A											
	(Site Area SA28, SA29 and SA32)											-		ļ 		
PHSA2800	Possession of SA28 (Day0)		100%		26-Feb-10 A					1 1 1	1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1
PHSA2900	Possession of SA29 (Day270)		100%		27-Jul-10 A						1			1	1	
PHSA3200	Possession of SA32 (Day365)		100%	C	25-Feb-11 A											
	(Site Area SA31)							1		1	1 1 1			1	i 1 1	1
PHSA3100	Possession of SA31 (Day0)		100%	С	26-Feb-10 A						ļ			ļ 		
	(All Works Except Works Included in Other Sections	<b>s</b> )									 				1	
PHSA4100	Possession of SA41 (Day0)		100%	C	26-Feb-10 A				1	 	1 1 1		1	1	i 1 1	
PHSA4200	Possession of SA42 (Day0)		100%	C	26-Feb-10 A					1 1 1	1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1
PHSA4300	Possession of SA43 (Day90)		100%	C	04-May-10 A											
Section 8	(Estiblishment Works in Site Area SA21)													<u>.</u>		
PHSA2110	Possession of SA21 (Day1217)	-29	0%	C	26-Jul-13			1	Possession o	of SA21 (Day1	217)	1		1	 	1
Section 9	(Estiblishment Works in Site Area SA22, SA23, SA24	4, SA	25 and SA	<b>A26</b> )												
PHSA2210	Possession of SA22 (Day1217)	-29	0%	C	26-Jul-13			i 1 1	ossession c	of SA22 (Day1	217)			1	1	
PHSA2310	Possession of SA23 (Day1217)	-29	0%	C	26-Jul-13			1 1 1	ossession o	of SA23 (Day1	217)			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1
PHSA2420	Possession of SA24 (Day1217)	-29	0%	C	26-Jul-13				ossession o	of SA24 (Day1	217)			1	1	
PHSA2510	Possession of SA25 (Day1217)	-29	0%	C	26-Jul-13				Possession o	of SA25 (Day1	217)			1	1	
PHSA2610	Possession of SA26 (Day1217)	-29	0%	C	26-Jul-13				Possession o	of SA26 (Day1)	217)		1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	
Section 10	0 (Estiblishment Works in Site Area SA26A and SA27	7)									1			1	1	
PHSA26A1	Possession of SA26A (Day1217)	-29	0%	C	26-Jul-13				ossession c	of SA26A (Day	1217)				1	
PHSA2710	Possession of SA27 (Day1217)	-29	0%	C	26-Jul-13				ossession o	of SA27 (Day1	217)	1	 	1 1 1 1	1 1 1	1
Section 1	1 (Estiblishment Works in Site Area SA28 and SA29)										1			1	1	
PHSA2810	Possession of SA28 (Day1217)	-29	0%	C	26-Jul-13				ossession o	of SA28 (Day1	217)					
PHSA2910	Possession of SA29 (Day1217)	-29	0%	C	26-Jul-13				Possession o	of SA29 (Day1	217)			1	1	
Section 12	2 (Estiblishment Works in Site Area SA30 and SA30A	4)						1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1 1 1	1
PHSA3000	Possession of SA30 (Day1217)	-29	0%	C	26-Jul-13				ossession o	of SA30 (Day1	217)					
PHSA30A0	Possession of SA30A (Day1217)	-29	0%	C	26-Jul-13				Possession o	of SA30A (Day	1217)			-i		
Section 13	3 (Remainder of Estiblishment Works)							1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1 1 1	
PHSA3110	Possession of SA31 (Day1217)	-26	0%	C	26-Jul-13*				ossession c	of SA31 (Day1	217)			1	1	
PHSA3220	Possession of SA32 (Day1217)	-26	0%	C	26-Jul-13*				Possession o		1				1	
PHSA4120	Possession of SA41 (Day1217)	-26	0%	C	26-Jul-13*			1	ossession o	of SA41 (Day1	217)	1		1	1	1
PHSA4220	Possession of SA42 (Day1217)	-26	0%	C	26-Jul-13*				Possession o	of SA42 (Day1	217)	- <u>1</u>	- <del> </del>		- L	
PHSA4330	Possession of SA43 (Day1217)	-26	0%	C	26-Jul-13*				ossession c	of SA43 (Day1	217)		1	1		1

Section 14 Comprises Routine Maintenance of Road Network in Site Area SA21 to SA31)

100%

100%

0 16-Jul-10 A

0 26-Feb-10 A

Possession of SA21 for Routine Maintenance (Day365)

Possession of SA22 for Routine Maintenance (Day0)

PHSA2130

PHSA2230

Activity ID	Activity Name	Total	Activity %	Original Start	Finish					2013					2014	
		Float	Complete	Duration		44	40		Q3		AE	Q4	47	40	Q1	
PHSA2330	Possession of SA23 for Routine Maintenance (Day180)		100%	0 04-May-10 A		41	42		43	44	45	46	47	48	49	50
PHSA2430	Possession of SA24 for Routine Maintenance (Day180)		100%	0 04-May-10 A												
PHSA2530	Possession of SA25 for Routine Maintenance (Day270)		100%	0 04-May-10 A												
PHSA2630	Possession of SA26 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A												
PHSA26A3	Possession of SA26A for Routine Maintenance (Day0)		100%	0 26-Feb-10 A			1								 	
PHSA2730	Possession of SA27 for Routine Maintenance (Day90)		100%	0 26-Mar-10 A								<del> </del> <del> </del> -				
PHSA2830	Possession of SA28 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A			1			! ! !						
PHSA2930	Possession of SA29 for Routine Maintenance (Day270)		100%	0 27-Jul-10 A												
PHSA3060	Possession of SA30 for Routine Maintenance (Day0)		100%	0 26-Feb-10 A						! !						
PHSA30A4	Possession of SA30A for Routine Maintenance (Day180)		100%	0 27-Jul-10 A			1			1 1 1 1	i !				i i i	
PHSA3130	Possession of SA31 for Routine Maintenance		100%	0 26-Feb-10 A						<del>-</del>		<del> </del> <del> </del> -				
Section 17	7 (Subject to Excision and Instruct by Engineer with	in 819	9 davs)													
PHSA3030	Earliest Date to Possession of SA30		100%	0 26-Feb-10 A						 						
PHSA30A3	Earliest Date to Possession of SA30A		100%	0 27-Jul-10 A			1	-		1 					1 1 1	!
Key Dates	(include EOT GCL submitted and awarded upto Ma	r 2013					1									
HDS01000	KD1: Completion of Section 1 - (Day1216)	-120	0%	0	18-Nov-13*					 		♦ KD1:	Completic	n¦of Section	1 - (Dav1216	3) :
HDS02000	KD2: Completion of Section 2 - (Day1216)	-72	0%	0	31-Dec-13*							•	•	1	1 1	Section 2 - (Da
HDS03000	KD3: Completion of Section 3 - (Day1216)	-22	0%	0	30-Dec-13*		1			 				-	• ;	ection 3 - (Day
HDS04000	KD4: Completion of Section 4 - (Day1216) - Overall Completion of Works	-12	0%	0	18-Jan-14*	<b>-</b>	1			 				i	: i	tion of Section
HDS04100	KD4: Completion of Section 4 - (Day1216) - Substantial Completion for Ro		0%	0	31-Dec-13*		1									Section 4 - (Da
HDS05000	KD5: Completion of Section 5 - (Day884)		100%	0	28-Mar-13 A	ion 5 - (Day88	4)									
HDS07000	KD7: Completion of Section 7 - (Day1581)	0	0%	0	25-Jun-14*		.,			 						
HDS08000	KD8: Completion of Section 8 - (Day1581)	0	0%	0	25-Jun-14*	- !	1			! ! !	!				1 1 1	
HDS09000	KD9: Completion of Section 9 - (Day1581)	0	0%	0	25-Jun-14*					 					1	
HDS10000	KD10: Completion of Section 10 - (Day1581)	0	0%	0	25-Jun-14*		1									
HDS11000	KD11: Completion of Section 11 - (Day1581)	0	0%	0	25-Jun-14*											
HDS12000	KD12: Completion of Section 12 - (Day1581)	0	0%	0	25-Jun-14*		1			1 1 1 1	i !				i i i	
HDS13000	KD13: Completion of Section 13 - (Day1581)	0	0%	0	25-Jun-14*		1			 					 	
HDS14000	KD14: Completion of Section 14 - (Day1581)	0	0%	0	25-Jun-14*		1								1	
HDS17000	KD17: Latest Date to Compl of Section 17 - (Day397) Subject to Excision	-27	0%	0	12-Aug-13*				♦ KD17:	Latest Date t	o Compl of Se	ction 17 - (Day	/397) Subje	ect to Excision	n ¦	
	SUBMISSION				- U					i 	;					
Alternative										! ! !					1	
Ground In	vestigation & Reporting									! !						
AD000010	Ground Investigation for Alternative Design		100%	54 22-Mar-10 A	29-May-10 A		!			 					1 1 1	
AD000020	Report of Ground Investigation		100%	56 12-Apr-10 A	18-Jun-10 A					 	 				 	
Package A	AD1: W56B															
AD000110	AD1 - Design Period		100%	80 29-Mar-10 A	08-Jul-10 A		: : :			:   						
AD000120	AD1 - Full Package to ICE for Certification		100%	20 09-Jul-10 A	31-Jul-10 A	1 1	1			 				1	1	
AD000130	AD1 - Approval by ER/CLIENT/CEDD (GEO)		100%	101 09-Jul-10 A	06-Nov-10 A					 						
Package A	AD2: W57B															
AD000210	AD2 - Design Period		100%	72 14-Apr-10 A	10-Jul-10 A			1-:		<del></del>	;	; <del> </del> -				
AD000220	AD2 - Full Package to ICE for Certification		100%	44 12-Jul-10 A	31-Aug-10 A		1			1 1 1						
AD000230	AD2 - Approval by ER/CLIENT/CEDD (GEO)		100%	172 26-Nov-10 A	26-Apr-11 A		1			 				1	1	1 1 1
Package A	AD3: W69									! ! !						
AD000310	AD3 - Design Period		100%	75 03-May-10 A	31-Jul-10 A											1
AD000320	AD3 - Full Package to ICE for Certification		100%	57 02-Aug-10 A	08-Oct-10 A		- i	1								
						i	i	1 :		i	<u>i                                      </u>	<u> </u>		i	<u>i</u>	i

	4																
ctivity ID	Activity Name	Total Float	Activity % Complete	Origina Duration		Finish				Q3	2013		Q4			2014 Q1	
AD000330	AD3 - Approval by ER/CLIENT/CEDD (GEO)		100%	100	0 02-Aug-10 A	29-Nov-10 A	41	42	<del>     </del>	43	44	45	46	47	48	49	50
	AD4: W38										1	i ! !				1	
AD000410	AD4 - Design Period		100%	78	3 09-Jun-10 A	09-Sep-10 A										1	
AD000420	AD4 - Full Package to ICE for Certification		100%		3 10-Sep-10 A	09-Nov-10 A					 	1 1 1	1		1	1 1 1	
AD000430	AD4 - Approval by ER/CLIENT/CEDD (GEO)		100%		1 11-Nov-10 A	15-Jan-11 A									1	 	
	AD5 (Noise Barrier Foundation): NB38, NB39, NB41	& NB														 	
AD000510	AD5 - Design Period		100%	98	3 21-Jul-10 A	22-Oct-10 A		1			1	; ; ;			1	1 1 1 1	
AD000520	AD5 - Full Package to ICE for Certification		100%		23-Oct-10 A	22-Dec-10 A										1 1 1	
AD000530	AD5 - Approval by ER/CLIENT/CEDD (GEO)		100%		1 18-Oct-10 A	14-Jan-11 A	-									1	
MATERIA	ALS PROCUREMENT													- <del> </del>	i		·
		on)									1		1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	erials (Detail shall refer to supplementary informations	OH)														1	
Water Wo	Place Order		1000/		31-Aug-10 A											1	
			100%			04 Av. 10 A		1			1	i 1 1			1	1 1 1	
MA001030	Fabrication, Manufacturing & Delivery		100%	900	31-Aug-10 A	31-Aug-12 A							1		1		
	Parapet SSD161															1	
MA001050	Place Order		100%		26-May-11 A											 	
MA001060	Fabrication, Manufacturing & Delivery		100%	350	26-May-11 A	24-Aug-12 A					1	i 1 1	1			1 1 1 1	
Bearing					,								1			1 1 1	1
MA001070	Place Order		100%		31-Jul-10 A												
MA001080	Fabrication, Manufacturing & Delivery		100%	630	31-Jul-10 A	05-Aug-12 A		1			1	; ; ;			1	1 1 1	
Movemen	t Joint											 	1		1	1 1 1	
MA001090	Place Order		100%	(	31-Aug-10 A							1				1	
MA001100	Fabrication, Manufacturing & Delivery		100%	620	31-Aug-10 A	31-Aug-12 A										1	
CONSTR	UCTION PHASE										i 	i i i	i ! !			1 1 1 1 1	
Preliminar	ies & General Requirement								1::				1			· <u>  </u>	
Prelimina											1	1 1 1				1 1 1	1
	Submissions											1	1		1	1	
PR000000	Commencement of Works		100%	(	26-Feb-10 A												
PR001000	Site Establishment		100%	90	26-Feb-10 A	25-May-10 A	1					i i i			1	1 1 1 1	
PR001010	Effect required Insurances		100%	(	26-Feb-10 A								1				
PR001030	Erect Contractor's Office Compound		100%	69	26-Feb-10 A	04-May-10 A											
PR001040	Submit SIte Organization Chart		100%	14	1 26-Feb-10 A	10-Mar-10 A										1 1 1 1	
PR001050	Submit Site Layout Plan		100%	-	7 26-Feb-10 A	03-Mar-10 A						 	1		1	1 1 1	1
PR001060	Prepare/Submit Initial Works Programme		100%	-	7 26-Feb-10 A	03-Mar-10 A						1				1	
PR001070	Approval on Initial Works Programme		100%	30	04-Mar-10 A	02-Apr-10 A	1-1										
PR001080	Prepare/Submit Detailed Works Programme		100%	58	3 03-Apr-10 A	30-May-10 A											
PR001090	Prepare/Submit First 3-month Programme		100%	14	1 26-Feb-10 A	10-Mar-10 A					 	1 1 1	1		1	1 1 1	
PR001100	Submit initial 12-month Pgr for Rou. Maint. Work		100%	14	26-Feb-10 A	10-Mar-10 A						1				1	
PR001110	Submit Rolling 3month Routine Maint. Program		100%	14	26-Feb-10 A	10-Mar-10 A											
PR001170	Prepare/Submit Subcon Management Plan (SMP)		100%	30	26-Feb-10 A	26-Mar-10 A							- <del>-</del>	- <del></del>	1		1
PR001200	Submit Interface Management Plan		100%	60	26-Feb-10 A	25-Apr-10 A					1 1 1	1 1 1	1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	
PR001242	Application of Expressway Permit		100%	-	7 26-Feb-10 A	03-Mar-10 A					1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PR001244	Approval of Expressway Permit		100%	2	04-Mar-10 A	24-Mar-10 A										1 1 1	
PR001246	Issurance of Excavation Permit form Hyd		100%	-	7 26-Feb-10 A	03-Mar-10 A					1	; !			1	1 1 1 1	1
	<u> </u>						<b></b>								7	·	

100%

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30-May-10 A

PR001256

**Technical Submission** 

Complete All General Submission

Activity ID	Activity Name	Total A	Activity %	Original	Start	Finish					2013					2014	
			Complete	Duration				41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
PR001250	Submit Draft Traffic Management Contingency		100%	45	26-Feb-10 A	10-Apr-10 A		**	74	70		70	10			70	
PR001260	Submit Sch of Const Seq/TTA in Prin Agreement		100%	14	26-Feb-10 A	10-Mar-10 A			1						! ! !		l
PR001270	Submit TIA/TTA to ER, TD, HKPF etc for Approval		100%	60	26-Feb-10 A	25-Apr-10 A			1 1 1	1			1 1 1 1	i i i	1 1 1 1		l
PR001280	Prepare/Submit Sch of Util Arrangement		100%	60	26-Feb-10 A	25-Apr-10 A			J				†	1	/   	L	
PR001290	Prepare/Submit Conc Mix Design and Trial Test		100%	70	26-Feb-10 A	05-May-10 A			1					! !	! ! !		
PR001300	Perform Slope / Topographic Survey		100%	95	26-Feb-10 A	30-May-10 A			1						, 1 1 1		
PR001310	Perform Natural Terrain Survey		100%	200	01-Jan-11 A	19-Jul-11 A			! ! !	1				! ! !	1 1 1 1		
PR001320	Perform Tree Survey		100%	125	26-Feb-10 A	29-Jun-10 A			1 1 1	1				1	1 1 1		
PR001330	Perform Existing Structural Survey		100%	95	26-Feb-10 A	30-May-10 A			1					 	/		
PR001340	Install Geotechnical Instrumentation		100%	90	26-Feb-10 A	25-May-10 A			1 1 1	1			1	1	 		
PR001350	Design for Temporary Noise Barrier		100%	120	26-Feb-10 A	24-Jun-10 A			1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1	1 1 1 1		
PR001360	Approval for Temporary Noise Barrier		100%	30	26-Jun-10 A	24-Jul-10 A			1	1				1	1 1 1		
PR001370	Design for Irrigation System		100%	150	26-Feb-10 A	24-Jul-10 A									! !		
PR001380	Approval for Irrigation System		100%	24	26-Feb-11 A	21-Mar-11 A			1 1 1					 	 	 	
PR001385	Detail review of the natural terrain hazard assessment by GEO		100%	90	26-Oct-11 A	23-Jan-12 A	1		1 1 1	 				! ! !	1 1 1 1		
PR001390	Design for Permanent Debris Catch Fence		100%	90	26-Oct-11 A	23-Jan-12 A			1					1	1 1 1		
PR001400	Approval for Debris Catch Fence System Design		100%	30	24-Jan-12 A	22-Feb-12 A									! ! !		
PR001410	Temporary Works Design		100%	200	26-Feb-10 A	12-Sep-10 A									! !		
PR001420	Complete All Technical Submission		100%	0		22-Feb-12 A			1 1 1					 	 	 	
Specialist	Consultants								1 1 1					1 1 1 1	1 1 1 1		ı
PR001220	Nominate/Submit Horticulturist for Approval		100%	45	26-Feb-10 A	10-Apr-10 A									! ! !		l
PR001230	Nominate/Submit IIC (Highway Structures)		100%	45	26-Feb-10 A	10-Apr-10 A			1						! !		
PR001240	Nominate/Submit Traffic Consultant for Approval		100%	7	26-Feb-10 A	03-Mar-10 A			! ! !				1	! ! ! !	! ! !	 	
PR001440	Complete Engagement of Specialist Consultants		100%	0		10-Apr-10 A			1					1	1		
QSHE Sub	bmission								1					! !	1 1 1 1		
PR001120	Prepare/Submit Quality Plan		100%	28	26-Feb-10 A	24-Mar-10 A			1 1 1	1			1 1 1 1	i i i	1 1 1 1		
PR001130	Prepare/Submit Draft Health & Safety Plan		100%		26-Feb-10 A	10-Mar-10 A			1 1 1	1				1 1 1	1 1 1 1		
PR001140	Prepare/Submit Final Health & Safety Plan		100%		26-Feb-10 A	31-Mar-10 A								 	! ! !		
PR001150	Prepare/Submit Draft Env Management Plan		100%		26-Feb-10 A	17-Mar-10 A			1 1 1	1			i ! !	! !			
PR001160	Prepare/Submit Final Env Management Plan		100%		26-Feb-10 A	10-Apr-10 A			1 1 1	1				1 1 1	1 1 1 1		
PR001180	Submit Site Management Plan for Trip Ticket Sys		100%		26-Feb-10 A	10-Apr-10 A			1					1	 		
PR001430	Complete All QSHE Submission		100%	0		10-Apr-10 A			1					! !	1 1 1 1		
Variation C									! ! !	1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1		
VO000010	VO. 1: Revised layout of Piles, NLKP5		100%		17-Jun-10 A										1 1 1		
VO000020	VO. 2: Fencing Detaills Along Site Boundaries of SA29		100%		20-Aug-10 A				: : :						! !		
VO000030	VO. 3: Existing Bridge 12 Pilecap Concrete Testing (P5/6/8)		100%		17-Sep-10 A				1 1 1	1			1	1 1 1	1 1 1 1		ļ
VO000040	VO. 4: Revised Setting Out Plan of Slip Road W in SA28 & SA31		100%		15-Sep-10 A				1 1 1	1 1 1			1	1 1 1	1 1 1 1		
VO000050	VO. 5: Revised Setting Out Plan of Slip Road W in Site Area SA30		100%		15-Sep-10 A									! ! !	; ; ; ;		
VO000060	VO. 6: Bridge 15A Pilecap Sleeving Details		100%		19-Oct-10 A				1 1 1	1				: ! !	1 1 1		ļ
VO000070	VO. 7: Modification of Noise Barrier Footing for NB42 & NB44		100%		14-Dec-10 A		_  :		1	1 1 1				1 1 1	1 1 1 1		ļ
VO000080	VO. 8: Revised Layout of Southen Trunk Sewer		100%		15-Dec-10 A				1 1 1	1 1 1			1	1 1 1 1	1 1 1 1		ļ
VO000090	VO. 9: Relocation and Deletion of Access Door at Noise Barrier		100%		04-Jan-11 A				1					1	1 1 1 1		
VO000100	VO. 10: Fencing details along Site Boundaries of Section subject to Excision		100%		04-Jan-11 A				! !	 			1	! ! !	; ; ; ;		
VO000110	VO. 11: Fencing details along Site Boundaries of Section subject to Excision		100%		04-Jan-11 A				1 1 1	! ! !				: ! !	1 1 1		
VO000120	VO. 12: Fencing for Former Lot 1308 S.B in D.D.6		100%		12-Jan-11 A		_		1 1 1	1 1 1				1 1 1	1 1 1 1		
VO000130	VO. 13: Relocation of Existing HKCG HP600mm Gasmains at Slip Road T		100%		12-Aug-11 A				1 1 1	1 1 1			1	1 1 1 1	1 1 1 1		ļ
VO000140	VO. 14: Revised Layout of Police Observation Platform at CH3700		100%	0	27-Jan-11 A				1 1 1	1	1 I		1	1 1 1	1 1 1		
																	<u> </u>

Activity ID	Activity Name	Total	Activity %	Original	I   Start	Finish				2013					2014	
		Float	Complete	Duration		1	1 41	42	Q3 43	144	45	Q4	47	40	Q1	50
VO000150	VO. 15: Revised Layout of Slope S28		100%	C	01-Feb-11 A		41	42	43	44	45	46	47	48	49	50
VO000160	VO. 16: Additional Packaging Requirement for Mulch Delivered to LCSD		100%	C	25-Jan-11 A							-	- <del> </del>			- <del> </del>
VO000170	VO. 17: Revised Bridge 12B and Temp Reinstatement at Existing Bridge 12		100%	C	30-Apr-11 A											
VO000180	VO. 18: Delivered 5 cubic meters of Mulch to EPD		100%	C	15-Feb-11 A					1	1					1
VO000190	VO. 19: Protection for Existing HKCG HP 600mm Gasmain at Slip Rd T		100%	C	07-Mar-11 A				1	1 1 1	 		1		1 1 1	1 1 1
VO000200	VO. 20: Revised Fire Mains alignment Plan		100%	O	31-Mar-11 A					1	1					1
VO000210	VO. 21: Reinforced Earth Walls at Bridge 18A Abutment		100%	C	07-Sep-11 A		1-:									
VO000220	VO. 22: Revised Layout of Proposed Lighting and Meter Box at Ma Wo Su		100%	O	15-Apr-11 A		1			1						
VO000230	VO. 23: Provision of Drainage at Noise Barriers 41 & 42		100%	C	20-Apr-11 A				1	1	1 1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1
VO000250	VO. 25: Construction of Cross Road Ducts and Traffic Signal Drawpits		100%	C	27-Apr-11 A					1 1 1	1		1			1
VO000260	VO. 26: Permanent Diversion of Existing DN80 WSD Watermain at MA Wo		100%	C	03-May-11 A									1	1	1
VO000270	VO. 27: Temp. Access and Lighting for Inspection on Bridge 13 Deck Interior		100%	C	16-May-11 A		1::		1			- <del></del>	;	i		.;
VO000280	VO. 28: Provision of Hoarding at Site Boundary of SA22 and SA25		100%	C	11-May-11 A						 		1		 	1
VO000300	VO. 30: Removal of dead trees under LKB		100%	C	05-Jul-11 A				1 1	1 1 1	1 1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1
VO000310	VO. 31: Fencing for Former Lot 1308S.B. in D.D.6		100%	C	27-Jul-11 A					!						
VO000330	VO. 33: Drainage Details at W48		100%	C	03-Aug-11 A		1				1				1	1
VO000350	VO. 35: Revised Southern Trunk Sewer Manholes Schedule		100%	C	14-Oct-11 A		1::		1				T			- r
VO000360	VO. 36: Slip Road R road drainage details		100%	C	17-Oct-11 A				1	1 1 1	 				 	1 1 1
VO000370	VO. 37: Bridge 12A, 13A, LB1, 2, 3 - Pilecaps Sleeving Details		100%	C	18-Nov-11 A					1 1 1	1		1		 	1
VO000380	VO. 38: Bridge 18A -Reforced earth walls at West Abutment & associated		100%	C	03-Dec-11 A											
VO000390	VO. 39: Bridge 12A - Revised Foundation for North Abutment		100%	C	03-Dec-11 A											
VO000400	VO. 40: New Lam Kam Road Flyover - Revised drainage arrangement for		100%	O	30-Nov-11 A								 		   	1
VO000410	VO. 41: 450mm Diameter U-channel flap valve behind noise barrier NB42		100%	C	01-Dec-11 A					1	1		1			1
VO000430	VO. 43: 450mm Diameter U-channel flap valve behind noise barrier NB42		100%	C	12-Jan-12 A											
VO000440	VO. 44: Bridge 15A - Revised drainage arrangement for bridge deck		100%	C	12-Jan-12 A					1						
VO000450	VO. 45: Details of drainage arrangement at Tai Po Tai Wo Road Link Bridg		100%	C	31-Jan-12 A				1	1 1 1	1 1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1
VO000460	VO. 46: Modification of noise barrier footing for NB44		100%	C	13-Feb-12 A					1			!			
VO000520	VO. 52: Construction of cross road ducts & traffic signal drawpits at propos		100%	C	10-Apr-12 A					1			1	1	 	1
VO000530	VO. 53: Bridge 18A - Concrete Plinths for PCCW cables ducts		100%	C	20-Apr-12 A											
VO000550	VO. 55: Provision of drainage at retaining wall W71 and Bridge B18A		100%	C	18-Apr-12 A					; ; ;	 		1		 	1
VO000590	VO. 59: Relocation of Existing WSD pumping station (PS106) gate at Hong		100%	C	23-Apr-12 A				1 1 1	 	 				 	1 1 1
VO000620	VO. 62: Revised Metal Cover Details for Bridge Deck Soffit Access		100%	C	29-May-12 A					1			1		!	1
VO000650	VO. 65:Details of additional Vehicular Access Gate for Lot 412 at Tai Wo S		100%	C	09-Jul-12 A											
VO000660	VO. 66: Revised Foundation Details of Noise Barriers NB36		100%	C	19-Jul-12 A					; ; ;	1				i ! !	1
VO000690	VO. 69: Revised Lighting Layout at Ma Wo Subway TP9		100%	0	01-Aug-12 A					 	 				 	1 1 1
VO000700	VO. 70: Provision of Digital callipers		100%	O	10-Aug-12 A								1		 	1
VO000710	VO. 71: Details of Typical Section for Slip Road R Verge at AUE Wall		100%	C	20-Aug-12 A											
VO000720	VO. 72: New Lam Kam Road Flyover - revised North and South Ramps Re		100%	C	06-Sep-12 A					:	1		1	1	; 1 1	1 1 1
VO000730	VO. 73: Revised Sign Gantry Details of G23A, G24, G25, G26, G27, G28,		100%	C	11-Sep-12 A		G101			 	1 1 1		1 1 1	1 1 1	1 1 1	1 1 1
VO000740	VO. 74: Bridge 12A South Abutment - Slope Reinstatement Works		100%		18-Sep-12 A										 	1
VO000750	VO. 75: Modification of Existing Air Valve Chamber at Slip Road W		100%	C	14-Sep-12 A							<u> </u>	<u> </u>	<u> </u>		
VO000760	VO. 76: Conduct Resistograph and Tomography Assessment to the Interna		100%		19-Sep-12 A		at LKR Interd	charge								1
VO000770	VO. 77: Provision of Cable Duct for Power Supply in Site Area SA28 and S		100%		17-Oct-12 A					 	1 1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1 1 1
VO000780	VO. 78: Bridge 18A Revised CLP Concrete Cable Trough Details		100%		22-Oct-12 A					 	1 1 1		1	1	1 1 1	1 1 1
VO000790	VO. 79: Bridge 18A East Abutment - Reinforced Concrete Wall (Bay3)		100%	C	14-Nov-12 A										1	1
VO000800	VO. 80: Removal and Storage of Remaining Parts of Existing Speed Came		100%	C	03-Dec-12 A				n <mark>d W</mark> 10 at SB							1
VO000810	VO. 81: Details of Maintenance Access of Noise Barrier NB41 and NB42 al		100%	C	04-Jan-13 A		and NB42 al	ong Tai Wo	Service Road	l West			1			1
VO000820	VO. 82: Irrigation System Along the Vehicular Access to Wai Tau Tsuen		100%	C	04-Feb-13 A		coess to Wai	Tau Tsuen		<u> </u>	i !		i 1 1	1	; ; ;	i 1 1

Activity ID	Activity Name	Total	Activity %	Original Start	Finish	2013 2014
		Float	Complete	Duration		Q3 Q4 Q1 Q1 41 42 43 44 45 46 47 48 49 50
VO000830	VO. 83: Stormwater Drainage System MN18.1 to MN18.11 in Front of Reta		100%	0 08-Feb-13 A		to MN18.11 in Front of Retaining Wall W56B
VO000840	VO. 84: Removal and Storage of Remaining Parts of Existing Speed Enfor		100%	0 08-Feb-13 A		Parts of Existing Speed Enforcement Camera No. TO06 at Tolo Highway Southbound
VO000860	VO. 86: Provision of Verge Tubular Railing Adjacent to Retaining Wall W67		100%	0 12-Apr-13 A		of Verge Tubular Railing Adjacent to Retaining Wall W67
VO000870	VO. 87: Existing Retaining Wall at Tai Po Tai Wo Road - Modification Works		100%	0 19-Apr-13 A		g Retaining Wall at Tai Po Tai Wo Road - Modification Works
VO000880	VO. 88: Additional Hospital Sign Plate for Existing Directional Signs DSX01		100%	0 10-May-13 A		88; Additional Hospital Sign Plate for Existing Directional Signs DSX01A and DSX05B
VO000890	VO. 89: Change of Material of Southern Trunk Sewer Pipes between manh		100%	0 10-May-13 A		9; Change of Material of Southern Trunk Sewer Pipes between manhole
VO000900	VO. 90: Revised Southern Trunk Sewer Details		100%	0 10-May-13 A		0: Revised Southern Trunk Sewer Details
VO000910	VO. 91: Nosing Details at South Abutment of Bridge 13A - Modification Wo		100%	0 02-Jul-13 A		♦ VO. 91: Nosing Details at South Abutment of Bridge 13A - Modification Works
VO000920	VO. 92: Revised Noise Barrier Footing fro NB30 Bay 1		100%	0 14-Jun-13 A		♦ VO. 92: Revised Noise Barrier Footing fro NB30 Bay 1
VO000930	VO. 93: Irrigation System for the Shrub Planting Area Adjacent to Fanling		100%	0 13-Jun-13 A		♦ VO. 93: Irrigation System for the Shrub Planting Area Adjacent to Fanling Highway
VO000940	VO. 94: Irrigation System for the Shrub Planting Area Adjacent to Lam Ka		100%	0 11-Jun-13 A		♦ VO. 94: Irrigation System for the Shrub Planting Area Adjacent to Lam Kam Road Interchange with connection to Firemai
VO000950	VO. 95: Revised Sign Gantry G101 Details		100%	0 07-Jun-13 A		♦ VO. 95: Revised Sign Gantry G101 Details
VO000970	VO. 97: Provision of Stormwater Drainage System for the Wai Tau Tsuen		100%	0 13-Jun-13 A		♦ VO. 97: Provision of Stormwater Drainage System for the Wai Tau Tsuen Access Rao of Behind W74
VO000980	VO. 98: Revised Sign Gantry G101 Sign Face DS T8(B) Details		100%	0 11-Jun-13 A		♦ VO. 98; Revised Sign Gantry G101 Sign Face DS T8(B) Details
VO000990	VO. 99: Revised Sign Gantry G59 Details		100%	0 11-Jun-13 A		♦ VO. 99: Revised \$ign Gantry G59 Details
VO001000	VO. 100: Revised Sign Gantry G58 Details		100%	0 11-Jun-13 A		♦ VO. 100: Revised Sign Gantry G58 Details
VO001010	VO. 101: Existing Bridges 12&13 - Revised Detail of the Strengthening Bea		100%	0 02-Jul-13 A		♦ VO. 101 Existing Bridges 12&13 - Revised Detail of the Strengthening Beam of the Stitching Slab
VO001030	VO. 103: Parapet Wall PW1 - Revised Drainage and Miscellaneous Details		100%	0 03-Jul-13 A		♦ VO. 103: Parapet Wall PW1 - Revised Drainage and Miscellaneous Details
VO001040	VO. 104: Revised Alignment and Layout of Noise Barrier NB38		100%	0 26-Jun-13 A		♦ VO. 104: Revised Alignment and Layout of Noise Barrier NB38
VO001050	VO. 105: Additional Precast Concrete Cover for Catchpit No. CP1.1		100%	0 02-Jul-13 A		♦ VO. 105 Additional Precast Concrete Cover for Catchpit No. CP1.1
VO001060	VO. 106: Revised Details fo Retaining Wall No. W71 and Slope S43 at CH		100%	0 02-Jul-13 A		♦ VO. 106 Revised Details fo Retaining Wall No. W71 and Slope \$43 at CH0.00 to CH4.00
VO001070	VO. 107: Revised Alignment of U-Channel at Interface of Retaining Wall W		100%	0 02-Jul-13 A		♦ VO. 107 Revised Alignment of U-Channel at Interface of Retaining Wall W66 and Slope S38
VO001080	VO. 108: Revision for Proposed Cut Slope S31A		100%	0 11-Jul-13 A		♦ VO. 108: Revision for Proposed Cut Slope S31A
VO001090	VO. 109: Revision for Proposed Cut Slope S45		100%	0 19-Jul-13 A		♦ VO: 109: Revision for Proposed Cut Slope S45
Milestones	of Temporary Traffic Arrangement					
TTA000	TTA Stage 0 - Divert the traffic to new Slip Road J & K		100%	0 07-Oct-12 A		
TTA010	TTA Stage 1 - divert the traffic to new bridge 18a		100%	0 23-Jun-13 A		♦ TTA Stage 1 - divert the traffic to new bridge 18a
TTA050	TTA Stage 5 - Full enclorsure of Tai Wo Road (CH3350 - CH3540)		100%	0 27-Sep-12 A		
TTA060	TTA Stage 6 - Open the new Northbound but reserve one lane & close the		100%	0 25-Feb-12 A		
TTA070	TTA Stage 7 - Close the existing southbound and temporary divert the traffi		100%	0 25-Feb-12 A		
TTA090	TTA Stage 9 - NLK Open the new Northbound but reserve one lane & clos	-11	0%	0 03-Aug-13		♦ TTA Stage 9 - NLK Open the new Northbound but reserve one lane & close the existing Northbou
TTA110	TTA Stage 11 - Open the new LB2 and link up the LB1 & LB3	39	0%	0 31-Aug-13		♦ TTA Stage 11 - Open the new LB2 and link up the LB1 & LB3
TTA310	TTA Stage 5A-1 Diversion the traffic to B13A and B15A		100%	0 23-Jun-13 A		♦ TTA Stage 5A-1 Diversion the traffic to B13A and B15A
TTA320	TTA Stage 4B-1 Diversion the traffic to (CH2600 - CH3000) N/B		100%	0 05-May-13 A		age 4B-1 Diversion the traffic to (CH2600 - CH3000) N/B
TTA330	TTA Shift Lane for C1/C2 interface Final Stage (N/B)	-38	0%	0 04-Sep-13		♦ TTA Shift Lane for C1/C2 interface Final Stage (N/B)
TTA340	TTA Shift Lane for C1/C2 interface Final Stage (S/B)	-58	0%	0 28-Sep-13		♦ TTA Shift Lane for C1/C2 interface Final Stage (S/B)
TTA350	TTA Shift Lane for C2/C3 interface at TWSRW Road (Transition)	117	0%	0 16-Aug-13		♦ TTA Shift Lane for C2/C3 interface at TWSRW Road (Transition)
TTA360	TTA Shift Lane for C2/C3 interface (N/B)	85	0%	0 24-Sep-13		♦ TTA Shift Lane for C2/C3 interface (N/B)
TTA370	TTA Shift Lane for C2/C3 interface (S/B)	6	0%	0 30-Dec-13		♦ TTA Shift Lane for C2/C3 inter
Section 1		1	,	·	'	
Site Area	SA21					
PHSA2120	Possession of SA21 (Day141)		100%	0 16-Jul-10 A		
SA210000	Site Area SA21 Works Period	244	91.43%	1076   16-Jul-10 A	26-Oct-13	Site Area SA21 Works Period
SA210010	Site Area SA21 Works Completion	244	0%	0	26-Oct-13	♦ Site Area SA21 Works Completion
SA210020	Temporary Traffic Management (Detail shall refer to supplementary inform	197	91.26%	872 16-Jul-10 A	26-Oct-13	Temporary Traffic Management (Detail shall refer to suppler
SA210030	Overall Utilities Diversion (Detail shall refer to supplementary information)	197	91.26%	872 16-Jul-10 A	26-Oct-13	Overall Utilities Diversion (Detail shall refer to supplementar
North Bou						

Activity ID	Activity Name	Total	Activity %	Original Start	Finish					2013						2014	
		Float	Complete	Duration		41	42		Q3 43	44	45		Q4 16 4	47	48	Q1 49	50
Prelimina	ries					41	42		-10	74	40	4			70	73	30
S21N0000	Site Clearance/Access Rd & acquisition of Sub-con		100%	63 15-Oct-10 A	30-Dec-10 A			1				· <del> </del>					
Slopewor	ks			<u> </u>						1 1 1	1 1 1					1 1 1	
S21N5000	Slopeworks Fill(S21)	-50	0%	10 07-Aug-13	19-Aug-13				SI SI	opeworks Fil	l(\$21)					 	
S21N5010	U-Channel and Berm	-35	0%	10 19-Aug-13	30-Aug-13					U-Channe	el and Berm					1	
S21N5100	Slopeworks Cut (S22)	-35	88.42%	266 17-Feb-11 A	30-Aug-13			1:		Slopewor	s Cut (S22)	)					
S21N5110	Slopeworks Cut (S22) - Stage 1 (Upper +59mPD)		100%	72 17-Feb-11 A	20-May-11 A			1				· <del>;</del>	<del> </del> :	j		; 	
S21N5120	Slopeworks Cut (S22) - Stage 2 (Middle +57mPD)		100%	72 26-Oct-11 A	20-Jan-12 A		1			! ! !	 			1		i 	
S21N5130	Slopeworks Cut (S22) - Stage 3 (Lower +55mPD)	-50	85%	72 28-May-12 A	07-Aug-13	-	1	-	Slopew	orks Cut (S2	2) - Stage 3	(Lower +5	55mPD)			 	
S21N5140	U-Channel and Berm	-35	0%	20 07-Aug-13	30-Aug-13					■ U-Channe	el and Berm					!	
S21N5210	Slopeworks Fill(S24)	-58	75%	55 14-Jan-13 A	10-Aug-13		<u> </u>		Slope	works Fill(S2	4)						
Extensior	of Culverts	<u> </u>	<u> </u>	,				1-1					· <del> </del> ·	i			
S21N1000	Extension of Box Culvert (N581)		100%	148 08-Nov-10 A	21-Mar-11 A		-				 			-		 	
S21N1010	Temporary Water Diversion		100%	23 08-Nov-10 A	11-Dec-10 A						1 1 1					 	
S21N1020	Construction of Base Slab		100%	75 13-Dec-10 A	02-Mar-11 A												
S21N1030	Construction of Wall Stem		100%	50 13-Dec-10 A	21-Mar-11 A					1						: ! !	
S21N1040	Construction of Top Slab		100%	45 19-Jan-11 A	21-Mar-11 A												
S21N1050	Extension of Box Culvert (TP9), Upstream (CSD 3) (incl. VO.22)		100%	0 26-Mar-11 A	31-Dec-11 A		-				 			-		 	
S21N1060	Temporary Water Diversion		100%	16 26-Mar-11 A	15-Apr-11 A						1 1 1					 	
S21N1070	Construction of Base Slab		100%	75 30-Mar-11 A	05-Jul-11 A												
S21N1080	Construction of Wall Stem		100%	72 01-Jul-11 A	31-Dec-11 A									į		; ! !	
S21N1090	Construction of Top Slab		100%	0 01-Dec-11 A	31-Dec-11 A											 	
\$21N1060 \$21N1070 \$21N1080 \$21N1090 <b>Construct</b> <b>Retaining</b> \$21N2000 \$21N2010 \$21N2020	tion of Retaining Wall				'						1					1	
Retaining	Wall W35															!	
S21N2000	She et Pile/Excavate & Construct W35		100%	53 26-Mar-11 A	02-Jun-11 A												
S21N2010	Opencut excavation		100%	18 26-Mar-11 A	16-Apr-11 A		1			1	1			1		 	
S21N2020	Construction of W35 Structure		100%	30 26-May-11 A	18-Jun-11 A		!										
	Backfilling		100%	14 26-Jul-11 A	10-Aug-11 A						1					1	
Retaining	Wall W36	,		,	<u>'</u>												
S21N2100	She et Pile/Excavate & Construct W36		100%	85 11-Aug-11 A	23-Apr-12 A												
S21N2110	Opencut excavation		100%	12 11-Aug-11 A	24-Aug-11 A		1			 	1 1 1			1		i 	
S21N2120	Construction of W36 Structure		100%	50 19-Sep-11 A	23-Apr-12 A												
S21N2130	Backfilling		100%	0 06-Feb-12 A	18-Feb-12 A											!	
S21N2140	Backfilling behind W36 and drainage works	-39	50%	70 04-Mar-13 A	04-Sep-13		1			Backfill	ng behind V	V36 and di	rainage work	s			
Retaining	Wall W38 (AD4)						1			1	1					 	
S21N2210	Pre-drilling		100%	24 26-Feb-11 A	25-Mar-11 A						 			-		 	
S21N2220	Prepare Piling Platform for W38		100%	30 26-Feb-11 A	01-Apr-11 A											1	!
S21N2225	COD: Mobilization of 1 no. rig from W56B to W38 for piling work		100%	60 14-Mar-11 A	27-Jun-11 A											!	
S21N2230	Pile for W38 (2 rig)		100%	141 26-Mar-11 A	22-Jun-11 A												
S21N2231	Installation of Piles - Stage 1 (CH2470-2545)		100%	69 26-Mar-11 A	22-Jun-11 A		1			!	 	-		:		1 1 1	
S21N2232	Installation of Piles - Stage 2 (Remain)		100%	72 12-Apr-11 A	22-Jun-11 A						 						
S21N2240	Retaining Wall & Drainage W38		100%	230 27-Jun-11 A	24-Dec-12 A												
S21N2242	Excavation to +54.5mPD		100%	60 27-Jun-11 A	05-Sep-11 A					1				!			
S21N2244	Excavation to formation		100%	60 26-Sep-11 A	06-Dec-11 A												
S21N2250	Construction of Base & Wall - Stage 1 (CH2470 - 2520)		100%	75 07-Dec-11 A	31-Jan-12 A					 	1 1 1	1				1 1 1	!
\$21N2030  Retaining \$21N2100 \$21N2110 \$21N2120 \$21N2130 \$21N2130 \$21N2210 \$21N2220 \$21N2220 \$21N2225 \$21N2231 \$21N2232 \$21N2232 \$21N2234 \$21N2244 \$21N2252 \$21N2252 \$21N2252	Backfilling to road formation - Stage 1 (CH2470 - 2520)		100%	50 21-Jan-12 A	18-Feb-12 A	1				1 1 1	 					1 1 1	1 1 1
S21N2254	Construction of Base & Wall - Stage 2 (Ch2520 - 2600)		100%	75 20-Feb-12 A	29-Sep-12 A							!					
S21N2256	Backfilling to formation level - Stage 2 (CH2520 - 2600)		100%	30 01-Oct-12 A	24-Dec-12 A					1	1			-		!	

Activity ID	Activity Name	Total	Activity %	Original Start	Finish				2013				2014	
7 <b>,</b>	,	Float	Complete	Duration		41	42	Q3 43	44 45	Q4 46	47	48	Q1 49	50
S21N2	266 Backfilling behind W38 and drainage works	-39	50%	70 04-Mar-13 A	04-Sep-13	41	42	40	Backfilling behind W			40	43	30
Retain	ng Wall W39 (CDS 3)						1	!		1				
S21N2	302 Clearing & Prepare Piling Platform & Pre-drilling for W39		100%	10 27-Jun-11 A	09-Jul-11 A			; ; ;					; 1 1	
S21N2	Piling Works		100%	36 03-Oct-11 A	14-Nov-11 A								 	!
S21N2	She et Pile/ Excavate & Construct W39		100%	75 20-Aug-12 A	01-Dec-12 A		 	1 1 1		1 1 1				
S21N2	Opencut Excavation		100%	7 20-Aug-12 A	03-Sep-12 A		! !	1		1				
S21N2	308 Construction of W39 Structure		100%	50 04-Sep-12 A	21-Nov-12 A									
S21N2	Backfilling		100%	12 26-Nov-12 A	01-Dec-12 A								/ 	
S21N2	Backfilling behind W39 and drainage works	-39	50%	70 04-Mar-13 A	04-Sep-13				Backfilling behind W	39 and drainag	je works		i !	
Retain	ng Wall W40 (CSD 3)						1	1		1			1	
S21N2	312 Clearing & Prepare Piling Platform & Pre-drilling for W40		100%	12 03-Oct-11 A	17-Oct-11 A		1	1		1			1	
S21N2	Excavation for W40		100%	12 20-Aug-12 A	06-Sep-12 A									
S21N2	316 Construct W40		100%	40 07-Sep-12 A	13-Oct-12 A			; ; ;					/ 1 1	
S21N2	Backfilling		100%	11 20-Dec-12 A	29-Dec-12 A						- <del> </del>		 	!
S21N2	Backfilling behind W40 and drainage works	-39	50%	70 04-Mar-13 A	04-Sep-13	-	'	-	Backfilling behind W	40 and drainag	je works			
Retain	ng Wall W41A							1		1				
S21N2	400 Sheet Pile/Excavate & Construct W41A		100%	72 26-Sep-11 A	25-Nov-11 A			: : :					1	
S21N2	410 Opencut Excavation		100%	7 26-Sep-11 A	04-Oct-11 A									
\$21N2  Retain \$21N2	Construction of W41A Structure		100%	47 05-Oct-11 A	31-Oct-11 A								i i	
S21N2	430 Backfilling		100%	18 01-Nov-11 A	25-Nov-11 A		! ! !	 						
Retain	ng Wall W41B						 	1 1 1		1 1 1				
S21N2	She et Pile/Excavate & Construct W41B		100%	71 26-Sep-11 A	25-Nov-11 A		1	1		1			1	
S21N2	Opencut Excavation		100%	7 26-Sep-11 A	04-Oct-11 A									
S21N2	Construction of W41B Structure		100%	47 05-Oct-11 A	31-Oct-11 A						-			
S21N2	Backfilling		100%	17 01-Nov-11 A	25-Nov-11 A		 	1					) 	
Retain	ng Wall W45-48/A						 	1 1 1		 			 	
S21N2	500 She et Pile/Excavate & Construct W45-48/A		100%	174 01-Mar-11 A	11-Jan-13 A		! ! !	1 1 1					i I I	!
	Opencut Excavation (W45, W46 & W47)		100%	36 12-Oct-11 A	23-Nov-11 A		1	!					1	
S21N2	Opencut Excavation (W48, W48A)		100%	18 01-Mar-11 A	31-Mar-11 A						-		<u> </u>	
S21N2	Construction of RW Structure (W47)		100%	75 01-Mar-12 A	25-Aug-12 A			i !					; 1 1	
S21N2	540 Construction of RW Structure (W48)		100%	45 13-Apr-12 A	19-Nov-12 A		! ! !	1 1 1		1			 	1
S21N2	Construction of RW Structure (W48A)		100%	60 01-Apr-11 A	06-May-11 A		! ! !	 						
S21N2	Backfilling W47, W48 & W48A		100%	40 28-Aug-12 A	11-Jan-13 A		1	1					1	
S21N2	-		100%	75 26-Jan-12 A	04-Jun-12 A									
S21N2	· · ·		100%	75 01-Mar-12 A	26-May-12 A		: 	: 		: 			) 	
\$21N2	` ′		100%	40 28-Aug-12 A	20-Oct-12 A		! !	1 1 1		1 1 1			1 1	!
S21N2	-	-39	50%	70 04-Mar-13 A	04-Sep-13			1	Backfilling behind W	to W48 and	drainage works	<b>;</b>	1	
Retain	ng Wall W49							1	Ī	1			!	
S21N2	-		100%	24 20-Nov-10 A	24-Feb-11 A									
S21N2			100%	96 26-Mar-11 A	26-Jul-11 A			: !		1			1	
S21N2			100%	18 26-Mar-11 A	16-Apr-11 A		! !	1 1 1		1 1 1			 	!
S21N2			100%	36 08-Mar-11 A	20-Aug-11 A		  -  -	1 1 1		 			1	
S21N2			100%	15 22-Aug-11 A	12-Nov-11 A		 	1 1 1 1		1 1 1				
S21N2	-	-39	50%	70 04-Mar-13 A	04-Sep-13				Backfilling behind W	49 and drainad	je works		!	
Road F	e-Construction Works, Roadworks & Drainage			<u> </u>					Ĭ				:	
S21N40			100%	20 14-Dec-12 A	04-Jan-13 A		: 	: 		: 			) 	
S21N40			100%	20 10-Jan-13 A	11-Apr-13 A	 Lane (Ch2650	¦ ⊹ 2840)	1 1 1		 			1	
S21N41	<u> </u>	-38	74.29%	133 06-Aug-11 A	04-Sep-13		' '	1 1 1	Roadworks, Drainage	es & Utilities (C	H 2400 - 2840)			
J=y.	, , , , , , , , , , , , , , , , , , , ,									1			<u>-</u>	1

Activity II	n	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
ACTIVITY	D	Activity Name	Total Float	Complete	Duration	FIIIISII	41	42		3 44	45	Q4 46	47	48	Q1 49	50
	S21N4110	Removal of existing paving		100%	25 06-Aug-11 A	13-Jul-13 A				xisting paving						
	S21N4120	Drainages (incl. VO 33 : Drainage details at W48)		100%	25 06-Aug-12 A	05-Apr-13 A	33: Drainage d	; etails at W₄	48)						 	
	S21N4130	Utilities (incl. VO 26: Permanent Diversion of existing DN80 WSD Waterm	-28	5%	25 08-Jul-13 A	22-Aug-13			i	Utilities (incl. VO 26	6: Permanent	Diversion	of existing D	N80 WSD Wa	termain at M	/la WO Su
	S21N4135	Road Surface (Stage 1: CH2400 - CH2520)		100%	75 26-Dec-11 A	24-Feb-12 A		1			1 1 1		! ! !	! ! !	1 1 1	1
	S21N4140	Road Surface (Stage 2 : CH2520 - CH2840)	-99	65%	75 08-Jan-13 A	26-Aug-13	1	1		Road Surface (Sta	age 2 : CH25	20 - CH2	₿40)	1 1 1 1	1 	
	S21N4141	Road Construction Works (CH2600 - CH3000) for traffic diversion stage 4B-1		100%	75 10-Jan-13 A	04-May-13 A	nstruction Wo	ks (CH260	0 - CH30	00) for traffic diversion st	tage 4B-1		<u> </u> 	 	   	
	S21N4142	Road Construction Works (Fast Lane) for C1/C2 Interface stage 6B		100%	40 21-Jan-13 A	11-May-13 A	Construction \	Vorks (Fas	Lane) fo	r 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 C	onstruction	Works (N	/lid Lane) for C1/ C2 Inte	rface staģe 7	7B	! !	, 1 1 1		
	S21N4144	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 8B		100%	27 10-Jun-13 A	06-Jul-13 A		Road (	Constructi	on Works (Slow Lane) fo	or C1/ C2 Inte	erface stag	je 8B	! !	 	
	S21N4145	Road Construction Works for C1/ C2 Interface Final stage	-38	5%	36 08-Jul-13 A	04-Sep-13				Road Constru	ction Works	for C1/ C2	Interface Fin	al stage	 	
	S21N4150	Shift lane for C1/ C2 Interface (Stage 1)		100%	0 27-Feb-12 A			{ !			<del>-</del>		<u> </u> 	) 	<u>-</u> 	
	S21N4152	Shift lane for C1/ C2 interface (Stage 2: North Bound along W38 to W46)		100%	0 20-Jan-13 A		aldng W38 to W	'46)			1		1 1 1 1	1 1 1 1	 	
	S21N4153	Shift lane for (CH2600 - CH3000) stage 4B-1		100%	0 05-May-13 A		ne for (CH2600	: - CH3000)	stage 4B	-1	1		! ! !	! ! !	! ! !	
	S21N4155	Shift lane for C1/ C2 Interface stage 6B		100%	0 12-May-13 A		lane for C1/ Ca	Interface	stage 6B				! ! !	! ! !		
		Shift lane for C1/ C2 Interface stage 7B		100%	0 09-Jun-13 A		i	i	Ī	e stage 7B			! !	! !		
		Shift lane for C1/ C2 Interface stage 8B		100%	0 07-Jul-13 A			Shift I	ane for C1	/ C2 Interface stage 8B	<del> </del>			    		
		Shift lane for C1/ C2 interface Final stage	-38	0%	0 04-Sep-13					Shift lane for 0	C1/ C2 interfa	ace Final s	: stage		1 1 1	
		ers & Road Barriers			<u>'</u>			1			1 1 1		! !	1 1 1 1	1 1 1 1	1
	Noise Barrie										1		1 1 1 1	1 1 1 1	1 1 1	
	_	NB31 (CH 0-183.6, W39 - W49)		100%	80 07-Nov-12 A	17-Jan-13 A		1					1 1 1	 	1 1 1	
		NB31 : Excavation and Footing (Bay 1-4)		100%	24 07-Nov-12 A	05-Jan-13 A							! 	 	 	
		NB31 : Excavation and Footing (Bay 5 - 7)		100%	24 01-Dec-12 A	08-Jan-13 A							! ! !	! ! !		
		NB31 : Erecting H-Column		100%	18 02-Jan-13 A	10-Jan-13 A							! !	! !		
		NB31 (CH 90-183.6) : Installation Panel		100%	18 11-Jan-13 A	17-Jan-13 A									1 1 1	
		Remaining NB31 Installation of Panel	-11	0%	7 26-Jul-13	02-Aug-13		1	   Ren	naining NB31 Installation	of Panel		 	 	1 1 1 1	1
		rol & Survelance System		0 70	7 20 001 10	02 / tag 10		¦			<del> </del>		! ! !	! ! !	   	
		TCSS (Gantry G23A) (incl. VO73 Revised Sign Gantry Details)	-12	85%	50 10-Jan-13 A	03-Aug-13		1	TC:	SS (Gantry G23A) (incl. V	/O73 Revise	d Sign Ga	htry Details)	! ! !	 	
	Landscapin	<u> </u>		0070	10 0011 10 71	00 / tag 10						a oigir aa	in y Dotano)	! !		
		Landscaping Works	-58	0%	40 10-Aug-13	27-Sep-13			_	Lan	dscaping Wo	nrke			1 1 1	
	South Bou	1 1	00	0 70	10 10 7.09 10	27 COP 10			-		accupang, TT	31110	! ! !	! ! !	 	
	Preliminarie							¦					1 1 T	1 1 1	 	
		Site Clearance/Access Rd		100%	48 15-Oct-10 A	10-Dec-10 A		1			1		! ! !	! ! !	1 1 1 1	1
		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							! !	! !		
				100 /6	34 02-110V-10 A	10-Dec-10 A					1		 	 	1 1 1 1	
	Slopeworks S21S5000	Slopeworks Fill(S26)	-60	60.63%	40 25-Mar-13 A	13-Aug-13		¦		Slopeworks Fill(S26)			1 1 <del>1</del>	1 1 1	 	
	S21S5000	Slopeworks Fill(S26) - Lower +50mPD	-00	100%	15 25-Mar-13 A	10-May-13 A	works Fill(S26)	- Lower : 5	1	Gropeworks I III(320)			1 1 1 1	1 1 1 1	1 1 1	
	S21S5010 S21S5020	Slopeworks Fill(S26) - Lower +50HPD Slopeworks Fill(S26) - Upper +55mPD	-60	30%	23 13-May-13 A	13-Aug-13	: : : : : : : : : : : : : : : : : : :	Lowel +3	,  -	Slopeworks Fill(S26) - U	Inner (EEmD	חי	1 1 1 1	1 1 1 1		
	S21S5020 S21S5100	Slopeworks Fill(S27)	-62	85%	120 09-Jan-13 A	15-Aug-13		1		Slopeworks Fill(S27)	ppper +oonin	J	! !	! !	! !	
		<u> </u>	-02					1		Siopeworks Fill(54/)			1 1 1	1 1 1	 	: 
	S21S5110	Slopeworks Fill(S27) - Lower +50mPD	60	100%	60 09-Jan-13 A	17-Jan-13 A		ļ		Clophwarks F:11/007	Lower - FF		1 1 T	 	 	
		Slopeworks Fill(S27) - Lower +55mPD	-62	70%	60 18-Jan-13 A	15-Aug-13		1	-	Slopeworks Fill(S27) -	Lower +55m	ΓU	1 1 1 1	1 1 1 1	1 1 1 1	1
	Extension o			40001	00 00 0 40 4	00 5-1-10 4							1 1 1 1	 	 	
		Extension of Box Culvert (TP9), Downstream		100%	60 20-Dec-12 A	06-Feb-13 A							1 1 1 1	1 1 1 1	1 1 1 1	
	S21S5130	Temporary Water Diversion		100%	12 20-Dec-12 A	28-Dec-12 A							1 1 1 1	1 1 1 1	1 1 1	
		Construction of Base Slab, Wall & Top Slab		100%	48 29-Dec-12 A	06-Feb-13 A							! ! !	; ; ; ;	! ! !	-
		n of Retaining Wall						! ! !					1 1 1 1	1 1 1 1		
	Retaining W												1 1 1 1	1 1 1 1		
	S21S2000	She et Pile/Excavate & Construct W50 (w/SP)		100%	215 21-May-12 A	23-Apr-13 A	kcavate & Cons	truct W50	w/SP)				!		,   	

A - Alivia v ID	11	T-4 !	A a Marte Of	Onlinin al Otarit	Fini-1				2013					2014	
Activity ID	Activity Name	Total   Float	Activity % Complete	Original Start  Duration	Finish			Q3			Q4			Q1	
S21S2010	Sheet Pile & ELS Works		100%	24 21-May-12 A	07-Sep-12 A	41	42	43	44	45	46	47	48	49	50
S21S2010	Construction of W50 Structure		100%	75 02-Jan-13 A	19-Mar-13 A	re			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1		!
S21S2020	Backfilling		100%	50 20-Mar-13 A	23-Apr-13 A						<u> </u>				
	Wall W51-56 (CSD 3)		100 /6	20 Mai-10 A	20 Apr 10 A		i !						 		,
	Sheet Pile / Excavate & Construct W51-56 (w/SP)		100%	216 25-Feb-11 A	27-Dec-12 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1	1 1 1 1 1 1	1 1 1	:	ı
			100%	24 25-Feb-11 A	11-May-11 A	-							 		ı
			100%	42 19-Apr-11 A	14-Jun-11 A	$\dashv$									:
	Sheet Pile & ELS Works (W52 & W53)		100%	24 28-Jul-11 A	16-Sep-11 A						. <del> </del>				
	· · · · · ·		100%	42 17-Oct-11 A	05-Dec-11 A	-		1 1 1 1			1		 	1	,
S21S2150			100%	24 17-Jan-12 A	27-Dec-12 A	-							 		ı
	-		100%	24 17-Feb-12 A	03-Mar-12 A										!
	Construction of W54, 55 & 56 Structure		100%	75 15-Feb-12 A	06-Jul-12 A	$\dashv$									
			100%	30 02-Aug-12 A	27-Dec-12 A			; 			; 	i +	<u>-</u>		
	Backfilling behind W51 to W56 and drainage works	-39	50%	70 04-Mar-13 A	04-Sep-13	- !	1		Backfilling b	pehind W5	to W56 and	rainage works	;		ı
	Wall W51A (CSD 3)		23,0								32 3.13		1 1 1		
	Excavate to cut-off level		100%	8 17-Jan-11 A	25-Jan-11 A	_							 		i
	Capping/Walling for W51A		100%	18 12-Jul-11 A	01-Aug-11 A								1		ı
	Backfilling		100%	30 28-Dec-11 A	04-Feb-12 A		- <del> </del>	i 	- <del> </del> <del> </del>		i 	i +			
	Wall W35A, (CSD 2)											! ! ! !	1 1 1		ı
			100%	198 13-Apr-12 A	05-Dec-12 A							! !	!		
S21S2212	· · ·		100%	35 13-Apr-12 A	03-Jul-12 A	$\dashv$									
S21S2218	-		100%	30 25-Jul-12 A	14-Aug-12 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1	1 1 1 1 1 1	1 1 1	:	
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			1			1		1		1
	Backfilling		100%	6 29-Nov-12 A	05-Dec-12 A	$\dashv$									
Road Re-co	onstruction Works, Roadworks & Drainage							1			1	i i i i	 		ı
S21S3895	Roadwork (South Bound slow lane along W35A)		100%	6 06-Dec-12 A	09-Dec-12 A								1 1 1		ı
S21S3896	Roadwork (South Bound slow lane along W50 - W56)		100%	30 01-Feb-13 A	29-Apr-13 A	(\$outh Bound	d ślow lane al		6)			· · · · · · · · · · · · · · · · · · ·			
S21S3900	Roadworks, Drainages & Utilities (CH 2400 - 2840)	-58	63.83%	150 25-Jan-13 A	28-Sep-13	- !	i	<u>i</u>		Roadworks,	Drainages &	Utilities (CH 24	00 - 2840)		
S21S4001	Removal of Existing Paving	-58	60%	40 25-Jan-13 A	13-Aug-13		i	Remo	oval of Existing I	Paving	1	i i i i	 		ı
S21S4002	Drainages (incl. VO33: Drainage details at W48)	-64	0%	30 26-Jul-13	29-Aug-13			!	Drainages (inc	d. VO33: D	rainage detail	s at W48)	 		ı
S21S4003	Utilities (incl. VO 26 & VO69)	-64	0%	30 30-Aug-13	05-Oct-13			ı l		Utilities (	ind. VO 26 &	VO69)	1		!
S21S4010	Road Surface (CH2400 - CH2840)	-58	20%	65 04-Mar-13 A	16-Oct-13		-4			Roa	id Surface (Cl	12400 - CH284	10)	<del>-</del>	, ;
S21S4011	Road Construction Works (Fast Lane) for C1/ C2 Interface stage 4A		100%	40 21-Jan-13 A	13-Apr-13 A	n Works (Fas	t Ļane) for C1	/ C2 Interface	stage 4A						ı
S21S4012	Road Construction Works (Mid Lane) for C1/C2 Interface stage 5A		100%	27 15-Apr-13 A	25-May-13 A	Road Constr	uction Works	(Mid Lane) for	C1/ C2 Interface	e stage 5A	1		i ! ! !	į	ı
S21S4013	Road Construction Works (Slow Lane) for C1/ C2 Interface stage 6A		100%	39 27-May-13 A	30-Jun-13 A		Road Con	struction Work	s (Slow Lane) fo	or C1/ C2 In	terface stage	6A	1 1 1		
S21S4014	Road Construction Works for C1/ C2 Interface Final stage	-58	15%	45 02-Jul-13 A	28-Sep-13	1		í	F	Road Const	ruction Works	for C1/ C2 Inte	erface Final sta	age	i
S21S4030	Shift lane for C1/C2 interface (South Bound along W35A)		100%	0 09-Dec-12 A							· · · · · · · · · · · · · · · · · · ·	·			
S21S4031	Shift lane for C1/C2 Interface stage 4A		100%	0 14-Apr-13 A		C2 Interface	stage 4A				1		; ; ; ;		ı
S21S4032	Shift lane for C1/C2 Interface stage 5A		100%	0 26-May-13 A		Shift lane for	r C1/ C2 Inter	face stage 5A					1 1 1		<u>'</u>
S21S4033	Shift lane for C1/ C2 Interface stage 6A		100%	0 30-Jun-13 A		1	Shift lane	for C1/ C2 Inter	rface stage 6A				 		i
S21S4050	Shift lane for C1/ C2 interface (Final stage)	-58	0%	0 28-Sep-13			1		<b>♦</b> 8	Shift lane fo	cr C1/ C2 inter	ace (Final stat	je)		ı
Noise Barr	iers	1									· +	+i	<del>-</del>	<del>-</del>	
Noise Barr	ier NB29												 	į	!
S21S3010	NB29A (CH 0-62.3) on W35A (incl. VO 9: Construction of double leaf acce	-65	0%	20 11-Sep-13	07-Oct-13					■ NB29A	(CH 0-62.3) o	W35A (incl.	/O 9: Constru	ction of dou	ole leaf ac
S21S3011	NB29A (CH 0-62.3) on W35A - Erecting H-Column	-65	0%	10 11-Sep-13	24-Sep-13				■ NE	329A (CH 0	62.3) on W3	A - Erecting H	-Column		,
S21S3012	NB29A (CH 0-62.3) on W35A - Installing Panel	-65	0%	10 24-Sep-13	07-Oct-13		1			NB29A	(CH 0-62.3) o	W35A - Insta	lling Panel		ı
Noise barri	ier NB30	1		<u> </u>	1						· · · · · · · · · · · · · · · · · · ·	*i			,
								1	<u> </u>		1	<u> </u>	<u> </u>	<u> </u>	

ctivity ID	Activity Name	Total	Activity %	Original Start	Finish			2013				2014
·		Float	Complete	Duration		41	42	Q3 44 45	Q4 46	47	48	Q1 50
S21S3020	NB30 (CH 0-201.9) (incl. VO 9: Construction of double leaf access door for	-65	41.69%	104 01-Aug-12 A	07-Oct-13							ouble leaf access door
S21S3021	NB30 - Excavation and Footing (bay 1 - bay 3)		100%	75 01-Aug-12 A	22-Nov-12 A							
S21S3026	NB30 - Excavation and Footing (bay 13 - bay 15)		100%	25 02-May-13 A	14-Jun-13 A	NB3	- Excava	ti <mark>o</mark> n and Footing (bay 13 - bay 15)	1 1 1			
S21S3027	NB30 - Excavation and Footing (bay 4 - bay 12)	-65	10%	45 02-Jul-13 A	11-Sep-13			NB30 - Excavation	and Footing	(bay 4 - bay 12	2)	
S21S3028	NB30 : Erecting H-Column	-65	0%	10 11-Sep-13	24-Sep-13			NB30 : Erec	ing H-Column			
S21S3029	NB30 : Installing Panel	-65	0%	10 24-Sep-13	07-Oct-13			NB30 :	Installing Par	el		
Noise Barri	er NB33				'				1 1 1			
S21S3030	NB33 (CH 0-143) (incl. VO 9: Construction of double leaf access door for n	-11	93.14%	102 01-Sep-12 A	02-Aug-13	1	!	NB33 (CH 0-143) (incl. VO 9: Const	uction of dou	ole leaf access	door for noise	e barrier)
S21S3031	NB33 : Excavation, construction of Footing & Backfilling (bay 3 - bay 13)		100%	75 01-Sep-12 A	10-Jan-13 A	ay 3 - bay 13)						
S21S3032	NB33 : Erecting H-Column (bay 3 - bay 13)		100%	15 14-Jan-13 A	17-Jan-13 A							
S21S3033	NB33 : Installing Panel (bay 3 - bay 13)		100%	12 25-Jan-13 A	02-Mar-13 A	13)						
S21S3034	NB33 : Excavation, construction of Footing & Backfilling (bay 1 - bay 2)		100%	15 07-Mar-13 A	21-Mar-13 A	ction of Footing	& Backfil	li <mark>n</mark> g (bay 1 - bay 2)	1 1 1 1		1	
S21S3035	NB33 : Erecting H-Column (bay 1 - bay 2)		100%	7 26-Apr-13 A	27-Apr-13 A	cting H-Columi	(bay 1 - b	pay 2)	1 1 1			
S21S3036	NB33 : Installing Panel (bay 1 - bay 2)	-11	0%	7 26-Jul-13	02-Aug-13			NB33 : Installing Panel (bay 1 - bay	2)			
Traffic Cont	rol & Survelance System			,	·		1			!	1	.,
S21S4800	TCSS (Gantry G60A) (incl. VO73 Revised Sign Gantry Details)	-58	15%	45 02-Jul-13 A	28-Sep-13			TCSS (Ga	ntry G60A) (ind	VO73 Revis	ed Sign Gantr	y Details)
Landscapin	g				'				1 1 1			
S21S6000	Landscaping Works	-62	0%	40 16-Aug-13	03-Oct-13			Landsca	oing Works			
Middle Lan	ne											
Road Re-co	nstruction Works								- <del>i</del>	- <del></del>		;;;;
S21M4030	Roadworks, Drainage & Utilities (CH 2400 - 2840)	-99	0%	65 08-May-12 A	18-Nov-13	1	1		Ro	adworks, Dra	inage & Utilitie	s (CH 2400 - 2840)
S21M4035	Removal of Central barrier & Roadmark		100%	25 08-May-12 A	06-Jun-13 A	Remova	of Centra	al barrier & Roadmark				
S21M4040	Removal of Existing Paving		100%	25 18-May-12 A	06-Jun-13 A	Remova	of Existin	ng Paving	1			
Noise Barri	ers											
Noise barrie	er NB32, G23A & G60A								- <del>†</del>			
S21M380	Excavate to cut-off level (Stage 1: Bay 1 - Bay 2)		100%	7 31-Jan-13 A	25-Feb-13 A	1 - Bay 2)	1 1 1		1 1 1			
S21M390	Construction for NB32 (Stage 1: Bay 1 - Bay 2)		100%	15 25-Feb-13 A	16-Mar-13 A	1 Bay 1 - Bay	2)		1			
S21M391	Excavate to cut-off level (Stage 2: Bay 3 - Bay 26)	-99	85%	15 18-May-13 A	29-Jul-13		:	Excavate to cut-off level (Stage 2: Bay	3 - Bay 26)			
S21M392	Construction for NB32 (Stage 2: Bay 3 - Bay 26 with G23A and G60A)	-99	52%	50 31-May-13 A	26-Aug-13		1	Construction for NB32 (S	age 2: Bay 3	Bay 26 with	G23A and G60	DA)
S21M393	Erecting H-Column, NB32	-80	0%	20 26-Aug-13	18-Sep-13			Erecting H-Col	ımn, NB32	- <del> </del>		· · · · · · · · · · · · · · · · · · ·
S21M394	Installing Panel & Road Barrier, NB32	-80	0%	30 18-Sep-13	26-Oct-13		1		Installing Pa	nel & Road Ba	arrier, NB32	
S21M400	Backfilling (Stage 1: Bay 1 - Bay 2)		100%	10 18-Mar-13 A	20-Apr-13 A	ıge 1: Bay 1 - I	3ay 2)					
S21M401	Backfilling (Stage 2: Bay 3 - Bay 26)	-99	5%	20 15-Jul-13 A	17-Sep-13		_	Backfilling (Stag	e 2: Bay 3 - E	Say 26)		
S21M403	Road Lighting Works	-99	0%	10 17-Sep-13	30-Sep-13		1	Road Ligh	ting Works		1	
S21M404	Remaining Roadworks & Road Surfacing	-99	0%	40 30-Sep-13	18-Nov-13		!		Re	emaining Road	dworks & Road	Surfacing
Ready For	Pre-Handover Retaining Wall of Section 1											
HRW0010	Ready For Pre-Handover Retaining Wall W35, W36, W38, W39, W40, W4	-11	0%	7 26-Jul-13	02-Aug-13			Ready For Pre-Handover Retaining	Wall W35, W	36, W38, W39	, W40, W44, V	V45, W46, W47, W48,
HRW0011	Ready For Pre-Handover Retaining Wall W35A, W50, W51, W52, W53, W	-11	0%	7 26-Jul-13	02-Aug-13			Ready For Pre-Handover Retaining	₩all W35A, V	v50, W51, W5	2, W53, W54,	W55, W56
Section 2				<u>'</u>	·		1		1 1 1			
Site Area S	A22								- <del>1</del>	- <del> </del>		<u> </u>
PHSA2220	Possession of SA22 (Day0)		100%	0 26-Feb-10 A					1			
SA220000	Site Area SA22 Works Period (incl. VO 28: Provision of hoarding at site bo	177	86.92%	1216 26-Feb-10 A	31-Dec-13				<u> </u>	<u> </u>	Site Area S	A22 Works Period (inc
SA220010	Site Area SA22 Works Completion	177	0%	0	31-Dec-13				1		1	A22 Works Completion
SA220020	Temporary Traffic Management (Detail shall refer to supplementary inform	177	83.86%	985 25-Feb-10 A	31-Dec-13		!		1	1	1	Traffic Management (D
SA220030	Overall Utilities Diversion (Detail shall refer to supplementary information)	177	83.86%	985 25-Feb-10 A	31-Dec-13		ļ				4	ities Diversion (Detail s
North Bou					<u> </u>							
Preliminarie							1		1 1 1			
						i	!	1 :	!	!	!	! !

Activi	tv ID	Activity Name	Total	Activity %	Original Start	Finish					2013					2014	
7.00.141	.,		Float	Complete	Duration		F	A4	40	Q3		AE	Q4	17	40	Q1	FO
	S22N0000	Site Clearance/Access Rd (W56A&W56B)		100%	90 26-Feb-10 A	18-Jun-10 A		41	42	43	44	45	46	47	48	49	50
	S22N0001	Site Clearance - Stage 1 (Near W56A)		100%	30 26-Feb-10 A	01-Apr-10 A						1 	1		1 1 1 1		, !
	S22N0002	Access Road - Stage 1 (Near W56A)		100%	30 22-Mar-10 A	29-Apr-10 A	1-:-					; 		;			    
	S22N0003	Site Clearance - Stage 2 (Near W56B)		100%	30 19-Apr-10 A	25-May-10 A				i 1 1			1 1 1	1	! !		1 1 1
Ш	S22N0004	Access Road - Stage 2 (Near W56B)		100%	30 13-May-10 A	18-Jun-10 A				 		 	1 1 1		1 1 1 1		1
Ш	S22N0030	Erection of Temp Safety Fence (N/B ch2840-3150)		100%	60 10-May-10 A	21-Jul-10 A				1		[ 	1		1 1 1		; !
Ш	S22N0040	Erection of Temp Safety Fence (N/B ch2840-3000)		100%	30 10-May-10 A	14-Jun-10 A						 					!
Ш	S22N0050	Erection of Temp Safety Fence (N/B ch3000-3150)		100%	30 15-Jun-10 A	21-Jul-10 A	1-:-					; 		;			
HII'	Slopeworks	5				<u> </u>				1		 	1 1 1	! !	1 1 1 1		1 1 1
Ш	S22N5000	Slopeworks Cut & U-Channel/Berm (S29-sn), C4		100%	421 22-Jul-10 A	17-Dec-11 A				1		 	1		I I I		1
Ш	S22N5010	Slopeworks (S29) & U-channel/Berm - Stage 1 (Cutslope)		100%	12 22-Jul-10 A	04-Aug-10 A						 	1				!
Ш	S22N5020	Slopeworks (S29) - Stage 1 (Soil Nail Installation : QRS)		100%	12 26-Mar-11 A	09-Apr-11 A						 					) 
Ш	S22N5040	Slopeworks (S29) & U-Channel/Berm - Stage 2 (Cutslope)		100%	50 19-Aug-10 A	19-Oct-10 A	1-1-					+	! !	! ! !	     		
Ш	S22N5050	Slopeworks (S29) - Stage 2 (Soil Nail Installation : MNOP)		100%	21 02-Apr-11 A	30-Apr-11 A				1		1 1 1 1	1		1 		1 1 1
Ш	S22N5070	Slopeworks (S29) & U-Channel/Berm - Stage 3 (Cutslope)		100%	28 21-Oct-10 A	13-Nov-10 A				1		 	1		I I I		1
Ш	S22N5080	Slopeworks (S29) - Stage 3 (Soil Nail Installation : IJKL)		100%	36 27-Jun-11 A	08-Aug-11 A						 	1				!
Ш	S22N5100	Slopeworks (S29) & U-Channel/Berm - Stage 4 (Cutslope)		100%	36 26-Oct-11 A	07-Dec-11 A						 	1				] 
Ш	S22N5110	Slopeworks (S29) - Stage 4 (Soil Nail Installation : EFGH)		100%	36 07-Nov-11 A	28-Nov-11 A	1-1-						 	; ! !			
Ш	S22N5130	Slopeworks (S29) & U-Channel/Berm - Stage 5 (Cutslope)		100%	36 03-Jan-13 A	31-Jan-13 A	Cuits	slope)		 		1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1		1
Ш	S22N5140	Slopeworks (S29) - Stage 5 (Soil Nail Installation : ABCD)		100%	36 21-Nov-11 A	03-Jan-13 A				1		 	1	1	 		1
Ш	S22N5160	Slopeworks (S29) & U-Channel/Berm - Stage 6 (Cutslope)	46	30%	36 22-Apr-13 A	24-Aug-13	_ <u>;</u>				Slopeworks (S	29) & U-Cha	nnel/Berm - S	tage 6 (Cutslo	pe)		1
Ш	Construction	on of Retaining Wall			<u> </u>	<u>'</u>				1	1		1 1 1	i !	! ! !		 
	Retaining V	Vall W56A, (CSD 1)					-1-				   	+	1	*	     		    
Ш	S22N2154	Excavate to cut-off level (Stage 1, Bay 1 - 5)		100%	60 20-Apr-11 A	06-Jul-11 A				1		 	1		 		1
Ш	S22N2155	Excavate to cut-off level (Stage 2, Bay 5 - 9)		100%	50 26-Sep-11 A	24-Nov-11 A						 					
Ш	S22N2160	Base Slab for W56A		100%	141 05-Jul-11 A	19-Dec-11 A											) 
Ш	S22N2165	Base Slab for W56A (Stage 1), South		100%	50 05-Jul-11 A	17-Sep-11 A				i 1 1	1	 	1 1 1 1	i ! !	1 1 1 1	 	1 1 1
ш	S22N2166	Base Slab for W56A (Stage 2), North		100%	56 04-Jun-12 A	14-Jul-12 A	1-1-				   	+	1	*	     		
Ш	S22N2170	Wall Stem		100%	172 11-Aug-11 A	17-Nov-12 A						[ 	1		1 1 1		
ш	S22N2171	Wall Stem (Bay 1e & 1f)		100%	25 11-Aug-11 A	23-Sep-11 A											1
Ш	S22N2173	Wall Stem (Bay 1c & 1d, 1a & 1b, 1g)		100%	25 26-Sep-11 A	26-Oct-11 A				; ; ;			1 1 1	i !	! ! !		 
Ш	S22N2174	Wall Stem (Bay 2a, 2bnb, 2b)		100%	75 16-Jul-12 A	13-Oct-12 A				1		 	1 1 1		1 1 1 1		1 1 1
ш	S22N2175	Wall Stem (Bay 2c, 2d)		100%	30 06-Aug-12 A	03-Nov-12 A				     	 	+     	1	†	     		 
	S22N2176	Wall Stem (Bay 3)		100%	25 31-Aug-12 A	17-Nov-12 A						1 1 1 1	1		! !		1
	S22N2186	Backfilling		100%	30 19-Nov-12 A	26-Jan-13 A				1			1 1		! ! !		1
	Retaining V	Vall W56B (AD 1)			'					1 1 1	1	 	1 1 1	! !	1 1 1 1		1 1 1
	S22N2210	Prepare Piling Platform for W56B		100%	37 02-Oct-10 A	11-Feb-11 A				1	1	1 1 1 1	1 1 1 1		1 1 1		1
	S22N2220	Pre-drilling for W56B		100%	37 02-Oct-10 A	15-Nov-10 A						+	1	!	     		   
Ш	S22N2240	Pipe Pile for W56B		100%	98 20-Nov-10 A	21-Mar-11 A						 					!
Ш	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				1 1 1	1	 	1 1 1	1	 		1
Ш	S22N2250	Construction of W56B		100%	276 17-Sep-11 A	06-Apr-13 A	В			 		1 1 1 1	1 1 1		1 1 1 1		1
	S22N2251	Excavation (W56B), upper		100%	75 17-Sep-11 A	05-Jan-12 A							1	!	,		
	S22N2252	Excavation (W56B), Middle		100%	60 06-Jan-12 A	26-May-12 A						! ! !	1		! !		1
	S22N2254	Excavation (W56B), bottom		100%	60 11-May-12 A	29-Sep-12 A				1	1	1 1 1 1	1 1 1 1	1	1 1 1		1
	S22N2260	Base Slab (W56B), (Bay 1 -3)		100%	25 27-Jul-12 A	10-Sep-12 A				1 1 1	1	 	1 1 1	1	 		1 1 1
	S22N2262	Base Slab (W56B), (Bay 4 - 8)		100%	60 27-Sep-12 A	10-Nov-12 A				1		 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1		: ! !
	S22N2264	Base Slab (W56B), (Bay 9, 10 & 12A)		100%	35 27-Jul-12 A	13-Oct-12 A						 	1		,		;  
					<u> </u>					1	1	<u>I</u>	1	1	1	ı i	

Activity ID	Activity Name	Total	Activity 9/	Original Start	Finish					2013					2014	
ACTIVITY ID	Activity Name	Total   Float	Activity % Complete	Original Start Duration	FILISH			Q3				Q4			Q1	
S22N2	270   Wall Stem (W56B), (Bay 1 - 3, Total 18 pours)		100%	75 01-Nov-12 A	06-Apr-13 A		41 42 3, Total 18 pours)	43		44	45	46	47	48	49	50
S22N2			100%	75 12-Nov-12 A	06-Apr-13 A		8, Total 30 pours)				! ! !					
S22N2			100%	75 24-Nov-12 A	06-Apr-13 A		10, Total 12 pours)	1			1 1 1		1		1	
S22N2			100%	15 10-Jan-13 A	19-Jan-13 A			1 1 1	 		1 1 1 1					
	292 Backfilling (Bay 4 to Bay 10)		100%	30 14-Jan-13 A	05-Mar-13 A						L		- <del> </del>	ļ		
	orks & Drainage										! ! !					
S22N40		-5	40.89%	129 15-Jan-13 A	26-Oct-13		i !	1	i		i 1 1	Roadworks,	् Drainages & し	; Jtilities (CH:	2840 - 3140)	
S22N4(	· · · · · · · · · · · · · · · · · · ·		100%	30 15-Jan-13 A	29-Mar-13 A	2840 -	3000)	1 1 1	1		1 1 1 1					
S22N4(			100%	30 15-Jan-13 A	05-Mar-13 A	D)		1			1					
S22N40			100%	30 21-Mar-13 A	23-Apr-13 A	e Works	 S					-	· <del> </del>			
S22N4(	42 Roadworks Stage 2 (CH3000 - 3140)	3	90%	30 18-Mar-13 A	29-Jul-13			Roadw	orks Sta	age 2 (CH3	000 - 3140)					
S22N4(			100%	30 20-Feb-13 A	11-Apr-13 A	(CH30	00 - 3140)	1 1 1	 		1 1 1	1				
S22N4(		3	50%	30 17-May-13 A	15-Aug-13	`1	1.	!	Road S	Surface Wo	rks					
S22N4(		-5	0%	50 26-Aug-13	26-Oct-13							Road Constr	: uction Works	Remain Fas	st Lane (along	ا GH2840 - 3 أ
Noise	Barriers											-	.			
	Barrier NB31A				<u></u>			1 1 1	 		1 1 1		1		1	1
S22N3	D20 NB31A (CH 0-21.9) on W56A (incl. VO 9: Construction of double leaf acce		100%	74 15-Oct-12 A	22-Nov-12 A	pr for no	oise barrier)	1 1 1	 		1 1 1 1					1 1 1
S22N3	021 NB31A (CH 0-21.9) on W56A : Erecting H-Column		100%	38 15-Oct-12 A	19-Oct-12 A			1 1 1			1					1
S22N3	022 NB31A (CH 0-21.9) on W56A : Installing Panel		100%	36 22-Oct-12 A	22-Nov-12 A						! ! !					
South	Bound		<u>                                     </u>				i					-	· <del> </del>			
Prelim								1 1 1	 		1 1 1 1	1		1	1	1 1
S22S00			100%	84 01-Apr-10 A	16-Jul-10 A			1 1 1 1	1		1 1 1 1	1				
S22S00	10 Site Clearance		100%	72 01-Apr-10 A	02-Jul-10 A						! ! !					
S22S00	20 Access Road		100%	72 20-Apr-10 A	16-Jul-10 A						! !					
Slopev	orks												· <del> </del>			
S22S50			100%	198 21-Oct-10 A	17-Aug-11 A			1 1 1	 		1 1 1 1					1 1 1
S22S50	10 Slopeworks Cut(S28) - Stage 1 (Cutslope)		100%	23 21-Oct-10 A	16-Nov-10 A						1 1 1					
S22S50	Slopeworks Cut(S28) - Stage 1 (Soil Nail Installation : IJKL)		100%	23 17-Nov-10 A	08-Feb-11 A						1 1 1					
S22S50	Slopeworks Cut(S28) - Stage 2 (Cutslope)		100%	37 11-Dec-10 A	03-Jan-11 A			1 1 1	1		1 1 1 1	1			1	1 1 1
S22S50	Slopeworks Cut(S28) - Stage 2 (Soil Nail Installation : EFGH)		100%	37 08-Feb-11 A	23-Mar-11 A						 		- <del> </del>			
S22S50	70 Slopeworks Cut(S28) - Stage 3 (Cutslope)		100%	36 06-Jul-11 A	17-Aug-11 A						! ! !					
S22S50	Slopeworks Cut(S28) - Stage 3 (Soil Nail Installation : ABCD)		100%	36 20-Aug-11 A	04-Oct-11 A			1			 				1	
S22S51	Slope Reinstatement Works (Bridge 12B)	-48	0%	40 29-Aug-13	17-Oct-13			 	÷		Slo	pe Reinstate	ment Works (I	Bridge 12B)		1 1 1
Constr	uction of Retaining Wall			<u> </u>	<u> </u>			1			1 1 1					1
	ng Wall RWB12B										 	- †	- <del>†</del>			
S22S2	Pre-drilling for RWB12B		100%	24 16-Jul-10 A	12-Aug-10 A			1 1			I I I		1			i 1 1
S22S2	Piles for RWB12B		100%	116 13-Aug-10 A	20-Nov-10 A			1 1 1	; ; ;		1 1 1 1	1	1		!	1 1 1
S22S2	Excavate to cut-off level		100%	60 26-Jan-11 A	09-Apr-11 A						1 1 1 1					
S22S2	Capping/Walling for Bay 1-2, RWB12B		100%	60 28-Mar-11 A	10-May-12 A						! ! !					
S22S2	Capping/Walling for Bay 3-6, RWB12B		100%	75 11-May-12 A	03-Sep-12 A	<u> </u>	<del> </del>	1			<u></u>	- <del>†</del>	†			· - <del>-</del>
S22S2	Backfilling		100%	60 04-Sep-12 A	22-Jun-13 A	i	Backfilling	1 1 1			1 1 1 1					
Road F	e-construction Works, Roadworks & Drainage		,	,							1 1 1 1					
S22S40	Road Re-construction Works (CH 2840 - 3450)	-60	29.09%	185 06-May-13 A	31-Dec-13	1	!	!	!		1	!	1	Road Re	-construction	Works (CH 2
S22S44	Road and Drainages Works for Fast Lane (CH2840 - 3000)	-40	85%	45 06-May-13 A	02-Aug-13			Road	and Di	rainages Wo	rks for Fast	Lane (CH284	0 - 3000)			
S22S44	Road Surface Works for Fast Lane (CH2840 - 3000)	-40	0%	12 02-Aug-13	16-Aug-13				Road	Surface Wo	rks for Fast I	Lane (CH2840	- 3000)			 
S22S44	Road Re-Construction Works for Mid 2 Lane (CH2840 - 3000)	-40	0%	30 16-Aug-13	21-Sep-13			_	1	Re	pad Re-Cons	struction Worl	s for Mid 2 La	anne (CH2840	0 - 3000)	1
S22S44	Road and Drainages Works for Fast and Mid Lane (CH3000 - 3450)	-40	0%	30 16-Aug-13	21-Sep-13			_	1	Re	ad and Drai	inages Works	for Fast and I	Mid Lane (C	H3000 - 3450	1)
S22S44	Road Surface Works for Fast Lane and Mid Lane (CH3000 - 3450)	-40	0%	12 21-Sep-13	07-Oct-13			1 1	1		Road S	urface Works	for Fast Lane	and Mid La	ne (CH3000	- 3450)

ctivity ID	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
•		Float	Complete	Duration		41	42	Q3 43		45	Q4 46	47	48	Q1 49	50
S22S4430	Road and Drainages Works for Slow Lane (CH2840 - 3450)	-40	0%	12 07-Oct-13	22-Oct-13		1				Road and Dra	inages Works	for Slow Lane	(CH2840 - 3	3450)
S22S4435	Road Surface Works for Slow Lane (CH3000 - 3450)	-9	0%	7 22-Oct-13	30-Oct-13						Road Surf	ace Works for	\$low Lane (C	H3000 - 3450	0)
S22S4440	Road Construction Works Remaining Works (along CH2840 - 3450)	-60	0%	7 21-Dec-13	31-Dec-13							_	Road Cons	truction Worl	ks Remai
S22S4500	Roadworks for Realignment of Existing Shek Lin Road	-28	0%	30 18-Oct-13	21-Nov-13					_		; Roadworks for	; Realignment o	of Existing Sh	hek Lin R
Traffic Cont	trol & Survelance System							1	! ! !	1	1	1	i i i	1 1 1 1 1	1
S22S4820	TCSS - (Gantry 60) (incl. VO73 Revised Sign Gantry Details)	-9	0%	50 29-Aug-13	30-Oct-13					!	TCSS - (G	antry 60) (incl.	VO73 Revise	d Sign Gantr	y Details)
Modification	n of Existing Bridge 12												<del> </del>		
S22S1300		-60	0%	70 08-Oct-13	31-Dec-13							1	Demolish E	: xisting Parar	; .pet & Stito
S22S1315	VO 3: Existing Bridge 12 pile cap construction		100%	30 17-Sep-10 A	15-Feb-11 A		1			!			1 1 1		!
S22S1322	Removal of Existing Steel Barrier and Surface	39	40%	8 22-Jul-13 A	31-Jul-13			Remov	al of Existing St	eel Barrier a	and Surface				
S22S1323	Stitching Works of Existing Bridge Decks B12 and B12B	39	0%	20 31-Jul-13	23-Aug-13					į	ng Bridge Deck	; s B12 and B12	B		
S22S1324	Road Surface of B12B for TW Slip Road	39	0%	7 23-Aug-13	31-Aug-13				Road Sur						
S22S1326	Removal of existing central barrier along B12 and Erection breaking platform	-60	0%	12 08-Oct-13	22-Oct-13	-				1	Removal of e	-	i Parrier along B	i 12 and Fred	; ction breat
S22S1328	Breaking the existing stitch of B12 and condition survey	-60	0%	18 10-Oct-13	31-Oct-13	-			 		i	the existing sti	1	i	i
S22S1329	Removal M.J and Replacement M.J	-60	0%	8 01-Nov-13	09-Nov-13				 	-	-	val M.J and Re	į.	i	,
S22S1329	Stitching Works for B12	-60	0%	35 11-Nov-13	20-Dec-13				 	1	Tionic		tching Works	i	1
S22S1331 S22S1332	Road Surface Works	-60	0%	7 21-Dec-13	31-Dec-13								Road Surfa		
<u> </u>		-60	0%	7 21-Dec-13	31-Dec-13				!	1		-	hoad Sulla	Le Works	
Landscapin		40	00/	E0 40 0-140	44 Day 40				!	_				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Landscaping Works	-48	0%	50 18-Oct-13	14-Dec-13					_		Lanc	scaping Work	S	
Site Area S										1		1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PHSA2320	Possession of SA23 (Day180)		100%	0 04-May-10 A						 			J	 	
SA230000	Site Area SA23 Works Period	-47	77.35%	586 16-Jul-10 A	05-Dec-13					!			SA23 Works	i	
SA230010	Site Area SA23 Works Completion	203	0%	0	05-Dec-13							Site Area	SA23 Works	Completion	
South Bou	ınd													1	
Preliminarie	es									 		1	 	 	1
S23S0000	Site Clearance / Site Access	10	92.5%	144 28-Dec-11 A	07-Aug-13		1	,	e Clearance / Site			1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	
S23S1000	Site Clearance		100%	72 28-Dec-11 A	27-Dec-12 A							 	7		
S23S2000	Site Access	10	85%	72 28-Dec-12 A	07-Aug-13	1	1	Site	Access					1 1 1	
Slopeworks	S				'							1		1 1 1	
S21N2638	Slopeworks Fill (S27)		100%	99 29-Nov-12 A	24-Jan-13 A					!			1	1	
S21N26381	Slopeworks Fill (S27) - Stage 1, +45mPD		100%	33 29-Nov-12 A	07-Dec-12 A		1			 			! ! !	! ! !	
S21N26382	Slopeworks Fill (S27) - Stage 2, +50mPD		100%	33 08-Dec-12 A	31-Dec-12 A							- <del> </del>			
S21N26383	Slopeworks Fill (S27) - Stage 3, +55mPD		100%	33 04-Jan-13 A	24-Jan-13 A										
Landscapin	ng			l l	<u> </u>									1	
	Landscaping Works	-40	0%	50 07-Oct-13	05-Dec-13							Landsca	ing Works	1	
Site Area S	SA24									i 1 1		1	i !	i 1 1	
PHSA2410	Possession of SA24 (Day180)		100%	0 04-May-10 A							<del>-</del>			<u>.</u>	
SA240000	Site Area SA24 Works Period	-47	83.12%	788 04-May-10 A	05-Dec-13		-		!	!	!	Site Area	SA24 Works	Period	 
SA240010	Site Area SA24 Works Completion	203	0%	0	05-Dec-13				1		1		SA24 Works	į	1
	·	_30	0 /0		33 200 10						1	. J GILO AI GE	1	Sompletion	
North Bou											1			1	
Preliminario			1000/	00 05 A 40 A	00 Dec 40 A								<del></del>	<u> </u>	-
	Site Clearance/Access Rd		100%	89 25-Aug-10 A	09-Dec-10 A				!		: ! !			: 1 1	
S24N0010	Site Clearance		100%	72 25-Aug-10 A	19-Nov-10 A									1	
S24N0020	Access Road		100%	72 07-Sep-10 A	09-Dec-10 A						: !			1 1	
Slopeworks				.=.							:			! !	
S24N5000	Slopeworks Cut(S31A)		100%	150 01-Jun-11 A	25-Nov-11 A							- <del> </del>	ļ 	ļ Ļ	
S24N5010	Slopeworks Cut (S31A) & Soil Nail: Stage 1 (Upper +80mPD)		100%	60 01-Jun-11 A	06-Aug-11 A									4	

Activity ID	Activity Name	Total	Activity %	Original Start	Finish			2013				2	014	
cuvity ib	Activity Name	Float	Complete	Duration	i ilisii	41 42	Q3 43	44	45	Q4 46	47		Q1 49	50
S24N5020	Slopeworks Cut (S31A) & Soil Nail : Stage 2 (Lower +72mPD)		100%	60 08-Aug-11 A	22-Oct-11 A	7. 12	1 70	1 77	1	70	72		10	
S24N5030	Slopeworks Cut (S31A) : Shortcreting		100%	30 24-Oct-11 A	25-Nov-11 A		1 1 1	1	1 1 1		 	 	1 1 1	
S24N5810	Erect Scaffolding & Soil Nail Installation (Area 4)		100%	60 19-Mar-13 A	08-May-13 A	Scaffolding & Soil Nail Insta	Ilation (Area 4	.)	1 1 1			 		
S24N5831	Slope Reinstatement Works (Bridge 12ASA incl. VO74)	24	45%	75 30-Apr-13 A	19-Sep-13		!	SI	ope Reinstate	ment Works (Br	idge 12ASA ir	nd. VO74)	1	
Constructi	on of Retaining Wall		·						     					
Retaining \	Wall W56B-2 (Bay 12) (AD)				The state of the s		1					i ! !	1	
S24N2110	Prepare Piling Platform for W56B-2		100%	24 02-Oct-10 A	07-Feb-11 A		1		1 1 1		1	 	1	
S24N2120	Pre-drilling for W56B-2		100%	18 28-Oct-10 A	18-Nov-10 A				1 1 1			 		
S24N2130	Retaining Wall W56B-2		100%	255 21-Jan-11 A	01-Dec-11 A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!	1		1	 		
S24N2140	Piles for W56B-2 (Stage 2)		100%	75 21-Jan-11 A	23-Sep-11 A				- <del> </del>				·	
S24N2150	Excavation, upper		100%	75 26-Sep-11 A	13-Jan-12 A				1					
S24N2152	Excavation, Middle		100%	60 26-Sep-11 A	19-Apr-12 A		1 1 1	1			1	 	1	
S24N2155	Excavation, Bottom		100%	75 11-May-12 A	26-Jul-12 A		1		1 1 1		1	 	1	
S24N2160	Construction of Base Slab (Bay 12)		100%	75 27-Jul-12 A	25-Aug-12 A				1 1 1			 		
S24N2162	Retaining Wall Structure (Bay 12B)		100%	40 01-Oct-12 A	23-Nov-12 A					1				
S24N2170	Drainage & Backfilling W56B-2		100%	75 27-Feb-13 A	22-May-13 A	Drainage & Backfilling W56	6B-2	 	1 1 1		1	 		
Retaining \	Wall W57A			<u> </u>										
S24N2200	Construction of W57A	-59	96%	35 26-Jun-13 A	27-Jul-13		Constructio	n of W57A						
S24N2202	Construction of Structure W57A (W57B - bay1 to bay2)		100%	20 26-Jun-13 A	23-Jul-13 A		Construction (	of Structure W	57A (W57B - I	bay1 to bay2)				
S24N2203	Backfilling	-59	80%	7 22-Jul-13 A	27-Jul-13		Backfilling			1				
Retaining \	Wall W57B (AD 2)						1	1	1 1 1		1	1 1 1	1	
	Prepare Piling Platform for W57B		100%	18 11-Jan-11 A	31-Jan-11 A				1 1 1			 		
S24N2320	Pre-drill for W57B		100%	20 01-Apr-11 A	13-Apr-11 A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!	1		1			
S24N2330	Piles for W57B		100%	45 01-Apr-11 A	14-May-11 A				1					
S24N2340	Excavate at W57B		100%	75 26-May-11 A	23-Aug-11 A									
S24N2360			100%	75 19-Apr-12 A	11-Dec-12 A				1				1	
S24N2370	Backfilling & Drainage W57B	-60	97%	60 25-Jan-13 A	27-Jul-13	1	Backfilling 8	k Drainage W5	7В	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	 	1	
	Wall W57C, (CSD 2)								1 1 1			 		
S24N2402	Pre-drilling for W57C		100%	20 26-Mar-11 A	19-Apr-11 A				1					
S24N2404	Piles for W57C		100%	45 01-Apr-11 A	14-May-11 A				- <del> </del>					
S24N2407			100%	75 26-May-11 A	23-Aug-11 A				i 1 1					
S24N2408	Retaining Wall, W57C		100%	75 19-Apr-12 A	13-Dec-12 A		1 1 1	1	1 1 1		1 1 1	1 1 1	1	
S24N2420		-60	97%	54 25-Jan-13 A	27-Jul-13	- 1	Backfilling 8	: & Drainage for	W57C			 	1 1 1	
Retaining \	Wall RWB12A			<u> </u>					1 1 1			 		
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	-			1					
S24N1517	Piles Load Test		100%	36 26-Nov-11 A	10-Jan-12 A		1 1 1				1	 	1	
S24N1520			100%	60 23-Apr-12 A	17-Apr-13 A	Base Slab, RWB12A	1	!	1 1 1		1	 	1	
S24N1522	Construction of Wall, RWB12A		100%	40 18-Apr-13 A	07-Jun-13 A	Construction of Wall	. RWB12A		- <del> </del> - <del> </del> 	1 1 -				
S24N1530			100%	20 09-May-13 A	25-Jun-13 A	Backfilling	, , , , , , , , , , , , , , , , , , , ,	!	1		1			
S24N1540	Construction the wing slab of RWB12A	-35	0%	30 24-Aug-13	30-Sep-13	- Jacon ming	_		Construction	hn the wing slab	of RWB124	 	1 1 1	
	s, Drainage & Utilities	30	0 / 0	20 E17 (ag 10	30 30p 10		-			in and ming stub			1	
S24N4000	Roadworks, Drainages & Utilities (ch3140-3400, exclude B12A)	-40	0%	109 27-Jul-13	05-Dec-13	<b>-</b>	İ	!	1 1 1		n Boadworks	, Drainages & U	tilities (ch	13140-34
S24N4000	Road and Drainage Works	-60	0%	10 27-Jul-13	08-Aug-13		Road	and Drainage	Works	1		., <u></u>		
S24N4015 S24N4025	Road Surface Works for Mid and Slow Lane	-60	0%	14 08-Aug-13	24-Aug-13	-	i	1	1	d and Slow Lan	e	 	1	
S24N4025 S24N4026	TTA - Stage 4B-3	-60	0%	0 00-Aug-13	24-Aug-13 24-Aug-13	-	!	TTA - Stage 4	1	and Glow Lall		1 1 1	1 1 1	
S24N4026 S24N4035	Road Construction Fast Lane and Remaining Works (along CH3140 - 3400)		0%	50 08-Oct-13	05-Dec-13	_	•	lina - Glage 2			Boad Cope	truction Fast La	ne and D	amainin a
324114033	11000 Oction details and tremaining Works (along Orio140 - 3400)	+0	0 /0	00-001-13	00 Dec-19		1	!			I IOau CUIIS	u doudii i dol Ld	and and me	

tivity ID	Activity Name	Total	Activity %	Original Start	Finish					2	2013					2014	
,		Float	Complete	Duration	1	41		42	Q3 43		44	45	Q4 46	47	48	Q1 49	50
Landscapir	ng					41		42	43		44	45	40	41	40	43	30
	Landscaping Works	-40	0%	50 08-Oct-13	05-Dec-13										aping Works		
Site Area S	6A25														1	1	i 
PHSA2520	Possession of SA25 (Day270)		100%	0 04-May-10 A			-										1 1 1
SA250000	Site Area SA25 Works Period (incl, Provision of hoarding at site boundary	212	83.9%	770 04-May-10 A	26-Nov-13		- 1			-		1		Site Area S	A25 Works Pe	; eriod (incl, F	Provision of h
SA250010	Site Area SA25 Works Completion	212	0%	0	26-Nov-13									Site Area S	A25 Works Co	mpletion	1
SA250020	Temporary Traffic Management (Detail shall refer to supplementary inform	170	86.54%	765 04-May-10 A	26-Nov-13									■ Temporary	Traffic Manag	ement (Det	ail shall refer
SA250030	Overall Utility Diversion (Detail shall refer to supplementary information)	170	86.54%	765 04-May-10 A	26-Nov-13							İ		Overall Util	ity:Diversion (	Detail shall i	refer to suppl
South Bou				,											,	1 1	
Preliminario							-										1 1 1
S25S0000	Site Clearance/Access Rd (ch3400-3600)		100%	97 20-Oct-10 A	16-Feb-11 A							1			!	1 1 1	1 1 1
S25S0010	Site Clearance (ch3400-3600)		100%	75 20-Oct-10 A	18-Jan-11 A												· <del> </del>
S25S0020	Access Road (ch3400-3600)		100%	75 15-Nov-10 A	16-Feb-11 A	-											
Slopeworks	<u> </u>		10070	10 1101 1011	10 1 00 1111												
S25S5000	Slopeworks Fill(S30A)		100%	60 15-Oct-12 A	10-Nov-12 A		1					1 1 1					1 1 1
S25S5000 S25S5010	Slopeworks Fill (S30A) - Stage 1: +53.5mPD		100%	30 15-Oct-12 A	30-Oct-12 A	_	i ! !			!		1 1 1	!		1	 	1 1 1
S25S5010 S25S5020	Slopeworks Fill (S30A) - Stage 2: 55.8mPD		100%	30 31-Oct-12 A	10-Nov-12 A								- <del>1</del>				·
S25S5020 S25S5110	Slope Reinstatement Works (Bridge 13A)	-32	0%	25 28-Aug-13	26-Sep-13	-	-					Slope Rein	tatement W	; orks (Bridge 1	3 4/		1 1 1
S25S5110 S25S5140	Slope Reinstatement Works (Bridge LB1)	-32	0%	25 27-Sep-13	28-Oct-13	_	-			!		Slope nem		1	orks (Bridge L	21)	1 1 1
S25S5140 S25S5150	Slope Reinstatement Works (S30A)	-32		25 27-3ep-13 25 29-Oct-13	26-Nov-13	_					•	1	Slope nei	1	statement Wo	1	1
		-32	0%	25 29-001-13	26-INOV-13									Slope Rem	statement vvo	IKS (530A)	1
	on of Retaining Wall																·
	Vall W58B, (CSD 2)		1000/	05 04 Nov. 40 A	00 Nov. 10 A	_											
	Site Formation		100%	25 01-Nov-10 A	30-Nov-10 A	_			1			i 1 1				i ! !	i ! !
S25S2030	Excavate to cut-off level		100%	10 01-Nov-10 A	31-Dec-10 A	_	-					1		1		 	1 1 1
S25S2050	Construction of Structure W58B		100%	75 13-May-11 A	15-Sep-12 A	_	-										1 1 1
S25S2060	Backfilling		100%	45 05-Nov-12 A	08-Feb-13 A												
	onstruction Works, Roadworks & Drainage				22.1.1.2				<u> </u>						1	1	1
S25S4000	Roadworks, Drainages & Utilities (CH 3400 - 3600)	273	100%	109 27-Feb-13 A	26-Jul-13				;		ages & L	Jtilities (CH 3	400 - 3600)				!
S25S4025	Road Works for Mid and Slow Lane		100%	60 27-Feb-13 A	03-Jun-13 A	Road	Works to	or Mid a	and Slow La	ane							
S25S4030	Drainages Works		100%	60 04-Mar-13 A	19-Apr-13 A	rk\$											
S25S4040	Road Surface for Mid and Slow Lane		100%	10 31-May-13 A	21-Jun-13 A		Road		for Mid and			-					
S25S4060	Removal of existing central barrier and forming temporary road (CH 3350		100%	12 24-Jun-13 A	09-Jul-13 A			l Remo	val of existi	ing centra	al barrier	and forming	1	oad (CH 3350		 	1 1 1
S25S4070	Road Construction and Remaining Works (along CH 3400 - 3600)	-20	0%	30 08-Oct-13	12-Nov-13	_	-			1				ad Constructio	n and Remain	ing Works (	along CH 340
S25S4200	Slip Road H	15	0%	50 02-Aug-13	30-Sep-13							Slip Road	H			1	1
	ers & Road Barriers																
Noise Barri																	<del> </del>
S25S3000	Construct Noise Barrier & Beam Barrier, NB34		100%	95 13-Nov-12 A	04-Feb-13 A											1	1
S25S3010	NB34 : Foundation Works		100%	36 13-Nov-12 A	03-Jan-13 A		-							1		 	1 1 1
S25S3020	NB34 : Installation of H-column & Panel		100%	36 23-Jan-13 A	04-Feb-13 A		-			!							1 1 1
	trol & Survelance System						!					1 1 1					1
S25S4810	TCSS - Stage 1 (Bridge 13A)		100%	30 08-Apr-13 A	25-May-13 A	TCSS - S	age 1 (E	Bridge 1	3A)			; 				 	
Site Area S	SA26											1 1 1				; ; ;	: 1 1 1
PHSA2620	Possession of SA26 (Day0)		100%	0 26-Feb-10 A								1 1 1				1 1	1 1 1
SA260000	Site Area SA26 Works Period	-72	86.92%	1216 26-Feb-10 A	31-Dec-13	-	1		:			i	1		Site Area	SA26 Work	s Period
SA260010	Site Area SA26 Works Completion	-72	0%	0	31-Dec-13							1 1 1			Site Area	SA26 Work	s ¢ompletion
SA260020	Temporary Traffic Management (Detail shall refer to supplementary inform	-60	86.67%	983 26-Feb-10 A	31-Dec-13	!	1		1	!		1	!	!		y Traffic Ma	nagement (D
	Overall Utility Diversion (Detail shall refer to supplementary information)	-60	86.67%	983 26-Feb-10 A	31-Dec-13	1							- †			ility Diversio	n (Detail sha

Activity ID	Activity Name	Total	Activity %	Original Start	Finish			20	13				2014
•		Float	Complete	Duration		41	42	Q3 43	44 45	Q4 46	47	48	Q1 49 50
SA260040	Additional work to existing ball valves, HKCG	19	0%	52 26-Jul-13	25-Sep-13					work to existing			
North Bou	nd						! ! !				1		
Preliminario	es												
S26N0000	Site Clearance/Access Rd (Tai Wo Road)		100%	150 26-Feb-10 A	28-Aug-10 A								
S26N0010	Site Clearance (Tai Wo Road)		100%	75 26-Feb-10 A	31-May-10 A		i !		<del> </del>	<del>-</del>	· †		:
S26N0020	Access Road (Tai Wo Road)		100%	75 01-Jun-10 A	28-Aug-10 A					1	1 1 1 1 1 1		
Slopeworks	S									1	1 1 1 1 1 1		
S26N5000	Slopeworks Cut(S31A-sn)		100%	150 01-Jun-11 A	25-Nov-11 A					1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S26N5010	Slopeworks Cut(S31A-sn) - Stage 1 (Upper +65mPD)		100%	50 01-Jun-11 A	06-Aug-11 A						1 1 1 1		
S26N5020	Slopeworks Cut(S31A-sn) - Stage 2 (Middle +60mPD)		100%	50 08-Aug-11 A	22-Oct-11 A						· <del> </del> 		
S26N5030	Slopeworks Cut(S31A-sn) - Stage 3 (Lower +55mPD)		100%	50 24-Oct-11 A	25-Nov-11 A				1		1 1 1 1		
S26N5040	Remaining Works of S31A	-14	0%	40 16-Sep-13	05-Nov-13				1	Remaini	់ ng Works of S	31A	
Construction	on of Retaining Wall												
Retaining V					<u></u>								
			100%	286 01-Mar-12 A	22-Mar-13 A	(w/SP)	<del> </del>				· <del> </del>		·
S26N2002	· · ·		100%	60 01-Mar-12 A	04-Jun-12 A						1 1 1 1 1 1		
S26N2004	W59: Wall of Bay 1-3		100%	60 02-Jul-12 A	24-Dec-12 A						1 1 1 1 1		
S26N2006	W59: Base Slab & Wall of Bay 9-12a		100%	56 19-Apr-12 A	12-Jan-13 A	<b>-</b>	!				1 1 1 1		
S26N2008	W59: Excavation + Soil Nail for Bay 4-8		100%	45 19-Apr-12 A	09-Jul-12 A						1 1 1		
S26N2012	W59: Base Slab of Bay 4-8		100%	40 16-Jul-12 A	24-Dec-12 A		ļ				· <del> </del>		
S26N2012	W59: Wall of Bay 4-8		100%	75 27-Aug-12 A	02-Feb-13 A					1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S26N2014 S26N2020	Backfilling		100%	24 23-Apr-12 A	22-Mar-13 A	_					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	<u> </u>		100%	24 23-Apr-12 A	22-IVIAI - 13 A				1		1		
	s, Drainage & Utilities	40	00/	00 00 4 10	05 D				1		Decilor	l'a Basinana	0.11888 (-)-0400.07
S26N4000	Roadworks, Drainages & Utilities (ch3400-3720)	-40	0%	98 09-Aug-13	05-Dec-13								& Utilities (ch3400-37
S26N4035	Removal of existing paving	-34	0%	7 09-Aug-13	17-Aug-13			Removal	of existing paving				
S26N4055	Road and Drainage Works for Slow and Mid Lane	-34	0%	25 17-Aug-13	16-Sep-13				Road and Drain	Ţ	1	Lane	
S26N4065	Road Surface for Slow and Mid Lane	-34	0%	10 16-Sep-13	28-Sep-13				Road Sur	face for Slow ar	1		
S26N4075	Road Construction Fast Lane and Remaining Works (along CH3400 - 3720)	-40	0%	50 08-Oct-13	05-Dec-13					!	Road Co	nstruction Fas	Lane and Remaining
	trol & Survelance System						¦ 				<del> </del>	¦	
S26N4810	TCSS - (15m High mast M9), (SEC Poles SC24/ S24) & (Gantry 24) (incl	-14	0%	40 16-Sep-13	05-Nov-13					TCSS -	(15m High mas	st M9), (SEC P	oles SC24/ S24) & (C
Modificatio	n of Existing Bridge										1		
Modificatio	n of Existing Bridge 13						i !				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S26N1200	VO 27: Temporary access and lighting for inspection on Bridge Deck interi		100%	10 02-Jan-12 A	17-Jan-12 A		!				1		
S26N1210	Construction of Temporary Pier supports & Installation of Jacks	-60	2.24%	134 22-Jul-13 A	31-Dec-13		_		!	1	1	Construction	n of Temporary Pier s
S26N1260	Removal of existing central barrier along B13, Erection breaking platform a	-60	10%	14 22-Jul-13 A	09-Aug-13		_	Removal of e	existing central barr	ier along B13, E	rection breaki	ing platform ar	d re-construction of e
S26N1270	Breaking the existing stitch of B13 and conditional survey	-60	0%	25 27-Jul-13	24-Aug-13			Breaki	ng the existing stito	h of B13 and c	nditional surv	<b>e</b> y	
S26N1330	Removal existing M.J, Bridge Jacking and replacement bearing & M.J	-60	0%	35 26-Aug-13	07-Oct-13				Remo	val existing M.	J, Bridge Jacki	ng and replace	ment bearing & M.J
S26N1340	TTA - Stage 4B-4	-60	0%	0	07-Oct-13				♦ TTA -	Stage 4B-4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S26N1350	Stitch Works for B13	-60	0%	35 08-Oct-13	18-Nov-13					St	tch Works for	B13	
S26N1360	Road Surfacing and Road Diversion	-60	0%	35 19-Nov-13	31-Dec-13		i		<del>-</del>		i	Road Surfac	sing and Road Divers
Landscapir	ng	1		1							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S26N6040	Landscaping Works (CH3400 - 3720)	-34	0%	50 28-Sep-13	28-Nov-13					i 	Landscaping	Works (CH3	100 - 3720)
South Bou	ind										1 1 1		
Preliminario											1 1 1 1		
S26S0000	Site Clearance/Access Rd (Tai Wo Road)		100%	129 26-Feb-10 A	04-Aug-10 A						. <del> </del>		·
S26S10	Site Clearance (Tai Wo Road)		100%	80 26-Feb-10 A	05-Jun-10 A				i 1 1		1 1 1 1		
S26S20	Access Rd (Tai Wo Road)		100%	80 29-Apr-10 A	04-Aug-10 A				1		1 1 1		
			100 /6	20 7.01 10 7.	o . Aug To A				1 1 1		1 1 1 1 1		i !
Slopeworks	S						1		<u> </u>	i I	1	1	<u> </u>

Activity ID	19 Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
Activity ID	Activity Name	Float	Complete	Duration	i ilisii	41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
S26S500	0 Slopeworks Fill(S32)	-48	0%	24 18-Feb-13 A	05-Oct-13		-			L -	ks Fill(S32)	<u> </u>	70	73	30
S26S50	0 Slopeworks Fill (S32) - Stage 1 (Lower +42mPD)		100%	20 18-Feb-13 A	30-May-13 A	Slopewo	rks Fill (S32)	-Stage 1 (Lov	wer +42mPD)		÷		-i		
S26S502	Slopeworks Fill (S32) - Stage 2 (Upper +45mPD)	-48	10%	20 08-Jun-13 A	05-Oct-13		1	1	1	Slopewor	ks Fill (S32)	Stage 2 (Upp	er +45mPD)		
S26S51	0 Slope Reinstatement Works (besides LB3)	24	0%	24 04-Mar-13 A	18-Sep-13	-	!	!	Sle	ope Reinstate	nent Works (	besides LB3)			
S26S512	Slope Reinstatement Works (besides LB3) - Lower: below +24mPD	24	50%	20 04-Mar-13 A	26-Aug-13		<u> </u>		Slope Reins	tatement Work	s (besides L	B3) - Lower: b	elow +24mPD		
S26S513	O Slope Reinstatement Works (besides LB3) - Upper: above +24mPD	24	0%	20 27-Aug-13	18-Sep-13				Slo	ope Reinstate	nent Works (	besides LB3)	Upper: above	+24mPD	
Constr	ction of Retaining Wall		<u>'</u>								1				
Retaini	ng Wall RWTW1, (CSD 1)														
S26S12	89 Pre-drilling for RWTW1 part 1		100%	11 26-May-11 A	08-Jun-11 A						i !				
S26S12	90 Construct RWTW1N & RWTW1S	-47	90.77%	325 26-Nov-11 A	29-Aug-13	1	1	!	Construct F	RWTW1N & R	WTW1S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
S26S13	91 Temp. Working Platform		100%	30 26-Nov-11 A	17-Dec-11 A				 						
S26S13	92 Construction of Structure (mini piles)		100%	60 04-Jan-12 A	31-Jan-12 A										
S26S13	Construction of Structure (part 1, Half of North & South RW)		100%	50 29-Dec-11 A	17-Feb-12 A										
S26S13	95 Backfilling (part 1, Half of North & South RW)		100%	30 18-Feb-12 A	23-Feb-13 A	h RW)					1		i : : : : : : : : : : : : : : : : : : :		
S26S14	01 ELS Works, Excavation and Protection Existing Gas Main		100%	20 25-Mar-13 A	21-Jun-13 A	-	i i	1 1	nd Protection Ex	i	i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
S26S14	02 Construction of Structure (part 2, Remaining RW )		100%	35 19-Apr-13 A	17-Jul-13 A	i		onstruction o	of Structure (part	2, Remaining	RW)				
S26S14	03 Backfilling (part 2, Remaining RW)	-47	20%	15 21-Jun-13 A	08-Aug-13		:	Back	kfilling (part 2, R	emaining RW)					
S26S14	04 Roadworks	-47	0%	18 09-Aug-13	29-Aug-13				Roadworks	3					
Retaini	ng Wall RWTW2, (CSD 1)								!			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
S26S13	79 Pre-drilling for RWTW2		100%	12 12-Jan-11 A	25-Jan-11 A							1			
S26S13		-37	96.71%	609 26-May-11 A	17-Aug-13			F	Piling/Excavate &	& Construct R\	WTW2				
S26S13	Minipile Piling works, Stage 1 (Half Bay 1)		100%	50 26-May-11 A	24-Sep-11 A										
S26S13	Piling platform for Stage 2 (Bay 2-4)		100%	9 19-Apr-12 A	04-Jun-12 A										
S26S13	83 Minipile piling works, stage 2 (31 nos.)		100%	58 04-Jun-12 A	08-Aug-12 A				i !		1			1	
S26S13	Base slab of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	75 26-Nov-11 A	10-Nov-12 A										
S26S13	86 Wall of RWTW2 (stage 1 & 2: half Bay1 & Bay 2-4)		100%	48 12-Nov-12 A	22-Jan-13 A								1		
S26S15	20 Construction of Remain of RWTW2 (stage 3: Remaining Half Bay 1, Conn		100%	50 18-Feb-13 A	04-Jun-13 A		1	1 :	/2 (stage 3: Ren	naining Half Ba	y 1, Connec	tion to LB2)			
S26S15	<u> </u>		100%	20 02-May-13 A	18-Jun-13 A	-	Backfilling of	RWTW2	 			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
S26S15		-37	0%	20 26-Jul-13	17-Aug-13			F	Roadworks					1	
Retaini	ng Wall RWTW3, (VO)														
S26S13	89 Pre-drilling for RWTW3		100%	12 28-Dec-10 A	11-Jan-11 A						; ;		i   		
S26S13		-41	96.61%	708 01-Aug-11 A	22-Aug-13	1	1	1	Pilling/Excavat	e & Construct	RWTW3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
S26S15			100%	24 01-Aug-11 A	23-Sep-11 A									1	
S26S15			100%	24 28-Dec-11 A	28-Jan-12 A				i !		1			 	
S26S15			100%	20 03-Jul-12 A	31-Jul-12 A				 	1	1	1		; ; ;	
S26S15	<u> </u>		100%	60 20-Aug-12 A	10-Nov-12 A							ļ 			
\$26\$18  \$26\$18 <b>Retaini</b> \$26\$18  \$26\$18	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		100%	60 17-Sep-12 A	14-Jan-13 A									1 1 1	
S26S16			100%	25 22-Jan-13 A	12-Apr-13 A	ary cut to slo	1				: !			1	
S26S16			100%	40 13-Apr-13 A	17-Jun-13 A		′U 51.1: Rock	fill Slope (Ba	y 1 -Bay 7)	1	1	1		1	
S26S16			100%	40 12-Nov-12 A	12-Dec-12 A					5	 	1		1 1 1	
S26S16	<u> </u>	-41	50%	20 19-Jun-13 A	06-Aug-13			VO 5	1.1: Remaining		FR3				
S26S16		-41	20%	30 26-Jun-13 A	22-Aug-13		-	1	VO 51.1: Road	works				1	
Retaini	ng Wall RWTW3A		22.5=::	100 21 2 1 2	00.4									1	
S26S16	14 Construction of RWTW 3A	59	92.85%	168 01-Oct-12 A	08-Aug-13		į	Cons	struction of RW1	IW 3A				: 	
S26S16			100%	32 01-Oct-12 A	15-Nov-12 A									1 1 1	
S26S16			100%	25 16-Nov-12 A	24-Nov-12 A	notario Di	A/T\A/ OA	·		-		<u> </u>			
			100%	70 26-Nov-12 A	27-Apr-13 A	nstruction R	1		; ; ;		1	1		 	
S26S16	58 Backfill RWTW 3A		100%	20 06-May-13 A	15-Jun-13 A	i B	ackfill RWTW	SA	!	1	! !	1	i i	1	

		20	1	· · · · ·		<b>1</b>				2012					0014	
Activ	vity ID	Activity Name	Total Float	Activity % Complete	Original Start Duration	Finish		Q3	3	2013		Q4			2014 Q1	
	S26S1668	Roadworks	59	60%	30 26-Jun-13 A	08-Aug-13	41 42	43	padworks	44	45	46	47	48	49	50
Н		Vall W60 & W61A (CSD 2)	39	00 /8	30 20-3011-13 A	00-Aug-13			Jauwoji Ks	• !	! ! !	1 1 1			1	1
Н		Pre-drilling for W60 & W61A		100%	7 06-May-11 A	24-Jun-11 A	_			!	1 1 1				1	1
Н		Mini Piles for W60 & W61A		100%	30 15-Jun-11 A	20-Aug-11 A							. <u> </u>		<u> </u>	
Н		Excavation		100%	50 19-Apr-12 A	25-Aug-12 A	— I			i	1 1 1	1				1
Н		Construct Cap & Wall		100%	52 06-Jun-12 A	31-Aug-12 A	_		 		 				1	
Н		Backfilling		100%	30 04-Sep-12 A	10-Apr-13 A	-				! ! !					
Н		Bridge bet. RWTW2 & RWTW1		10070	00 01 000 1271	1071071										
Н		TTA Stage 5		100%	0 27-Sep-12 A						; L !		<u>.</u>			
Н		onstruction Works, Roadworks, Drainage & Utilities		10070	0 = 7				 		 				 	1
Н	S26S4000	Roadworks, Drainages & Utilities (Landing between B13A & B15A within C		100%	62 18-Feb-13 A	21-Jun-13 A	Roadworks, D	raina des 8	₹ Utilities	(Landing l	between B13	↓ BA & B15A wit	hin CH 3600	- 3720)	1	1
Н	S26S4002	Removal of existing paving of landing area		100%	12 18-Feb-13 A	09-Apr-13 A	paving of landing area			(=a						
Н	S26S4005	Road Works		100%	25 10-Apr-13 A	31-May-13 A	Road Works				1 1 1					1
Н	S26S4006	Drainages Works		100%	15 23-Apr-13 A	30-May-13 A	Drainages Works				; L		<u>.</u>			
Н		Road Surface Works (incl. VO14: Revised Layout of Police Observation Pl		100%	10 01-Jun-13 A	21-Jun-13 A	Road Surface	Works (in	d. VO14	: Revised	avout of Po	lice Observat	¦ ion Platform a	t CH3700 )	1	1
Н		ers & Road Barriers		10070	10 01 001 1071	21 00 1071									1	1
	Noise Barri										! !	1				: : :
Н		Construct Noise Barrier & Beam Barrier, NB35		100%	60 15-Mar-13 A	18-Jun-13 A	Construct Noise	; e Barrier &	k Beam E	Barrier. NB	35	1				1
Н		Construct Noise Barrier : foundation Works. NB35		100%	30 15-Mar-13 A	11-May-13 A	truct Noise Barrier : founda	!								! !
Н		Construct Noise Barrier : Installation of H-coulmn & Panel NB35		100%	7 17-May-13 A	18-Jun-13 A	Construct Noise	i	i	į	ulmn & Pane	NB35			1 1 1	
Н		Remaining Works of NB35	-48	0%	10 31-Aug-13	12-Sep-13				i	ining Works	i				1
Н		trol & Survelance System	1													
Н	S26S4800	TCSS	-13	84.27%	57 12-Mar-13 A	05-Aug-13		TCS	ss	! ! !	1 1 1 1	1				1
Н	S26S4810	TCSS - Stage 1 (LB1) (VSLS Pole P55)	54	95%	30 12-Mar-13 A	12-Aug-13		Т	rcss - s	tage 1 (LB	1) (VSLS Po	.¦ lė P55)	- <del> </del>		 	L
Н	S26S4820	TCSS - Stage 1 (LB2)	-28	30%	15 15-Jul-13 A	07-Aug-13		i	i	ge 1 (LB2)		1			1	1
Н	S26S4830	TCSS - Stage 1 (LB3), (Gantry G101) (incl. VO73 Revised Sign Gantry Det		70%	30 10-Jun-13 A	05-Aug-13		i	i		l	; 1) (incl. VO73	; B:Revised Sia	∷ n¦Gantry Deta	ls)	!
Н	Landscapir					ŭ ,										1
Н	S26S6000	Landscaping Works	-48	0%	60 05-Oct-13	16-Dec-13			1	! ! !		1 1 1	Lan	dscaping Wo	ks	1 1 1
Н	S26S6010	Landscaping Works - Stage 1, East of B13A	-48	0%	30 05-Oct-13	11-Nov-13						Land:		s - Stage 1, E	-	L
Н	S26S6040	Landscaping Works - Stage 2, West of B13A	-48	0%	30 11-Nov-13	16-Dec-13					 		1	dscaping Wo	i i	West of B1
1	Middle Lar	1 2														
		onstruction Works, Roadworks & Drainage						1 1 1	; ! !		 	1		1	1	1
Н	S26S4014	Removal of existing paving (CH3400 - CH3720)	-10	0%	25 26-Aug-13	24-Sep-13			-	;	: Removal of e	: xistina pavino	CH3400 - C	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1 1 1	! ! !
Н	S26S4019	Road Works and Surface Works (CH3400 - 3720)	-10	0%	30 25-Sep-13	31-Oct-13						. i	. ļ	e Works (CH	.¦ 3400 - 3720)	1
Ш		on of Bridge 12B														
	S22S1310	Construction of Bridge 12B		100%	367 15-Apr-10 A	20-Jul-13 A		onstructio	n of Brid	lae 12R	 	1 1 1			 	1
Н		ry and Enabling Works		10070	307 13 Apr 10 A	20 001 10 7		, charactio		ige izb	 	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	S22S1210	Prepare Piling Platform		100%	38 15-Apr-10 A	31-May-10 A		 	!	!		1				
Ш	S22S1210 S22S1220	Pre-drilling Works		100%	26 15-Apr-10 A	15-May-10 A					 				: 	<u> </u>
				100 /6	20 10 Apr-10 A	10 May 10 A		 			 	1 1 1			1	
	S22S1230	ion Works of Bridge 12B Socketed H-Pile (B12BP8)		100%	62 01-Jun-10 A	13-Aug-10 A		 	1 1 1	ļ	1 1 1 1	1 1 1			1 1 1	1
	S22S1230 S22S1250	Modify Pile caps & Additional Foundation (B12BP8)		100%	101 02-Jul-10 A	30-Oct-10 A				!		1				
	S22S1250 S22S1251	Excavation & ELS Works	-	100%	36 02-Jul-10 A	12-Aug-10 A	_	!	 	 						
	S22S1251 S22S1260	VO 17.1: Modify Pilecap of Bridge 12, Pier 5, 6 & 7 (Deleted)			48 18-May-12 A	28-May-12 A					L	: : !	- <del> </del>			
	S22S1260 S22S1270	VO 17.1: Modify Pilecap of Bridge 12, Pier 5, 6 & 7 (Deleted)  VO 17.1: Modify Pilecap of Bridge 12, Pier 8 (Deleted)		100%	48 18-May-12 A 48 18-May-12 A	28-May-12 A	_	: ! !			 	1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	S22S1270 S22S1280	VO 17.1: Modify Pilecap of Bridge 12, Pier 8 (Deleted)  VO 17.2: Piling for C9		100%	24 26-Jul-11 A		-	i ! !			 	1 1 1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		-				20-Aug-11 A	_	 	 		 	1 1 1			 	1 1 1
	S22S1290	VO 17.2: Piling for C10		100%	20 26-Sep-11 A	08-Oct-11 A		 			! !	1	1		1	<u> </u>

Activity ID	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
, 12		Float	Complete	Duration		41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
S22S1340	VO 17.2: Pilecap construction of C9		100%	60 06-Mar-12 A	02-Jun-12 A	41	42	43	44	45	40	41	40	45	30
S22S1350	VO 17.2: Pilecap construction of C10		100%	54 01-Jun-12 A	21-Aug-12 A							<del>-</del>			1
S22S1400	VO 17.2: Backfilling & Site Formation		100%	24 11-May-12 A	05-Jan-13 A										1
S22S1410	VO 17.2: Pier Construction of C9 & C10		100%	94 01-Jun-12 A	20-Sep-12 A										
S22S1420	VO 17.2: Pier Construction of C9		100%	60 01-Jun-12 A	31-Jul-12 A										
S22S1430	VO 17.2: Pier Construction of C10		100%	75 28-Aug-12 A	13-Oct-12 A				i !	1					1
S22S1440	Construction of 12B North Abutment		100%	75 26-Aug-11 A	31-Oct-11 A							<del>1</del>			1
S22S1450	VO 17.2: Deck Construction (Bearings, Drainage & MJ inculded)		100%	179 20-Dec-12 A	20-Jul-13 A			VO 17.2: Dec	k Construction	(Bearings, I	; Draihage & M	J inculded)		1 1 1 1	1
S22S1460	VO 17.2: Scaffolding & Falsework		100%	35 20-Dec-12 A	28-Mar-13 A	alsework						1			1
S22S1470	VO 17.2: Deck Formwork, Steel Fixing and Concreting - C9 - C10 (Stage 1)		100%	65 14-Mar-13 A	12-Jul-13 A		vo	) 17,2: Deck Fo	ormwork, Steel	Fixing and	Concreting - (	C9 - C10 (Stage	1)		
S22S1480	VO 17.2: Deck Formwork, Steel Fixing and Concreting - NA to C9 (Stage 2)		100%	65 23-Mar-13 A	12-Jul-13 A		1		1	i		NA to C9 (Stage	1		
S22S1500	Stressing		100%	5 15-Jul-13 A	20-Jul-13 A			Stressing							
S22S1520	Parapet (Steel Barrier)	-48	0%	15 26-Jul-13	12-Aug-13		_	1 7	rapet (Steel Ba	ırrier)		1 1 1			1
S22S1540	Road surface & road work	-48	0%	14 13-Aug-13	28-Aug-13					ace & road w	ork	! ! !		1 1 1 1	1 1 1
		.0	0,0	11 10 7109 10	20 rtag 10							1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1
S24S1280	ion of Bridge 12A  Construction of Bridge 12A (incl. VO29 & VO37: revised piling details and	50	95.68%	451 25-Aug-10 A	17-Aug-13				Construction of	Pridge 12A	(in all MO20 8	VO37: revised	pilina dotoilo a	nd nilo oono	dooring
		52	93.00%	451 25-Aug-10 A	17-Aug-13			1			<b>`</b>		. , .		, 0
	ry and Enabling Works		1000/	40 05 Av. 40 A	11.001.10.4										
S24N1210	Site Clearance		100%	42 25-Aug-10 A	14-Oct-10 A										
S24N1220	Haul Road		100%	42 25-Aug-10 A	14-Oct-10 A		1		1	1 1 1		1 1 1		1	1 1 1
S24N1230	Gas main Diversion, HKCG		100%	55 25-Aug-10 A	22-Apr-11 A		1	1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1	1	1 1 1 1	1 1 1
S24N1240	11 KV Cable Diversion		100%	55 25-Aug-10 A	30-Oct-10 A							<del> </del>			
S24N1250	Telephone Cable Diversion		100%	55 25-Aug-10 A	30-Oct-10 A			1		 				1 1 1 1 1 1	1
	ure and Pier Construction											1			1
South Abut															
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			1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1		1 1 1 1	1 1 1
S24N1263	Piling (21nos)		100%	43 27-Nov-10 A	19-Jan-11 A		1	1		! ! !		! ! !		1 1 1 1	1 1 1
S24N1310	Excavation & Cap-South Abutment		100%	35 04-May-11 A	04-Jun-11 A			1		 		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1
S24N1360	Pier & backfill, South Abutment		100%	36 27-Jun-11 A	17-Aug-11 A			1		1 1 1		 			1 1 1
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				i ! !	i i i		1 1 1			1
Pier 2							1	1		 		! ! !		1 1 1	1 1 1
S24N1280	Piling-Pier 2 (15nos)		100%	38 02-Aug-10 A	15-Sep-10 A			1		1 1 1		1		1 1 1 1 1	1 1 1
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														: ! !	1
S24N1290	Piling-Pier 3 (15nos)		100%	38 16-Feb-11 A	27-Apr-11 A				1	1 1 1 1	 			1 1 1	1 1 1
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				1 1 1	1 1 1 1	1			1 1 1	1 1 1
North Abut															1
S24N1300	Pre-drilling & Preparation for Piling (incl. VO 39: Revised Foundation for N		100%	24 26-May-11 A	23-Jun-11 A					1		1			1
S24N1302	ELS for North abutment		100%	75 19-Jan-12 A	07-Nov-12 A							1			1
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	!	Abutment	, <b>D</b> rainage & b	ackfill, North Ab	outment		1			1
Decking a	nd Finishing									1	1		í	1	ĺ

A a sinciano ID	22	Takal	A - ti- site - O/	Out ain a	Chart	Finish				2013				2014	
ctivity ID	Activity Name	Total Float	Activity % Complete	Original Duration		Finish			Q3		Q4			Q1	
S24N1410	Deck-South Abutment to Pier 1		100%	60	07-Dec-11 A	26-Apr-12 A	41	42	43	44 45	46	47	48	49	50
S24N1410	Deck-Pier 1 to Pier 2		100%		23-Apr-12 A	30-Aug-12 A						1 1 1 1	1 1 1 1		1
						-						1 1 1 1	1 1 1 1	1 I	
S24N1430	Deck-Pier 2 to Pier 3		100%		02-Jun-12 A	22-Dec-12 A				 	<u> </u>	! ! !	1 1 J		<u>.</u>
S24N1434	Erection of Falsework		100%		29-Dec-12 A	22-Jan-13 A						1 1 1 1	1 1 1 1		
S24N1440	Deck-Pier 3 to North Abutment		100%		22-Jan-13 A	30-Apr-13 A	3 to North Ab	utment	<u>li</u> !			1 1 1 1	1 1 1 1		
S24N1444	Dismantling of Falsework	24	75%		14-May-13 A	02-Aug-13		i _		g of Falsework		1 1 1 1	1 1 1 1		
S24N1450	Parapet (icl, precast concrete skin)		100%		18-Feb-13 A	09-Jul-13 A		Para	apet (icl, precast c	1		1 1 1 1	1 1 1 1		
S24N1457	Erecting Railing (Short Column and barrier)	52	0%		26-Jul-13	06-Aug-13				Railing (Short Column and	1	! ! ! !	! ! !		
S24N1463	Noise Barrier (Erecting H-Column and Panel)	52	70%	15	06-Jun-13 A	31-Jul-13		1	Noise Barrie	er (Erecting H-Column and	Panel)	1 1 1 1	1 1 1		
S24N1470	Road Lighting	52	0%	12	31-Jul-13	14-Aug-13			Road	Lighting		1 1 1 1	1 1 1 1		1
S24N1480	Surfacing	52	0%	12	31-Jul-13	14-Aug-13		1	Surfac	ping		 	1 1 1		1
S24N1490	Inspection and Handover of Bridge 12A	52	0%	3	14-Aug-13	17-Aug-13			☐ Insp	ection and Handover of B	idge 12A	! ! !	! ! !		1
Constructi	ion of Bridge LB2										1	 	1 1 1		
S26S1200	Construction of Bridge LB2 (incl. VO29 & 37: revised piling details and pile	-48	95.12%	641	16-Apr-11 A	31-Aug-13				Construction of Bridge L	; B2 (incl. VO2	;9 & 37: revised	j piling details	and pile cap	s sleevir
Preparato	ry and Enabling Works				1							! ! !	1		1
S26S1205	Gas main Diversion at East Abutment (No Connection)		100%	15	24-Jan-13 A	28-Feb-13 A	t (No Connect	ion)				1 1 1 1	1 1 1		
S26S1215	Temporary Traffic Arrangement for Piling Work		100%		28-Dec-11 A	04-Jun-12 A						1 1 1 1	1 1 1 1		1
	ure and Pier Construction		10070	, ,	20 000 1171	01 0011 1271					! ! !	! ! !	! ! !		1
	ure and Fier Construction											¦ 	 		
TW4	Exercising and lateral average		1000/	0.0	05 May 40 A	00 hvs 10 A					!	! ! !	! ! !		1
S26S1203	Excavation and lateral support		100%		05-Mar-12 A	30-Jun-12 A		1			1	! ! !	! ! !		
S26S1204	Coring and backfill for Piling works		100%		02-Jul-12 A	28-Jul-12 A						! ! !	! ! !		1
S26S1212	Piling-TW4 (20)		100%		30-Jul-12 A	17-Oct-12 A						! ! !	! ! !		
S26S1217	Pile Load Test (1 Tension & 2 compression)		100%		31-Oct-12 A	22-Nov-12 A							; ; ; ;		
S26S1222	Cap-TW4 & Backfill		100%		23-Nov-12 A	05-Feb-13 A						! !	! !		-
S26S1225	Pier-TW4 Pier		100%	35	06-Feb-13 A	16-Mar-13 A						! !	! !		1
TW5												! !	! !		1
S26S1206	Els, coring and backfill for Piling works		100%	30	19-Jun-12 A	12-Oct-12 A						! !	! !		
S26S1210	Piling-TW5 (20)		100%	40	09-Nov-12 A	21-Dec-12 A						! !	! !		1
S26S1220	Cap-TW5 & Backfill		100%	24	23-Jan-13 A	22-Feb-13 A						1	)     		
S26S1227	Pier-TW5 Pier		100%	35	23-Feb-13 A	05-Mar-13 A						! !	! !		1
East Abutm	nent														1
S26S1214	Piling-East Abutment, Stage 1		100%	36	16-Apr-11 A	30-Jun-11 A					i i	! !	! !		1
S26S1218	Piling-East Abutment, (stage 2, 6 nos. piles remain)		100%	18	29-Oct-12 A	08-Nov-12 A		1			1	! ! !	! ! !		1
S26S1219	Pile Load Test (1 compression)		100%	15	28-Nov-12 A	11-Dec-12 A					1 1 1	±			!
S26S1224	Excavation & Pilecap (Delay by gasmain)		100%	28	04-Mar-13 A	27-Mar-13 A	elay by gasmai	n)				1 1 1 1	1 1 1 1		1
S26S1234	East Abutment		100%	30	02-Apr-13 A	29-Apr-13 A	ment	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1 1 1	1
S26S1254	Backfilling		100%	14	04-Jun-13 A	10-Jun-13 A	Backf	lling				1 1 1 1	1 1 1 1		1
West Abutr	ment -											1 1 1 1	1 1 1 1		1
S26S1202	Els, coring & backfill for Piling works		100%	75	26-Nov-11 A	08-Oct-12 A				 	1	! !	 		L
\$26\$1210 \$26\$1220 \$26\$1227 <b>East Abutm</b> \$26\$1214 \$26\$1218 \$26\$1219 \$26\$1224 \$26\$1234 \$26\$1254 <b>West Abutm</b> \$26\$1202 \$26\$1216	Piling-West Abutment (28)		100%		09-Oct-12 A	30-Nov-12 A						1 1 1 1	1 1 1 1		
S26S1216	Excavation & Pilecap		100%		27-Dec-12 A	01-Feb-13 A						1 1 1 1	1 1 1 1		
S26S1236	West Abutment		100%		02-Feb-13 A	10-Apr-13 A						! ! !	1 1 1 1		1
S26S1236 S26S1256	Backfilling	-30				29-Jul-13		1	Backfilling			1 1 1 1	1 1 1 1	1 1 1 1 1 1	1
	<u> </u>	-30	80%	14	29-Apr-13 A	29-JUI- 13			Dackilling		!	! ! !	! !	 	i !
	nd Finishing	40	00.000		40 M 45 *	04.4				Delta Delta (Delta			1 1 1 1		1
S26S1238	Bridge Decking (Bearings, Drainage & MJ inculded)	-48	62.82%		18-Mar-13 A	31-Aug-13		1,		Bridge Decking (Bearing	s, Drainage 8 ¦	(IVIJ Inculded)	1 1 1 1		[
S26S1240	Falsework Erection of Deck - West Abutment to TW4		100%		18-Mar-13 A	30-Apr-13 A		1	Abutment to TW4			1 1 1 1	1 1 1 1		1
S26S1241	Bridge Deck - West Abutment to TW4		100%	48	20-Apr-13 A	08-Jun-13 A	Bridge	Deck - We	st Abutment to TV	V4					i 1

Activity ID	23 Activity Name	Total	Activity %	Origina	I Start	Finish				2013				2014	
Activity is	Pourly Name	Float	Complete	Duration		1 111311	41	40		Q3 44 45	Q4 46	47	48	Q1 49	
S26S1242	Falsework Dismantling of deck - West Abutment to TW4	-23	40%	10	) 10-Jul-13 A	01-Aug-13	41	42		<b>13 44 45</b> ework Dismantling of deck			40	49	50
S26S1243	Falsework Erection of Deck - TW4 to TW5		100%	14	1 18-Mar-13 A	30-Apr-13 A	Erection of De	ck - TW4 t	TW5						
S26S1244	Bridge Deck - TW4 to TW5		100%	48	3 24-Apr-13 A	19-Jun-13 A	Bri	¦ dge Deck -	TW4 to T	™5					
S26S1245	Falsework Dismantling of deck - TW4 to TW5	-23	40%	10	) 10-Jul-13 A	01-Aug-13			Fals	ework Dismantling of deck -	TW4 to TW5		1	1	
S26S1246	Falsework Erection of Deck - TW5 to East Abutment		100%	14	1 08-May-13 A	29-May-13 A	Falsework E	; rection of I	eck - TW	/5 to East Abutment	 	1		1	
S26S1247	Bridge Deck - TW5 to East Abutment		100%	48	3 15-May-13 A	06-Jul-13 A	-	Bridge	Deck - T	W5 to East Abutment				1	
S26S1248	Falsework Dismantling of deck - TW5 to East Abutment	15	40%	10	) 10-Jul-13 A	01-Aug-13			Fals	ework Dismantling of deck -	TW5 to East Abu	-+tment		·	
S26S1260	Parapet (icl, precast concrete skin)	-48	35%	25	5 08-Jul-13 A	14-Aug-13				Parapet (icl, precast concre	te skin)				
S26S1265	Road Lighting	-48	0%	5	5 14-Aug-13	20-Aug-13		! ! !		Road Lighting	 	1 1 1		1 1 1	
S26S1270	Surfacing	-48	0%	10	20-Aug-13	31-Aug-13		1 1 1		Surfacing		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	
S26S1310	Handover Inspection of LB2 (TTA Stage 11)	-48	0%	C	)	31-Aug-13		! !		Handover Inspection	n of LB2 (TTA Sta	age 11)		1	
Construct	ion of Bridge LB3							; :	1						
S26S1280	Construction of Bridge LB3( incl. excavation & backfill) (incl. VO29 & VO37)	-32	89.51%	267	7 26-Feb-11 A	27-Aug-13				Construction of Bridge	e LB3( incl. excav	vation & backfi	   ) (incl. VO29 8	k VO37)	
	ure & Abutment							i i i					1	, i	
S26S1320	Piling for East Abutment		100%	60	26-Feb-11 A	14-May-11 A		1 1 1				1		1	
S26S1330	Piling for West Abutment		100%		) 14-May-11 A	26-Jul-11 A		! ! !				1		1 1 1	
S26S1340	ELS & Excavation for East & West Abutment		100%		6 07-Dec-11 A	21-Jan-12 A		: :							
S26S1350	Construction of East/West Abutment Structure		100%		5 19-Jan-12 A	13-Jul-12 A		! !							
Decking a	nd Finishing							1 1 1				1 1 1 1		1 1 1	
S26S1370	Bridge Deck (Bearings, Drainage & MJ included)		100%	257	7 19-Apr-12 A	24-Nov-12 A		1						1	
S26S1371	Falsework and Scaffolding		100%		6 19-Apr-12 A	31-Aug-12 A									
S26S1372	Construction of Deck		100%		05-Sep-12 A	24-Nov-12 A		i 							
S26S1373	Falsework dismantling of Deck		100%		1 21-Dec-12 A	09-Jan-13 A		! ! !						1 1 1	
S26S1375	Parapet (icl, precast concrete skin)		100%		26-May-13 A	20-Jul-13 A			Parapet (i	icl, precast concrete skin)				1	
S26S1376	Erecting of Short Column	-32	50%	20	) 19-Jun-13 A	06-Aug-13				recting of Short Column					
S26S1377	Installing M-Barrier	-32	0%		7 07-Aug-13	14-Aug-13		! !		Installing M-Barrier			1	1	
S26S1378	Surfacing	-32	0%	8	3 15-Aug-13	23-Aug-13		 		Surfacing					
S26S1385	Handover Inspection of LB3	-32	0%	3	3 24-Aug-13	27-Aug-13		1 1 1		Handover Inspection	of LB3	1		1 1 1	
Construct	ion of Bridge LB1														
S26S1400	Construction of Bridge LB1 (incl. VO29 & VO37: revised piling details and	42	95.52%	643	3 03-May-10 A	28-Aug-13		i ! !	1	Construction of Bridg	e LB1 (incl. VO2	; 9 & VO37: revi	sed piling detal	ls and pile ¢	aps sleevii
	ry and Enabling Works							1 1 1							.,
S26S1405	Site Clearance		100%	75	03-May-10 A	06-Aug-10 A		¦							
S26S1406	Site Clearance - Stage 1 (LB1-North Abutment)		100%		0 03-May-10 A	14-Jul-10 A									
S26S1407	Site Clearance - Stage 2 (LB1-TW3)		100%		27-May-10 A	06-Aug-10 A		! !					1	1	
S26S1410	Access Road		100%		5 03-May-10 A	31-Jul-10 A		! ! !						1	
S26S1411	Access Road - Stage 1 (LB1-North Abutment)		100%		0 03-May-10 A	14-Jul-10 A		; ; ; ;						1	
S26S1412	Access Road - Stage 2 (LB1-TW3)		100%		20-May-10 A	31-Jul-10 A						- <del>i</del>			
S26S1450	SA25-Site Cle arance (TW1 & TW2)		100%		3 26-Mar-11 A	02-Jun-11 A		1 1 1				1			
S26S1455	SA25 - Access Road (TW1 & TW2)		100%		3 26-Mar-11 A	02-Jun-11 A		1 1 1 1				1 1 1 1		1 1 1	
S26S1465	VO 31: Fencing for Former Lot 1308 S.B in D.D.6		100%		) 27-Jun-11 A	09-Jul-11 A		! ! !				1		 	
	ure and Pier Construction					<u> </u>		! ! !				1		1	
North Abu								 				- <del>i</del>			
S26S1420	Piling-North Abutment		100%	51	01-Jun-10 A	31-Jul-10 A		1						1 1 1	
S26S1430	Excavation & Cap-North Abutment		100%		1 11-Nov-10 A	28-Dec-10 A		! ! !						1 1 1	
S26S1440	Pier & backfill, North Abutment		100%		6 26-Jan-11 A	04-Apr-11 A		! !						1	
TW3						<u>'</u>		! !				1		1	
S26S1422	Piling-TW3		100%	54	28-Dec-10 A	21-Mar-11 A		 							
					ļ				1 :	!		1	1	1	

Δα	ivity ID	Activity Name	Total	Activity %	Origina	Start	Finish						2013					2014	
70	avity ib	Activity Name	Float	Complete	Duration		T IIIISII		4.4	40	Q	3		4.	Q4		40	Q1	
	S26S1432	Cap & Backfill - TW3		100%	45	26-May-11 A	19-Jul-11 A	-	41	42	4	3	44	45	46	47	48	49	50
Н	S26S1442	Pier-TW3 (Pierhead included)		100%		5 08-Aug-11 A	17-Dec-11 A	-					; ; ;			i !			1
Н	TW1										;		1 1 1		 	1	 		
Н	S26S1460	Piling-TW1		100%	70	21-Oct-10 A	11-Nov-10 A	_					1 1 1		1				
Н	S26S1470	Cap & Backfill - TW1		100%		6 27-Jan-11 A	19-Feb-11 A								! !	¦	ļ		
Н	S26S1480	Pier-TW1 (Pierhead included)		100%		5 23-May-11 A	08-Jul-11 A	-					; ; ;						1
Н	TW2												1 1 1		 	1			
Н	S26S1462	Piling-TW2		100%	41	28-Mar-11 A	15-Apr-11 A				-		 		1 1 1 1				
Н	S26S1472	Cap & Backfill - TW2		100%	45	5 21-Jun-11 A	15-Jul-11 A								! ! !				
Н	S26S1482	Pier-TW2 (Pierhead included)		100%	75	5 26-Jul-11 A	11-Feb-12 A									¦			
Н	Decking a	l nd Finishing									:		1 1 1		 	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Н	S26S560	Decking (Bearings, Drainage & MJ included) (incl. VO 45: Details Drainage		100%	199	27-Jul-11 A	12-Jul-12 A						 		1				
Н	S26S570	Balanced Cantilever at TW1		100%	63	3 27-Jul-11 A	12-Oct-11 A								! ! !		! !		
	S26S580	Preparing of Travelling Form		100%		3 27-Jul-11 A	17-Aug-11 A					1	! ! !		! ! !				
	S26S590	Construction of Cantiliver Deck, TW1		100%	40	30-Sep-11 A	17-Dec-11 A								   	†	<del> </del>		
	S26S610	South End Span		100%		28-Dec-11 A	16-Feb-12 A					 	 		1 1 1 1	1			
Н	S26S630	Balanced Cantilever at TW2 & Stitching (TW1-TW2)		100%		3 01-Feb-12 A	15-May-12 A	-			-		 		1 1 1 1				
Н	S26S640	Preparing of Travelling Form		100%		2 01-Feb-12 A	29-Feb-12 A						 		1	1			
Н	S26S650	Construction of Cantiliver Deck, TW2		100%	40	19-Apr-12 A	15-May-12 A												
Н	S26S660	Stitching TW1-TW2		100%		3 11-May-12 A	11-Jun-12 A								; ; ;	; ;	ļ ļ		
Н	S26S670	Balanced Cantilever at TW3 & Stitching (TW2-TW3)		100%		2 28-Dec-11 A	19-Apr-12 A						i 1 1 1		 	1	1		
Н	S26S680	Preparing of Travelling Form		100%		2 28-Dec-11 A	11-Jan-12 A				-		 		1 1 1 1				
Н	S26S690	Construction of Cantiliver Deck, TW3		100%	40	12-Jan-12 A	19-Apr-12 A								! ! !				
Н	S26S700	Stitching TW2-TW3		100%	22	2 18-May-12 A	22-Jun-12 A						; ;						
Н	S26S720	North End Span		100%		) 18-May-12 A	12-Jul-12 A								; ;	; ;	<del> </del>		;
Н	S26S740	Parapet (icl, precast concrete skin)	42	63.85%	52	2 05-Nov-12 A	16-Aug-13				-	Parapet	(icl, precast c	oncrete s	kin)				
П	S26S750	Erecting of Precast Parapet	42	60%	32	2 05-Nov-12 A	09-Aug-13	— <u>i</u>			<u> </u>	recting of	Precast Parar	et	 				
П	S26S760	Installing M-Barrier	42	0%	6	09-Aug-13	16-Aug-13					Installing	g M-Barrier			i !			, ! !
П	S26S770	Noise Barrier	42	0%	6	09-Aug-13	16-Aug-13					Noise B	arrier		 	1	1		1
П	S26S780	Surfacing	42	0%	7	7 16-Aug-13	24-Aug-13				·	Surfa	acing		<u> </u> 	† !	<del> </del>		i
П	S26S790	Road Lighting	42	0%	7	7 16-Aug-13	24-Aug-13					Road	d Lighting		! ! !				
П	S26S800	Handover Inspection of LB1	42	0%	3	3 24-Aug-13	28-Aug-13					☐ Ha	ndover Inspec	tion of LE	3 1				1
П	Constructi	on of Bridge 13A					,					i ! !	i 1 1		 	i ! !	 		1
	S26S1300	Construction of Bridge 13A (incl. VO29 & VO37: revised piling details and		100%	744	03-May-10 A	22-Jun-13 A		c	nstruction o	of Bridge	13A (incl.	VO29 & VO37	revised:	piling details	and pile cap	s sleeving deta	ills)	
		ry and Enabling Works				<u> </u>						· I				<u> </u>	<u>.</u>		
	S26S1610	Site Clearance		100%	24	03-May-10 A	31-May-10 A					1	1 1 1		: 	1			1
	S26S1611	Access Road		100%		3 03-May-10 A	17-Jul-10 A					 	1 1 1		1 1 1 1				
	S26S1620	Gas main Diversion at North/South Abutment, HKCG		100%		' 01-Jun-10 A	15-Jul-10 A					!	! ! !		1 				-
	S26S1690	SA25-Site Clearance		100%		5 26-Feb-11 A	26-Mar-11 A					1	 		! !				1
	S26S1700	SA25 Haul Road		100%		26-Feb-11 A	26-Mar-11 A					<del>-</del>			! !	† !	<del> </del>		<u> </u>
	S26S1710	SA25-Gas Main diversion at South Abutment & P1		100%	25	26-Feb-11 A	26-Mar-11 A					 	; 1 1 1		1 1 1				
		ure and Pier Construction										! ! !	1 1 1		1 1 1 1				
	North Abuti											 	1 1 1		1 1 1 1				1
	S26S1630	Piling-North Abutment		100%	65	i 16-Jul-10 A	30-Sep-10 A					1	1 1 1		! ! !				1
	S26S1631	Pre-drilling & Preparing of piling platform		100%		16-Jul-10 A	07-Aug-10 A								! ! !	1 1 1	<del> </del>		<u> </u>
	S26S1632	Piling		100%		5 09-Aug-10 A	30-Nov-10 A					; ! !	; 1 1 1		 	1	1		
	S26S1650	Excavation & Cap-Nouth Abutment		100%		0 04-Jan-11 A	04-Apr-11 A					1	1 1 1		! ! !				!
							· ·						1		1	1	1		

Activity ID	Δα	ctivity Name	Total	Activity %	Original Start	Finish				2013					2014	
	1	,	Float	Complete	Duration	1	41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
S26S1	1670 Cd	onstruction of Abutment-Nouth Abutment		100%	50 27-Oct-11 A	17-Dec-11 A	41	42	43	44	40	40	41	40	45	30
S26S1	1930 Ba	ackfill Stage 1, North Abutment		100%	24 01-Mar-12 A	14-Apr-12 A		1								1 1 1
S26S1	1940 Ba	ackfill Stage 2, North Abutment		100%	60 15-Oct-12 A	24-Apr-13 A	e 2, North Abut	‡ tment							- <del> </del>	
South	Abutme	nt			I			1		 	1 1 1	1		1	i 1 1	1
S26S1	1720 Pi	ling-South Abutment		100%	90 02-Dec-10 A	23-Mar-11 A		1		 	 	1 1 1			1 1 1	
S26S1	1721 Pr	re-drilling & Preparing of piling platform		100%	30 20-Aug-10 A	20-Sep-10 A		1			1				1	
S26S1	1722 Pi	ling		100%	60 10-Jan-11 A	17-Mar-11 A										
S26S1	1750 Ex	xcavation & Cap-South Abutment		100%	40 26-May-11 A	14-Jul-11 A			<del>-</del>				;			
S26S1	1780 Ab	outment, South Abutment		100%	38 26-Oct-11 A	17-Dec-11 A		1		 	 	1 1 1		1	1 1 1	1
S26S1	1950 Ba	ackfill Stage 1, South Abutment		100%	24 01-Mar-12 A	04-Jul-12 A		1				1			1 1 1	
S26S1	1960 Ba	ackfill Stage 2, South Abutment		100%	43 19-Nov-12 A	25-Feb-13 A		1		1	1			1	1	1
S26S1	1970 C	OD: 13ASA 18 days additional Drainage works (if RFI can be replied befo		100%	18 01-Apr-13 A	19-Apr-13 A	8 days addition	; nal Drainag	works (if RF	can be replied	d before 4-12-	2012)				
P1						<u> </u>			<del>-</del>							
S26S1	1730 Pi	ling-P1		100%	20 18-Oct-10 A	30-Nov-10 A		1		1	1 1 1	1 1 1		1	1 1 1	1
S26S1	1760 Ca	ap & Backfill - P1		100%	33 26-May-11 A	30-Jun-11 A		1		 		1			1 1 1	
S26S1	1790 Pi	er-P1		100%	75 26-Jul-11 A	24-Oct-11 A		1			1				1	
S26S1	1820 Pi	er-P1 Pierhead		100%	48 14-Feb-12 A	19-Apr-12 A										
P2						<u> </u>			<del>-</del>							
S26S1	1740 Pi	ling-P2		100%	35 28-Mar-11 A	16-Apr-11 A		1		 	 	1			1 1 1	!
S26S1	1770 Ca	ap & Backfill - P2		100%	38 26-May-11 A	11-Jul-11 A		1				1			1 1 1	
S26S1	1800 Pi	er-P2		100%	75 26-Oct-11 A	27-Jan-12 A		1			1	1		1	1	
S26S1	1910 Pi	er-P2 Pierhead		100%	53 01-Aug-12 A	12-Oct-12 A										
P3					<u> </u>	<u> </u>										
S26S1	1640 Pi	ling-P3		100%	50 26-Feb-11 A	19-Mar-11 A		1		 	 	1			1 1 1	
S26S1	1660 Ca	ap & Backfill -P3		100%	50 26-May-11 A	30-Jul-11 A		1			1	1		1	 	
S26S1	1680 Pi	er-P3		100%	96 26-Sep-11 A	20-Jan-12 A									1	
S26S1	1920 Pi	er-P3 Pierhead		100%	48 19-Apr-12 A	31-Jul-12 A										
Decki	ing and	Finishing					1	1		· <del> </del> ·		- +	1			 
S26S18		ecking (Bearings, drainage & MJ included) (incl. VO 45: Details of Draina		100%	110 01-Jun-12 A	01-Mar-13 A	ıcluded) (incl. V	O 45: Deta	ls of Drainage	e Arrangement	t of LB1 & B13	A)			1	
S26S18	810 Ba	alanced Cantilever deck at P1		100%	0 01-Jun-12 A	20-Jul-12 A										
S26S18 S26S18 S26S18 S26S18 S26S18	811 Pr	reparing of Travelling Form		100%	12 01-Jun-12 A	25-Sep-12 A										
S26S18	812 Co	onstruction of Cantiliver Deck at P1		100%	55 15-Jun-12 A	04-Aug-12 A		1	-	1	 	1 1 1		1 1 1	1 1 1	1
S26S18	816 Sc	outh End Span (South abutment-P1)		100%	197 13-Aug-12 A	09-Nov-12 A		1 1 1		<del>-</del>	<del>-</del>	- 1   	     		- L	 
S26S18	818 Sc	outh End Span		100%	50 13-Aug-12 A	10-Nov-12 A		1		!	1				1	
S26S18	830 Ba	alanced Cantilever deck at P2 & Stitching (P1-P2)		100%	78 19-Nov-12 A	14-Jan-13 A										
S26S18	831 Pr	reparing of Travelling Form		100%	12 19-Nov-12 A	08-Dec-12 A									i !	
S26S18	832 Ba	alanced Cantilever deck at P2		100%	50 10-Dec-12 A	05-Jan-13 A		1		 	 	1 1 1		1	1 1 1	1
S26S18	833 St	titching (P1-P2)		100%	18 11-Jan-13 A	14-Jan-13 A		1							 	1
S26S18	840 Ba	alanced Cantilever deck at P3 & Stitching (P2-P3)		100%	73 20-Aug-12 A	17-Jan-13 A										
S26S18	841 Pr	reparing of Travelling Form		100%	12 20-Aug-12 A	05-Sep-12 A										
S26S18	842 Ba	alanced Cantilever deck at P3		100%	43 06-Sep-12 A	05-Nov-12 A		1 1		 	 	1		1	1 1 1	-
S26S18	843 St	titching (P2-P3)		100%	18 15-Jan-13 A	17-Jan-13 A		1		1					1	1
S26S18	850 No	orth End Span & Stitching (Nouth Abutment-P3)		100%	96 29-Oct-12 A	01-Mar-13 A	(butment-P3)	1	!		L	- +			- L	!
S26S18	851 Er	nd Spans for B13A		100%	29 29-Oct-12 A	01-Feb-13 A										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S26S18	852 Po	ost Tentioning Works		100%	18 18-Feb-13 A	01-Mar-13 A		1								
S26S18	860 Pa	arapet (icl, precast concrete skin)		100%	24 19-Mar-13 A	25-May-13 A	Parapet (icl, p	recast con	rete skin)	: 	; ; ;				1 1 1	1
S26S18	863 Er	rection of Short Column and Barrier		100%	12 03-May-13 A	15-Jun-13 A	Erec	tion of Sho	t Column and	l Barrier	 	1		1	1 1 1	1
S26S18	070 N	oise Barrier (Erection of H-Column and Panel)		100%	12 03-May-13 A	11-Jun-13 A	Noise	Barrier (Ere	ction of H-Co	lumn and Pane	el)	- <del>1</del>			- L	- L

Activity ID		Activity Name	Total	Activity 9/	Original Start	Finish				2013					2014	
ACTIVITY ID		Activity Name	Total Float	Activity % Complete	Original Start Duration	FIIIISII			Q3			Q4			Q1	
S265	S1875	Lighting		100%	12 25-May-13 A	11-Jun-13 A	41 42 Lighting		43	44	45	46	47	48	49	50
	S1880	Surfacing		100%	12 25-May-13 A	21-Jun-13 A	Surfacing									1
	S1900	Handover Inspection of Bridge 13A		100%	3 21-Jun-13 A	22-Jun-13 A	I Handover In	specti	ion of Bride	ne 13A						
		Pre-Handover Retaining Wall of Section 2		10070	0 21 dan 10 71	22 0011 10 70	Trandover in	is poor	TOTT OF BITO			1			1	
	V0020	Ready For Pre-Handover Retaining Wall W56A, W56B, W57A, W57B, W5	32	0%	7 31-Aug-13	09-Sep-13				Ready	For Pre-Han	dover Retaini	 na Wall W56	Δ W56R W	/57A, W57B, W	V57C W59 a
	V0020	Ready For Pre-Handover Retaining Wall W58, W60, W61A, RWTW1, RW		0%	7 13-Sep-13	21-Sep-13				1	!	1		!	W61A, RWTV	!
		Theady For Fre-Handover Hetarning Wall W50, W60, W61A, HWFWT, HW	22	0 78	7 10-3ер-13	21-3ep-13					:	landover	tairiirig vvai	VV 30, VV 00,	, ITVIIV	1,11001002,
Secti																
	Area S										1	1			1	1 1 1
	\26A2	Possession of SA26A (Day0)		100%	0 26-Feb-10 A	_						1 1 - T				
SA26.		Site Area SA26A Works Period	-22	87.06%	1215 26-Feb-10 A	30-Dec-13				1	!		!	1	a SA26A Work	1
SA26		Site Area SA26A Works Completion	-22	0%	0	30-Dec-13				1	1	1			a SA26A Work	
SA26		Temporary Traffic Arrangement (Detail shall refer to supplementary inform	-16	86.85%	983 26-Feb-10 A	30-Dec-13				!	!	!	!		ary Traffic Arra	1
SA26	A030	Overall Utilities Diversion (Detail shall refer to supplementary information)	-16	86.85%	983 26-Feb-10 A	30-Dec-13								■ Overall U	Jtilities Diversion	on (Detail sha
Nor	th Bou	nd								i ! !			i !	i 		
	liminarie									1 1 1	1 1 1	1			1	
S26	SAN000	Site Clearance/Access Rd		100%	75 26-Feb-10 A	18-Jun-10 A		-		1	1 1 1	1			1 1 1	1 1 1
S26	SAN010	Site Clearance		100%	60 26-Feb-10 A	12-May-10 A										 
S26	6AN020	Access Rd		100%	60 07-Apr-10 A	18-Jun-10 A				1	1			1		
Slop	peworks															
S26	SAN502	Cut Slope (S37A)		100%	48 26-Apr-12 A	03-Jul-12 A										
S26	SAN506	Cut Slope (S40-sn, Including removal of existing retaining wall)		100%	168 19-Jun-10 A	08-Jan-11 A										
S26	SAN508	Slopeworks Cut(S40) - Stage 1 (Cut Slope and Erect Scaffolding)		100%	11 19-Jun-10 A	16-Jul-10 A				1	1	1		1	1	
S26	SAN510	Slopeworks Cut(S40) - Stage 1 (Soil Nail Installation : QRST)		100%	11 19-Jul-10 A	18-Aug-10 A					!	!				1 1 1
S26	SAN514	Slopeworks Cut(S40) - Stage 2 (Cut Slope and Erect Scaffolding)		100%	14 19-Aug-10 A	17-Sep-10 A									!	 
S26	SAN516	Slopeworks Cut(S40) - Stage 2 (Soil Nail Installation : MNOP)		100%	14 21-Nov-10 A	26-Dec-10 A				   	     					
S26	SAN518	Slopeworks Cut(S40) - Stage 3 (Cut Slope and Erect Scaffolding)		100%	17 18-Aug-10 A	17-Sep-10 A										
S26	SAN520	Slopeworks Cut(S40) - Stage 3 (Soil Nail Installation : IJKL)		100%	17 27-Dec-10 A	01-Feb-11 A										
S26	6AN522	Slopeworks Cut(S40) - Stage 4 (Cut Slope and Erect Scaffolding)		100%	12 28-Jan-11 A	15-Feb-11 A										
S26	SAN524	Slopeworks Cut(S40) - Stage 4 (Soil Nail Installation : EFGH)		100%	12 02-Feb-11 A	19-Feb-11 A				1	 	1	1	1	1	1
\$26 \$26 \$26 \$26 \$26 \$26 \$26 \$26	SAN525	Slopeworks Cut(S40) - Stage 5 (Cut Slope and Erect Scaffolding)		100%	15 29-Oct-11 A	16-Nov-11 A					!	1			· · · · · · · · · · · · · · · · · · ·	1
S26	SAN526	Slopeworks Cut(S40) - Stage 5 (Soil Nail Installation : ABCD)		100%	18 16-Nov-11 A	07-Dec-11 A				1	1	1			1	1
S26	SAN528	Removal of Existing Retaining Wall		100%	30 11-Apr-11 A	20-May-11 A				1		1			1	1
S26	SAN530	Cut Slope (S41-sn)		100%	138 19-Jun-10 A	02-Dec-10 A										
S26	SAN531	Cut Slope (S41-sn) - Stage 1 (Cut Slope and Erect Scaffolding)		100%	11 19-Jun-10 A	16-Jul-10 A				1	1 1 1	1 1 1			; 1 1	1
	SAN532	Cut Slope (S41-sn) - Stage 1 (Soil Nail Installation : MNOPQ)		100%	11 19-Jul-10 A	13-Aug-10 A				- <del> </del>		· · · · · · · · · · · · · · · · · · ·		 	 	
S26	SAN533	Cut Slope (S41-sn) - Stage 2 (Cut Slope and Erect Scaffolding)		100%	26 23-Aug-10 A	17-Sep-10 A					1 1 1	1			1	
S26	SAN534	Cut Slope (S41-sn) - Stage 2 (Soil Nail Installation : IJKL)		100%	26 28-Dec-10 A	27-Jan-11 A					1					
S26	SAN535	Cut Slope (S41-sn) - Stage 3 (Cut Slope and Erect Scaffolding)		100%	20 20-Sep-10 A	27-Nov-10 A					 					
S26	SAN536	Cut Slope (S41-sn) - Stage 3 (Soil Nail Installation : EFGH)		100%	19 30-May-11 A	22-Jun-11 A					! !					
S26	SAN537	Cut Slope (S41-sn) - Stage 4 (Cut Slope and Erect Scaffolding)		100%	12 26-Oct-11 A	08-Nov-11 A				- <del> </del>	- <del> </del>	- <del> </del>		<del> </del>		
S26	SAN538	Cut Slope (S41-sn) - Stage 4 (Soil Nail Installation : ABCD)		100%	12 03-Dec-12 A	14-Jan-13 A	D)			1	 	1 1 1			 	
S26	SAN540	Slope 7NW-B/C 349		100%	75 02-Oct-10 A	25-Nov-10 A				1	1 1 1	1 1 1			1	1
S26	SAN541	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 1 (EF) 52n		100%	15 02-Oct-10 A	19-Oct-10 A		-		1 1 1	1 1 1	1			1 1 1	1 1 1
S26	SAN542	Erect Scaffolding & Soil Nail Installation (7NW-B/C 349) - Stage 2 (ABCD)		100%	72 20-Oct-10 A	25-Nov-10 A					1					1
S26	SAN550	Slope 7NW-A/C35-sn		100%	200 01-Sep-10 A	20-Nov-10 A										
S26	SAN560	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 1 (OP) 2		100%	10 01-Sep-10 A	11-Sep-10 A					! !	1				: : :
S26	SAN570	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 2 (KLMN		100%	40 13-Sep-10 A	19-Oct-10 A				1	1	1				
								1 1		l	1	1	1	i	i	_ i

Activity ID	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
, -		Float	Complete	Duration		41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
S26AN580	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 3 (GHIJ)		100%	57 30-Sep-10 A	19-Oct-10 A	71	74	73	7-1	7-7-7	70	71	70	73	30
S26AN590	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 4 (CDEF)		100%	62 20-Oct-10 A	19-Nov-10 A			! ! !					! ! !	1	
S26AN650	Erect Scaffolding & Soil Nail Installation (7NW-A/C35-sn) - Stage 5 (AB) 20		100%	31 01-Nov-10 A	20-Nov-10 A					- <del> </del>					
S26AN660	Slope 7NW-A/CR39		100%	80 22-Nov-10 A	28-Mar-11 A			1 1 1					1 1 1		
S26AN670	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 1 (JK) 28n		100%	10 22-Nov-10 A	15-Dec-10 A			1 1 1	1 1 1	 			 	1 1 1 1 1 1	1
S26AN680	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 2 (DEFGH		100%	40 16-Dec-10 A	25-Feb-11 A			1 1 1	1	 			1 1 1 1	1 1 1	:
S26AN690	Erect Scaffolding & Soil Nail Installation (7NW-A/CR39) - Stage 3 (ABC) 1		100%	30 22-Feb-11 A	28-Mar-11 A			1 1 1 1	 				1 1 1 1	1 1 1	
S26AN930	Erect Scaffolding & Soil Nail Installation (Area 6-1)	105	90%	75 20-Feb-13 A	03-Aug-13			: Erect Sca	offolding & Soi	il Nail Installat	ion (Area 6-1)		! !	!	
Construction	on of Retaining Wall							! !					! ! !		
	Vall W65C (w/SP)							i 1 1					! !	1	
	Sheet Pile/Excavate & Construct W65C (w/SP)		100%	150 27-Jun-11 A	25-Jul-11 A	<b>-</b>		1 1 1	1 1 1 1	 			1 1 1 1	1 1 1	
S26AN101	Sheet Pile and Excavation		100%	24 27-Jun-11 A	25-Jul-11 A			1 1 1 1	1				1 1 1 1	1 1 1	
S26AN102	Construction of Structure W65C		100%	72 27-Jun-11 A	25-Jul-11 A			     	  -   		<del> </del>		     	 	
S26AN103			100%	24 27-Jun-11 A	25-Jul-11 A			1					1 1 1	1	
Retaining V								! !					! !	1	
	She et Pile/Excavate & Construct W68 (w/SP)		100%	99 15-Nov-10 A	16-Jul-12 A			1 1 1	1				1 1 1	1 1 1	
	Sheet Pile and Excavation		100%	19 15-Nov-10 A	04-Dec-10 A	$\exists$		1 1 1	1 1 1	1			1 1 1 1	1 1 1 1 1	
	Construction of Structure W68		100%	75 26-Aug-11 A	24-Nov-11 A			1 	 	 		 	   	 	
S26AN123			100%	54 01-Jun-12 A	16-Jul-12 A			1 1 1 1					1 1 1 1	1	
	Vall W69 on Mini-Piles (AD 3)				<u> </u>			1 1 1					! !	1	
	Prepare Piling Platform for W69		100%	24 21-Sep-10 A	10-Oct-10 A	_		! ! !					! ! !		
	Pre-drilling for W69		100%	24 10-Sep-10 A	10-Oct-10 A			; 1 1					1 1 1		
	Pipe Pile for W69		100%	77 20-Oct-10 A	24-Dec-10 A			     	 	 			 	 	
	Pipe Pile for W69 - Stage 1 (south)		100%	38 20-Oct-10 A	19-Nov-10 A			1 1 1 1	1 1 1				1 1 1 1	1 1 1	1
	Pipe Pile for W69 - Stage 2 (north)		100%	26 20-Nov-10 A	19-Dec-10 A			1					1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Excavate and Tension Piles W69		100%	110 26-Mar-11 A	11-Aug-11 A	$\exists$		! ! !					! !		
	Excavation and Installation of Tension Piles - Stage 1 (south)		100%	55 26-Mar-11 A	04-Jun-11 A			; 1 1 1					1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Excavation and Installation of Tension Piles - Stage 2 (north)		100%	55 13-Jun-11 A	16-Aug-11 A			     	 	 			     	 	
S26AN152	Retaining Wall & Drainage W69		100%	120 26-Aug-11 A	19-Jan-12 A			1	1				! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
S26AN153	Construction of Structure W69		100%	75 26-Aug-11 A	24-Nov-11 A	$\exists$		! ! !					1 1 1 1	1	
S26AN154			100%	40 06-Feb-12 A	15-Mar-13 A			1 1 1							
S26AN155	-		100%	75 01-Jun-12 A	16-Jul-12 A			1 1 1	1	i ! !			1 1 1 1	1 1 1 1 1	1
Retaining V								! 	 	- <del> </del>	<del> </del>		!   ! !	 	
S26AN170	Sheet Pile/Excavate & Construct W70 (w/SP)		100%	165 03-Dec-10 A	15-Mar-13 A	ıct W70 (w/SP)		! ! !					! ! !	1	
S26AN171	Sheet Pile and Excavation		100%	18 03-Dec-10 A	14-Dec-10 A			, 1 1					1 1		
S26AN172	Construction of Structure W70 (w/SP)		100%	75 18-Jul-11 A	15-Oct-11 A			1					 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
S26AN173	Drainage & Backfilling		100%	54 18-Feb-13 A	28-Jun-13 A	Dr	ainage & E	; Backfilling	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 			1 1 1 1	1 1 1	1
S26AN174	Backfilling behind W68 to W70 and drainage works	69	85%	60 18-Mar-13 A	05-Aug-13				ng behind W6	8 to W70 and	drainage works	 S	! ! ! !	 	
S26AN184	Erect Scaffolding & Soil Nail Installation	69	0%	35 06-Aug-13	14-Sep-13	$\exists$			Erec	t Scaffolding	& Soil Nail Inst	allation	! ! !	1	
Retaining V	Vall W72A (w/SP)				· ·								1 1 1	1	
S26AN190	Sheet Pile/Excavate & Construct W72A (w/SP)		100%	92 30-Oct-10 A	21-Nov-11 A	<del>-</del>		1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 			1 1 1 1	1 1 1	
\$26AN151 \$26AN152 \$26AN153 \$26AN154 \$26AN155  Retaining V \$26AN170 \$26AN171 \$26AN172 \$26AN173 \$26AN174 \$26AN174 \$26AN184  Retaining V \$26AN190 \$26AN190 \$26AN191 \$26AN192 \$26AN193  Road Re-Co	Sheet Pile and Excavation		100%	34 30-Oct-10 A	31-Jan-11 A			1 1 1 1					1 1 1 1	1	
S26AN192	Construction of Structure W72A (w/SP)		100%	46 03-Jan-11 A	24-Mar-11 A				-	-			, 		
S26AN193	Draiage & Backfilling		100%	68 01-Jun-11 A	21-Nov-11 A	$\exists$		! !					! !	1	
Road Re-Co	onstruction Works, Roadworks & Drainage							1 1 1 1	1				 	1 1 1	
S26AN430	Slip Road R (From W72A to W73) Stage 1 (incl. VO 36: Slip Road R & Dra		100%	15 30-Jan-12 A	25-Jul-12 A			1 1 1 1	1 1 1	1			 	1 1 1 1	
S26AN431	Slip Road R (From W70 to B18A) Stage 1.1 formation		100%	15 26-May-12 A	13-Jun-12 A			1 1 1 1					1 1 1 1	1	
S26AN432	Slip Road R (From W70 to B18A) Stage 1.1 Drainage & utilities		100%	15 14-Jun-12 A	03-Jul-12 A	<b></b>						 		 	
					1	<u> </u>		i	i	i	<u>i i</u>		i	<u>i</u>	<u>i</u>

Activity ID	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
watty ib	Touris, Humo	Float	Complete	Duration	1 111311	44	40	Q3			Q4		40	Q1	
S26AN433	Slip Road R (From W70 to B18A) Stage 1.1 pavement & roadworks		100%	15 04-Jul-12 A	26-Jul-12 A	41	42	43	44		45 46	47	48	49	50
S26AN435	Slip Road R (From W70 to B18A) Stage 2	67	80.65%	93 18-May-12 A	15-Aug-13	- !		S S	lip Road R (Fr	rom W7	0 to B18Å) Stage	2			
S26AN436	Slip Road R (From W70 to B18A) Stage 2, formation (Remaining)	67	90%	30 18-May-12 A	06-Aug-13	- !	1	Slip F	Road R (From	W70 to	B18A) Stage 2, fo	rmation (Remair	iḥg)		
S26AN437	Slip Road R (From W70 to B18A) Stage 2, Drainage & utilities (Remaining)	67	90%	30 27-Jun-12 A	09-Aug-13			Slip	Road R (From	n <b>W</b> 70 to	o B18A) \$tage 2,	Drainage & utilitie	es (Remaining	))	
S26AN438	Slip Road R (From W70 to B18A) Stage 2, pavement & roadworks (Remai	67	90%	50 14-Jul-12 A	15-Aug-13			S	lip Road R (Fr	rom W7	0 to B18A) Stage	2, pavement & ro	adworks (Rer	naining)	
S26AN447	Construction Slip Road J (Under Bridge 15A)	19	0%	45 23-Sep-13	16-Nov-13						1	Construction Slip	1	1	5A)
S26AN448	Construction Slip Road Q (At W65C)	19	0%	45 23-Sep-13	16-Nov-13					1	1	Construction Slip	Road Q (At V	V65C)	
S26AN451	Road and Drainage Works (CH 3720 - 4550)	-16	23.18%	168 24-Jun-13 A	30-Dec-13	<b>│</b> ┆ .			1	1	1		■ Road and	Drainage W	¦ √orks (CH 3
S26AN452	Removal of existing central barrier and forming temporary road (CH3720-4		100%	12 24-Jun-13 A	20-Jul-13 A		!	Removal of e	xisting central	barrier	and forming temp	orary road (CH3	; 720-4100)		
S26AN4525			100%	0	21-Jul-13 A		•	TTA - Stage	4B-2						
S26AN453	Road and Drainage Works for Slow and Mid Lane (CH3720 - 3850)	16	40%	20 08-Jul-13 A	08-Aug-13	$\dashv$				ie Works	s for Slow and Mic	d Lane (CH3720	- <del>3</del> 850)		
S26AN454	Road Surface Works for Slow and Mid Lane (CH3720 - 3850)	16	0%	10 09-Aug-13	20-Aug-13	$\dashv$		1		1	for Slow and Mid		· '		
S26AN455	Removal of existing central barrier (CH4100-4550)	-16	0%	8 08-Aug-13	17-Aug-13	-		1	-	1	entral barrier (CH4	'			
S26AN456	Road Works for Fast and Mid Lane (CH3850 - CH4550)	-16	0%	20 17-Aug-13	10-Sep-13	-			i	-	s for Fast and Mic		: - €H4550)		
S26AN457	Road Surface Works for Fast and Mid Lane (CH3850 - 4550)	-16	0%	10 10-Sep-13	23-Sep-13						Surface Works fo			- 4550)	
S26AN458	Road Works for Fast Lane (CH3720 - 3850)	-11	0%	20 23-Sep-13	18-Oct-13					, juau		s for Fast Lane (C		1	1 1
S26AN459	Road Surface Works for Fast Lane (CH3720 - 3850)	-11	0%	10 18-Oct-13	30-Oct-13					1	:	Surface Works for		1	) PEO\
	, , ,	-16			05-Nov-13					 	1	1	1	1	- 1
S26AN460	Road and Drainage Works for Slow Lane (CH4250 - 4550)		0%	35 23-Sep-13						1	1	d and Drainage V	1	1	1
S26AN461	Road Surface Works for Slow Lane (CH4250 - 4550)	-16	0%	10 05-Nov-13	16-Nov-13							Road Surface W			
S26AN462	Road Construction and Remaining Works (along CH 3720 - 4550)	-16	0%	35 16-Nov-13	30-Dec-13					 	-	_		į	nd Remaining
S26AN470	Road and Drainage Works (CH 4550 - 4720)	17	0%	88 03-Aug-13	18-Nov-13				<u> </u>	i	1	Road and Drain	Ţ,	1	.720)
S26AN471	Road and Drainage Works for Fast Lane (CH 4550 - 4720)	17	0%	35 03-Aug-13	13-Sep-13				Ro	1	Drainage Works	,		)	
S26AN472	Road Surface Works for Fast Lane (CH4550 - 4720)	17	0%	8 13-Sep-13	24-Sep-13					Road	Surface Works for	or Fast Lane (CH	4550 - 4720)		
S26AN482	Road Construction and Remaining Works (along CH 4550 - 4720)	17	0%	45 24-Sep-13	18-Nov-13							Road Construct			
Traffic Cor	ntrol & Survelance System								!				1		
S26AN480	TCSS (G25, G26, G27, G28 & SEC Poles SC58/S58) (incl. VO73 Revised	51	0%	50 09-Aug-13	08-Oct-13						TCSS (\$25, G26	s, G27, G28 & SE	CPoles SC58	/S58) (incl.	VO73 Revis
Modification	on of Existing Bridge														
S26AN200	Modification of Existing Bridge 15	9	0%	104 24-Jun-13 A	28-Nov-13	_	1	1	i	<u> </u>	<u> </u>	Modification	n of Existing E	ridge 15	
S26AN230	Demolish of Central Barrier	29	50%	12 24-Jun-13 A	01-Aug-13			Demolis	sh of Central B	Barrier					
S26AN240	Raising of Concrete Edge for N/B (CH3800 -3900)	29	0%	15 02-Aug-13	19-Aug-13				Raising of Co	ncrete E	Edge for N/B (CH	3800 -3900)			
S26AN250	Removal existing M.J and install new M.J for Slow and Mid Lane (S/B)	29	0%	8 20-Aug-13	28-Aug-13				Removal	existing	M.J and install ne	ew M.J for Slow a	nd Mid Lane	S/B)	
S26AN260	Raising of Concrete Edge for S/B (CH3800 - 4020) and N/B (CH3900 - 4020)	9	0%	25 23-Sep-13	24-Oct-13		 			1	Raising o	f Concrete Edge	for S/B (CH38	00 - 4020)	and N/B (CI
S26AN270	Removal existing M.J and install new M.J for Fast Lane (S/B and N/B)	9	0%	10 24-Oct-13	05-Nov-13			1 1		 	Rem	noval existing M.J	and install ne	w M.J for F	ast Lane (S
S26AN280	Removal existing M.J and install new M.J for Slow and Mid Lane (N/B)	9	0%	20 05-Nov-13	28-Nov-13					 		Removal e	xisting M.J an	d İnstall nev	w M.J for Sk
Landscapi	ing			<u> </u>					<u>L</u>	<u>-</u>	<u>-</u>				
S26AN610	Landscaping Works	87	20%	29 15-Mar-13 A	26-Aug-13	-		1	Landscapir	ng Work	(S			!	
South Bo	und			<u> </u>					!				1		
Preliminari															
S26AS000	Site Clearance/Access Rd		100%	164 26-Feb-10 A	14-Sep-10 A					! ! !	1				1
S26AS010	Site Clearance		100%	75 26-Feb-10 A	18-Jun-10 A						<del>-</del>	·			
S26AS020	Access Road		100%	75 31-May-10 A	14-Sep-10 A				1 1 1	1 1 1	 		!	!	1
Slopework									1 1 1	 	 		1	-	1 1
S26AS510	Slope Reinstatement Works (Bridge 15A)	18	0%	95 26-Jul-13	16-Nov-13	-	!	1	1 1 1	! !	1	Slope Reinstate	; ment Works (I	: Bridge 15A\	, !
S26AS515	Backfilling Slope	18	0%	30 26-Jul-13	29-Aug-13				Backfilling	a Slone	i				1 1 1
S26AS520	Soil Nail Installation	18	0%	50 30-Aug-13	30-Oct-13					a 2.0be		ail Installation			
S26AS520 S26AS540	Slope Surface Treatment		0%	15 31-Oct-13	16-Nov-13	_			!	1		Slope Surface T	rdatmont		!
	<u> </u>	18	0%	10 31-001-13	10-1107-13				1 1 1	 	!	Jiope Surface I	calliell	1	1 1 1
	ion of Retaining Wall								1 1 1	1 1 1	 		1	1	
Retaining '	Wall W65A					<u> </u>	1		1	1		<u> </u>	1	1	<u> </u>

tivity ID	Activity Name	Total	Activity %	Original Start	Finish				2013					:	2014	
		Float	Complete	Duration		41 42	Q	3	44	45		Q4 46	47	48	Q1 49	50
S27S1000	Sheet Pile/Excavate & Construct W65A		100%	83 28-Dec-10 A	08-Apr-11 A	71 42	4	J	77	40			71	70	73	30
S27S1001	Sheet Pile & Excavation		100%	32 28-Dec-10 A	07-Feb-11 A					. <del> </del>						!
S27S1002	Construction of Structure W65A		100%	50 11-Apr-11 A	13-Aug-11 A					1						
S27S1012	Backfilling behind W65A and drainage works	43	0%	40 30-Aug-13	18-Oct-13			Ļ			Baokfilling	g behind W	; 65A and drain	age works		
Retaining V	Vall W65B, (CSD 1)									 						
	WSD 1220 dia Diversion		100%	36 26-Jul-11 A	17-Dec-12 A			1		 						1
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			1		1 1 1				 		f 1 1
	COD: CLP overhead cable		100%	75 15-Jan-11 A	11-Apr-11 A		-			1 1 1				 		1
S27S1044	Relocaltion of Existing Electric Poles, CLP		100%	24 15-Feb-11 A	11-Apr-11 A					1						1
S27S1060	Capping/Walling for W65B		100%	42 06-Apr-11 A	20-Aug-11 A					1						
S27S1070	Backfilling for W65A & B		100%	75 10-Sep-11 A	21-Jul-12 A					<u> </u>						
S27S1090	COD: DAN 273- revised thrust box detail and additional works for DN1220		100%	30 17-Dec-12 A	24-Jan-13 A	nal works for DN1220				 						
		43	0%	40 30-Aug-13	18-Oct-13	- I I I I I I I I I I I I I I I I I I I		į			Backfilling	a behind W	; 65B and drain	age works		1
	onstruction Works, Roadworks, Drainage & Utilities	40	0 70	40 00 7tag 10	10 001 10		1	-			Baokining	g bermie W	JOB and diam	lage works		1
S26AS400	Roadworks, Drainages & Utilities (CH 4020 - 4500)	35	80.47%	399 14-Feb-12 A	28-Oct-13			1		! ! !	Boad	works Drai	nages & Utilit	ies (CH 4020	- 4500\	1 1 1
S26AS410	Roadworks, Drainages & Utilities Stage 1 (ch4020-ch4200 & Tai Po Tai W	33	100%	110 14-Feb-12 A	11-Dec-12 A	Wo Road)				ļ					- 4300)	
S26AS411	Removal of existing paving		100%	25 14-Feb-12 A	02-Jul-12 A	Wo Hoad)		 		1 1 1				 		f 1 1
S26AS411	Utilities			75 14-Feb-12 A						 						1
			100%		31-Jul-12 A		1			 	!					1
S26AS416	Drainages		100%	75 27-Jun-12 A	31-Jul-12 A					 						1
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					1						
S26AS422	Removal of existing paving		100%	50 14-Feb-12 A	12-Jan-13 A					1						
S26AS424	Utilities		100%	75 14-Feb-12 A	28-May-12 A					 						
S26AS426	Drainages		100%	75 27-Jun-12 A	11-Aug-12 A		1			1	1			 		1
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	Roadworks S	1			1	- 1		!	 		1
S26AS440	Road Construction and Remaining Works (along CH4020 - 4500)	-16	85%	75 28-Jan-13 A	08-Aug-13	1 1	R	load Co	nstruction ar	nd Remai	ning Works	s (along CH	4020 - 4500)	 		1 1 1
S27S4090	HyD/Lighting (Existing Street Light removal by HyD Lightings		100%	52 26-May-11 A	25-Jun-11 A					1		:				1
S27S4100	Slip Road K (utilities & drainage), Stage 1 (excl. WSD connection)		100%	75 14-Feb-12 A	19-Apr-12 A					 						1
S27S4102	Slip Road K (utilities & drainage roadwork), Stage 2 (incl. WSD connection)		100%	50 18-May-12 A	15-Oct-12 A					<u> </u>						
S27S4110	Slip Road S (utilities, drainage & roadwork)	35	0%	50 28-Aug-13	28-Oct-13					1	Slip F	Road S (utili	ties, drain age	e & roadwork)		
S27S4160	TTA Stage 0		100%	0 07-Oct-12 A						1 1 1				1		
Noise Barri	ers & Road Barriers									1 1 1				; ! !		1
\$26A\$440 \$27\$4090 \$27\$4100 \$27\$4102 \$27\$4110 \$27\$4160 <b>Noise Barri</b> <b>Noise Barri</b> \$26A\$300 \$26A\$310 \$26A\$320 \$26A\$330	ier NB36 & NB37									1 1 1 1				1 1 1		f 1 1
S26AS300	Construct Noise Barrier & Beam Barrier, NB36 & NB37		100%	255 28-Dec-11 A	05-Jul-12 A					1 1 1			1	1 1 1		1
S26AS310	Noise Barrier : Foundation Works		100%	75 28-Dec-11 A	31-Jan-12 A					 						,
S26AS320	Noise Barrier : Installation of H-column & Panel		100%	60 01-Feb-12 A	05-Jul-12 A			 		1 1 1			1	1		
S26AS330	Remaining NB36 installation of panel		100%	7 25-May-13 A	15-Jun-13 A	Remaining NB3	6 in stallati	ion of p	anel	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				 		
Traffic Con	trol & Survelance System													1		
S26AS480	TCSS (ch3720 - ch4820)	92	62.41%	56 30-Nov-12 A	20-Aug-13		l i	_ тс	SS (ch3720 -	ch4820)				1		
S26AS481	TCSS - Stage 1 (ch3720 - ch3900)		100%	24 11-Mar-13 A	19-Apr-13 A	1 (ch3720 - ch3900)				; :						[
S26AS482	TCSS - Stage 2 (ch3900 - ch4080)		100%	24 19-Apr-13 A	06-Jun-13 A	TCSS - Stage 2 (ch	3900 - ch	4080)						1		
S26AS483	TCSS - Stage 3 (ch4080 - ch4260), (Gantry G59) (incl. VO73 Revised Sign		100%	24 22-Jan-13 A	06-Jun-13 A	TCSS - Stage 3 (ch	; 4080 - ch	4260),	(Gantry G59)	) (incl. VO	73 Revise	d Sign Ģan	try Details)			
S26AS484	TCSS - Stage 4 (ch4260 - ch4440), (Gantry G58) (incl. VO73 Revised Sign		100%	24 30-Nov-12 A	21-Dec-12 A	ed Sign Gantry Details)			- /	1				1		
S26AS485	TCSS - Stage 5 (ch4440 - ch4620)	92	50%	24 24-Dec-12 A	08-Aug-13		Т	CSS -	Stage 5 (ch4	440 - ch4	620)			1		1
S26AS486	TCSS - Stage 6 (ch4620 - ch4820), (Gantry G57) (incl. VO73 Revised Sign		20%	24 07-Jan-13 A	20-Aug-13							, (Gantry G	57) (incl. VO7	3 Revised Sig	ın Gantrv	Details
2 2 3	outh Bound		-55	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							/		, ,		,	!

Activity ID	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
		Float	Complete	Duration		44	40	Q3		AE I	Q4	47	40	Q1	- 50
Slopworks						41	42	43	44	45	46	47	48	49	50
	Slopeworks & Reinforced Earth Wall Bridge 18A		100%	72 26-Feb-11 A	27-May-11 A							į			1 1 1 1
	on of Bridge 18A				-						1	-		'	1 1 1
S26AN94	COD: DAN 327 DN800/ 400 - Additional pipeline and thrust blocks	102	85%	75 06-Aug-12 A	08-Aug-13		<u> </u>	COD: D	. L DAN 327 DN80	0/ 400 - Additional	pipeline and	thrust bloc	cks		
S26ANS10	Construct East & West Abutment of Bridge 18A		100%	91 28-Mar-11 A	19-Aug-11 A										
S26ANS12	Construct East Abutment (RE Wall part 1) & Bearing (Bridge 18A)		100%	36 28-Mar-11 A	14-May-11 A									;	
S26ANS14	Construction West Abutment (RE Wall part 1) & Bearing (Bridge 18A)		100%	36 08-Jul-11 A	19-Aug-11 A						1 1 1	1			1 1 1
S26ANS15	Construction East RE Wall (part 2)		100%	50 19-Aug-11 A	26-Oct-12 A						!	-		1	!
S26ANS16	Construction West RE Wall (part 2)		100%	50 19-Aug-11 A	27-Oct-12 A										
S26ANS18	Bridge 18A Decking and Watermain Diversion		100%	162 19-Jul-11 A	24-Jan-12 A									:	
S26ANS60	Erecting Temporary Bridge Support		100%	48 24-Jun-11 A	16-Jul-11 A									; !	
S26ANS70	Construction of Deck		100%	60 27-Oct-11 A	07-Jan-12 A									; !	
S26ANS80	Construct remaining RE wall (East & West) (incl. VO 21, VO38 and VO79)		100%	40 15-Dec-11 A	29-Apr-13 A	remaining RE	; wall (East	& West) (incl. VC	) O 21. VO38 an	d VO79)	1 1 1	1			
S26ANS82	Drainage, Utilities & Watermain Installation (incl.VO 53:Concrete Plinths fo		100%	50 28-Dec-12 A	15-Jun-13 A					ncl.VO 53:Concret	e Plinths for	PCCW Cal	ole Ducts & V	O 78 CLP C	CT Details
S26ANS90	Road Surfacing		100%	10 07-May-13 A	19-Jun-13 A		ad Surfaci								
	TTA Stage 1		100%	0 22-Jun-13 A	10 0011 10 71	i	TA Stage 1				1	-		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
	s, Drainage & Utilities		10070	o LL ddii 1071			l				1			'	1
	Diversion of water mains at existing bridge 18	109	85%	25 20-Feb-13 A	30-Jul-13	-	!	Diversion	¦ of:water mains	at existing bridge	18				
	of Existing Bridge 18	100	00 70	20 100 1071	00 001 10		1			treating bridge				· 	
	Demolition of Existing Bridge 18	15	90%	30 24-Jun-13 A	29-Jul-13		i	Demolition (	of Existing Brid	dae 18				,	
		13	30 /6	30 24-3011-13 A	29-301-13			T	LXISTING DIT	ige 10	1			) 	
Site Area S	· ·			0 00 11 10 1							1	1		!	
PHSA2720	Possession of SA27	ļ	100%	0 26-Mar-10 A										<u>'</u>	
SA270000	Site Area SA27 Works Period	17	90.06%	1187 26-Mar-10 A	20-Nov-13		į			ļ			Norks Period		
SA270010	Site Area SA27 Works Completion	17	0%	0	20-Nov-13							1	Works Compl	!	!
SA270020	Temporary Traffic Arrangement (Detail shall refer to supplementary inform	15	89.78%	959 26-Mar-10 A	20-Nov-13	-	!		!	1 1	1 1	1	c Arrangeme	1	1
SA270030	Overall Utilities Diversion (Detail shall refer to supplementary information)	15	89.78%	959 26-Mar-10 A	20-Nov-13		!				Overa	ıll Utilities D	Diversion (De	ail shall refe	er to supp
South Bou											1			; ! !	1
Slopework							-				! !				 
S27S0000	Site Clearance/Access Rd		100%	130 27-Mar-10 A	03-Sep-10 A						1	1			
S27S0001	Site Clearance (Stage 1)		100%	40 27-Mar-10 A	18-May-10 A						!			1	
S27S0002	Site Clearance (Stage 2)		100%	40 19-Jun-10 A	05-Aug-10 A						1	-		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
S27S0004	Access Rd (Stage 1)		100%	40 30-Apr-10 A	18-Jun-10 A						1			! !	
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						1 1 1	1			1
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						1			1	1
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									:	1 1 1
	Slopeworks Fill(S38) - Stage 2, +34mPD		100%	24 11-Jun-12 A	11-Jul-12 A	<u> </u>		1	- <del> </del>						
S27S5123	310peworks 1 111(336) - 3tage 2, +34111FD					— i	1		1	1				· '	1
	Slopeworks Fill(S38) - Stage 2, +S4IIIFD  Slopeworks Fill(S38) - Stage 3, formation level		100%	24 11-Jul-12 A	21-Aug-12 A						:	į		1	1
S27S5123			100% 100%	24 11-Jul-12 A 138 19-Jun-10 A	21-Aug-12 A 23-Feb-11 A				 						

67/515   5   5   5   5   5   5   5   5   5	Activity ID	Activity Name	Total	Activity %	Original Start	Finish						2013					2014	
\$2000000000000000000000000000000000000		, wanty name				1		44	40		3		4E		47	40		
Good   Section   Processing Works (1976)   70   70   70   70   70   70   70   7	S27S51	32 Slopeworks Cut(S39) - Stage 2, +35mPD		100%	46 13-Aug-10 A	07-Oct-10 A		41	42	43		44	45	46	47	48	49	50
2003-00   Desprimentation with Control of the State (March 1960	S27S51			100%		23-Feb-11 A			     					. <del> </del> 	- <del>-</del>	 	 	- <del> </del>
Properties   Pro			70	0%			- :		! ! !	1	!	Slope	Reinstatem	¦ eht Works (S	; <b>12</b> )			1 1 1
SC-07111   Nova Aver (COTO)					<u> </u>	<u>'</u>						•				1	1	1
Separation   Sep				100%	45 02-Oct-10 A	19-Mar-11 A												
8279-112   0x2 dam Nove Nove   10x3   50   0x3 Nove 10   50   0x3 Nove 10   10x3   10x3   10x3 Nove 10x3 Nove 10x3   10x3 Nove 10x3 Nove 10x3 Nove 10x3   10x3 Nove						01-Nov-10 A												
83791-16   Aux Town (WPT)	S27S11			100%	30 02-Nov-10 A	26-Dec-10 A			     		<u> </u>			. <del> </del> 	- <del>-</del>	 	 	- <del> </del>
83791-16   Aux Town (WPT)	S27S11	33 Base Slab (W67)		100%	30 08-Nov-10 A	25-Dec-10 A	- :		! ! !		}	 					 	1
\$757000   New or y War W77, Hery - Regist   100%   110   25 - 25 - 25 - 25 - 25 - 25 - 25 - 25	S27S11			100%		19-Mar-11 A			! ! !								1	1
Statistical of National Wat V71 - Sean State   1805   55 (0.74 - 10.0 A)   0.44 - 11.0 A   0.45 - 11.0 A   0	S27S11	5 Backfill for W66&67		100%	61 27-Jun-11 A	15-Oct-11 A												
Service   Notice	S27S12	00 Retaining Wall W71 (Bay1 - Bay5)		100%	110 02-Jun-10 A	12-Oct-10 A											i ! !	
Septiment   Market	` ` · · · · · · · · · · · · · · · · · ·							; 					. <del>.</del>	- <del> </del>	<u> </u>			
Bearline of William	S27S12	20 Retaining Wall W71 : Wall Stem		100%	55 07-Aug-10 A	12-Oct-10 A			1			 		1			1 1 1	1
SCF-86005   Read-control Derivation   Strip (101 800)   4740)   15   72.575   157 for 124   20 New 11	S27S12	80 Backfill for W71		100%		24-Aug-11 A			! ! !									
SCF-86005   Read-control Derivation   Strip (101 800)   4740)   15   72.575   157 for 124   20 New 11	Roadw	orks. Drainage & Utilities															; ! !	
S779-004   Utilines - Stope   Week - Stope   1   1005   50   15-April 2 A   10-April 2 A   10-			15	72.57%	357 13-Apr-12 A	20-Nov-13									¦ loadworks, Dra	i inages & Utili	ies - Stage	i (CH 3900
\$2730000   Road and Character - Stage 1						19-Apr-12 A			 						· <del> </del>	<del> </del>		
S2794012   Roadmark and Laire Shifting - Stage 1   100%   50   12-0e-12 A   27-0e-12 A   27-0e	S27S40	Road and Drainages Works - Stage 1		100%	60 11-May-12 A	31-Jul-12 A			! ! !								!	1
S2734018   Removal of misting paving; Slage 2 (Remaining Chis500 - 4740)   15   0%   25 30 Jul 13   27 Aug 13   Removal of existing paving; Slage 2 (Remaining Chis500 - 4740)   15   0%   30   22 Aug 13   0.90-013   Road and Drainage Wrise for Slow Lane - Slage 2 (ind, VO 56: Provision 16   0%   30   22 Aug 13   0.90-013   Road and Drainage Wrise for Slow Lane - Slage 2 (ind, VO 56: Provision 16   0%   30   22 Aug 13   0.90-013   Road and Drainage Wrise for Slow Lane - Slage 2 (ind, VO 56: Provision 16   0%   30   17-021-13   18-021-13   Road and Drainage Wrise for Slow Lane - Slage 2 (ind, VO 56: Provision and Remaining Works (along CH4500 - 4740)   15   0%   30   17-021-13   29-Nov-13   Road and Drainage Wrise for Slow Lane - Slage 2 (ind, VO 56: Provision and Remaining Works (along CH4500 - 4740)   10   0%   30   17-021-13   29-Nov-13   Read and Drainage Wrise for Slow Lane - Slage 2 (ind, VO 56: Provision and Remaining Works (along CH4500 - 4740)   10   0%   100   07-14-10   100   1	S27S40	0 Road Surface - Stage 1		100%	50 28-Jul-12 A	11-Dec-12 A												
S2754035   Road and Drainage Works for Slow Lane - Stage 2 (ind. VO 56: Provision 15	S27S40	2 Roadmark and Lane Shifting - Stage 1		100%	30 12-Dec-12 A	27-Dec-12 A											; ! !	1
S2754035   Road and Drainage Works for Slow Lane - Stage 2 (ind. VO 56: Provision 15	S27S40	8 Removal of existing paving - Stage 2 (Remaining CH4500 - 4740)	15	0%	25 30-Jul-13	27-Aug-13			1 1 1 1		Re	moval of e	xisting pavir	g - Stage 2 (	; Remaining CH	4500 - 4740)	1 1 1	1 1 1
S2784055   Read Construction and Remaining Works (along CH4500 - 4740)   15   0%   30   17 Oct 13   20   Nov 13	S27S40		15	0%	30 28-Aug-13	03-Oct-13							Road and	l Drainage W	orks for Slow	¦ane - Stage 2	(incl. VO 5	5: Provision
Construction of Bridge 15A	S27S40	15 Road Surface Works for Slow Lane	15	0%	10 04-Oct-13	16-Oct-13			! ! !				Roa	់ d Surface W	्। orks for Slow I	ane		
Preparatory and Enabling Works   S26AS205   Site Clearance   100%   102   01-Jun-10 A   30-Sep-10	S27S40	Road Construction and Remaining Works (along CH4500 - 4740)	15	0%	30 17-Oct-13	20-Nov-13								· F	; load Construc	; ion and Rema	ining Works	s (along CH
Preparatory and Enabling Works   S26A5205   Site Clearance   100%   102   01-Jun-10 A   30-Sep-10	Constr	uction of Bridge 15A							! ! !		1	 		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1
S26AS215   Site Clearance   100%   102   01-Jun-10 A   30 Sep-10 A		<u>~</u>					-		 								 	1 1 1
S26AS210				100%	102 01-Jun-10 A	30-Sep-10 A			 			 !			- <del> </del>	<u>-</u>	} !	
S28AS215   11KV Diversion, CLP							-											
S26AS225   2 nos. Existing fresh water mains diversion   100%   36   26-Jan-11 A   11-Mar-11 A   1						·			1 1 1			 		1	1	1	1	1 1 1
S26AS235   Existing tel cable diversion, PCCW   100%   30   26-Jan-11 A   11-Mar-11		· · · · · · · · · · · · · · · · · · ·				·	- :		1 1 1 1								 	1 1 1
S28AS245   HyD/Lighting   100%   60   26-Jan-11 A   09-Apr-11 A		-							! ! !								!	1
Substructure and Pier Construction   South Abutment, P1 to P5						09-Apr-11 A								· <del> </del>	· <del> </del>			
South Abutment, P1 to P5						<u> </u>			1 1 1 1		! !	i ! !		1		i 1 1	i ! !	1
S26AS220   Piling - South Abutmentt, P1 to P5 (ind. VO29: revised piling details)   100%   335   02-Jul-10 A   16-Aug-11 A   15-Aug-11 A   1									! ! !			 						1
S26AS230   Excavation & Cap-South Abutment, P1 to P5 (incl. VO6: Bridge 15A cap sl				100%	335 02-Jul-10 A	16-Aug-11 A			; ; ; ;			 						1
S26AS240   Pier & backfill, South Abutment, P1 to P5   100%   112   13-Jun-11 A   26-Oct-11 A		, , , , , , , , , , , , , , , , , , , ,					$\dashv$					 		1			: 1 1 1	: 
South Abutment   S26AS770   Piling - South Abutment   100%   71   02-Jul-10 A   07-Feb-11 A   07-F	S26AS2	40 Pier & backfill, South Abutment, P1 to P5		100%	112 13-Jun-11 A	· ·			¦					- <del></del>	- <del> </del>	<del> </del>		
S26AS770   Piling - South Abutment   100%   71   02-Jul-10 A   07-Feb-11 A									 			 					1	1
S26AS780       Cap & Backfill - South Abutment       100%       37       07-Feb-11 A       22-Mar-11 A         S26AS790       South Abutment       100%       21       13-Jun-11 A       14-Jul-11 A         S26AS800       COD: 15ASA Wingwall       100%       14       13-Jun-11 A       14-Jul-11 A         P1         S26AS610       Piling - P1       100%       66       18-Jan-11 A       09-Apr-11 A         S26AS620       Cap & Backfill - P1       100%       37       26-May-11 A       09-Jul-11 A         S26AS630       Pier - P1       100%       36       11-Jul-11 A       22-Sep-11 A				100%	71 02-Jul-10 A	07-Feb-11 A			! !			 						1
S26AS790   South Abutment   100%   21   13-Jun-11 A   14-Jul-11 A						22-Mar-11 A			! !								: ! !	1
S26AS800       COD: 15ASA Wingwall       100%       14       13-Jun-11 A       14-Jul-11 A         P1         S26AS610       Piling - P1       100%       66       18-Jan-11 A       09-Apr-11 A         S26AS620       Cap & Backfill - P1       100%       37       26-May-11 A       09-Jul-11 A         S26AS630       Pier - P1       100%       36       11-Jul-11 A       22-Sep-11 A							$\exists$		 			 					1	1 1 1
P1       S26AS610     Piling - P1     100%     66 18-Jan-11 A     09-Apr-11 A       S26AS620     Cap & Backfill - P1     100%     37 26-May-11 A     09-Jul-11 A       S26AS630     Pier - P1     100%     36 11-Jul-11 A     22-Sep-11 A									¦			i		- <del>1</del> 	- <del>-</del>	<del> </del>	 	
S26AS610         Piling - P1         100%         66 18-Jan-11 A         09-Apr-11 A           S26AS620         Cap & Backfill - P1         100%         37 26-May-11 A         09-Jul-11 A           S26AS630         Pier - P1         100%         36 11-Jul-11 A         22-Sep-11 A									! ! !			 						1
S26AS620         Cap & Backfill - P1         100%         37 26-May-11 A         09-Jul-11 A           S26AS630         Pier - P1         100%         36 11-Jul-11 A         22-Sep-11 A		10 Piling - P1		100%	66 18-Jan-11 A	09-Apr-11 A			; ; ;			 					1	1
S26AS630 Pier - P1 100% 36 11-Jul-11 A 22-Sep-11 A						·			! !			 					: !	1
					-		$\exists$		 			 					1	1 1 1
									¦			i		- <del>1</del> 	<del>-</del>	<del> </del>	 	- <del>-</del>
							- :		!	!	!			1	1	1	1	1

tivity ID	Activity Name	Total Activ		Original Start	Finish				2013		04			2014	
		Float Com	nplete	Duration		41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
S26AS640	Piling - P2		100%	66 26-Apr-11 A	27-May-11 A										
S26AS650	Cap & Backfill - P2		100%	37 09-Jun-11 A	23-Jul-11 A		1					1		1	
S26AS660	Pier - P2		100%	36 26-Aug-11 A	22-Oct-11 A		1		1					i 1 1	
P3															
S26AS670	Piling - P3		100%	66 28-Dec-10 A	01-Feb-11 A						<u>i</u>				
S26AS680	Cap & Backfill - P3		100%	37 26-Mar-11 A	14-May-11 A										
S26AS700	Pier - P3		100%	36 09-May-11 A	21-Jun-11 A										
P4															
S26AS548	Piling - P4		100%	63 09-Feb-11 A	26-Mar-11 A										
S26AS550	Cap & Backfill - P4		100%	46 07-Apr-11 A	16-May-11 A				- <del>-</del>		<u>-</u>				- -
S26AS560	Pier - P4			36 27-Jun-11 A											
	rier - P4		100%	30 27-Jun-11 A	08-Aug-11 A										
P5	DVI DE		1000/	54 00 14 44 4	00 1 144 4										
S26AS570	Piling - P5		100%	54 23-May-11 A	23-Jul-11 A									1	
S26AS580	Cap & Backfill - P5		100%	36 04-Aug-11 A	16-Sep-11 A		·								-
S26AS590	Pier - P5		100%	36 18-Nov-11 A	29-Feb-12 A									i ! !	
P6											!	1		!	1
S26AS222	Piling-P6 Stage 1 (6 no.)		100%	20 26-Nov-11 A	19-Dec-11 A				1		1	1		i ! !	
S26AS226	Piling-P6 Stage 2 (Remain, 9 no.)		100%	30 18-May-12 A	26-May-12 A		1		1		1			1	
S26AS232	Cap & Backfill - P6		100%	36 05-Oct-12 A	09-Nov-12 A	1			1		1			1	-
S26AS242	Pier-P6		100%	12 20-Nov-12 A	13-Dec-12 A		-	-	!		! ! !			 	-
North Abut	ment														
S26AS224	Piling-North Abutment, Stage 1 (11no.)		100%	36 07-Oct-11 A	17-Nov-11 A										
S26AS228	Piling-North Abutment, Stage 2 (Remain, 16 no.)		100%	60 11-May-12 A	16-Jul-12 A										
S26AS234	Excavation & Cap-North Abutment		100%	30 08-Aug-12 A	18-Dec-12 A										
S26AS236	Abutment		100%	20 24-Dec-12 A	18-Jan-13 A				-		<del>-</del>				- <del> </del>  -
S26AS244	Backfilling		100%	50 22-Jan-13 A	15-May-13 A	kfilling			1						1
Decking a	nd Finishing										1			1	1
S26AS250	Bridge Deck (7 spans) (Bearing, Drainage & MJ included) (incl. VO 44: Re		100%	314 26-Nov-11 A	28-Mar-13 A	Bearing, Draina	; age & MJ ind	luded) (incl. VO	44: Revised	Drainage Arran	gement for Brid	; dge 15A Dec	:k)	1 1 1	
S26AS251	Bridge Deck - Pier 1 to South Abutment		100%	75 26-Nov-11 A	26-May-12 A		:	/ \					,	!	
S26AS252	Bridge Deck - Pier 2 to Pier 1		100%	75 11-May-12 A	29-Aug-12 A									- <del> </del>	
S26AS253	Bridge Deck - Pier 3 to Pier 2		100%	75 01-Jun-12 A	06-Nov-12 A										
S26AS254	Falsework dismantling of deck - Pier 3 to Pier 2		100%	18 03-Dec-12 A	22-Feb-13 A	to Pier 2									
S26AS255	Bridge Deck - Pier 4 to Pier 3		100%	75 11-Aug-12 A	22-Dec-12 A	011012									
	-					rk dismantling	of dook Di	or 4 to Dior 2							
S26AS256	Falsework dismantling of deck - Pier 4 to Pier 3		100%	18 25-Feb-13 A	03-May-13 A			ei 4 to Fiei 3							· - -
S26AS257	Bridge Deck - Pier 5 to Pier 4		100%	75 27-Aug-12 A	31-Jan-13 A			of Marchael Blance	No Diam 4						
S26AS258	Falsework dismantling of deck - Pier 5 to Pier 4		100%	18 11-Mar-13 A	30-May-13 A	;	dismantling	of deck - Pier 5	to Pier 4						
S26AS259	Falsework Erection of deck - Pier 6 to Pier 5		100%	18 03-Dec-12 A	23-Feb-13 A	Pier 5									
S26AS260	Bridge Deck - Pier 6 to Pier 5		100%	75 29-Dec-12 A	19-Apr-13 A	Pier 6 to Pier 5	1		1					1	1
S26AS261	Falsework dismantling of deck - Pier 6 to Pier 5		100%	18 06-May-13 A	14-Jun-13 A	Fals	ework dism	ntling of deck -	Pier 6 to Pier	5				<u> </u> 	- -
S26AS262	Falsework Erection of deck - North Abutment to Pier 6		100%	18 31-Dec-12 A	04-Feb-13 A	Pier 6	1 1 1		1 1 1					1	1
	Bridge Deck - North Abutment to Pier 6		100%	50 14-Jan-13 A	28-Mar-13 A	tment to Pier 6	6		1 1 1					1	
S26AS263			100%	18 13-May-13 A	14-Jun-13 A	Fals	ework dism	ntling of deck -	North Abutm	ent to Pier 6				1 1 1	1
S26AS263 S26AS264	Falsework dismantling of deck - North Abutment to Pier 6		1000/	50 06-Dec-12 A	08-Jun-13 A	Parape	et (icl, preca	st ooncrete skin)	)					1 1	
	Parapet (icl, precast concrete skin)		100%	30 00 Dec 12 A			2							1	
S26AS264	-		100%	25 27-Mar-13 A	12-Jun-13 A	Noise	Barrier for	Bridge 15A	1		1	!			
S26AS264 S26AS269	Parapet (icl, precast concrete skin)						e Barrier for urfacing	Bridge 15A		-					- -
S26AS264 S26AS269 S26AS270	Parapet (icl, precast concrete skin)  Noise Barrier for Bridge 15A		100%	25 27-Mar-13 A	12-Jun-13 A		urfacing	Bridge 15A						-	

Activity ID	Activity Name	Total	Activity %	Original Start	Finish				2013				2014	
to avity ID	Activity Name	Float	Complete	Duration Start	FIIISH			Q3			Q4	4-	Q1	
HRW0030	Ready For Pre-Handover Retaining Wall W65C, W68, W69, W70, W72A	99	0%	7 03-Aug-13	10-Aug-13	41	42	43 Ready	For Pre-Han	dover Retainir	46 ng Wall W65C, W		<b>18 49</b> N72A	50
HRW0031	Ready For Pre-Handover Retaining Wall W65A, W65B, W66, W67, W71	106	0%	7 26-Jul-13	02-Aug-13						Wall W65A, W65B			
Section 4			0,0	. 20 00. 10	02 / lag 10		1 1 1	:				,,		
	0.400						1 1 1 1		1 1 1	1 1 1 1		1 1 1	 	1 1 1
Site Area S			1000	0 00 5 1 10 4			1 1 1 1		1 1 1 1	1 1 1		!		1 1 1
PHSA2820	Possession of SA28 (Day0)		100%	0 26-Feb-10 A		_	! ! !		1	1 1 1				
SA280000	Site Area SA28 Works Period	160	85.49%	1216 26-Feb-10 A	18-Jan-14				ļ	ļ			■ Site Area SA2	
SA280010	Site Area SA28 Works Completion	160	0%	0	18-Jan-14								♦ Site Area SA2	;
SA280030	Temporary Traffic Arrangement (Detail shall refer to supplementary inform	128	85.2%	983 26-Feb-10 A	18-Jan-14		1	!		1 1		1	Temporary Tr	-
SA280040	Overall Utilities Diversion (Detail shall refer to supplementary information)	128	85.2%	983 26-Feb-10 A	18-Jan-14		1	 	1	1			<ul><li>Overall Utilitie</li></ul>	s Diversion
North Bou							1 1 1 1		1 1 1 1 1	1 1 1		1		1 1 1
Preliminari							! ! !		  - 	 				
S28N0000	Site Clearance/Access Rd		100%	239 26-Feb-10 A	19-Feb-11 A		 	!	 	! ! !				1
S28N0010	Site Clearance (ch 4830-5250)		100%	75 26-Feb-10 A	05-Jun-10 A									
S28N0020	Site Clearance (ch 5250-5700)		100%	75 17-Apr-10 A	23-Jul-10 A									
S28N0110	Access Rd (ch 4830-5250)		100%	75 30-Jun-10 A	04-Oct-10 A		! !							
S28N0120	Access Rd (ch 5250-5700)		100%	75 09-Sep-10 A	19-Feb-11 A		i !			i   	<u> </u>			
Slopework	s						! ! !		 	 		 		1
S28N5000	Slopeworks Fill S44		100%	36 28-Dec-11 A	11-Feb-12 A		1 1 1	1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1		1 1 1
S28N5010	Slopeworks Fill S45	62	0%	40 03-Sep-13	22-Oct-13		1 1 1 1			S	Slopeworks Fill S45	5		1
Construction	on of Retaining Wall						1 1 1		1 1 1 1	1 1 1		1		1
Retaining \	Wall W72B (CSD 1)						! ! !	!	 	1 1 1		1		 
S28N2010	Prepare Piling Platform for W72B		100%	13 14-Sep-10 A	29-Sep-10 A				!	!				
S28N2020	Pre-drilling for W72B		100%	13 14-Sep-10 A	29-Sep-10 A									
S28N2040	Piling works		100%	24 01-Mar-11 A	21-Mar-11 A		! !			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
S28N2050	Capping/Walling for W72B		100%	50 26-May-11 A	25-Jul-11 A		! ! !	! ! !	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 		1 1 1
S28N2051	Pile Cap for W72B		100%	30 26-May-11 A	09-Jun-11 A		1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1		1		 
S28N2052	Walling for W72B		100%	75 21-Jun-11 A	17-Sep-11 A		J	·	. L	. L				
S28N2060	Backfilling		100%	68 26-Sep-11 A	15-Dec-11 A		! ! !		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		!
Retaining \	Wall W73 (CSD 1)		· · · · · · · · · · · · · · · · · · ·	·	<u>'</u>		! !							
\$28N2060  Retaining \( \) \$28N2071  \$28N2072  \$28N2073  \$28N2074  \$28N2080  Retaining \( \) \$28N230	Excavation & ELS		100%	24 14-Sep-10 A	13-Oct-10 A		! !							
S28N2072	W73 wall Structure (7 bays)		100%	45 01-Mar-11 A	20-Apr-11 A		1 1 1	1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1		1 1 1
S28N2073	Base Slab W73		100%	24 01-Mar-11 A	28-Mar-11 A		J		 		1	     		
S28N2074	Wall Stem & W73		100%	24 25-Mar-11 A	20-Apr-11 A		1 1 1		 	1 1 1		1		1
S28N2080	Backfill		100%	75 09-Jul-11 A	24-Dec-11 A		1 1 1		1 1 1	1 1 1		1		1
Retaining \	Wall for Accom. Underpass Extn. (CSD 1)			<u> </u>										
S28N230	Pre-drilling for Accommodation Underpass Extension		100%	30 30-Jun-10 A	04-Aug-10 A		! !							
S28N240	Prepare Piling Platform for Accom.Underpass Extn		100%	30 30-Jun-10 A	04-Aug-10 A		j		. L	1				,
S28N250	Piling works		100%	45 01-Mar-11 A	25-Mar-11 A		! ! !		1 1 1	 		! ! !		1 1 1
S28N260	Capping/Walling (incl. VO71: Details of typical section for slip road R verge		100%	54 26-Mar-11 A	03-Jun-11 A		1 1 1 1		 	1 1 1		1		1 1 1
S28N270	Capping (AUE)		100%	45 26-Mar-11 A	25-May-11 A		1	 	1			1		1
	Walling (AUE)		100%	55 26-May-11 A	30-Jul-11 A		! !	1	1	1				1
S28N290	Backfilling		100%	62 26-Sep-11 A	17-Dec-11 A		J ! !		- <del>-</del>					
Retaining \				<u> </u>			: ! !	; ; ; ;	: 1 1 1	: ! !				
S28N2105			100%	75 26-Feb-10 A	05-Jun-10 A			: 1 1	1 1 1 1	i i i			; ; ;	
S28N2115	Utilities Diversion		100%	60 07-Jun-10 A	17-Aug-10 A		1 1 1	1 1 1	1 1 1 1	1 1 1 1 1			; ! !	
			100%	60 18-Aug-10 A	29-Oct-10 A		1 1 1	1 1 1	1 1 1	1 1 1			 	1 1 1
	Pre-drilling for Piles		100%	15 21-Oct-10 A	19-Nov-10 A		 		 	 				
SESIVETES			1.30 /0	21 301 1071	.5.101 1071	1	1		1	1	1	i	1	- !

Activity I	n	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
ACTIVITY	J	Activity Name	Total Float	Complete	Duration Start	FIIIISII			Q3		45	Q4	47	46	Q1	
	S28N2130	Confirmation of Founding Level		100%	19 26-Mar-11 A	18-Apr-11 A	41	42	43	44	45	46	47	48	49	50
	S28N2134	Falsework removal beteew NLK deck P7 -P8		100%	26 07-Jan-13 A	01-Feb-13 A		1	 	 	 	1 1 1 1	i i i	1	1	
	S28N2135	Piling work for W74 (Stage 1: Bay1 - 3)		100%	75 21-Feb-13 A	22-Apr-13 A	r W74 (Stage 1	:  : Bay1 - 3)	 	 					1	
	S28N2140	Temporary Work for Excavation (Stage 1: Bay1 - 3)		100%	20 27-Jun-12 A	31-Jul-12 A				!		1				
	S28N2145	Excavation and Tie Back to Formation Level (Stage 1: Bay1 - 3)		100%	18 18-Jul-12 A	31-Jul-12 A		ļ				ļ	ļ			
	S28N2150	Pile Head Trimming and bearing plate (Stage 1: Bay1 - 3)		100%	14 27-May-13 A	11-Jun-13 A	Pile H	¦ ead Trimmi	ng and bearing	plate (Stage	1; Bay1 - 3)	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	!
	S28N2155	Retaining Wall Construction (Stage 1: Bay1 - 3)	57	26.67%	45 11-Jun-13 A	02-Sep-13		1	1	→ Retaining	Wall Constru	tion (Stage 1	: 1:: Bay1 - 3)		1	
	S28N2156	Base Slab (W74) (Bay 1- 3)	57	80%	30 25-May-13 A	01-Aug-13		1	Base Slab	(W74) (Bay	1- 3)					
	S28N2158	Wall Stem (W74) (Bay 1- 3)	57	10%	30 23-Jul-13 A	02-Sep-13				Wall Ster	m (W74) (Bay	1- 3)				
	S28N2160	Retaining Wall Construction (Stage 2: Bay 4 - 9)	-5	40.59%	202 23-Apr-13 A	16-Dec-13		ļ					Ret	aining Wall C	onstructio	on (Stage 2: Ba
	S28N2161	Falsework removal bewteen NLK deck P8 - P9		100%	26 23-Apr-13 A	20-Jul-13 A			alsework remo	val bewteen	NLK deck P8 -	P9			1	
	S28N2162	Piling work for W74 (Stage 2: Bay 4 - 9)	-5	20%	50 24-Jun-13 A	10-Sep-13		1	1	Piling	work for W74	Stage 2: Bay	4 - 9)		1	
	S28N2164	Temporary Work for Excavation (Stage 2: Bay 4 - 9)		100%	18 27-Jun-12 A	17-Jul-12 A			1	!		1	1			
	S28N2165	Excavation and Tie Back to Formation Level (Stage 2: Bay 4 - 9)		100%	19 18-Jul-12 A	31-Jul-12 A										
	S28N2167	Base Slab (W74) (Bay 4 - 9)	-5	0%	25 11-Sep-13	11-Oct-13					Base S	; \$lab (W74) (E	; Bay 4 - 9)	ļ		
	S28N2168	Wall Stem (W74) (Bay 4 - 9)	-5	0%	30 12-Oct-13	16-Nov-13		1	 	 		Wa	Stem (W74)	(Bay 4 - 9)	1	
	S28N2190	Backfilling	-5	0%	25 18-Nov-13	16-Dec-13		1	 	 			Bac	¦ kfilling		
	Noise Barrie	er NB43 (AD5)							1	!		1	1			1
	S28N2500	Utilities Diversion		100%	127 01-Jun-10 A	10-Feb-11 A										
	S28N2510	Temporary Noise Barrier Installation		100%	46 16-Nov-10 A	26-Dec-10 A		1	 	 		1			1	
	S28N2520	Noise Barrier Construction Stage 1 (Bay 1 - 3)		100%	72 03-Feb-12 A	14-Aug-12 A		1	 	 					1	
	S28N2525	Noise Barrier Construction Stage 2 (Bay 4 - 9)		100%	75 09-Jan-13 A	18-Jun-13 A	No	ise Barrier	onstruction Sta	age 2 (Bay 4	- 9)	1	1			1
	S28N2526	Noise Barrier Construction Stage 3 remaining (Bay 4 - 7) Wall	-6	0%	30 25-Sep-13	01-Nov-13					!	Noise Barr	ier Construct	ion Stage 3 re	maining (	(Bay 4 - 7) Wa
	S28N2530	Erection of Steel Post & Panel (Bay 1 - 3)		100%	75 29-Dec-12 A	31-Jan-13 A			 	! ! !	! ! !	 	 			! !
	S28N2531	Erection of Steel Post & Panel (Bay 4 - 9)	-6	0%	10 01-Nov-13	13-Nov-13		1	 	 		Erect	ion of Steel P	ost & Panel (I	3ay 4 - 9)	1
	Road Re-Co	onstruction Works, Roadworks, Drainage & Utilities							1	!		1				
	S28N3890	VO 25: Construction of Cross road Ducts & traffic signal Drawpits at propo		100%	10 27-Apr-11 A	12-Sep-12 A	Road West									
	S28N3900	CLP & Gasmian Diversion, Tear Drop/Slip Road T(incl. VO 19: Protection f		100%	75 15-Oct-11 A	12-Jun-12 A		1		1 1 1	 	1 1 1 1	1 1 1	1	1	1
	S28N3902	DN400 landfill gasmain at NB41-stage 1		100%	25 21-Nov-12 A	28-Nov-12 A		}	<u>;</u>		!	1	1	}		
	S28N3904	DN400 landfill gasmain at NB41-stage 2		100%	25 17-Dec-12 A	02-Mar-13 A	ge 2	1	 	1			1		1	
	S28N3906	New Joint Box construction for CLP 132kV		100%	50 24-Dec-12 A	14-May-13 A	v Joint Box con									
	S28N3910	Watermain, traffic light, road drains & gully, Tear Drop/Slip Road T (incl. V		100%	75 15-Aug-11 A	11-Mar-13 A	ins & gully, Tea	r Drop/Slip	Road T (incl. V	(O52)			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1
	S28N3920	COD: TTA Case 50 Stage 1 & 2 (Epron ordered: 16-12-11, expected delive		100%	24 16-Dec-11 A	21-Apr-12 A		1		1 1 1	1 1 1	1			1	1 1 1
	S28N3970	Pavement at Tear Drop Area, Slip Road T & Traffic diversion		100%	30 18-May-12 A	11-Mar-13 A	ip Road T & Tr	affic divers	on¦			1	 	1		
	S28N4002	Roadworks, Drainages & Utilities, TWSRW Road from NB41-bay 6 to NB4		100%	150 18-May-12 A	23-Mar-13 A	:	1	n NB41-bay 6 to	1	Ĭ.	1				
	S28N4004	Drainage, Utilities & Removal of existing paving (incl.TTA & VO 77 Provisio		100%	75 18-May-12 A	11-Mar-13 A		1	& VO 77 Provisi	1		1	1		 	1 1 1
	S28N4006	Road surfacing, Tai Wo Service Road West from NB41-bay 6 to NB42-ba		100%	60 22-Jan-13 A	23-Mar-13 A	ervice Road W	est from NE	41-bay 6 to NB		1	-	s for NB41 & I	NB42)		1 1 1
	S28N4010	Roadworks to NKL Flyover and Ramps	-10	96%	175 30-Jan-13 A	02-Aug-13		1	;	1	over and Ramp	-				1
	S28N4012	Roadworks to NKL Flyover and Ramp - South Ramp to SA		100%	50 30-Jan-13 A	24-Jul-13 A		ļ			and Ramp - S	ļ	ļ	ļ		
	S28N4014	Roadworks to NKL Flyover and Ramp - North Ramp to NA	-8	75%	20 13-Jun-13 A	31-Jul-13		1	į	1	ver and Ramp		1			
	S28N4020	Road Marking of New Lam Kam Bridge and Final Diversion of South Boun	-10	30%	10 23-Jul-13 A	02-Aug-13		: [	Road Mar	rking of New I	Lam Kam Brido	ge and Final [ ;	Diversion of S	-	1	n NLK Bridge to
	S28N4024	Road and Drainage Works (along W74 and NB38)	-5	0%	20 17-Dec-13	11-Jan-14		1	 	 	 	1		1	1	nagė Works (a
	S28N4030	300d, 1200d watermain (chA9.00-ch182.00) & Firemains	50	80.61%	362 06-Aug-10 A	19-Oct-13	_	1		1	300	0d, 1200d wa	termain (ch A9	00-ch182.00	) & Firema	ains
	S28N4040	Cable Detection and Trial Pit Excavation		100%	72 06-Aug-10 A	19-Sep-10 A		ļ 			; - <del></del>	<u> </u>	<u> </u>	ļ		
	S28N4050	Sheet Pile & ELS		100%	72 20-Sep-10 A	15-Feb-11 A		1		: 	; 1 1	1	1			: 1 1 1
	S28N4060	TBM Boring and Installation of Sleeve Pipe		100%	60 16-Feb-11 A	23-Mar-11 A		1 1 1	1	1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	 	1 1 1
	S28N4070	Water Pipe installation - inside the sleeve pipe (ch0.00-ch70.00)		100%	50 24-Mar-11 A	28-Jul-11 A		1		1 1 1	1	1	1			1
	S28N4080	Water Pipe installation (DN1200 chA9.00-0 & DN300 CHA7.3 - 0)		100%	75 19-May-12 A	19-Nov-12 A		1	1	 	 	1		1	1	

Activi	ty ID	Activity Name	Total	Activity %	Original Start	Finish				2013					2014	
		·	Float	Complete	Duration		41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
	S28N4090	Water Pipe installation (DN1200 CH70-165 & CH210-530 approx)		100%	75 28-Dec-11 A	02-Mar-13 A	70-165 & CH2	- L			73	1 40	7/	70	13	30
П	S28N4202	Water Pipe installation (DN1200 CH185 -210 cross road)		100%	75 28-Nov-12 A	02-Mar-13 A	1185 -210 cros	s road)								
П	S28N4220	Water Pipe installation (DN300 CH70 -166)		100%	75 21-Jan-13 A	09-Apr-13 A	tion (DN300 C	H70 -166)			1			1		
П	S28N4230	Water Pipe installation (DN300 CH166 -247)		100%	75 04-Jun-12 A	09-Apr-13 A	tion (DN300 C	H 166 -247)	1	1	i 	1		1 1 1 1	1 1 1 1	1
П	S28N4240	Water Pipe installation (DN300 CHBB5 - 49)		100%	75 15-Feb-13 A	09-Apr-13 A	tion (DN300 C	H BB5 - 49)		1	1 1 1			1 1 1	1 1 1	1 1 1
П	S28N4250	Water Pipe installation (DN600 CHB0-84 & CHC0-76 Cross Road)		100%	75 28-Nov-12 A	26-Apr-13 A	installation (D	N600 CHB0	84 & CHC0-	76 ¢ross Road)	 			1 1 1 1 1	1 1 1	1 1 1
П	S28N4260	Remaining Works for Water Pipe installation (DN1200 CH183 - 227 cross r	-1	0%	75 14-Aug-13	13-Nov-13						Ren	naining Works	for Water Pip	installation	ı (DN1200
П	S28N4270	Remaining Works for Water Pipe installation (DN1200 CH280 - 330)	90	70%	75 14-May-13 A	29-Aug-13		1	1	Remaining	Works for Wa	ter Pipe inst	al¦ation (DN120	; 00 CH280 - 30	30)	
П	S28N4280	Remaining Works for Water Pipe installation (DN1200 CH515 - 529)	90	0%	30 26-Jul-13	29-Aug-13				Remaining	Works for Wa	ater Pipe inst	alation (DN120	; 00 CH515 - 52	29)	1
П	S28N4290	Remaining Works for Water Pipe installation (DN600 CHB2.8 - 30.2)	50	10%	60 08-Jul-13 A	19-Oct-13			1	1	Re	maining Wo	rks for Water F	ipe installatio	(DN600 C	HB2.8 - 30
П	S28N4300	Remaining Works for Water Pipe installation (DN600 CHC10.4 - 28.4)	50	10%	60 08-Jul-13 A	19-Oct-13				1	Re	maining Wo	rks for Water F	i pe installatio	(DN600 C	HC10.4 -
П	S28N4310	Remaining Works for Water Pipe installation (DN300 CH183 - 227 cross ro	-1	0%	75 14-Aug-13	13-Nov-13						Ren	naining Works	for Water Pip	:¦ e¦installatior	ı (DN300 (
П	S28N4320	Remaining Works for Water Pipe installation (DN300 CHBB0 - 11)	-1	0%	45 13-Nov-13	08-Jan-14				1	1		-	¦ Remair	ing Works f	or Water I
П	S28N4330	Roadworks, Drainages & Utilities at TWSRW Road from NB38 to NB41-ba	-6	0%	0 26-Nov-12 A	01-Nov-13		<u> </u>		<u> </u>		☐ Roadworl	ks, Drainages 8	਼ੇ ਪ੍ਰੀ Utilities at T\	VSRW Roa	d from NE
П	S28N4340	CLP Tie-in (Cross road and joint bay)		100%	75 26-Nov-12 A	04-Jun-13 A	CLP Tie	-in (Cross ro	ad and joint l	oay)				1		
Н	S28N4350	Removal existing paving, Drainage & Utilities (incl.TTA case 50 stage 7 &	-6	0%	35 14-Aug-13	25-Sep-13		,			Removal exi	sting paving,	Drainage & Ut	ilities (incl.TT/	case 50 st	age 7 & 8
П	S28N4360	Road Works and Road surfacing at Tai Wo Service Road West from NB38	-6	0%	30 25-Sep-13	01-Nov-13			·		<u>-</u>	Road Wo	orks and Road s	surfacing at T	ai Wo Servio	ce Road V
П	S28N4370	Road Works and Road Surfacing at Slip Road T (Slow Lane)	-6	0%	30 25-Sep-13	01-Nov-13					1	1	rks and Road s	-	1	- 1
Н	S28N4380	Roadworks, Drainages & Utilities at TWSRW Road from NB38 to NB41- b	-11	0%	94 25-Sep-13	18-Jan-14			1		1 1 1			-	dworks, Dr	
H	S28N4390	Removal existing paving, Drainage & Utilities (incl.TTA case 50 stage 9 &	-1	0%	35 25-Sep-13	07-Nov-13					!	Remov	્ર /a existing pav	1	1	;
Н	S28N4400	Road Works and Road surfacing at Tai Wo Service Road West from NB38	-1	0%	35 07-Nov-13	18-Dec-13							1	ad Works and	1	1
П	S28N4410	Road Works and Road Surfacing at Slip Road T (Fast Lane)	-1	0%	35 07-Nov-13	18-Dec-13								ad Works and		
H	S28N4420	Remaining Road Works at Slip Road T and TWSRW Road from NB38 to	-11	0%	15 31-Dec-13	18-Jan-14			1	1	1 1 1	1		1	haining Roa	1
H	S28N4430	CLP Tie-in (joint bay)		100%	75 01-Dec-12 A	04-Jun-13 A	CLPTie	-in (joint ba		1	1 1 1	1		1		
H	S28N4440	Transition Road Construction Works for TWSRW Road C2/C3 interface	117	70%	60 10-Jun-13 A	15-Aug-13		., ()0		ran sition Road	Construction V	; Vorks for TW	: /SRW Boad C2	; 2/C3 interface	1 1 1	
		ers & Road Barriers		10,0		is in a									1	1
H	<u> </u>	er NB38, NB39, NB40 & NB41 (AD5)								·	<del>-</del>					
П	S28N2301	WSD/DSD/HKCG/PCCW/HGC/CATV/NWT/HKBN/TGT/CLP Diversion		100%	124 19-May-10 A	15-Oct-10 A			1	1	1 1 1	1 1 1		1 1 1	1 1 1	1
ı	S28N2302	Temporary Noise Barrier Installation		100%	45 18-Oct-10 A	26-Dec-10 A		1						1 1 1	1 1 1	1 1 1
Н	S28N2303	Pre-Drilling for NB39 & NB41		100%	21 26-Jan-11 A	22-Feb-11 A					! ! !			1 1 1 1 1	1 1 1	1 1 1
Н	S28N2304	Confirmation of Founding Level		100%	14 26-Mar-11 A	12-Apr-11 A			1	1	 			1	1	1
П	S28N2310	Excavation		100%	10 03-Feb-12 A	14-Feb-12 A					<del> </del>			<u> </u>		
Н	S28N2314	Noise barrier Construction (NB38 - NB41)	-6	84.93%	937 26-Apr-11 A	14-Jan-14	<u> </u>			i i	; ! !			Nois	barrier Co	nstruction
Н	S28N2316	Noise barrier Construction NB38	79	0%	30 14-Aug-13	18-Sep-13		1		i N	oise barrier Co	nnstruction N	; B38	1		
H	S28N2318	Noise barrier Construction NB39 (base slab)		100%	75 19-Apr-12 A	31-Dec-12 A					:			1 1 1	1 1 1	1 1 1
Н	S28N2320	Noise barrier Construction NB41 (incl. VO 23: Provision of Drainage of Noi		100%	50 26-Apr-11 A	25-Jun-11 A				 	1 1 1			1 1 1	1 1 1	1 1 1
	S28N2330	Noise barrier Construction NB39 (Wall)	74	50%	30 27-Feb-13 A	25-Sep-13					Noise barrie	Construction	n NB39 (Wall)	1		
Н	S28N2340	Erection of steel and panel (NB41)	7 7	100%	24 11-May-12 A	05-Jun-12 A		!	1	!			l IVBOS (VVall)	1	1	
	S28N2350	Erection of steel and panel (NB39)	74	0%	10 25-Sep-13	08-Oct-13				г	Frection	n of steel and	d panel (NB39)	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
	S28N2355	Erection of steel and panel (NB38)	79	0%	10 23-3ep-13	02-Oct-13					į	f steel and p	· '	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1
	S28N2370	Noise Barrier Construction NB40 (Bay1 to Bay3)	-6	0%	50 01-Nov-13	02-001-13 02-Jan-14					LI GOLIOIT C	, steer and p	(INDOO)	Noise Ron	rier Constru	ction NR4
	S28N2380	Noise Barrier Construction NB40 (Bay4 to Bay5)	107	55%	40 25-Mar-13 A	15-Aug-13				loise Barrier Co	nstruction NP	40 (Bay4 to B	3a\v5\	- INDISCIDAN		
	S28N2385	Erection of steel and panel (NB40)	-6	0%	10 02-Jan-14	14-Jan-14			i	ี่ บลเกษา 00	HOLIOUND!	+υ (Day+ IU E	July 0)	Eros	tion of steel	and nana
		trol & Survelance System	-0	U 76	10 02-3411-14	14-Jaii- 14					1			i ciec	ion or steer	and pane
1	S28N4800	TCSS (ch4820-ch5640) & (Gantry G29) (incl. VO73 Revised Sign Gantry D	107	30%	40 20 Apr 12 A	27 Aug. 12				TCSS (ch.4	920 ob 5640) s	(Canthy C2	9); (incl. VO73 F	ovised Sign	antry Dota	ile)
			10/	30%	40 29-Apr-13 A	27-Aug-13				<u> </u>	U4U-U1304U) (	k (Gantiy G2)	<i>∪յ</i> ; (пты. <b>۷</b> ∪/3 f	cviseu sigii	yanıı y Dela ¦	(چارا ا
	Landscapin		67	00/	50 16 Au~ 10	16 Oct 12						decesio = M	orke (ob 4000	E640)		
	S28N6000	Landscaping Works (ch4820 - 5640)	67	0%	50 16-Aug-13	16-Oct-13				!	Lan	uscaping wo	UINS (CH482U -	ÿ04∪) ¦	1 1 1 1	1 1 1
	South Bou	<u> </u>		0.	07	07 07 00 10 Mag 10	or or or or or or or or or or or or or o	07 07 00 10 7 to 00 10			or on so to ray to				67 0% 50 16-Aug-13 16-Oct-13 Landscaping Works (ch4820 - 5640)	

Activity ID	Activity Name	Total		Original Start	Finish	2013 2014										
Activity ID	Activity Name	Float		Duration		F	44	40	Q3		45	Q4		40	Q1	
Preliminari	es						41	42	43	44	45	46	47	48	49	50
S28S0000	Site Clearance/Access Rd (incl. VO4 & VO5: Revised setting out plan of Sli		100%	0 23-Jun-10 A	01-Feb-11 A					1	i 1 1	 	i i i	i 1 1	i 	
S28S0010	Site Clearance		100%	75 23-Jun-10 A	18-Sep-10 A						1 1 1				 	
S28S0020	Access Rd		100%	75 27-Jul-10 A	01-Feb-11 A						 	!	!			
Roadworks	s, Drainage & Utilities										1					
S28S4010	Roadworks, Drainages & Utilities (CH4820 - Ch5700)(incl. VO20: Revised	-6	73.33%	454 11-May-12 A	17-Dec-13			!	1	!	1	1	Roa	¦ dworks, Drain	¦ ages & Utili	ities (CH482
S28S4012	Removal of existing paving - Stage 1 (CH5300 - 5700 & Slip Road W)		100%	75 11-May-12 A	08-Jun-13 A		Remov	al of existin	; g paving - Stag	ge 1 (CH5300 -	5700 & Slip F	Road W)			 	
S28S4016	Utilities - Stage 1		100%	75 11-May-12 A	08-Feb-13 A						1				1	
S28S4020	Road and Drainages Works - Stage 1 (incl.VO 75 Modification of existing S		100%	75 11-May-12 A	25-Jun-13 A			Road and I	rainages Wor	rks - Stage 1 (in	cl.VO 75 Mod	ification of e	isting SAV Cl	namber)		
S28S4021	Road Surface and Roadmark - Stage 1 (Slow Lane)		100%	30 18-Mar-13 A	18-Jul-13 A	<b>−</b>		÷ F	oad Surface a	and Roadmark -	Stage 1 (Slo	w Lane)	1	i i i	i 	
S28S4025	Removal of existing paving - Stage 2 (CH5300 - 5700 & Slip Road W)	-6	30%	30 19-Jul-13 A	19-Aug-13			_	F	Removal of exist	ting paving - :	s stage 2 (CH5	300 - 5700 &	Slip Road W)	!	
S28S4027	Utilities - Stage 2 (CH5300 - 5700) (incl. VO 77 Provision of cable duct for	-6	0%	30 20-Aug-13	24-Sep-13				_	-	Utilities - Stag	e 2 (CH5300	- 5700) (incl.	VO 77 Provisi	on of cable	duct for pow
S28S4029	Road and Drainages Works - Stage 2	-6	0%	30 20-Aug-13	24-Sep-13				_	;	¦ Road and Dra	¦ inages Work	s - Stage 2		!	
S28S4031	Road Surface and Roadmark - Stage 2 (Fast Lane)	-6	0%	30 25-Sep-13	31-Oct-13	1:				_		Road Surf	ace and Road	mark - Stage 2	2 (Fast Lane	e)
S28S4085	Remaining Road Works at Slip Road W	-6	0%	40 01-Nov-13	17-Dec-13	$\exists \exists$			1				Rer	naining Road	Works at SI	lip Road W
Noise Barri	iers 44 & Road Barriers										i 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		i ! !	
Noise Barr					<u></u>						1 1 1				 	
S28S2000	Excavation for NB44		100%	219 25-Aug-10 A	24-May-11 A						1	1	1		!	
S28S2010	Excavation for NB44 (Bay1& Bay2)		100%	44 25-Aug-10 A	18-Oct-10 A	1:								 		
S28S2020	Excavation for NB44 (Bay3 & Bay4)		100%	44 19-Oct-10 A	08-Dec-10 A	$\exists \exists$						1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i 1 1	 	
S28S2030	Excavation for NB44 (Bay5 & Bay6)		100%	44 26-Apr-11 A	26-May-11 A						1 1 1				1 1 1	
S28S2040	Excavation for NB44 (Bay7 & Bay8)		100%	36 26-Aug-11 A	10-Oct-11 A						1 1 1				 	
S28S2050	Excavation for NB44 (Bay9 & Bay10)		100%	43 14-Oct-11 A	03-Dec-11 A						1		1		!	
S28S2060	Noise Barrier Footing Construction for NB44 (incl. VO 46: Modification of N		100%	282 26-Mar-11 A	20-Dec-11 A											
S28S2070	Noise Barrier Footing Construction for NB44 (Bay 1)		100%	32 26-Mar-11 A	15-Apr-11 A						1 1 1				; ! !	
S28S2080	Noise Barrier Footing Construction for NB44 (Bay 2)		100%	32 06-Apr-11 A	21-Apr-11 A						1 1 1				1 1 1	
S28S2090	Noise Barrier Footing Construction for NB44 (Bay 3)		100%	32 26-May-11 A	04-Jun-11 A						1 1 1					
S28S2100	Noise Barrier Footing Construction for NB44 (Bay 4)		100%	30 26-Apr-11 A	26-May-11 A						1				!	
S28S2110	Noise Barrier Footing Construction for NB44 (Bay 5)		100%	24 26-Sep-11 A	25-Oct-11 A	1-1-					L				L	
S28S2120	Noise Barrier Footing Construction for NB44 (Bay 6)		100%	24 26-Oct-11 A	22-Nov-11 A						, 1 1 1			i i i	i 	
S28S2130	Noise Barrier Footing Construction for NB44 (Bay 7)		100%	24 23-Nov-11 A	20-Dec-11 A						1 1 1				! ! !	
S28S2140	Noise Barrier Footing Construction for NB44 (Bay 8)		100%	24 23-Nov-11 A	20-Dec-11 A						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		1	
S28S2150	Noise Barrier Footing Construction for NB44 (Bay 9)		100%	23 23-Nov-11 A	20-Dec-11 A						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
S28S2160	Noise Barrier Footing Construction for NB44 (Bay 10)		100%	18 23-Nov-11 A	20-Dec-11 A									i		
S28S2170	Remaining NB44 installation of panel	68	0%	7 26-Jul-13	02-Aug-13				Remaini	ng NB44 installa	ation of panel				 	
Traffic Con	itrol & Survelance System										1				1	
S28S4800	TCSS	61	42.58%	130 28-Feb-13 A	24-Oct-13	-		<u> </u>		<u> </u>	-	css				
S28S4810	TCSS - Stage 1 (ch4820 - ch5520)	104	70%	24 28-Feb-13 A	03-Aug-13			1	TCSS - S	Stage 1 (ch482	0 - ch5520)	1	1	1	1 1 1	
S28S4850	TCSS - Stage 5 (ch5520 - ch5640), (Gantry G56) (incl. VO73 Revised Sign	. 61	0%	24 24-Sep-13	24-Oct-13	1		1	:			CSS - Stage	5 (ch5520 - c	h5640), (Gan	try G56) (in o	cl. VO73 Rev
Modificatio	on of Existing Bridge			\ 							1		1		1	
S28S1200	Modification of Lam Kam Rd. Flyover	-11	0%	123 03-Aug-13	31-Dec-13						1	1	i	Modification	of Lam Ka	am Rd. Flyov
S28S1240	Diversion for modification kerb and road reconstruction (N/B)	-11	0%	43 03-Aug-13	24-Sep-13					1	Diversion for	nodification k	erb and road	reconstruction	(N/B)	
S28S1250	Removal central barrier and road construction	-11	0%	40 24-Sep-13	12-Nov-13					_	!		1	rier and road	constructio	n
S28S1260	Diversion for modification kerb and road reconstruction (S/B)	-11	0%	40 12-Nov-13	31-Dec-13					!	L		1		r modificati	ion kerb and
Road Cons	struction and Road Resufacing	·		,						; ; ;	1 1 1	1			: ! !	
S28S4960	Road Construction and Resurfacing S/B for SA28	-6	0%	60 01-Nov-13	13-Jan-14					 	1 1 1		1	Road	Constructio	on and Resur
Site Area S	SA29										1					
PHSA2920	Possession of SA29 (Day270)		100%	0 27-Jul-10 A							! !				: !	
				J.	I			:	:	:	:	:	:	:	:	<u>:</u>

ctivity ID	Activity Name	Total	Activity %	Original Start Duration	Finish				2013					2014	
Duvity ID	Activity Name	Float			1		40	Q3		45	Q4	47	40	Q1	
SA290000	Site Area SA29 Works Period (incl. VO002 & VO0011: Fencing details alo	164	81.8%	946 27-Jul-10 A	14-Jan-14	41	42	43	44	45	46	47	48 Site A	49 Area SA29 Wor	50 orks Perio
SA290010	Site Area SA29 Works Completion	164	0%	0	14-Jan-14								1	Area SA29 Wor	
SA290020	Temporary Traffic Arrangement (Detail shall refer to supplementary inform	132	81.52%	764 27-Jul-10 A	14-Jan-14		1	!	 	1 1 1	1 1	 	1	orary Traffic A	
SA290030	Overall Utilities Diversion (Detail shall refer to supplementary information)	132	81.52%	764 27-Jul-10 A	14-Jan-14		1	-		 	!	1	1	all Utilities Dive	_
North Bou	<u> </u>								1	1		1			
Preliminarie							i						. <del> </del>		
	Site Clearance/Access Rd		100%	60 26-Jan-11 A	09-Apr-11 A					i ! !		1			
	s, Drainage & Utilities				от ф					! ! !	1	1 1 1			
S29N4010	Roadworks, Realignment of Tai Wo Service Rd. West (NB42)		100%	58 13-Apr-12 A	21-Jan-13 A	t (NB42)						1			
S29N4020	Roadworks, Realignment of Tai Wo Service Rd. West (exclude NB42)		100%	38 15-Jan-13 A	28-Mar-13 A	t of Tai Wo Se	; rvice Rd. V	vest (exclude	NB42)						
S29N4100	Gravity Sewer Line (4 sections) (incl. VO 8 & VO 35: Revised layout of Sou		100%	111 03-Jan-11 A	15-Dec-12 A	Southern Trur	4								
S29N4110	Gravity Sewer Line - Stage 1 (STS10.30-80)		100%	60 03-Jan-11 A	31-Mar-12 A		in Sewer &								
S29N4120	Gravity Sewer Line - Stage 2 (STS10.10-30)		100%	60 01-Apr-11 A	30-Jul-11 A										
	Gravity Sewer Line - Stage 2 (STS10.80-105)		100%	63 28-May-11 A	15-Dec-12 A			1	 	! !		 	 		
	ers & Road Barriers		10070	20 May 11 A	10 000 12 A					 		1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	ers & noad barriers er 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				1	1				1 1	
S29N2000	Footing for NB42 (Bay1 - Bay9) (incl. VO 7: Construction of modified noise		100%	110 06-Dec-10 A	05-Jul-11 A				1						
S29N2020 S29N2030	Footing for NB42 (Bay1 - Bay5)			60 06-Dec-10 A	05-Jul-11 A										
	, , , ,		100%		05-Jul-11 A	_									
S29N2040	Footing for NB42 (Bay6 - Bay9)		100%	50 06-Dec-10 A			į						<u> </u>	·	
S29N3000	Construct Noise Barrier & Beam Barrier (incl. VO 23. Provision of Drainage		100%	60 26-Sep-11 A	01-Aug-12 A					!		 			
Landscapin			00/	FO 40 Nov. 40	44 land4							!			- (Nl N
	Landscaping Works (Near NB43)	-6	0%	50 13-Nov-13	14-Jan-14							1	Land	scaping Works	; (Near N
Site Area S				,					1						
PHSA3210	Possession of SA32 (Day365)		100%	0 25-Feb-11 A			ļ					<del>.</del>	. <del> </del>		
SA320000	Site Area SA32 Works Period		100%	265 26-Feb-11 A	17-Nov-11 A				1						
SA320010	Site Area SA32 Works Completion	-10	0%	0	16-Jan-14				 	! ! !		1 1 1	♦ Site	Area SA32 Wo	orks Con
General												1			
S32G0000	Site Clearance/TTM		100%	72 26-Mar-11 A	25-Jun-11 A				1					1 1	
S32G4005	Application XP for Construct Roadside Fully Variable Message Sign	-9	60%	60 11-Mar-13 A	22-Aug-13							Fully Variable M			
S32G4015	Construct Roadside Fully Variable Message Sign (RFVMS3)(include duct, f	-9	0%	50 23-Aug-13	23-Oct-13					·	Gonstruct R	oadside Fully V	!	1	
S32G4025	Construct Roadside Fully Variable Message Sign (RFVMS2)(include duct, f	-9	0%	50 23-Aug-13	23-Oct-13					1	Construct R	oadside Fully V	ariable Messa	ge Sign (RFVM	/IS2)(incl
S32G4035	Construct Roadside Fully Variable Message Sign (RFVMS1)(include duct, f	-9	0%	40 24-Oct-13	09-Dec-13				 	 	!	Constr	uct Roadside I	fully Variable N	Message
S32G4045	Construct Roadside Fully Variable Message Sign (TP04)(include duct, footi	-9	0%	30 10-Dec-13	16-Jan-14								Con	struct Roadside	e Fully V
S32G4060	VO 13: Relocation of existing Directional Signs in the Vicinity of Lam Kam		100%	10 27-Apr-11 A	11-Sep-12 A		<u>.</u>						<u> </u>		
Constructi	on of New Lam Kam Road											1			
Substructi	ure and Pier Construction														
South Ram	р								1			1			
S28N1213	Temporary Work for Excavation		100%	15 27-Jul-12 A	13-Aug-12 A							1			
S28N1214	Excavation		100%	20 23-Jul-12 A	08-Aug-12 A							1			
S28N1215	Construction of South Ramp (incl. VO72: revised North & South Ramps Re		100%	145 23-Jul-12 A	26-Jan-13 A	orth & South R	amps Reta	ining Wall)							
S28N1216	Base Slab		100%	60 23-Jul-12 A	19-Oct-12 A										
000111017	Wing Wall		100%	75 24-Sep-12 A	31-Dec-12 A										
S28N1217			100%	40 28-Dec-12 A	25-Jan-13 A										
S28N1217 S28N1227	Backfilling to South Ramp			The state of the s		1 :	1	1	i i	i	i			'	
	l						1		!	! !					
S28N1227	l		100%	45 28-Dec-11 A	28-Jan-12 A										

Acti	vity ID	Activity Name	Total	Activity % Complete			Finish	2013 2014										
	,		Float						41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
	S28N1234	Cap and Pier (incl. VO29: revised piling details)		100%	70	03-Oct-12 A	26-Nov-12 A		71	72	70	77	70	70	71	70	73	
Н	S28N1236	Pile Cap		100%	25	03-Oct-12 A	11-Oct-12 A			! !	!					1 1 1	1	
Н	S28N1238	Pier		100%	45	5 15-Oct-12 A	26-Nov-12 A											
н	South Abut	ment												1		 		
Ш	S28N1220	Gas Main Diversion		100%	24	28-Dec-11 A	30-Jan-12 A			! ! !						1 	1 1	
Н	S28N1230	Piling Work (24shp)		100%	60	15-Feb-12 A	28-Jul-12 A			1	!			1		1 1 1	1	
	S28N1240	Cap and Abutment (incl. VO29: revised piling details)		100%	115	5 15-Oct-12 A	25-Jan-13 A	<b>3</b> )										
П	S28N1250	Pile Cap		100%	40	15-Oct-12 A	10-Nov-12 A			! !	i 			! !		1 1 1	1	
П	S28N1260	Abutment		100%	50	12-Nov-12 A	15-Dec-12 A							1		! ! !		
П	S28N1270	Backfilling to South Abutment		100%	40	28-Dec-12 A	25-Jan-13 A			 	1			1		I I I	1	
Ш	Pier NLKP2						<u> </u>											
П	S28N1254	Piling Work (28shp)		100%	57	20-Sep-10 A	11-Nov-10 A									 		
	S28N1259	Pile Cap Construction (incl. VO29: revised piling details)		100%	46	06-Dec-10 A	10-Feb-11 A			1 1 1	 			1 1 1		1 1 1	1 1 1	
Ш	S28N1261	Pier Construction		100%	36	11-Feb-11 A	18-Jul-11 A				     			1     		! ! !	 	
	Pier NLKP3					1	J.			!	1					1 1 1	1	
	S28N1271	Pre-drilling for Piles		100%	11	11-Sep-10 A	24-Sep-10 A			: :	 					! !	1	
	S28N1272	Confirmation of Founding Level		100%	21	12-Sep-10 A	15-Oct-10 A			: ! !				: ! !		! ! !	1	
Ш	S28N1273	Piling Work (24shp)		100%	68	20-Sep-10 A	16-Nov-10 A			1 1 1	 			1 1 1		1 1 1	1 1 1	
П	S28N1274	Temporary Shoring System		100%	31	17-Nov-10 A	03-Dec-10 A			J				1	\	     	 	
П	S28N1275	Excavation to Formation Level		100%	10	06-Dec-10 A	18-Dec-10 A			! ! !				1		 	1	
П	S28N1276	Pile Head Trimming and bearing plate		100%	11	20-Dec-10 A	24-Dec-10 A											
П	S28N1277	Pile Cap Construction (incl. VO29: revised piling details)		100%	24	20-Dec-10 A	05-Jan-11 A			! !	i 			1		! ! !	1	
П	S28N1278	Backfilling		100%	30	26-Feb-11 A	01-Apr-11 A			! !	!			! !		1 1 1 1	1 1 1	
П	S28N1279	Pier Construction		100%	61	02-Apr-11 A	11-Jun-11 A				·			1		     	    	
Ш	Pier NLKP4						,											
П	S28N1281	Gas main Diversion		100%	120	13-May-10 A	31-Jul-10 A			! !	 			1			1	
Ш	S28N1282	Pre-drilling for Piles		100%	9	01-Aug-10 A	14-Aug-10 A			! ! !						1 1 1 1	1 1	
Ш	S28N1283	Confirmation of Founding Level		100%	22	2 16-Aug-10 A	31-Aug-10 A			1	!						1	
П	S28N1284	Piling Work (16shp)		100%	63	01-Sep-10 A	30-Sep-10 A									!		
П	S28N1285	Temporary Shoring System		100%	44	20-Oct-10 A	23-Oct-10 A			! !	 			1			1	
П	S28N1286	Excavation to Formation Level		100%	7	25-Oct-10 A	28-Oct-10 A	1		! ! !						1 1 1 1	1 1	
Ш	S28N1287	Pile Head Trimming and bearing plate		100%	14	29-Oct-10 A	06-Nov-10 A			! ! !				1		 	1	
П	S28N1288	Pile Cap Construction (incl. VO29: revised piling details)		100%	21	08-Nov-10 A	19-Nov-10 A											
	S28N1289	Backfilling		100%	30	20-Dec-10 A	11-Jan-11 A			 	 			1				
	S28N1290	Pier Construction		100%	71	02-Feb-11 A	26-Mar-11 A			! ! !	1 1 1			1		 		
	Pier NLKP5										1			1		1 1 1	1	
	S28N1301	Gas main Diversion		100%	120	13-May-10 A	31-Aug-10 A			1	1						1	
	S28N1302	Pre-drilling for Piles		100%	7	01-Sep-10 A	11-Sep-10 A				; !					:   		
	S28N1303	Confirmation of Founding Level		100%	14	13-Sep-10 A	25-Sep-10 A				 			 				
	S28N1304	Piling Work (16shp) (incl. VO001: Revised Layout of Piles at New Lam Ka		100%	62	26-Sep-10 A	19-Oct-10 A			! ! !	1 1 1			1 1 1		1 1 1 1	1	
	S28N1305	Temporary Shoring System		100%	44	20-Oct-10 A	05-Nov-10 A			! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1 1 1 1	1	
	S28N1306	Excavation to Formation Level		100%	7	7 08-Nov-10 A	12-Nov-10 A			1	 					1 1 1 1	1	
	S28N1307	Pile Head Trimming and bearing plate		100%	14	15-Nov-10 A	27-Nov-10 A				; !					:   		
	S28N1308	Pile Cap Construction (incl. VO29: revised piling details)		100%	21	29-Nov-10 A	11-Dec-10 A			1	 			1				
	S28N1309	Backfilling		100%	30	13-Dec-10 A	18-Dec-10 A			1 1 1	1 1 1			1 1 1		1 1 1 1	1	
	S28N1310	Pier Construction		100%	74	28-Dec-10 A	28-Mar-11 A			!	1					1 1 1 1	1	
	Pier NLKP6									: : :	1					! !	1	
	S28N1321	Gas main Diversion		100%	150	13-May-10 A	10-Nov-10 A			: !	! ! !							
											•							

Activ	vity ID	Activity Name	Total	Activity %	Origina	Start	Finish					2013					2014	
	., :=		Float	Complete	Duration			F	41	42	Q3 43	44	45	Q4 46	47	48	Q1 49	50
	S28N1322	Pre-drilling for Piles		100%	14	21-Jul-10 A	23-Feb-11 A	_	41	42	43	- tg-tg	40	40	47	40	43	30
Н	S28N1323	Confirmation of Founding Level		100%	14	21-Jul-10 A	25-Feb-11 A				1 1 1			1	1 1 1 1	1 1 1		
Ш	S28N1324	Piling Work (23shp)		100%	75	28-Feb-11 A	28-Mar-11 A				1					1		! !
Н	S28N1325	Temporary Shoring System		100%	44	26-May-11 A	18-Jul-11 A											· ·
Н	S28N1326	Excavation to Formation Level		100%	7	7 05-May-11 A	23-Jun-11 A								!			
Н	S28N1327	Pile Head Trimming and bearing plate		100%	14	29-Jun-11 A	05-Jul-11 A	-							i T		<u>-</u>	<sup> </sup>
Н	S28N1328	Pile Cap Construction (incl. VO29: revised piling details)		100%		3 28-Jul-11 A	24-Aug-11 A				 	i 			1 1 1	 		,
Н	S28N1329	Backfilling		100%		3 26-Sep-11 A	29-Oct-11 A				1 1 1			1 1 1 1	! ! !	1 1 1 1		
Н	S28N1330	Pier Construction		100%		28-Sep-11 A	12-Nov-11 A				1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1		
Н	Pier NLKP7										 				1 1 1	 		ı
Н	S28N1341	Realignment of Existing slip road		100%	45	19-May-10 A	13-Jul-10 A	-							 			,
Н	S28N1342	Existing Water main Diversion		100%		5 14-Jul-10 A	03-Sep-10 A								! !			
Н	S28N1343	Pre-drilling for Piles		100%		7 04-Sep-10 A	18-Sep-10 A				1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1	!	
Н	S28N1344	Confirmation of Founding Level		100%		13-Sep-10 A	25-Sep-10 A				 			1 1 1 1	! ! !	! !		
Н	S28N1345	Piling Work (16shp)		100%		2 26-Jan-11 A	28-Feb-11 A				 				1 1 1 1	 		
	S28N1346	Temporary Shoring System		100%		08-Mar-11 A	16-Apr-11 A		ļļ					: 	¦ † !	; 		, ;
Н	S28N1347	Excavation to Formation Level		100%		7 08-Mar-11 A	16-Apr-11 A	_			1				1	1		<u> </u>
Н	S28N1348	Pile Head Trimming and bearing plate		100%		27-Apr-11 A	17-May-11 A									1		
Н	S28N1349	Pile Cap Construction (incl. VO29: revised piling details)		100%		19-May-11 A	31-May-11 A											·
Н	S28N1350	Backfilling		100%		26-Sep-11 A	01-Nov-11 A				i ! !				1	1		,
Н	S28N1351	Pier Construction		100%		2 03-Oct-11 A	24-Dec-11 A		ļ						i 	i    	·	 ,
Н	Pier NLKP8			100 /6	12	03-001-11 A	24-Dec-11 A				1 1 1			1 1 1 1	1 1 1			
Н	S28N1361	Realignment of Existing slip road		100%	<i>1</i> F	i 19-May-10 A	13-Jul-10 A				1				1 1 1	1		
Н	S28N1363	Existing Water main Diversion		100%		5 14-Jul-10 A	03-Sep-10 A									1		·
Н	S28N1364	Pre-drilling for Piles		100%		3 04-Sep-10 A	25-Sep-10 A	_							!			
Н	S28N1365	Confirmation of Founding Level		100%		27-Sep-10 A	13-Oct-10 A							. <del> </del>	 	 		    
Н	S28N1366	Piling Work (24shp)		100%		5 14-Jan-11 A	05-Feb-11 A				 				1 1 1	 		
Н	S28N1367	Temporary Shoring System		100%		26-Apr-11 A	25-May-11 A				1				1	1		<u> </u>
Н	S28N1368	Excavation to Formation Level		100%		26-Sep-11 A	22-Oct-11 A											
Н	S28N1369	Pile Head Trimming and bearing plate		100%		7 15-Oct-11 A	22-Oct-11 A				1	1			1	 		,
Н	S28N1370	Pile Cap Construction (incl. VO29: revised piling details)		100%		26-Oct-11 A	02-Nov-11 A							1	! !	    		
Н	S28N1371	Backfilling		100%		26-Nov-11 A	23-Dec-11 A				 				1 1 1	 		
Н	S28N1372	Pier Construction		100%		2 21-Dec-11 A	31-Jan-12 A				1				1	1		! !
Н	Pier NLKP9			10070	,,,	21 200 117	01 0411 1271								: ! !			·
Н	S28N1381	Realignment of Existing slip road		100%	4.5	19-May-10 A	13-Jul-10 A				1 1 1			1 1 1 1	! ! !	1 1 1		
Н	S28N1382	Existing Water main Diversion		100%		5 14-Jul-10 A	03-Sep-10 A								! 			
	S28N1383	Pre-drilling for Piles		100%		04-Sep-10 A	20-Sep-10 A				1					1		:
	S28N1384	Confirmation of Founding Level		100%	14	21-Sep-10 A	08-Oct-10 A				; 1 1			1	: ! !	 		,
	S28N1385	COD: Drainage (ADN 72, 86, 121, 145, 225), Fire Services Mains (DAN 20		100%	75	21-Sep-10 A	21-Oct-11 A				1 1 1	1		1 1 1 1 1	1 1 1	 		
	S28N1386	Piling Work (24shp)		100%	75	22-Oct-11 A	19-Dec-11 A				1 1 1	1		1 1 1 1 1	1 1 1 1	1 1 1	į	
	S28N1387	Temporary Shoring System		100%	30	01-Feb-12 A	19-Apr-12 A	-						1	<u>!</u>		·	 !
	S28N1388	Excavation to Formation Level		100%	36	3 19-Apr-12 A	26-Jun-12 A				1					1		· · · · · · · · · · · · · · · · · · ·
	S28N1389	Pile Head Trimming and bearing plate		100%	12	27-Jun-12 A	11-Jul-12 A				: : :	1			: ! !	! !		·
	S28N1390	Pile Cap Construction (incl. VO29: revised piling details)		100%	12	2 12-Jul-12 A	01-Aug-12 A				: 1 1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	 		,
	S28N1391	Backfilling		100%	12	28-Jul-12 A	14-Sep-12 A				1 1 1	!		1 1 1	1 1 1	1 1 1		ı
	S28N1392	Pier Construction		100%	40	15-Sep-12 A	18-Oct-12 A	-				- L		1	1 1 1 1			
	Pier NLKP1	0	1								1				1	1		:
	S28N1401	132 kv Cable Diversion		100%	75	26-Oct-11 A	27-Jan-12 A				1					!		·
		!		]		J.						;		•	i			

Activity ID	40 Activity Name	Total	Activity 9/	Original Start	Finish				2013					2014	
HC LIVILY ID	Acusty Name	Total Float	Activity % Complete	Original Start Duration	Fillisii			Q3			Q4			Q1	
S28N1402	Existing Water main Diversion		100%	50 23-Apr-12 A	16-Aug-12 A	41	42	43	44	45	46	47	48	49	50
S28N1405	Piling Work (17shp)		100%	60 23-Jul-12 A	19-Sep-12 A		, 1 1 1						1	! !	: !
S28N1409	Pile Cap construction (incl. VO29: revised piling details)		100%	25 03-Oct-12 A	01-Dec-12 A		i 		; - <del> </del>				1	; 	i 
S28N1411	Pier Construction		100%	25 11-Dec-12 A	29-Dec-12 A		1 1 1 1	 	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	 	 
North Abut							1 1 1	 	1				1	1 1 1 1	1
S28N1422	Existing Water Main Utilities Diversion		100%	30 09-Jul-12 A	30-Aug-12 A										! !
S28N1426	Piling Work (24shp)		100%	60 20-Sep-12 A	12-Nov-12 A		! !	1	1				1	1 1 1	i ! !
S28N1428	Pile Cap Construction (incl. VO29: revised piling details)		100%	30 26-Nov-12 A	02-Jan-13 A		   					1	1	! 	 
S28N1430	Abutment		100%	30 05-Jan-13 A	24-Jan-13 A		1	1					1	1 1 1	
S28N1580	Backfilling		100%	20 20-May-13 A	31-May-13 A	Backfilling									
North Ram				,			!								!
S28N1434	COD: RFI 399 HP Gas Main Clashing with abutment (incl. trail pit excavation)	)	100%	50 19-Sep-12 A	31-Dec-12 A	pit excavation)	1 1 1	 	1 1 1				1 1 1	1 1 1 1	1
S28N1435	Construction of North Ramp (incl. VO72: revised North & South Ramps Ret		100%	148 06-Nov-12 A	08-May-13 A	uction of North	Ramp (inc	. VO72: revised	   North & Sout	h Ramps Reta	ining Wall)	‡	1	 	   
S28N1436	Temporary Work for Excavation		100%	24 06-Nov-12 A	26-Jan-13 A			 			<b>0</b> ,		1	 	1
S28N1437	Excavation		100%	22 22-Nov-12 A	06-Feb-13 A		1 1 1 1								
S28N1438	Base Slab		100%	14 31-Dec-12 A	05-Mar-13 A		! !								
S28N1439	Wing Wall		100%	48 01-Feb-13 A	08-May-13 A		!								1
S28N1449	Backfilling		100%	20 06-May-13 A	07-Jun-13 A	Backfillir	i ia						i 	; +	i +
	and Finishing		10070	25 05 11149 1611	07 0011 1071		;9 :	1					1	 	i !
S28N1440	Decking (Bearing, Drainage & MJ included) (incl. VO 40: NLK - Revised Dr		100%	559 27-Jun-11 A	14-May-13 A	king (Bearing, I	: Drainage &	, MJ included) (ir	nd. VO 40: NI	K - Revised D	rainage Arra	; angement for I	; Bridge Deck)	1 1 1	
S28N1450	NLK Deck; P4 - P5		100%	75 27-Jun-11 A	23-Sep-11 A		: :				· aa.go / a. a		: :		
S28N1460	NLK Deck; P3 - P4		100%	75 26-Oct-11 A	27-Jan-12 A										
S28N1470	NLK Deck; P2 - P3		100%	72 11-May-12 A	16-Aug-12 A		i 							; 	i 
S28N1475	Falsework erection of deck: P1 - P2		100%	50 29-Sep-12 A	21-Dec-12 A		1 1 1	1 1 1	1 1 1			1 1 1	1 1 1	1 1 1	! ! !
S28N1480	NLK Deck; P1 - P2		100%	62 06-Nov-12 A	30-Jan-13 A		1 1 1	 				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 	1 1 1
S28N1484	Falsework dismantling of deck: P1 - P2		100%	18 21-Mar-13 A	30-Apr-13 A	k dismantling of	heck:P1 -	P2					1	1 1 1	
S28N1485	Falsework erection of deck: South Abutment - P1		100%	25 10-Dec-12 A	30-Jan-13 A		i i								
S28N1490	NLK Deck; South Abutment - P1		100%	60 03-Jan-13 A	18-Mar-13 A	P1	i   							; 	i 
S28N1495	Falsework dismantling of deck: South Abutment - P1		100%	18 15-Apr-13 A	11-May-13 A	work dismantli	an of deck	; South Abutmen	; nt - P1			1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1
S28N1500	NLK Deck; P5 - P6		100%	75 26-Nov-11 A	04-Jun-12 A		ig or door.						1		
S28N1510	NLK Deck; P6 - P7		100%	75 16-Jun-12 A	06-Oct-12 A	_									
S28N1520	NLK Deck; P7 - P8		100%	75 03-Sep-12 A	22-Dec-12 A									1 1 1	i !
S28N1524	Falsework dismantling of deck: P7 - P8		100%	26 07-Jan-13 A	01-Feb-13 A		 		<u> </u>				 	 	   
S28N1525	Falsework erection of deck: P8 - P9		100%	18 29-Oct-12 A	29-Jan-13 A		1 1 1 1	1	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1	1
S28N1530	NLK Deck; P8 - P9	1	100%	75 20-Dec-12 A	29-Mar-13 A	_									
S28N1534	Falsework dismantling of deck: P8 - P9		100%	26 23-Apr-13 A	20-Jul-13 A		1	: alsework disma	antling of deck	ς: P8 - P9				1 1 1 1	: : :
S28N1535	Falsework erection of deck: P9 - P10		100%	34 10-Dec-12 A	23-Jan-13 A		1			•		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i 1 1	: 	i ! !
S28N1540	NLK Deck: P9 - P10	1	100%	65 18-Jan-13 A	25-Apr-13 A	P9 - P10							 	 	 
S28N1544	Falsework dismantling of deck: P9 - P10	-6	10%	18 20-May-13 A	14-Aug-13			False	; ework disman	tling of deck: P	9 - P10	1	1	1 1 1	
S28N1545	Falsework erection of deck: P10 - North Abutment		100%	18 17-Jan-13 A	21-Feb-13 A	Abutment	1	1 4130	i i	J					
S28N1550	NLK Deck; P10 - North Abutment		100%	55 21-Feb-13 A	14-May-13 A	K Deck; P10 - N	; brth Abutm	ent							: :
S28N1554	Falsework dismantling of deck: P10 - North Abutment		100%	18 20-May-13 A	08-Jun-13 A	:		ing of deck: P1	; 0 - North Abut	ment					
S28N1570	Parapet (P3 - P6)		100%	45 03-Dec-12 A	18-Apr-13 A	26)						1	1	 	 
S28N1660	Parapet (SA - P3 & P6 - NA )		100%	65 28-Feb-13 A	26-Jun-13 A	٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠	: Paranet (S	A - P3 & P6 - N	A' )				1	 	! !
S28N1680	Noise Barriers, Surfacing and Road Lighting	-11	85%	30 10-May-13 A	31-Jul-13		, arapet (d	1	5	and Road Lig	hting		1 1 1	1 1 1	1 1 1
S28N1690	Inspection Handover of NLK Bridge	-11	0%	3 31-Jul-13	03-Aug-13		1	Inspection	1		9			1 1 1	!
S28N1700	TTA Stage 9	-11	0%	0 03-Aug-13	00 Aug 10		; ; ; ;	TTA Stag		Literage				1 1 1 1	! ! !
S28N1710	Diversion for modifying kerb and laying asphalt paving road (N/B) reconstr	-11	0%	43 03-Aug-13	24-Sep-13		! !	TIA Glay		Diversion for m	nodifying ker	h and laving o	senhalt naving	road (N/R) r	con etruct
020N1710	Brosson for modifying Korb and raying aspiral paving road (19/b) reconstr	11	0 /0	+0 00-Aug-10	27 Och-19		1	i	1	ייף ווייטווייטווייטיייף	iodiiyirig Keli	y and raying a	φριιαιι μανιτί <u>ς</u>	JOAG (14/D) 11	- COLISII UCI

ctivity ID	Activity Name	Total	Activity %	Original Start	Finish			2013			2014	
		Float	Complete	Duration		41 42	Q3 43	44	45	Q4 46 47	Q1 48 49	50
S28N1715	Road Construction Works (N/B) C2/C3 interface	-11	0%	43 03-Aug-13	24-Sep-13				Road Constru	ction Works (N/B) C2/C3 i		
S28N1720	Diversion for removing central barriers Stage 2	-11	0%	40 24-Sep-13	12-Nov-13		1 1 1		1	Diversion for remo	ving central barriers Stag	.ge 2
S28N1730	Diversion for modifying kerb and laying asphalt paving road (S/B) reconstru	-11	0%	40 12-Nov-13	31-Dec-13		1	1	1		Diversion for modifyir	ng kerb and la
S28N1735	Road Construction Works (S/B) C2/C3 interface	-11	0%	40 12-Nov-13	31-Dec-13						Road Construction W	Vorks (S/B) C
Ready For	Pre-Handover Retaining Wall of Section 4								·	;		
HRW0040	Ready For Pre-Handover Retaining Wall W72B, W73 and W74	-2	0%	7 31-Dec-13	08-Jan-14		1 1 1		! ! !		Ready For Pre-Ha	andover Reta
Section 5							1					1
Site Area S	SA31											1
PHSA3120	Possession of SA31 (Day0)		100%	0 26-Feb-10 A			1 1 1	1	1 1 1 1			1
SA310000	Site Area SA31 Works Period (incl. VO42, VO52, VO59 & VO65)	330	99.32%	884 26-Feb-10 A	31-Jul-13		Site Area	SA31 Works	Period (incl. V			
SA310010	Site Area SA31 Works Completion	330	0%	0	31-Jul-13		Site Area	SA31 Works	Completion			1
South Bou	und											
Preliminari							1	1	1			1
S31S0000	Site Clearance/TTM/Access Rd/Utility Diversion (Incl. Liason and Coordina		100%	252 26-Feb-10 A	31-Dec-10 A		1 1 1		1 1 1			
Roadworks	s, Drainage & Utilities											
Portion 1					<u></u>							
S31S4620	Portion 1 - CH 0 to CH 50 (From Hong Lok Yuen Junction to WSD Gate)		100%	146 20-Jun-11 A	16-Mar-13 A	m Hong Lok Ywen Junctio	n to WSD Gate	e)	; ; ;			1
S31S4630	Site Clearance		100%	7 20-Jun-11 A	27-Jun-11 A		1 1 1	1	1 1 1 1			1 1 1
S31S4640	Excavation road formation level		100%	50 28-Jun-11 A	25-Aug-11 A		1 1 1	!	 			
S31S4648	Unchartted Towngas / CLP		100%	65 16-Jan-12 A	10-Aug-12 A			· - <del> </del>	<del> </del>	ļ		
S31S4650	Trial Pit for Towngas DN400 HP		100%	14 16-Jan-12 A	04-Feb-12 A							
S31S4660	Additional Towngas DN400 HP preparation and materials deliverary		100%	50 06-Feb-12 A	27-Apr-12 A				; ; ;			
S31S4670	Additional Towngas DN400 HP laying works		100%	12 28-Apr-12 A	26-May-12 A		1 1 1	1	 			
S31S4675	Uncharted CLP 11kV Existing diversion (Ducting & Cabling, Tie - in and un		100%	65 30-Jul-12 A	10-Aug-12 A		1	1				1
S31S4678	UU diversion		100%	67 15-Dec-11 A	18-Dec-12 A			· - <del> </del>	 	!		
S31S4679	Excavation for UU diversion		100%	20 15-Dec-11 A	10-Jan-12 A		, 1 1		; ; ;			
S31S4680	Additional CLP 11kV Existing Diversion (Ducting & Cabling, Tie-in and unc		100%	10 25-Apr-12 A	10-Aug-12 A		1	1	 			1
S31S4690			100%	17 02-Apr-12 A	18-Jun-12 A		1 1 1	!	 			
S31S4700	Additional CLP 132kV (Existing)		100%	22 11-Aug-12 A	16-Aug-12 A		1	!	1			1
S31S4710	Additional UU work (HGC, HKBN, TGT & NWT)		100%	35 06-Aug-12 A	18-Dec-12 A							
S31S4720	Excavation and DN 600 FW & DN 300 SW		100%	68 28-Jun-11 A	09-Nov-12 A		1 1 1	1	 			1 1 1
S31S4725	Roadwork	270	0%	0 15-Oct-12 A	29-Jul-13		Roadwork	1				
S31S4730	Footpath & Kerb	270	90%	30 20-Dec-12 A	29-Jul-13		Footpath &	Kerb	1			
S31S4740	Roadwork		100%	30 15-Oct-12 A	16-Mar-13 A		: : : :	! !	! !			
Portion 2		1		<u> </u>				·	 			 
S31S4750	Portion 2 - CH 50 to 80 (From WSD Gate to Hong Lok Yuen)	269	96.53%	108 20-Jun-11 A	30-Jul-13	1 1	Portion 2 -	CH 50 to 80	(From WSD G	te to Hong Lok Yuen)		1
S31S4760	Site clearance		100%	7 20-Jun-11 A	27-Jun-11 A		1	1				
S31S4765	UU Diversion		100%	82 28-Mar-12 A	05-Oct-12 A		! ! !	! !	: ! !			
S31S4766	Slopeworks S45A		100%	18 28-Mar-12 A	21-Apr-12 A		: 	: 	1 1 1			: 
S31S4770	Additional CLP 132kV (New Lay & clashing with existing)		100%	45 25-Apr-12 A	18-Jun-12 A			 	 			
S31S4780	Additional CLP 11kV New Lay (Ducting & Cabling and Tie-in)		100%	46 19-Jun-12 A	27-Jul-12 A		1	1				
S31S4790	UU works (HKBN & New Lay HGC)		100%	12 27-Aug-12 A	05-Oct-12 A		 	1	1			
S31S4800	Footpath & kerb and Diversion of footpath	269	75%	15 10-Sep-12 A	30-Jul-13		Footpath &	kerb and Div	ersion of footp	ath		
S31S4810	Roadwork		100%	21 25-Oct-12 A	25-Feb-13 A		1 1 1	1	 			1
Portion 3		1		<u>'</u>	·			 	 			 
S31S5000	Portion 3 - New Footpath (CH0 to 175)		100%	165 11-Jun-11 A	15-Jan-13 A		1	1	1			
S31S5010	Formation level of footpath		100%	45 04-Jan-12 A	28-Feb-12 A		: :		1			: : :

Activity ID	Activity Name	Total	Activity %	Origina	I Start	Finish	-					2013						2014	
ACTIVITY ID	Activity Name	Total Float	Complete			I IIIISII			40		Q3			Q4		47	40	Q1	
S31S5	120 Preparation for footpath & Cycle Track Diversion		100%	7	7 11-Jun-11 A	18-Jun-11 A	4	1	42		43	44	45	46		47	48	49	50
S31S5			100%		3 29-May-12 A	05-Jan-13 A			: : : :			1	i ! !				! ! !		1
S31S5	<u> </u>		100%		7 10-Oct-12 A	16-Jan-13 A											     		
S31S5			100%		5 07-Sep-12 A	16-Mar-13 A											1		1
S31S5			100%		7 07-Sep-12 A	30-May-13 A	Footp	ath Su	¦ ib-base, ke	erb a	nd concrete	e surface							
S31S5	· ·		100%		2 26-Dec-12 A	07-Jan-13 A											! !		
S31S5	60 New cycle track formation level		100%		5 28-Nov-12 A	06-Apr-13 A	nation lev	el	1 1 1			1	 	1			1 1 1 1		1 1 1 1 1
S31S5	170 New cycle track (Bitonminous Layer)		100%	10	29-Jan-13 A	25-Apr-13 A	ack (Bito	nminol	us Layer)								     		
S31S5			100%		7 07-Jan-13 A	23-Apr-13 A			,								1		
S31S5			100%		7 06-Oct-12 A	23-Apr-13 A	ng & TCS	S Duct	ings (incl.	.vo	77 Provisior	n of cable	duct for power	supply)					
S31S5			100%	15	5 17-Apr-13 A	20-Apr-13 A	ntings po										! !		
S31S5			100%		7 05-Mar-13 A	20-Apr-13 A	n carriage	- 1	1 1 1				1 1 1				1 1 1 1		
S31S5		268	0%		5 26-Jul-13	31-Jul-13			 		Traffic Ligh	hts					     	 	-
S31S5			100%		21-May-12 A	16-Mar-13 A	fected by	towng			J	1					1		
S31S5			100%		9 26-Dec-12 A	15-Jan-13 A			,										
	orks, Drainage & Utilities								 				: ! !				! ! !		
S31S4	-		100%	50	07-Jan-13 A	08-Apr-13 A	rks										! !		
S31S4			100%		) 17-Jan-13 A	20-Apr-13 A	adworks		   								     	 	 
Section						·											 		
PHSA411	ea SA41		1000/		26-Feb-10 A														
		007	100%			10 May 15			1 1 1				! ! !	1			1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SA410000		-327	58.07%		26-Feb-10 A	19-May-15			 								 		
SA410010	·	-327	0%	C	,	19-May-15			! ! !				!				1 1 1		
	rary Site Office		1000/	0.0	2051404	40.14 40.4													
S41G000			100%		26-Feb-10 A	12-May-10 A													
S41G900	·	000	100%		26-Feb-10 A	12-May-10 A			! !				!	!	-		1 1 1		
S41G910		-330	59.2%		13-May-10 A	24-Feb-15			ļ						<del> </del>		¦		
S41G912		-267	0%	68	24-Feb-15	19-May-15													
	ea SA42 (Core Storage & Works Area)				,														
PHSA421	· · · · ·		100%		26-Feb-10 A				! !			1	 						
SA410040		0	78.81%		26-Feb-10 A	25-Jun-14				1		i	i	-	- 1				<del>-</del>
SA420010	'	0	0%	(		25-Jun-14*											 		
	ea SA43												1				! !		
PHSA431	<u> </u>		100%		04-May-10 A								: 						
SA410020		-328	55.57%		04-May-10 A	19-May-15	1	- 1	! !	1		1	1 1 1	1	!		! !		1
SA410030		-328	0%	C	D	19-May-15*			I I I				1				I I I		
	ng Production Area								, , ,			 					! ! !		
S41G010			100%	59	27-May-10 A	05-Aug-10 A			 ! ! !				1						
S41G020	· · · · · · · · · · · · · · · · · · ·		100%	45	27-May-10 A	20-Jul-10 A			1 1 1			1	 				 		
S41G030			100%		12-Jun-10 A	05-Aug-10 A			1 1 1 1			1	1 1 1	}			1 1 1 1		1
S41G040	-		100%		06-Aug-10 A	18-Oct-10 A			! ! !				!				1 1 1 1		
S41G050	Temp Warehouse, Fabrication & Equip Yard (Site allcated for period till 8	336	100%	1260	13-Sep-10 A	26-Jul-13	1			<b>†</b>	emp Wareh	nouse, Fab	rication & Equ	p Yard (Site	allcated	for period	till 8 May 201	2) : Expecte	ed production
S41G060	Mulching Production Phase 1 (45m3)		100%	63	13-Sep-10 A	09-Oct-10 A			, <del></del>										
S41G070	Mulching Production Phase 2 (45m3) (incl. VO16, VO 18)		100%	63	21-Dec-10 A	21-Feb-11 A			! !				: ! !				! !		
S41G080	Mulching Production Phase 3 (45m3)		100%	63	20-Feb-11 A	24-Apr-11 A			 			i I I	; 		İ		1 1 1 1		1
S41G090	Mulching Production Phase 4 (45m3)		100%	63	24-Apr-11 A	26-Jun-11 A			! ! !			 	 	-			1 1 1 1		1
S41G100	Mulching Production Phase 5 (45m3)		100%	63	3 27-Jun-11 A	28-Aug-11 A			1 1 1			1	1 1 1				1 1 1		1
									-	•			+						

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ID	43	<del>   </del>	A - 21 12 - 21	Out when all Other	les
ivity ID	Activity Name	Total   Float	Activity % Complete	Original Start Duration	Finish
S41G110	Mulching Production Phase 6 (45m3)		100%	63 29-Aug-11 A	30-Oct-11 A
S41G110	Mulching Production Phase 7 (45m3)		100%	63 31-Oct-11 A	01-Jan-12 A
S41G120 S41G130	Mulching Production Phase 8 (45m3)		100%	63 02-Jan-12 A	31-Mar-12 A
S41G140	Mulching Production Phase 9 (45m3)		100%	63 02-Apr-12 A	31-Dec-12 A
S41G260	Dismantle of Mulching Production Yard	-268	0%	68 24-Feb-15	19-May-15
S41G270	Dismantle of Mulching Production Yard: Removing Mulching Office	-268	0%	48 24-Feb-15	24-Apr-15
S41G270	Dismantle of Mulching Production Yard : Removing Nationing Office				19-May-15
	Distribution of Muliching Production Faid . Nemoving Security Ferice and Se	-268	0%	20 24-Apr-15	19-IVIAY-15
Section 8					
	nent Works				
S21G8000	SA21 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
Section 9					
Establishn	ment Works				
S22G8000	SA22 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
S23G8000	SA23 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
S24G8000	SA24 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
S25G8000	SA25 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
S26G8000	SA26 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
Section 10					'
	nent Works				
S26AG800	SA26A Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
S27G8000	SA27 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
Section 11					
<u> </u>	nent Works				
S28G8000	SA28 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
S29G8000	SA29 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
Section 12					
Establishn	ment Works				
S30AG800	SA30A Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
S30G8000	SA30 Establishment Works	-29	0%	365 26-Jul-13	25-Jul-14
Section 13					
Establishr	nent Works				
S30AG810	Remainder of Establishment Works (Exclude Section 8 to 12)	-29	0%	365 26-Jul-13	25-Jul-14
Section 14					
	work Maintenance (Subject to the the Engineer's In	structi	ion)		
S21G7000	Tentative Start Date for SA21 Route Maintenance Works	j del	100%	0 17-Sep-10 A	
S21G7000 S22G7000	Tentative Start Date for SA22 Route Maintenance Works  Tentative Start Date for SA22 Route Maintenance Works		100%	0 26-Feb-10 A	
S23G7000 S23G7000	Tentative Start Date for SA22 Route Maintenance Works  Tentative Start Date for SA23 Route Maintenance Works		100%	0 25-Aug-10 A	
S24G7000	Tentative Start Date for SA24 Route Maintenance Works		100%	0 25-Aug-10 A	
S25G7000	Tentative Start Date for SA25 Route Maintenance Works		100%	0 20-Oct-10 A	
S26AG700	Tentative Start Date for SA26A Route Maintenance Works		100%	0 26-Feb-10 A	
S26G7000	Tentative Start Date for SA26 Route Maintenance Works		100%	0 26-Feb-10 A	
S27G7000	Tentative Start Date for SA27 Route Maintenance Works		100%	0 27-May-10 A	
S28G7000	Tentative Start Date for SA28 Route Maintenance Works		100%	0 26-Feb-10 A	
S29G7000	Tentative Start Date for SA29 Route Maintenance Works		100%	0 20-Oct-10 A	
S30AG700	Tentative Start Date for SA30A Route Maintenance Works		100%	0 25-Aug-10 A	
S30G7000	Tentative Start Date for SA30 Route Maintenance Works		100%	0 26-Feb-10 A	

	44	<u>    </u>			1				2010				1	2014	
Activity ID	Activity Name	Total   Float	Activity % Complete	Original Start Duration	Finish		Q		2013		Q4			2014 Q1	
S31G7000	Tentative Start Date for SA31 Route Maintenance Works		100%	0 26-Feb-10 A		41 42	43	3	44	45	46	47	48	49	50
	(Subject to Excision and Instruct by Engineer with	in 910		201001071				!	1 1 1						
	(Subject to Excision and instruct by Engineer with	111 019	uays)												
General	Ly non-zero	00=	201	010 05 5 1 10 1						 			1 1 1 1	1	
SC150025	Validity Period	327	99%	819 25-Feb-10 A	03-Aug-13			dity Per			- <u> </u>	- <del> </del>	ļ		
SC150030	Latest Date for the Engineer to Issue EI	327	0%	0	03-Aug-13		Late	est Date	e for the En ¦	gineer to Issue	e E I			1 1 1 1	
_	SA28 & SA30	,		,											
PHSA2840	Possession of SA28 & SA30		100%	0 26-Feb-10 A											
SA280005	Site Area SA28 Works Period	318	0%	0 24-May-12 A	12-Aug-13		;	Site Are	ea SA28 W	orks Period					1
SA280020	Site Area SA28 & SA30 Works Completion	318	0%	0	12-Aug-13		<b>♦</b>	Site Are	ea SA28 &	SA30 Works	Completion	 	 	 	 
All Area							1		1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Preliminari															
S28N1000	Site Clearance/TTM/Access Rd/Utility Diversion	265	99%	45 24-May-12 A	03-Aug-13		Site	Cleara	nce/TTM/A	ccess Rd/Utili	Diversion				
Site Area S	SA30A						 		 	 			1	1	1
PHSA30A5	Possession of SA30A		100%	0 27-Jul-10 A						!			1		
SA30A005	Site Area SA30A Works Period	318	88.52%	155 23-May-12 A	12-Aug-13	1		Site Ar	ea SA30A	Works Period					
SA30A020	Site Area SA30A Works Completion	318	0%	0	12-Aug-13		<b>♦</b>	Site Ar	ea SA30A	Works Comple	tion				
North Bou	nd								:   	; ; ; ;			: 1 1 1	1 1 1	
Preliminari	es						1 1 1	1	! ! !	1 1 1	!	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1
S30AN100	Site Clearance/TTM/Access Rd/Utility Diversion		100%	75 14-May-12 A	23-May-12 A				1 	 			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	
Roadworks	, Drainage & Utilities			,					L			!			
S30AN415	Section 17 subject to Excision Works Instruction date (Trunk Sewer Line)	-23	93.96%	245 23-May-12 A	12-Aug-13		:	Section	n 17 subjec	t to Excision W	orks Instruction	on date (Trunl	Sewer Line)		
S30AN420	Issung of latest design drawing		100%	75 24-May-12 A	05-Sep-12 A		i 1 1		 	 					
S30AN430	Procurement & delivery of Trunk Sewer pipe (Stage 1)		100%	75 06-Sep-12 A	17-Sep-12 A			1	! ! !				1 1 1	1	
S30AN440	Design clarification period	-10	98%	60 06-Sep-12 A	27-Jul-13	1 1	Design	clarific	ation perio	d			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	
S30AN450	Procurement & delivery of Trunk Sewer pipe (Stage 2)	-10	99%	75 01-Nov-12 A	27-Jul-13		Procure	ement 8	& delivery of	of Trunk Sewer	pipe (Stage 2	2)			
S30AN460	Underground Utilities cable detection before ELS works		100%	60 17-Aug-12 A	24-Aug-12 A										
S30AN470	Gravity Sewer Line STS10_170 to 160 (22m Long)		100%	90 05-Dec-12 A	06-Feb-13 A	ng)	1 1		1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1
S30AN480	M/H 170 and M/H160 construction (6m depth)		100%	75 05-Dec-12 A	23-Jan-13 A				! ! !	 			1 1 1	1 1 1	
S30AN490	Pipe laying and concrete surround works		100%	60 05-Dec-12 A	07-Jan-13 A		1	}						1	
S30AN500	Backfilling (2 Layers + Temp fill)		100%	30 08-Jan-13 A	06-Feb-13 A							!			
S30AN510	Gravity Sewer Line STS10_160 to 150 (40m Long)	-22	84.95%	95 27-Feb-13 A	12-Aug-13			Gravity	Sewer Lin	e STS10_160	to 150 (40m L	ong)			
\$30AN470 \$30AN480 \$30AN490 \$30AN500 \$30AN510 \$30AN520 \$30AN530 \$30AN540	M/H150 construction (5m depth)		100%	40 27-Feb-13 A	16-Mar-13 A	th)	!		 	1 1 1			1	1	1
S30AN530	Pipe laying and concrete surround works (Stage 1)		100%	25 18-Mar-13 A	30-Apr-13 A	g and concrete surround w	orks (Stag	ge 1)		1					
S30AN540	Construction of Temporary Access for Villager		100%	8 30-Apr-13 A	10-May-13 A	truction of Temporary Acce	ss for Villa	lager		 					
S30AN550	Pipe Laying and concrete works (Stage 2)	-22	70%	21 13-May-13 A	02-Aug-13		Pipe	Laying	and concr	ete works (Sta	ge 2)				
S30AN560	Backfilling (15 Layers)	-22	0%	8 02-Aug-13	12-Aug-13			Backfill	ling (15 La	yers)			1	1	
S30AN570	Gravity Sewer Line STS10_120 to 130 (41m Long)		100%	120 17-Sep-12 A	03-Jan-13 A			!		1					
S30AN580	M/H 120 and M/H130 construction (3.5m & 4m depth)		100%	70 24-Sep-12 A	12-Oct-12 A			!		!					
S30AN585	Pipe Laying & concrete surround works		100%	30 14-Nov-12 A	20-Nov-12 A				 				i 	; !	
S30AN590	Backfilling (15 Layers)		100%	20 21-Nov-12 A	03-Jan-13 A		!								
S30AN600	Gravity Sewer Line STS10_130 to 140 (40m Long)		100%	88 08-Jan-13 A	18-Mar-13 A	30 to 140 (40m Long)			! !	1 1 1			1	1	
S30AN610	M/H 140 construction (4.5m depth)		100%	40 08-Jan-13 A	19-Jan-13 A					!					
S30AN620	Pipe Laying & concrete Surround works		100%	40 14-Jan-13 A	28-Jan-13 A			!							
S30AN630	Backfilling (12 Layers)		100%	25 01-Mar-13 A	18-Mar-13 A								i 		
S30AN640	Gravity Sewer Line STS10_140 to 150 (38m Long)		100%	80 28-Feb-13 A	18-May-13 A	ravity Sewer Line STS10_1	40 to 150	) (38m L	Long)						
S30AN650	Pipe Laying and concrete surround works		100%	50 28-Feb-13 A	18-Mar-13 A	round works			1 1 1	 			1	1	
S30AN660	Backfilling (15 Layers)		100%	30 22-Mar-13 A	18-May-13 A	ackfilling (15 Layers)				 				<u> </u>	
													. "	. '	

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Activit	y ID	Activity Name	Total	Activity %	Original	Start	Finish					2013					2014	
	,		Float	Complete	Duration						Q3			Q4			Q1	
									41	42	43	44	45	46	47	48	49	50
	S30AN670	Gravity Sewer Line STS10_120 to 110 (33m Long)		100%	205	03-Aug-12 A	17-Nov-12 A				1	1		1		1	1 1 1	
	S30AN680	M/H 110 construction (2.7m depth)		100%	30	03-Aug-12 A	15-Sep-12 A						 					
	S30AN690	Pipe laying and concrete surround works		100%	40	06-Oct-12 A	26-Oct-12 A				   		1			-	   	
	S30AN700	Backfilling (9 Layers)		100%	20	01-Nov-12 A	17-Nov-12 A						1			1		
	S30AN710	Gravity Sewer Line STS10_100 to 105a (56.5m Long)		100%	75	03-Aug-12 A	15-Dec-12 A											
	S30AN720	M/ H 100, M/ H 105 and M/ H 105a construction (2.5m depth)		100%	45	03-Aug-12 A	27-Jun-13 A	- :		M/ H 100,	M/ H 105 and N	1/H 105a cor	struction (2.5r	n depth)				
	S30AN730	Pipe Laying and concrete surround works		100%	50	17-Sep-12 A	06-Oct-12 A			1	1	1 1 1	 	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
	S30AN740	Construction of temporary access for Villager		100%	30	08-Oct-12 A	22-Oct-12 A				     				1	-		
	S30AN750	Backfilling (5 Layers)		100%	25	24-Oct-12 A	15-Dec-12 A								1	1		1
	S30AN760	Gravity Sewer Line STS10_105a to 110 and STS10_105 to STS10_105a	-23	0%	8	24-Jun-13 A	12-Aug-13			!	Grav	ity Sewer Line	e STS10_105a	to 110 and S	STS10_105 to	TS10_105a		!
	S30AN770	Modification of existing DN2200 valve chamber	-23	0%	C	26-Jul-13					Modification	of existing DI	N2200 valve c	hamber				
	S30AN780	Pipe Laying and concrete surround works (2.5m depth)	-23	70%	26	24-Jun-13 A	03-Aug-13	7		i	Pipe Lay	ing and conci	ete surround v	works (2.5m c	depth)	1		1
	S30AN790	Backfilling (7 Layers)	-23	0%	7	7 03-Aug-13	12-Aug-13	1-:			Back	filling (7 Laye	rs)	- <del>+</del>	- <del>+</del>	-	- <del> </del>	

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	• Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V
Construction	• All stockpiles of excavated materials or spoil of more than 50m <sup>3</sup> shall be enclosed, covered or dampened during dry or windy conditions.		@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		V
	All spraying of materials and surfaces shall avoid excessive water usage.		V
	• 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	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During	V
Construction	Reduce the number of equipment and their percentage on-time.	construction	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

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#### Water Quality - Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status
Water quality	Demolition and reconstruction of bridges	During	
during	Prevent off-site migration through use of sheet piles.	construction	V
Construction	Minimize duration of works as far as practical.		V
	All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains.		V
	• Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains.		V
	River training works		
	Inspection and testing of water quality in the nullah on the Tai Po River.		N/A
	Road Widening Works and Earthworks		
	<ul> <li>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.</li> </ul>		V
	Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained.		V
	• 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
	Regular inspections of stilling basins and/or silt traps are required to ensure that sediment is not conveyed into the existing drainage system.		V
	Open stockpiles should be covered with a tarpaulin cover.		@
	• During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded.	]	V
	• Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains.		V
	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	General Waste	During	
Management	Transport of wastes off site as soon as possible.	construction	@
during	Maintenance of accurate waste records		V
Construction	Minimization of waste generation for disposal (via reduction/recycling/re-use).		V
	No on-site burning will be permitted.		V
	Use of re-useable metal hoardings/signboards.		V
	Vegetation from site clearance		
	Segregation of materials to facilitate disposal.		V
	<ul> <li>Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.</li> </ul>		V
	Demolition Wastes		
	Segregation of materials to facilitate disposal.		V

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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	
<ul> <li>Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles).</li> </ul>	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
<ul> <li>For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.</li> </ul>	V
Bentonite Slurries	
Bentonite slurries should be reused as far as possible.	N/A
Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94.	N/A
Chemical Wastes	
Storage within locked, covered and bunded area.	V
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.	@
Use appropriate and labelled containers.	V
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	Accurate Delineation of Works Area	During	
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.	construction	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

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adjacent land.		
Dust generation		
<ul> <li>Vehicle washing facilities to be provided at every discernible or designated vehicle exit point;</li> </ul>		V
<ul> <li>All temporary site access roads shall be sprayed with water to suppress dust as necessary;</li> </ul>		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	1	
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	Preservation of Existing Vegetation	During	
and Visual	• Trees identified for retention within the project limit would be protected during the works	construction	V
Impact	• The tree transplanting and planting works shall be implemented by approved Landscape Contractors		V
during	Temporary Works Areas		
Construction	<ul> <li>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.</li> </ul>		V
	Hoarding		
	<ul> <li>A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSR's.</li> </ul>		V
	Top Soils		
	<ul> <li>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.</li> </ul>		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.

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### 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/m3	500 μg/m3
AM2	301.9 μg/m3	500 μg/m3
AM3	301.9 μg/m3	500 μg/m3
AM4A	302.3 μg/m3	500 μg/m3

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

Location	Action Level	Limit Level
AM1A	176.6 μg/m3	260 μg/m3
AM2	178.6 μg/m3	260 μg/m3
AM3	193.1 μg/m3	260 μg/m3
AM4A	198.5 μg/m3	260 μg/m3

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

Location	Action Level	Limit Level
NM1A	When one documented	75 dB(A)
NM2	complaint, related to 0700 –	75 dB(A)
NM3	1900 hours on normal	65/70 dB(A)*
NM4		75 dB(A)
NM5	weekdays, is received	75 dB(A)
NM6	from any one of the sensitive	70 dB(A)*
NM7	receivers	75 dB(A)

<sup>\*</sup>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

20)	Orifice Transfer S Slope, mc	Qstd = {[DH x (I	Interce = [DH x (Pa/760) x Pa/760) x (298/Ta)]	753.2 ept, bc (298/Ta)] <sup>1/2</sup>	-0.0035
301 843 6-Dec-12 6-Dec-13	Orifice Transfer S Slope, mc Calibration of	tandard Information  1.99238  mc x Qstd + bc  Qstd = {[DH x (Information of TSP Sampler]	on Interce = [DH x (Pa/760) x Pa/760) x (298/Ta)]	753.2 ept, bc (298/Ta)] <sup>1/2</sup> -bc} / mc	-0.0035
843 6-Dec-12 6-Dec-13	Orifice Transfer S Slope, mc Calibration of	tandard Information 1.99238 mc x Qstd + bc Qstd = {[DH x (Information of TSP Sampler]	Interce = [DH x (Pa/760) x Pa/760) x (298/Ta)]	ept, bc (298/Ta)] <sup>1/2</sup> -bc} / mc	-0.0035
843 6-Dec-12 6-Dec-13	Orifice Transfer S Slope, mc Calibration of Orfice	tandard Information 1.99238 mc x Qstd + bc Qstd = {[DH x (I	Interce = [DH x (Pa/760) x Pa/760) x (298/Ta)]	ept, bc (298/Ta)] <sup>1/2</sup> -bc} / mc	-0.0035
6-Dec-12 6-Dec-13	Slope, mc  Calibration of Orfice	1.99238 mc x Qstd + bc Qstd = {[DH x (I	Interce = [DH x (Pa/760) x Pa/760) x (298/Ta)]	(298/Ta)] <sup>1/2</sup> -bc} / mc	-0.0035
6-Dec-12 6-Dec-13	Slope, mc  Calibration of Orfice	1.99238 mc x Qstd + bc Qstd = {[DH x (I	Interce = [DH x (Pa/760) x Pa/760) x (298/Ta)]	(298/Ta)] <sup>1/2</sup> -bc} / mc	-0.0035
6-Dec-12 6-Dec-13	Calibration of Orfice	mc x Qstd + bc Qstd = {[DH x (I	= [DH x (Pa/760) x Pa/760) x (298/Ta)]	(298/Ta)] <sup>1/2</sup> -bc} / mc	-0.0035
6-Dec-13	Orfice	Qstd = {[DH x (I	Pa/760) x (298/Ta)]	1/2 -bc} / mc	
ce), IDH v /Pa/	Orfice	of TSP Sampler			
ce), IDH v (Pa/	Orfice		HVS	S Flow Pocardor	
ce), IDH v (Pa/	Orfice		HVS	S Flow Pocordor	
ce), IDH v (Pa/		2		o Flow Recorder	
		Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flor Reading IC (CF	
	2.94	1.48	45.0	44.57	7
	2.49	1.25	38.0	37.64	4
	2.10	1.06	31.0	30.7	1
	1.85	0.93	26.0	25.75	5
	1.47	0.74	21.0	20.80	)
on X  3  0  990, check and reca	0.9963 alibrate.	Intercept, bw =	=4.1832		<del>L</del> o
	Set Point	Calculation			
on Curve, take Qstd :					
on, the "Y" value acco	ording to	x [(Pa/760) x (298/	Та)] <sup>1/2</sup>		
ıw x Qstd + bw ) x [(	760 / Pa ) x ( Ta / 29	98 )] <sup>1/2</sup> =		39.19	- 1
			-9		
)	m x Qstd + bw ) x [(	on Curve, take Qstd = 1.30m <sup>3</sup> /min on, the "Y" value according to  mw x Qstd + bw = IC  nw x Qstd + bw ) x [( 760 / Pa ) x ( Ta / 29	mw x Qstd + bw = IC x [(Pa/760) x (298/ mw x Qstd + bw ) x [(760 / Pa) x (Ta / 298)] <sup>1/2</sup> =	on Curve, take Qstd = $1.30\text{m}^3$ /min on, the "Y" value according to $\text{mw x Qstd} + \text{bw} = \text{IC x [(Pa/760) x (298/Ta)]}^{1/2}$ $\text{nw x Qstd} + \text{bw}) \times [(760 / Pa) \times (Ta / 298)]^{1/2} =$	on Curve, take Qstd = 1.30m³/min on, the "Y" value according to  mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] <sup>1/2</sup> nw x Qstd + bw ) x [( 760 / Pa ) x ( Ta / 298 )] <sup>1/2</sup> =  39.19

Station	Sheung Wun Yiu	(AM1A)		Operator:	Gary	Choi	
Cal. Date:	18-Sep-13			Next Due Date:	18-N	ov-13	
Equipment No.:	A-001-53T			Serial No.	102	216	
			Ambient	t Condition			
Temperatu	re, Ta (K)	302	Pressure,	Pa (mmHg)		755.0	PHOMAS - FEE IN
			Orifice Transfer S	tandard Information	on		
Serial	l No:	843	Slope, mc	1.99238	Interce	ept, bc	-0.00351
Last Calibra	ation Date:	6-Dec-12 mc		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] <sup>1/2</sup>	
Next Calibra	ation Date:	6-Dec-13		Qstd = {[DH x (	Pa/760) x (298/Ta)]	<sup>1/2</sup> -bc} / mc	
			Calibration of	of TSP Sampler			
		(	Orfice	or outriples	HVS	S Flow Recorder	No. of State State
Resistance Plate No.	DH (orifice), in. of water		60) x (298/Ta)] <sup>1/2</sup>	Qstd (m³/min) X -	Flow Recorder Reading (CFM)	Continuous Flow Reco	
18	8.9		2.95	1.48	46.0	45.54	
13	6.3		2.49	1.25	38.0	37.62	
10	4.5		2.10	1.06	32.0	31.68	
7	3.6		1.88	0.94	27.0	26.73	
5	2.3		1.50	0.76	20.0	19.80	
By Linear Regre Slope , mw = Correlation Coef *If Correlation Co	35.2147 fficient* =		<b>9972</b> brate.	Intercept, bw =	-6.3	839	
			Set Point	Calculation			
From the TSP Fie	eld Calibration Cu	rve, take Qstd =					
From the Regress							
		mw	x Qstd + bw = IC	x [(Pa/760) x (298/Л	Γa)] <sup>1/2</sup>		
Therefore, Set Po	oint; IC = ( mw x C	Qstd + bw ) x [( 7	60 / Pa ) x ( Ta / 29	98 )] <sup>1/2</sup> =		39.79	e.
		8					
Remarks:			i Santa				
9			***	2 300 30 13 73 16 162 183			
QC Reviewer:	WS CHA	<b>N</b>	Signature:	21		Date: 79/0	9/13

Cal. Date:	Shan Tong New	Village (AM2)		Operator:	Choi W	ing Ho	20
			Next Due Date: _		23-00		
Equipment No.:	A-001-29T			Serial No.	102	02	-
	·		Ambient	Condition			
Temperatur	re, Ta (K)	301	Pressure, F	Pa (mmHg)		748.3	
				tandard Informatio			T 0 0000
Serial		988	Slope, mc	1.94727	Interce		0.02332
Last Calibra		20-May-13			= [DH x (Pa/760) x		
Next Calibra	ation Date:	20-May-14		Qstd = {[DH x (F	Pa/760) x (298/Ta)]	"-bc} / mc	
			Calibration of	f TSP Sampler			
		0	rfice		HVS	Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/76	60) x (298/Ta)] <sup>1/2</sup>	Qstd (m³/min) X -	Flow Recorder Reading (CFM)	Continuous Flor Reading IC (CF	
18	8.7		2.91	1.48	47.0	46.40	0
13	6.8		2.57	1.31	40.0	39.49	9
10	5.2		2.25	1.14	34.0	33.5	7
7	3.8		1.92	0.98	27.0	26.6	6
5	2.6		1.59	0.81	22.0	21.7	2
By Linear Regre Slope , mw =	ssion of Y on X 36.8110		9972	Intercept, bw =	-8.5	424	
		0					
Correlation Coe		check and recalit		-			
Correlation Coe		check and recalit	orate.	_			
Correlation Coe *If Correlation Co	pefficient < 0.990,		orate.  Set Point	Calculation			
Correlation Coe *If Correlation Co	pefficient < 0.990,	urve, take Qstd =	Set Point 1.30m³/min	Calculation			
Correlation Coe *If Correlation Co	pefficient < 0.990,		Set Point 1.30m³/min	Calculation			
Correlation Coe *If Correlation Co	pefficient < 0.990,	urve, take Qstd = e "Y" value accord	Set Point 1.30m³/min ding to		To V <sup>1/2</sup>		
Correlation Coe *If Correlation Co	pefficient < 0.990,	urve, take Qstd = e "Y" value accord	Set Point 1.30m³/min ding to	Calculation x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>		
Correlation Coe *If Correlation Co From the TSP Fig From the Regres	eld Calibration Cusion Equation, th	urve, take Qstd = e "Y" value accord mw	Set Point 1.30m³/min ding to  x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	39.82	
*If Correlation Coe  *If Correlation Co  From the TSP Fig.  From the Regres	eld Calibration Cusion Equation, th	urve, take Qstd = e "Y" value accord mw	Set Point 1.30m³/min ding to	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	39.82	
*If Correlation Coe  *If Correlation Co  From the TSP Fig.  From the Regres	eld Calibration Cusion Equation, th	urve, take Qstd = e "Y" value accord mw	Set Point 1.30m³/min ding to  x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	39.82	
*If Correlation Coe  *If Correlation Co  From the TSP Fig.  From the Regres	eld Calibration Cusion Equation, th	urve, take Qstd = e "Y" value accord mw	Set Point 1.30m³/min ding to  x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	39.82	
*If Correlation Coe  *If Correlation Co  From the TSP Fig.  From the Regres	eld Calibration Cusion Equation, th	urve, take Qstd = e "Y" value accord mw	Set Point 1.30m³/min ding to  x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	39.82	
*If Correlation Coe *If Coe *If Co	eld Calibration Cusion Equation, th	urve, take Qstd = e "Y" value accord mw	Set Point 1.30m³/min ding to  x Qstd + bw = IC	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	39.82	

	Riverain Bayside (AM3) Ope						
Cal. Date: 23-Aug-13				Next Due Date:			
Equipment No.:	A-001-69T			Serial No.	71	6	
			Ambient	Condition			
Temperatu	re, Ta (K)	301	Pressure,	Pa (mmHg)		748.3	
			Prifice Transfer S	tandard Informatio			
Serial	No:	988			Interce		
Last Calibra	ition Date:	20-May-13			= [DH x (Pa/760) x		
Next Calibra	ation Date:	20-May-14		Qstd = {[DH x (I	Pa/760) x (298/Ta)]	-bc} / mc	
			Calibration of	of TSP Sampler			
		0	rfice		HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/76	60) x (298/Ta)] <sup>1/2</sup>	Qstd (m³/min) X -	Flow Recorder Reading (CFM)	Continuous Flow Recorde Reading IC (CFM) Y-axis	
18	8.6		2.90	1.47	45.0	44,43	
13	7.3		2.67	1.36	41.0	40.48	
10	5.6		2.34	1.19	35.0	34.56	
7	4.2		2.02	1.03	29.0	28.63	
5	3.1		1.74	0.88	22.0	21.72	
Slope , mw = Correlation Coe				-10.	7541		
	-		Set Point	Calculation			
From the TSP Fi	eld Calibration C	urve, take Qstd =	The state of the s	t Calculation			
		urve, take Qstd = ne "Y" value accor mw	1.30m <sup>3</sup> /min ding to	t Calculation x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>		
From the Regres	sion Equation, th	ne "Y" value accor mw	1.30m <sup>3</sup> /min ding to	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>	38.77	

Station	168 Shek Kwu Lu	ing Village (AM4)	A)	Operator:	Gary	Choi		
al. Date:	19-Jul-13			Next Due Date:	19-Se	p-13	7	
quipment No.:	A-001-70T				102	10273		
			Ambient	t Condition				
Temperatu	re, Ta (K)	301	Pressure,	Pa (mmHg)		753.2		
				tandard Informatio				
Serial	No:	843	Slope, mc	1.99238	Interce		-0.0035	
Last Calibra	ation Date:	6-Dec-12			= [DH x (Pa/760) x			
Next Calibra	ation Date:	6-Dec-13		Qstd = {[DH x (F	Pa/760) x (298/Ta)]	"2 -bc} / mc		
		-	Calibration of	of TSP Sampler				
		C	rfice	.,	HVS	S Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/7	60) x (298/Ta)] <sup>1/2</sup>	Qstd (m³/min) X -	Flow Recorder Reading (CFM)	Continuous Flor Reading IC (CF		
18	9.1		2.99	1.50	46.0	45.56	3	
13	7.6		2.73	1.37	41.0	40.6	1	
10	5.1		2.24	1.12	34.0	33.68	8	
7	3.5		1.85	0.93	29.0	28.73	3	
5	2.4		1.53	0.77	23.0	22.78	8	
Slope , mw = Correlation Coe	30.1022 fficient* = pefficient < 0.990,		9961 brate.	Intercept, bw =	-0.0	572	-	
			Set Point	t Calculation				
From the TSP Fi	eld Calibration Cu	rve, take Qstd =						
	ssion Equation, the	e "Y" value accor	ding to	x [(Pa/760) x (298/	Ta)] <sup>1/2</sup>			
Therefore, Set P	oint; IC = ( mw x (	Qstd + bw ) x [( 7	60 / Pa ) x ( Ta / 2	98 )] <sup>1/2</sup> =		39.45	_	
Remarks:								
QC Reviewer:	WS CHA	72/	Signature:	P.		Date: 22/	7/13	

Station	168 Shek Kwu L	ung Village (AM4	A)	Operator:	Gary	Choi	
Cal. Date:	18-Sep-13			Next Due Date:	18-N	ov-13	
Equipment No.:	A-001-70T			Serial No.	103	273	
			Ambient	Condition			
Temperatu	ire, Ta (K)	302	Pressure, I	Pa (mmHg)		755.0	
			Orifice Transfer S	tandard Information	on		
Seria	l No:	843	Slope, mc	1.99238		ept, bc	-0.00351
Last Calibra	Last Calibration Date: 6-Dec-12				= [DH x (Pa/760) x		
Next Calibra	Next Calibration Date: 6-Dec-13				Pa/760) x (298/Ta)]	<sup>1/2</sup> -bc} / mc	
10			Calibration of	of TSP Sampler			
		C	Orfice	or Tor Sampler	HV	S Flow Recorder	
Resistance		T		2			. D
Plate No. DH (orifice), in. of water [DH x (Pa/760) x (298/Ta)				Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Reading IC (CFI	
18	9.0		2.97	1.49	47.0	46.53	
13	7.6		2.73	1.37	42.0	41.58	
10	5.2		2.26	1.13	34.0	33.66	
7	3.6		1.88	0.94	28.0	27.72	
5	2.5		1.57	0.79	22.0	21.78	
By Linear Regre Slope, mw = Correlation Coe *If Correlation Co	34.3955 fficient* =	0.9	<b>9987</b> brate.	Intercept, bw =	-5.1	697	E
			Set Point	Calculation			
From the TSP Fie	eld Calibration Cu	ırve, take Qstd =					
From the Regres							
		mw	x Qstd + bw = IC	x [(Pa/760) x (298/	Γa)] <sup>1/2</sup>		
Therefore, Set Po	oint; IC = ( mw x	Qstd + bw ) x [( 76	60 / Pa ) x ( Ta / 29	08 )] <sup>1/2</sup> =		39.94	ir.
Remarks:							
QC Reviewer:	INS CH	IAN_	Signature:	21		Date: 19/09	13



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM

#### AIR POLLUTION MONITORING EQUIPMENT

#### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - M Operator		Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	297 751.84
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.3900 0.9720 0.8670 0.8270 0.6800	3.2 6.4 7.9 8.7 12.6	2.00 4.00 5.00 5.50 8.00

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9884 0.9842 0.9821 0.9811 0.9759	0.7110 1.0125 1.1327 1.1863 1.4352	1.4090 1.9926 2.2278 2.3365 2.8179	0.9957 0.9915 0.9894 0.9884 0.9832	0.7163 1.0201 1.1412 1.1952 1.4459	0.8889 1.2570 1.4054 1.4740 1.7777
Qstd slo intercer coeffic y axis =	ot (b) = ient (r) =	1.94727 0.02332 0.99998 	Qa slop intercep coeffici y axis =	t (b) =	1.21935 0.01471 0.99998

#### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)

Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]

Qa = Va/Time

For subsequent flow rate calculations:

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

				Laser D	ust Mon	itor				
2000	facturer/Brand:			SIBATA						
Mode				LD-3						
	ment No.:			A.005.07						
Sensi	tivity Adjustment	Scale Set	ting:	557 CPIM						
Opera	ator:			Mike Shek (MSKM)						
Standa	rd Equipment									
Equip	ment:	Run	precht & Pa	atashnick	TEOM®					
Venue			erport (Pui			chool)		_		
	Model No.: Cyberp				muary 0	criodij		_		
			OAB2198	99803						
0.5/81/20	Serial No: Control: Sensor:			00C1436		K <sub>o</sub> : 12500	)	_		
Last C	Last Calibration Date*: Sensor: 18 May 20				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11672000				
*Remar	*Remarks: Recommended interval for ha				tion is 1	year				
Calibra	tion Result									
	ivity Adjustment ivity Adjustment					557 CF				
		Scale Sett		alibration Amb	ient	557 CF	Total			
Sensit	Date (dd-mm-yy)	Scale Sett	ing (After C	Amb Cond Temp (°C)	oient dition R.H. (%)	CF	PM	Minute		
Sensit Hour	Date (dd-mm-yy)	Scale Sett	me - 13:30	Amb Cond Temp (°C)	oient dition R.H.	557 CF  Concentration (mg/m <sup>3</sup> )	Total	Minute X-axis		
Hour 1 2	Date (dd-mm-yy)  18-05-13 18-05-13	Ti 12:30 13:30	me - 13:30 - 14:30	Amb Cond Temp (°C) 28.1 28.1	oient dition R.H. (%) 78	557 CF  Concentration <sup>1</sup> (mg/m <sup>3</sup> )  Y-axis  0.04714 0.04932	Total Count <sup>2</sup>	Minute X-axis 31.45		
Hour  1 2 3	Date (dd-mm-yy) 18-05-13 18-05-13 18-05-13	12:30 13:30 14:30	me - 13:30 - 14:30 - 15:30	Amt Cond Temp (°C) 28.1 28.1 28.2	oient dition R.H. (%) 78 78	Concentration (mg/m³) Y-axis	Total Count <sup>2</sup>	Minute X-axis 31.45 32.83		
Hour  1 2 3 4	Date (dd-mm-yy) 18-05-13 18-05-13 18-05-13 18-05-13	12:30 13:30 14:30 15:30	me - 13:30 - 14:30 - 15:30 - 16:30	Amb Cond Temp (°C) 28.1 28.2 28.1	oient dition R.H. (%) 78 78 77 78	557 CF  Concentration (mg/m³)	Total Count <sup>2</sup>	County Minute X-axis 31.45 32.83 34.27 33.77		
Hour  1 2 3 4 Note:	Date (dd-mm-yy) 18-05-13 18-05-13 18-05-13 18-05-13	12:30 13:30 14:30 15:30 ata was m was logge e was calc	- 13:30 - 14:30 - 15:30 - 16:30 easured by d by Laser	Ambardion Concordant Concordat Concordant Co	oient dition R.H. (%) 78 78 77 78 nt & Patator	557 CF  Concentration (mg/m³)	Total Count <sup>2</sup> 1887 1970 2056	Minute X-axis 31.45 32.83 34.27		
Hour  1 2 3 4 Note:  By Linear Slope of Correlation	Date (dd-mm-yy)  18-05-13 18-05-13 18-05-13 18-05-13 18-05-13 1. Monitoring of 2. Total Count 3. Count/minuter Regression of (K-factor):	12:30 13:30 14:30 15:30 ata was m was logge e was calc Y or X	- 13:30 - 14:30 - 15:30 - 16:30 easured by d by Laser ulated by (	Amt Cond Temp (°C) 28.1 28.2 28.1 Rupprect Dust Moni Total Cour	oient dition R.H. (%) 78 78 77 78 nt & Patator	557 CF  Concentration (mg/m³)	Total Count <sup>2</sup> 1887 1970 2056	Minute X-axis 31.45 32.83 34.27		

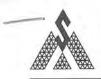
	etting:		Laser Dust Monitor SIBATA LD-3 A.005.08a 702 CPM							
or:			-	Mike Shek (MSKM)						
d Equipment										
Venue:CybeModel No.:SerieSerial No:Contr				perport (Pui Ying Secondary School) ries 1400AB						
Sensor:						K <sub>o</sub> : _12	500			
s: Recommend	ed interv	al for h	nardwa	re calibra	ition is 1	year				
on Result										
						702 702	CPM CPM			
Date (dd-mm-yy)		Time		Cond Temp	ition R.H.	Concentration <sup>1</sup> (mg/m <sup>3</sup> ) <b>Y-axis</b>	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup> X-axis		
18-05-13	12:30	- 1	3:30	28.1	78	0.04714	1764	29.40		
18-05-13	13:30			28.1	78	0.04932	1846	30.77		
					77	0.05156	1935	32.25		
18-05-13	15:30	- 1	6:30	28.1	78	0.05083	1899	31.65		
<ol> <li>Total Count</li> <li>Count/minut</li> <li>Regression of</li> <li>(-factor):</li> </ol>	was logg e was ca	ged by alculate	Laser ed by (	Dust Mon	itor					
of Calibration F	Record:	_17	May 2	014						
1										
	No.: No: No: No: No: No: No: No: No: No: No	No.: See No: S	Cyberpol Series 1: No: Series 1: No: Control: Sensor: 18 May 2: s: Recommended interval for Non Result  Find Adjustment Scale Setting (Vity Adjustment Scal	Cyberport (Pui   Series 1400AB   Control: 14   Sensor: 12   18   May 2013   Series 1400AB   Sensor: 12   18   May 2013   Series 1400AB   Sensor: 12   18   May 2013   Series 14   May 2013   Series 14   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 12   Sensor: 13   Sensor: 14   Sensor: 14   Sensor: 14   Sensor: 15   Sensor: 14   Sensor: 16   Sensor: 16   Sensor: 17	Cyberport (Pui Ying Section	Cyberport (Pui Ying Secondary   Series 1400AB   Control: 140AB219899803   Sensor: 1200C143659803   Sensor: 1200C1436598	Cyberport (Pui Ying Secondary School)   Series 1400AB	Cyberport (Pui Ying Secondary School)		

Model No.: Equipment No.: Sensitivity Adjustment Scale S Operator:  Standard Equipment  Equipment: Ro	etting:		LD-3 A.005.09 797 CPN Mike She	1						
Sensitivity Adjustment Scale S Operator: Standard Equipment	etting:		797 CPN	1						
Operator: Standard Equipment	etting:									
Standard Equipment			Mike She	k (MSKI	797 CPM					
Transaction of the second				Mike Shek (MSKM)						
Equipment: Pr										
Equipment.	ippred	ht & Pa	tashnick 1	EOM®						
Venue: C	berpo	rt (Pui \	ing Seco	ndary So	chool)					
Model No.: Se	eries 1	400AB	11000							
	ontrol:	-	DAB21989							
	nsor:	-	00C14365	9803	K <sub>o</sub> : 12500					
Last Calibration Date*: 18	May :	2013					-			
*Remarks: Recommended interv	al for	hardwar	e calibrat	ion is 1	year					
Calibration Result										
Sensitivity Adjustment Scale Sonsitivity Adjustment Scale Sonsitivity					797 CP					
Hour Date (dd-mm-yy)	Time		Amb Cond	ition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>			
			Temp (°C)	R.H. (%)	Y-axis		X-axis			
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	8	16:30	28.1	78	0.05083	2024	33.73			
Note: 1. Monitoring data was 2. Total Count was logg 3. Count/minute was cattle by Linear Regression of Y or X Slope (K-factor):  Correlation coefficient:	ged by alculate	Laser [	Dust Moni	tor	ISHNICK TEOM					
Validity of Calibration Record:	17	May 20	014							

Model	facturer/Brand: No.: ment No.:		-	Laser Dust Monitor SIBATA LD-3 A.005.10a							
	tivity Adjustment	Scale Se	tting:		753 CPI						
Opera	itor:				Mike Shek (MSKM)						
Standa	rd Equipment										
Equip	ment:	Ruj	opred	cht & Pa	tashnick	TEOM®					
Venue	30				Ying Seco	ndary S	chool)				
Model				400AB							
Serial	No:		ntrol:		DAB2198						
Last C	alibration Date*:	nsor: May	<u>120</u> 2013	00C1436	59803	K <sub>o</sub> : 12500	)	_			
*Remar	ks: Recommend	ed interva	al for	hardwai	re calibra	tion is 1	year				
Calibra	tion Result										
	ivity Adjustment ivity Adjustment						753 CF				
Hour	Date (dd-mm-yy)	Ţ	ime		Amb Cond Temp (°C)	dition R.H. (%)	Concentration <sup>1</sup> (mg/m <sup>3</sup> )  Y-axis	Total Count <sup>2</sup>	Count/ Minute X-axis		
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	141	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		
Slope	1. Monitoring d 2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient:	was logge e was cal	ed by culat _0.	Laser [	<b>Dust Mon</b>	itor	ashnick TEOM <sup>®</sup>				
Validity	of Calibration R	Record:	17	7 May 20	014						
Remarks	s:										
						*					

Type:				Laser Du	ıst Moni	itor							
	facturer/Brand:		_	SIBATA									
Model				_	LD-3								
	ment No.: tivity Adjustment	Scale Se	ttino	_	A.005.11 799 CPI		-						
Sensi	livity Aujustinem	Scale Se	ung		A second								
Opera	itor:				Mike She	k (MSKI	M)						
Standa	rd Equipment												
Equip					precht & Patashnick TEOM®								
	Venue: Cyberpo				Ying Seco	ndary S	chool)						
	Model No.: Series 14				7 7								
Serial	No:		ntrol		DAB21989								
41-50-5			nsor		00C1436	59803	K <sub>o</sub> : 12500						
Last C	alibration Date*	:	May	2013					_				
*Remar	ks: Recommend	ded interva	al for	hardwar	re calibra	tion is 1	year						
Calibra	tion Result												
Sensit	ivity Adjustment	Scale Se	tting	(Before	Calibratio	n):	799 CF	PM					
	ivity Adjustment						799 CF						
Hour	Date		Time			pient	Concentration <sup>1</sup>	Total	Count				
	(dd-mm-yy)				Cond		(mg/m <sup>3</sup> )	Count <sup>2</sup>	Minute				
					Temp	R.H.	Y-axis		X-axis				
1	18-05-13	12:15	.6	13:15	(°C) 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:		data was i	mea	sured by	Rupprec	nt & Pata	ashnick TEOM®	2021	1 00.00				
	3. Count/minu	te was ca	lcula	ted by (T	otal Cou	nt/60)							
	ar Regression of	YorX		2202									
	(K-factor):			0.0015									
Correla	ation coefficient:		_0	.9976		-							
Validity	y of Calibration I	Record:	_1	7 May 20	014	_							
Remark	c.												
Kemark	S.												
						1/							
QC Re	eviewer: YW F	-ung		Signat	ure:	4/	Date	e: 20 Ma	y 2013				
						U		-					

Mode Equip	facturer/Brand:	etting		Laser De SIBATA LD-3B A.005.14 786 CP	la	itor			
Opera	ator:			-4	Mike She	ek (MSKI	М)		
Standa	rd Equipment								
Equip	ment:	Ru	uppre	cht & Pa	tashnick	TEOM®			
Venue	e:				ring Seco	ondary So	chool)		
Mode			1400AB	4 1 14					
Serial	Serial No: Control:				DAB2198				
Last C	Sensor: Last Calibration Date*: 18 May 2				00C1436	59803	K <sub>o</sub> : <u>12500</u>	(	
Sensit	tion Result tivity Adjustment tivity Adjustment						786 CF		
Hour	Date (dd-mm-yy)		Time		Con	oient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	18-05-13	12:15		13:15	28.1	78	0.04685	2005	33.42
2	18-05-13	13:15	( La	14:15	28.1	78	0.04941	2121	35.35
3	18-05-13	14:15	-	15:15	28.2	77	0.05127	2194	36.57
4	18-05-13	15:15	-	16:15	28.1	78	0.05060	2167	36.12
Slope	2. Total Count 3. Count/minuter Ar Regression of (K-factor): ation coefficient:	was logg te was ca	ged by alcula	y Laser [	<b>Dust Mon</b>	itor	ashnick TEOM <sup>®</sup>		
Validit Remark	y of Calibration F	Record:	_1	7 May 20	014	-			
	Z1			,					



#### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 Website: www.cigismec.com E-mail: smec@cigismec.com

Tel : (852) 2873 6860 Fax: (852) 2555 7533



#### CERTIFICATE OF CALIBRATION

Certificate No.:

12CA1115 01-01

Page

of

Item tested

Description: Manufacturer: Sound Level Meter (Type 1)

B&K

2238

Serial/Equipment No.: Adaptors used:

2255680 / N.009.01

Microphone

B&K 4188 2250447

Item submitted by

Customer Name:

Type/Model No.:

AECOM ASIA CO., LTD.

Address of Customer: Request No .:

Date of receipt:

15-Nov-2012

Date of test:

15-Nov-2012

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Signal generator Signal generator

Model: B&K 4226

DS 360 DS 360

Serial No. 2288444

33873 61227

**Expiry Date:** 

22-Jun-2013 29-May-2013 29-May-2013 Traceable to:

CIGISMEC **CEPREI** CEPREI

Ambient conditions

Temperature: Relative humidity: 22 ± 1 °C 60 ± 10 %

Air pressure:

1000 ± 5 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.

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%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess 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:

17-Nov-2012

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.

© Soils & Materials Engineering Co., Ltd

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



#### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 Website: www.cigismec.com E-mail: smec@cigismec.com





#### CERTIFICATE OF CALIBRATION

Certificate No.:

12CA1008 02

Page

of

2

Item tested

Description: Manufacturer:

Adaptors used:

Sound Level Meter (Type 1) Rion Co., Ltd.

Microphone Rion Co., Ltd. Preamp Rion Co., Ltd.

Type/Model No.: Serial/Equipment No.: NL-31 00320528/NOOT. 03A UC-53A 90565

NH-19 75883

Item submitted by

Customer Name:

AECOM ASIA CO., LTD.

Address of Customer:

Request No .:

Date of receipt:

08-Oct-2012

Date of test:

08-Oct-2012

Reference equipment used in the calibration

Multi function sound calibrator Signal generator

Model: B&K 4226 DS 360

Serial No. 2288444

**Expiry Date:** 22-Jun-2013

Traceable to: CIGISMEC

Signal generator

DS 360

33873 61227

29-May-2013 29-May-2013 CEPREI CEPREI

Ambient conditions

Temperature:

(22 ± 1) °C

Relative humidity: Air pressure:

(60 ± 10) % (1000 ± 5) 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.

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 responsess 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.

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

08-Oct-2012

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.

C Soils & Materials Engineering Co., Ltd

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



#### 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



#### CERTIFICATE OF CALIBRATION

Certificate No.:

13CA0325 01-03

Page:

of

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer:

Rion Co., Ltd.

Type/Model No.:

NC-73

Serial/Equipment No.:

10186482 / N.004.09

Adaptors used:

Item submitted by

Curstomer:

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: Lab standard microphone Preamplifier Measuring amplifier	Model: B&K 4180 B&K 2673 B&K 2610	Serial No. 2412857 2239857 2346941	Expiry Date: 29-May-2013 17-Dec-2013 17-Dec-2013	Traceable to: SCL CEPREI CEPREI
Signal generator	DS 360	61227	29-May-2013	CEPREI
Digital multi-meter	34401A	US36087050	10-Dec-2013	CEPREI
Audio analyzer	8903B	GB41300350	29-May-2013	CEPREI
Universal counter	53132A	MY40003662	29-May-2013	CEPREI

#### **Ambient conditions**

Temperature:

22 ± 1 °C

Relative humidity:

60 ± 10 %

Air pressure:

1000 ± 10 hPa

#### **Test specifications**

- 1, 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.
- 2, 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 3. 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.

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date:

26-Mar-2013

Company Chop:

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

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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

### 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 September 2013

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

## Widening of Tolo Highway / Fanling Highway (Stage 1) Between Island House Interchange and Tai Hang - Investigation Tentative Impact Monitoring and Audit Schedule for October 2013

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

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

#### **Impact Air Quality Monitoring Results**

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

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
6-Sep-13	10:35	72.4	73.7	73.1
12-Sep-13	10:05	82.8	78.9	83.2
18-Sep-13	13:31	78.6	77.3	77.5
23-Sep-13	10:50	77.5	78.7	77.0
27-Sep-13	21:30	81.1	82.1	82.2
			Average	78.4
			Min	72.4
			Max	83.2

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

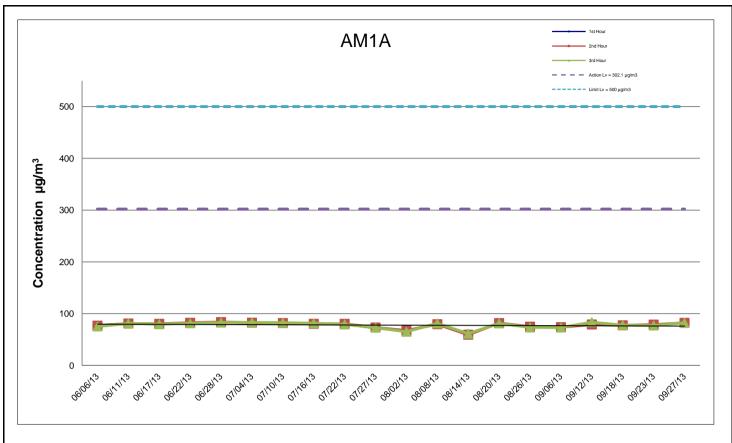
	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
6-Sep-13	9:59	72.9	74.1	74.6
12-Sep-13	9:50	81.1	82.6	84.0
18-Sep-13	13:00	76.9	77.8	75.6
23-Sep-13	10:42	76.9	78.3	77.4
27-Sep-13	10:00	82.6	82.5	81.9
			Average	78.6
			Min	72.9
			Max	84.0

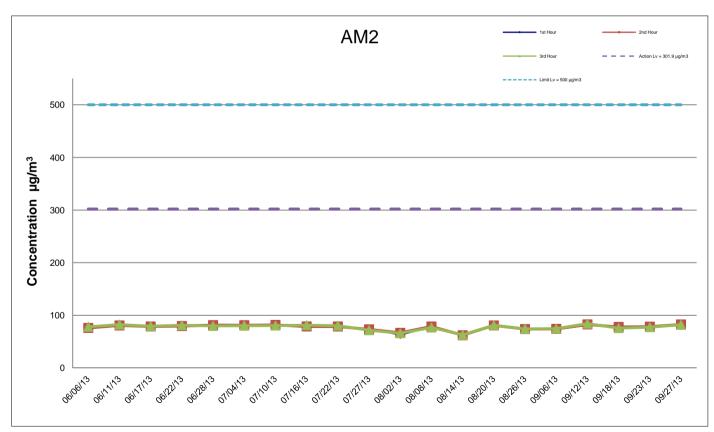
### 1-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m <sup>3</sup> )
6-Sep-13	9:46	72.6	73.1	73.7
12-Sep-13	10:15	84.8	83.2	82.6
18-Sep-13	13:15	80.1	78.6	79.0
23-Sep-13	10:35	79.0	78.8	77.3
27-Sep-13	10:15	81.3	82.2	83.1
			Average	79.3
			Min	72.6
			Max	84.8

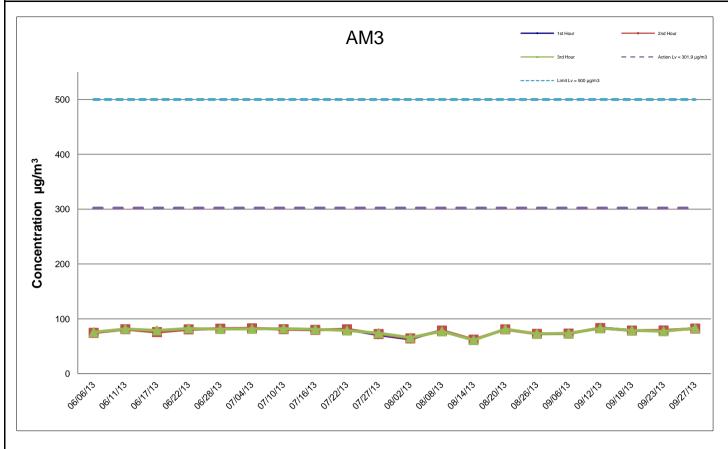
### 1-hour TSP Monitoring Results at Station AM4A (Roof of Switch Room at 168 Shek Kwu Lung Village)

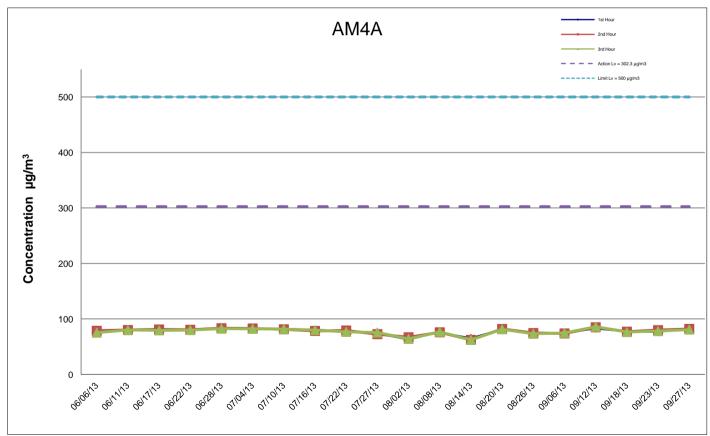
	Start	1st Hour	2nd Hour	3rd Hour
	Time	Conc.	Conc.	Conc.
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)
6-Sep-13	11:00	74.4	73.9	74.8
12-Sep-13	9:35	82.2	85.0	86.0
18-Sep-13	11:20	76.8	77.1	76.4
23-Sep-13	11:05	76.2	79.8	78.1
27-Sep-13	10:30	82.9	82.1	80.9
•			Average	79.1
			Min	73.9
			Max	86.0





Environmental Team for the Widening of Tolo Highway	SCALE	N.T.S.	DATE	Oct-1	3	
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	CHC	L	
Graphical Presentation of Impact 1-hour TSP Monitoring	JOB NO.		APPEND	IX No.	Rev.	
Results		60102979	(	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.



Environmental Team for the widening of Tolo Highway	SCALE	N.T.S.	DATE	Oct-1	3	l
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	CHC	L	l
Graphical Presentation of Impact 1-hour TSP Monitoring Results	JOB NO.	60102979	APPEND	I <b>IX No.</b> G	Rev.	
						ı

### Impact Air Quality Monitoring Results

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

Date	Weather	Air	Atmospheric	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
6-Sep-13	Rainy	26.3	1013.2	1.33	1.33	1.33	1916.6	2.9476	3.0169	0.0693	19851.46	19875.46	24.00	36.2
12-Sep-13	Sunny	28.5	1011.5	1.33	1.33	1.33	1916.6	3.6731	3.7189	0.0458	19875.46	19899.46	24.00	23.9
18-Sep-13	Fine	27.7	1008.3	1.33	1.33	1.33	1916.6	2.9659	3.0886	0.1227	19899.46	19923.46	24.00	64.0
23-Sep-13	Cloudy	27.9	998.9.	1.33	1.33	1.33	1916.6	2.9436	3.0742	0.1306	19923.46	19947.46	24.00	68.1
27-Sep-13	Sunny	27.5	1012.3	1.33	1.33	1.33	1916.6	3.6821	3.7572	0.0751	19947.46	19971.46	24.00	39.2
,													Average	46.3
													Min	23.9
													Max	68 1

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

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m³/min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
6-Sep-13	Rainy	26.3	1013.2	1.34	1.34	1.34	1925.3	3.6243	3.6681	0.0438	16423.12	16447.12	24.00	22.7
12-Sep-13	Sunny	28.5	1011.5	1.34	1.34	1.34	1925.3	3.6773	3.7007	0.0234	16447.12	16471.12	24.00	12.2
18-Sep-13	Fine	27.7	1008.3	1.34	1.34	1.34	1925.3	2.9663	3.0486	0.0823	16471.12	16495.12	24.00	42.7
23-Sep-13	Cloudy	27.9	998.9.	1.34	1.34	1.34	1925.3	3.6964	3.7434	0.0470	16495.12	16519.12	24.00	24.4
27-Sep-13	Sunny	27.5	1012.3	1.34	1.34	1.34	1925.3	3.6794	3.7215	0.0421	16519.12	16543.12	24.00	21.9
													Average	24.8
													Min	12.2
													Max	42.7

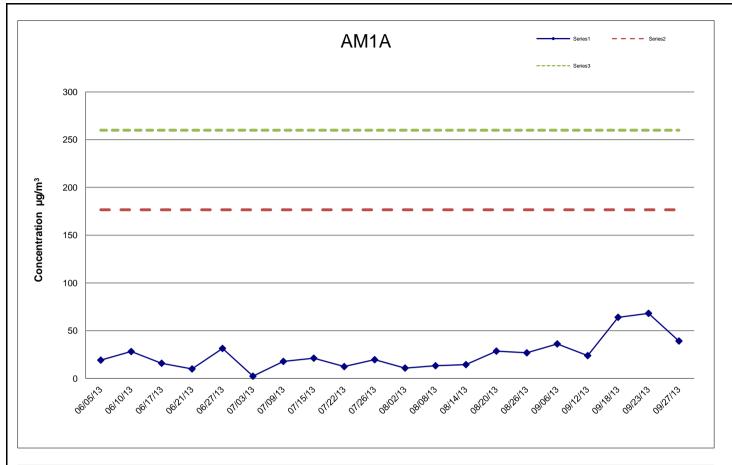
#### 24-hour TSP Monitoring Results at Station AM3 (Roof of Switch Room at Riverain Bayside)

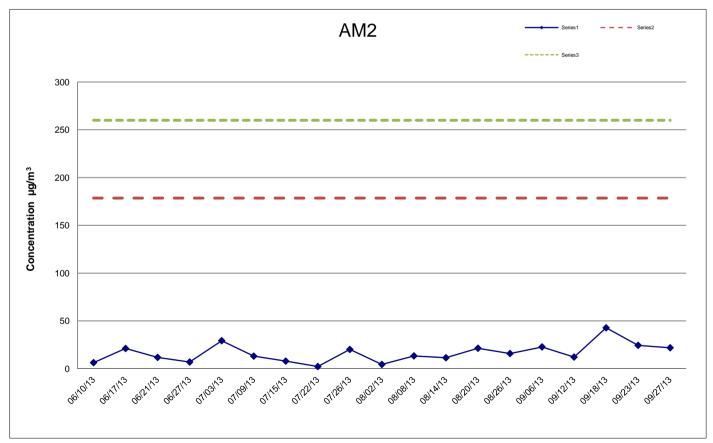
Date	Weather	Air	Atmospheric	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m³/min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
6-Sep-13	Rainy	26.3	1013.2	1.33	1.33	1.33	1921.0	2.9548	3.0223	0.0675	20152.59	20176.59	24.00	35.1
12-Sep-13	Sunny	28.5	1011.5	1.33	1.33	1.33	1921.0	3.6692	3.6938	0.0246	20176.59	20200.59	24.00	12.8
18-Sep-13	Fine	27.7	1008.3	1.33	1.33	1.33	1921.0	2.9566	3.0348	0.0782	20200.59	20224.59	24.00	40.7
23-Sep-13	Cloudy	27.9	998.9.	1.33	1.33	1.33	1921.0	3.6755	3.7310	0.0555	20224.59	20248.59	24.00	28.9
27-Sep-13	Sunny	27.5	1012.3	1.33	1.33	1.33	1921.0	3.6775	3.7177	0.0402	20248.59	20272.59	24.00	20.9
													Average	27.7
													Min	12.8
													Max	40.7

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

Date	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elapse	e Time	Sampling	Conc.
	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )
6-Sep-13	Rainy	26.3	1013.2	1.33	1.33	1.33	1918.1	2.9770	3.0316	0.0546	16282.36	16306.36	24.00	28.5
12-Sep-13	Sunny	28.5	1011.5	1.33	1.33	1.33	1918.1	3.6685	3.7029	0.0344	16306.36	16330.36	24.00	17.9
18-Sep-13	Fine	27.7	1008.3	1.33	1.33	1.33	1918.1	2.9543	3.0462	0.0919	16330.36	16354.36	24.00	47.9
23-Sep-13	Cloudy	27.9	998.9.	1.33	1.33	1.33	1918.1	3.6700	3.7556	0.0856	16354.36	16378.36	24.00	44.6
27-Sep-13	Sunny	27.5	1012.3	1.33	1.33	1.33	1918.1	3.6790	3.7390	0.0600	16378.36	16402.36	24.00	31.3
													Average	34.0

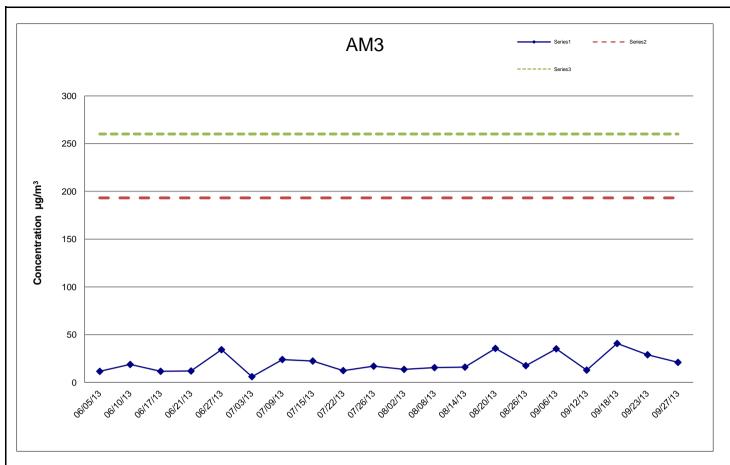
Average 34.0 Min 17.9 Max 47.9

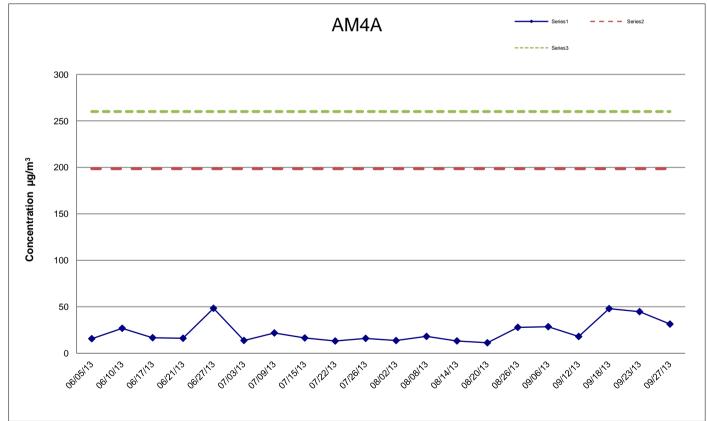




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Environmental ream for the widening of Tolo Highway		14.1.0.	DATE	Oct-1	3	
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	CHC	L	
Graphical Presentation of Impact 24-hour TSP Monitoring	JOB NO.		APPEND	IX No.	Rev.	
Results		60102979	(	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	SCALE	N.T.S.	DATE	Oct-1	3	l
between Island House Interchange and Tai Hang - Investigation	CHECK	ENFL	DRAWN	CHC	L	
Graphical Presentation of Impact 24-hour TSP Monitoring	JOB NO.	60102979	APPEND	IX No.	Rev.	
Results		00102979	(	G	-	

APPENDIX H
METEOROLOGICAL DATA FOR THE
REPORTING MONTH

# Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, September 2013

Date	Mean Pressure at M.S.L.	Ai	ir Temperatu	ıre	Mean Dew Point Temperature	Rela	ative Humi	dity
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)
1-Sep	*****	32	27.5	24.3	****	***	***	***
2-Sep	*****	32.9	28.3	25.8	****	***	***	***
3-Sep	*****	30.2	26.3	25.3	****	***	***	***
4-Sep	*****	26.2	24.8	23.8	****	***	***	***
5-Sep	*****	25.2	24.2	23.2	****	***	***	***
6-Sep	*****	30.5	26.3	23.9	****	***	***	***
7-Sep	*****	32.1	27.7	24.7	****	***	***	***
8-Sep	*****	32.2	28.2	25.4	****	***	***	***
9-Sep	*****	32.1	28.3	26	****	***	***	***
10-Sep	*****	33.3	28.5	26.3	****	***	***	***
11-Sep	*****	32.9	28.6	26.2	****	***	***	***
12-Sep	*****	33.3	28.7	26.3	****	***	***	***
13-Sep	*****	31.7	28	26	****	***	***	***
14-Sep	*****	32.8	28.5	25.8	****	***	***	***
15-Sep	*****	34.8	28.5	23.6	****	***	***	***
16-Sep	*****	31.7	28.4	26.4	****	***	***	***
17-Sep	*****	30.9	28	26.2	****	***	***	***
18-Sep	*****	31.1	27.7	25.7	****	***	***	***
19-Sep	*****	32.8	28.6	26.1	****	***	***	***
20-Sep	*****	33.2	29.8	26.6	****	***	***	***
21-Sep	*****	34.4	31.5	29.2	****	***	***	***
22-Sep	*****	31.3	27.6	24.7	****	***	***	***
23-Sep	*****	30.9	27.2	24.8	****	***	***	***
24-Sep	*****	30.1	27.9	26.8	****	***	***	***
25-Sep	*****	31.9	27.8	26	****	***	***	***
26-Sep	*****	30.5	26.9	23.9	****	***	***	***
27-Sep	*****	30.7	26.3	23.2	****	***	***	***
28-Sep	*****	29.1	26.5	24.1	****	***	***	***
29-Sep	*****	27.2	25.5	23.8	****	***	***	***
30-Sep	*****	27.2	25.8	24	****	***	***	***
Mean	*****	31.2	27.6	25.3	****	***	***	***
Maximum	*****	34.8	31.5	29.2	****	***	***	***
Minimum	*****	25.2	24.2	23.2	****	***	***	***

# Extract of Meteorological Observations for Tai Mei Tuk Automatic Weather Station, September 2013

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Sep	0.0	230	7.4
2-Sep	0.5	130	7.0
3-Sep	4.0	50	7.5
4-Sep	125	50	12.6
5-Sep	48.5	50	14.1
6-Sep	0.5	50	14.4
7-Sep	0.0	40	12.1
8-Sep	0.0	40	10.1
9-Sep	0.0	50	14.1
10-Sep	0.0	40	12.5
11-Sep	0.0	50	13.2
12-Sep	0.0	90	13.0
13-Sep	0.0	40	14.3
14-Sep	0.0	40	7.6
15-Sep	12.0	50	7.0
16-Sep	0.0	90	24.0
17-Sep	0.0	80	26.4
18-Sep	0.0	90	24.5
19-Sep	0.0	90	15.2
20-Sep	0.0	50	6.6
21-Sep	0.0	40	15.0
22-Sep	53.5	260	25.1
23-Sep	56.0	150	18.9
24-Sep	0.0	90	22.3
25-Sep	0.0	50	17.0
26-Sep	0.0	40	17.1
27-Sep	0.0	40	13.2
28-Sep	0.5	40	15.8
29-Sep	1.5	40	24.1
30-Sep	2.0	40	18.8
Mean		40	15.0
Total	304		
Maximum	125		26.4
Minimum	0.0		6.6

<sup>\*\*\*</sup> unavailable

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

<sup>#</sup> missing (less than 24 hourly observations a day)

# Extract of Meteorological Observations for Tai Po Automatic Weather Station, September 2013

Date	Mean Pressure at M.S.L.	Ai	r Temperatı	ıre	Mean Dew Point Temperature	Relative Humidity			
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)	
1-Sep	1009.4	29.3	26.5	23.7	23.9	97	86	70	
2-Sep	1009.8	28.7	26.7	24.8	24.8	97	90	78	
3-Sep	1008.2	27.6	25.8	24.8	24.5	97	92	86	
4-Sep	1008.7	25.8	24.7	23.7	23.8	99	95	89	
5-Sep	1010.7	25.5	24	23	23.2	99	96	85	
6-Sep	1012.8	28.5	26	23.3	22.8	98	84	66	
7-Sep	1013	30.1	27.1	24.2	22.7	94	78	55	
8-Sep	1013.4	30.3	27.5	24.8	23.6	94	80	63	
9-Sep	1012.1	30.3	28.1	26.8	23.7	87	77	64	
10-Sep	1010	30.9	28.3	26.4	24.6	90	81	67	
11-Sep	1010.5	30.4	28.3	26.9	24.5	90	80	66	
12-Sep	1010.9	30.6	28.2	26.6	24.3	90	80	67	
13-Sep	1009.2	29.3	27.5	26.2	24.3	92	82	73	
14-Sep	1006.2	30.7	27.8	25.2	24	91	80	63	
15-Sep	1005.3	31.1	27.5	24.9	24.4	97	84	66	
16-Sep	1006.9	30.1	28.6	26.7	23.6	94	75	63	
17-Sep	1007.4	29.5	28.1	27.3	21.7	82	69	58	
18-Sep	1007.9	28.7	27.6	26.5	22.5	86	74	62	
19-Sep	1007.3	30.4	28.2	25.8	23.7	90	77	62	
20-Sep	1005.1	32.9	29.2	26.2	23.2	89	72	50	
21-Sep	999.4	34.1	30.8	27.1	20.9	72	56	43	
22-Sep	991.9	31.2	27.4	24.5	22.8	96	78	52	
23-Sep	997.9	30.1	26.8	24.5	25.3	99	92	76	
24-Sep	1006.1	29.3	27.8	26.8	24.9	95	84	75	
25-Sep	1009.5	29.2	27.7	26.8	23.3	85	77	66	
26-Sep	1011.9	28.7	27	24.4	22.3	85	76	65	
27-Sep	1011.3	27.9	25.7	22.7	21.3	92	77	68	
28-Sep	1008.3	27.8	26.4	24.4	22.1	96	78	67	
29-Sep	1007.8	26.9	25.7	23.4	21.3	96	77	68	
30-Sep	1009.8	27.1	25.5	23.1	23.3	98	88	79	
Mean	1008	29.4	27.2	25.2	23.4	92	80	67	
Maximum	1013.4	34.1	30.8	27.3	25.3	99	96	89	
Minimum	991.9	25.5	24	22.7	20.9	72	56	43	

# Extract of Meteorological Observations for Tai Po Automatic Weather Station, September 2013

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

<sup>\*\*\*</sup> unavailable

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

<sup>#</sup> missing (less than 24 hourly observations a day)

# Extract of Meteorological Observations for Sha Tin Automatic Weather Station, September 2013

Date	Mean Pressure at M.S.L.	Ai	r Temperatı	ıre	Mean Dew Point Temperature	Relative Humidity		
	(hPa)	Max. (deg C)	Mean (deg C)	Min. (deg C)	(deg C)	Max. (%)	Mean (%)	Min. (%)
1-Sep	1009.9	30.8	27.3	24.3	23.5	95	81	62
2-Sep	1010.2	29.9	27.3	24.8	24.3	95	84	70
3-Sep	1008.6	28.9	26.2	24.5	24.1	97	89	75
4-Sep	1009.1	26.2	24.9	23.8	23.6	98	93	83
5-Sep	1011	26.3	24.5	23.6	23.2	98	93	81
6-Sep	1013.1	29.9	26.8	23.8	22.8	94	79	60
7-Sep	1013.5	31.2	27.7	24.6	22.1	91	73	44
8-Sep	1013.8	31.2	28	24.8	23.2	93	76	58
9-Sep	1012.5	31.2	28.5	26	23	85	73	58
10-Sep	1010.5	31.9	28.6	26	24	91	77	58
11-Sep	1011	31.5	28.7	26.8	24.1	87	76	60
12-Sep	1011.4	31.9	28.7	26.6	23.7	87	75	58
13-Sep	1009.7	30.6	28	26.1	23.8	88	79	63
14-Sep	1006.8	31.9	28.2	25.4	23.6	90	77	60
15-Sep	1005.8	33.6	28.2	25.1	24.1	92	79	51
16-Sep	1007.5	31.8	28.9	26.8	22.6	90	69	54
17-Sep	1008	31.2	28.5	27.3	20.3	73	61	48
18-Sep	1008.5	29.9	27.9	26.5	21.4	78	68	57
19-Sep	1007.9	32	28.5	25.4	22.9	89	72	53
20-Sep	1005.7	34.1	29.4	26.3	23.5	89	72	46
21-Sep	999.8	35.2	31.7	26.5	20.4	83	52	40
22-Sep	992.6	31.8	28.3	25.1	22	90	70	48
23-Sep	998.6	31.6	28	25	24.8	96	83	67
24-Sep	1006.7	30.5	28.5	27.4	24.2	86	78	69
25-Sep	1010	31.3	28.4	26.9	22.5	82	71	57
26-Sep	1012.4	29.9	27.4	24.3	21.1	80	68	59
27-Sep	1011.8	28.6	25.9	23.3	20.4	80	72	62
28-Sep	1008.8	29	27	25	21.3	82	72	60
29-Sep	1008.3	27.2	25.8	24.2	20.5	89	73	64
30-Sep	1010.2	28.2	26.2	24	22.6	92	81	68
Mean	1008.5	30.6	27.7	25.3	22.8	89	76	60
Maximum	1013.8	35.2	31.7	27.4	24.8	98	93	83
Minimum	992.6	26.2	24.5	23.3	20.3	73	52	40

# Extract of Meteorological Observations for Sha Tin Automatic Weather Station, September 2013

Date	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind (km/h)
1-Sep	0.0	230	5.8
2-Sep	2.5	80	4.4
3-Sep	6.0	40	3.4
4-Sep	117	350	3.6
5-Sep	59.5	350	4.7
6-Sep	0.0	100	5.2
7-Sep	0.0	360	6.8
8-Sep	0.0	100	6.8
9-Sep	0.0	90	8.0
10-Sep	0.0	90	5.3
11-Sep	0.0	100	5.9
12-Sep	0.0	80	6.1
13-Sep	0.0	360	5.8
14-Sep	0.0	100#	5.2#
15-Sep	2.0	20	4.7
16-Sep	4.5	80	9.9
17-Sep	0.0	70	11.6
18-Sep	0.0	70	10.4
19-Sep	0.0	70	6.8
20-Sep	0.0	10	4.0
21-Sep	0.0	350	8.2
22-Sep	48.0	350	11.5
23-Sep	77.0	210	14.8
24-Sep	2.0	140	11.0
25-Sep	0.0	70	7.1
26-Sep	0.0	20	9.1
27-Sep	0.0	80	8.2
28-Sep	0.0	20	7.7
29-Sep	2.5	20	11.7
30-Sep	4.5	360	8.6
Mean		010#	7.4#
Total	325.5		
Maximum	117		14.8#
Minimum	0.0		3.4#

<sup>\*\*\*</sup> unavailable

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

<sup>#</sup> missing (less than 24 hourly observations a day)

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

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

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

	Measured I	Measured Noise Level for 30-min, dB(A)			Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
6-Sep-13	15:15	60.4	62.5	59.0	64.2	60.4	75	N
12-Sep-13	9:40	57.7	58.9	56.3	64.2	57.7	75	N
18-Sep-13	11:22	64.1	66.5	62.6	64.2	64.1	75	N
23-Sep-13	11:07	63.5	65.0	62.0	64.2	63.5	75	N
27-Sep-13	11:10	60.6	61.5	56.5	64.2	60.6	75	N

	Corrected Noise Level dB(A)				
Average	61.8				
Max	64.1				
Min	57.7				

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

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

	Measured I	Measured Noise Level for 30-min, dB(A)			Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	Level, dB(A)*	Noise Level, dB(A) **	dB(A)	(Y/N)
6-Sep-13	13:45	64.0	65.5	61.5	68.1	64.0	75	N
12-Sep-13	11:00	61.9	63.0	59.4	68.1	61.9	75	N
18-Sep-13	16:22	62.4	63.8	60.1	68.1	62.4	75	N
23-Sep-13	10:54	65.9	67.7	63.0	68.1	65.9	75	N
27-Sep-13	13:00	62.4	64.0	60.5	68.1	62.4	75	N

	Corrected Noise Level dB(A)
Average	63.6
Max	65.9
Min	61.9

<sup>\* +3</sup>dB(A) Façade effect correction included

<sup>\*\*</sup> 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

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

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

	Measured I	Noise Lev	el for 30-r	min, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A) <sup>#</sup>	(Y/N)
6-Sep-13	11:30	63.3	64.0	61.0	64.8	63.3	70	N
12-Sep-13	13:00	60.7	62.4	57.0	64.8	60.7	70	N
18-Sep-13	13:52	65.1	66.2	63.5	64.8	53.3	70	N
23-Sep-13	13:03	64.3	66.5	61.5	64.8	64.3	70	N
27-Sep-13	10:45	63.1	64.8	61.1	64.8	63.1	70	N

	Corrected Noise Level dB(A)
Average	62.2
Max	64.3
Min	53.3

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

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

	Measured Noise Level for 30-min, dB(A)			nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
6-Sep-13	10:36	62.0	63.5	60.0	67.4	62.0	75	N
12-Sep-13	11:30	62.3	64.8	59.6	67.4	62.3	75	N
18-Sep-13	13:05	65.8	67.2	64.0	67.4	65.8	75	N
23-Sep-13	13:10	65.7	67.2	62.5	67.4	65.7	75	N
27-Sep-13	9:45	60.4	63.3	58.9	67.4	60.4	75	N

	Corrected Noise Level dB(A)
Average	63.8
Max	65.8
Min	60.4

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

<sup>\*\*</sup> 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

Location : NM5 (The Paragon Clubhouse Rooftop - Façade)

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

	Measured I	Measured Noise Level for 30-min, dB(A)			Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
6-Sep-13	14:31	60.4	62.5	58.5	65.2	60.4	75	N
12-Sep-13	13:10	58.3	60.2	56.2	65.2	58.3	75	N
18-Sep-13	16:10	56.7	58.9	54.3	65.2	56.7	75	N
23-Sep-13	13:45	66.7	68.5	63.5	65.2	61.4	75	N
27-Sep-13	13:30	62.9	64.1	59.3	65.2	62.9	75	N

	Corrected Noise Level dB(A)
Average	60.5
Max	62.9
Min	56.7

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

	Measured Noise Level for 30-min, dB(A)			nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq*	L10*	L90*	Level, dB(A)*	Noise Level, dB(A) **	dB(A) <sup>#</sup>	(Y/N)
6-Sep-13	13:02	61.1	63.0	59.5	64.5	61.1	70	N
12-Sep-13	13:40	57.2	58.5	55.6	64.5	57.2	70	N
18-Sep-13	14:35	56.5	58.1	54.2	64.5	56.5	70	N
23-Sep-13	13:55	60.7	62.2	58.1	64.5	60.7	70	N
27-Sep-13	14:00	62.6	63.5	61.5	64.5	62.6	70	N

	Corrected Noise Level dB(A)
Average	60.2
Max	62.6
Min	56.5

#### 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

Location: NM7 (Riverain Bayside Switch Room Rooftop - Façade)
Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

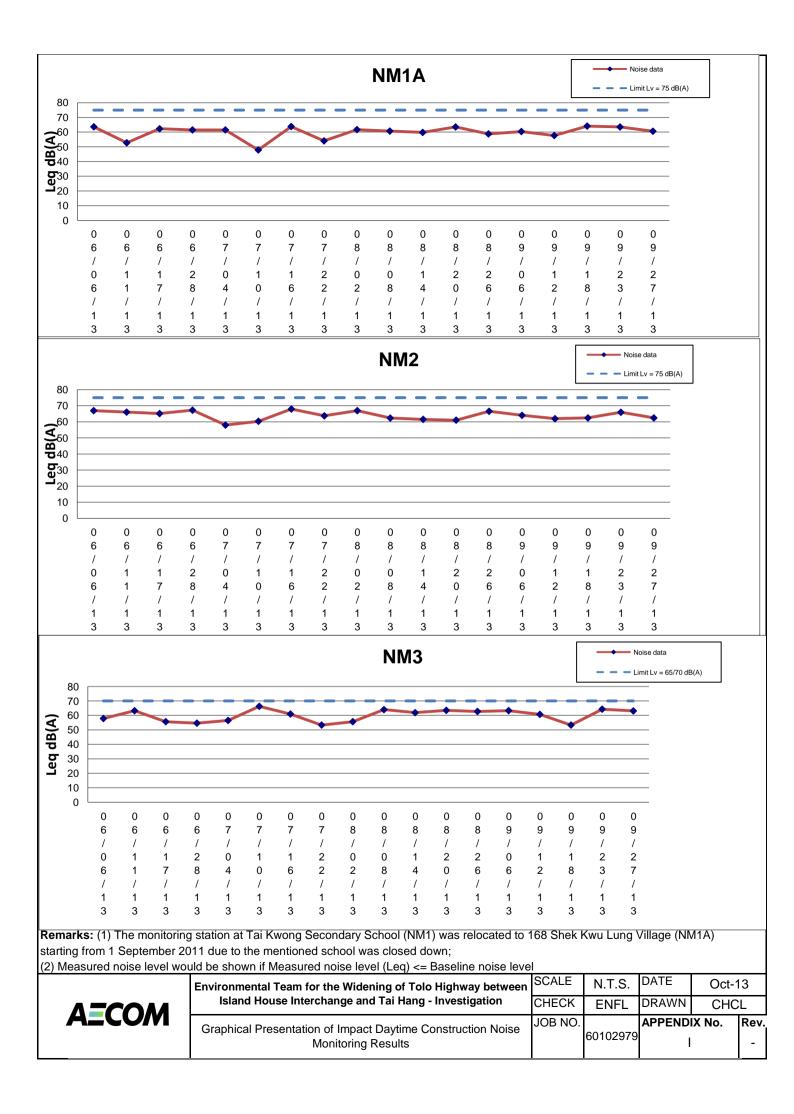
	Measured Noise Level for 30-min, dB(A)			nin, dB(A)	Baseline Noise	Corrected Construction	Limit Level,	Exceedance
Date	Start Time	Leq	L10	L90	Level, dB(A)	Noise Level, dB(A) **	dB(A)	(Y/N)
6-Sep-13	9:48	59.9	62.0	57.0	61.5	59.9	75	N
12-Sep-13	10:20	57.1	58.5	55.0	61.5	57.1	75	N
18-Sep-13	13:17	58.3	61.2	55.8	61.5	58.3	75	N
23-Sep-13	14:48	62.5	64.3	60.5	61.5	55.6	75	N
27-Sep-13	10:20	58.0	59.5	56.5	61.5	58.0	75	N

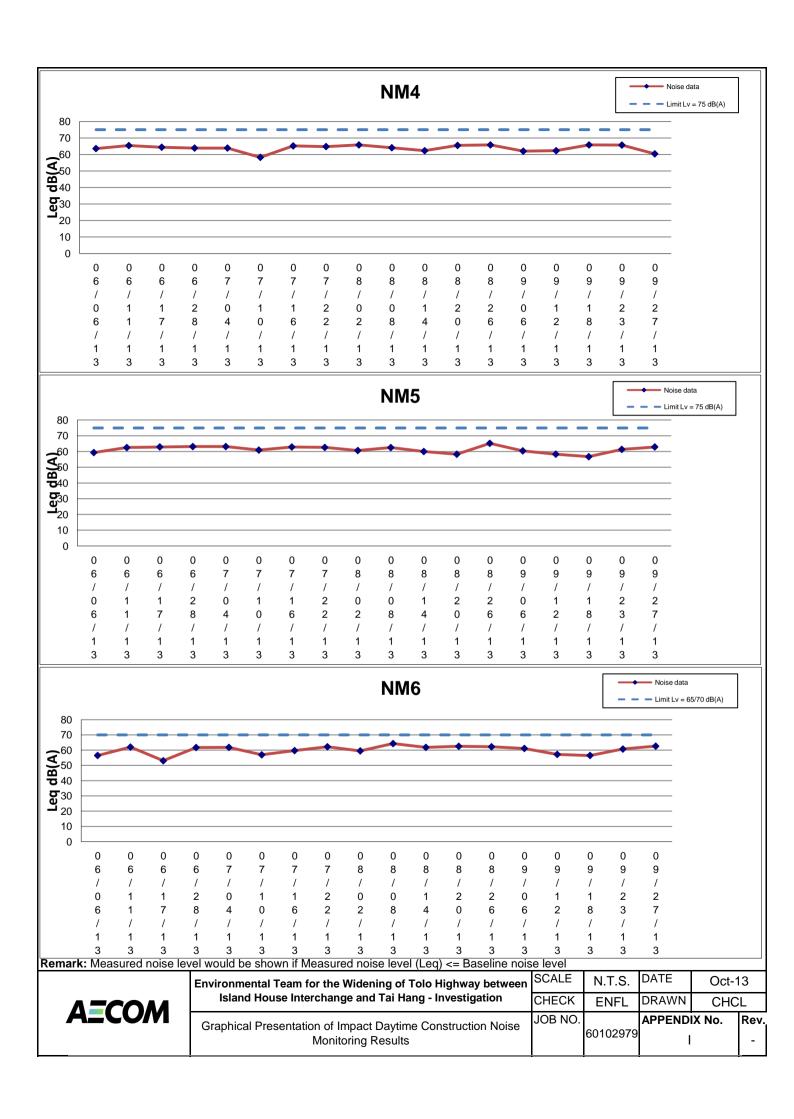
	Corrected Noise Level dB(A)
Average	58.0
Max	59.9
Min	55.6

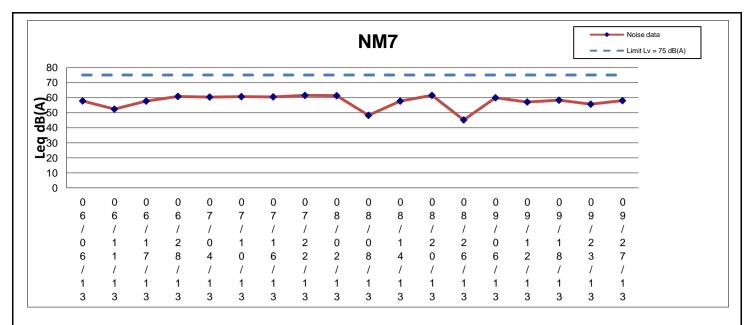
### Remarks

<sup>\*\*</sup> 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







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



Environmental ream for the widening of Tolo Highway between	SCALE	N.T.S.	DATE	Oct-1	13	
Island House Interchange and Tai Hang - Investigation		ENFL	DRAWN	CHC	:L	
Graphical Presentation of Impact Daytime Construction Noise Monitoring Results	JOB NO.	60102979	APPEND	X No.	Rev.	

## 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	Identify source;     Inform IEC and ER;     Repeat measurement to confirm finding;     Increase monitoring frequency to daily.	Check monitoring data submitted by ET;     Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice;     Amend working methods if appropriate.			
Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	Confirm receipt of notification of failure in writing;     Notify Contractor;     Ensure remedial measures properly implemented.	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							
Action Level	ET Leader	IEC	ER	Contractor				
Limit Level								
Exceedance for one sample	<ol> <li>Identify source;</li> <li>Inform IEC, ER, Contractor and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>				
Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase frequency to daily;</li> <li>Analyse Contractor's working procedures to determine possible mitigation to be;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>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.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by ER until the exceedance is abated.</li> </ol>				

## Event / Action Plan for Noise Impact

Event	Action							
Limit Level	ET Leader	IEC	ER	Contractor				
Action Level	<ol> <li>Notify IEC and the Contractor.</li> <li>Carry out investigation.</li> <li>Report the results of investigation to IEC and the Contractor.</li> <li>Discuss with the Contractor and formulate remedial measures.</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review with analysed results submitted by ET.</li> <li>Review the proposed remedial measures by the Contractor and advise ER accordingly.</li> <li>Supervise the implement of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	Submit noise mitigation proposals to IEC.     Implement noise mitigation proposals.				
Limit Level	<ol> <li>Notify, IEC, ER, EPD and the Contractor.</li> <li>Identify the source.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency.</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Inform IEC, ER, and EPD the causes &amp; actions taken for the exceedances.</li> <li>Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET         Leader and the Contractor on         the potential remedial actions.</li> <li>Review the Contractor's         remedial actions whenever         necessary to assure their         effectiveness and advise ER         accordingly.</li> <li>Supervise the implementation         of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> <li>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.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance.</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Resubmit proposals if problem still not under control.</li> <li>Stop the relevant activity of works as determined by the ER until the exceedance is abated.</li> </ol>				

## APPENDIX K SITE INSPECTION SUMMARIES



## **Site Inspection Summary**

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	4 September 2013
Time:	14:00
Inspection No.:	369

Date	<b>)</b> :	4 September 2013				
Time		14:00				
Insp	Inspection No.: 369					
Non-	Non-compliance					
	-					
	Nil					
Ohsi	ervations					
CDS		Na aryatian				
	Follow Up C	<u>Doservation</u>				
	Nil.					
	New Observ	<u>vation</u>				
1.	The Contrac	ctor was reminded to remove the general refuse at Bridge 11.				
Rem	Remarks					
	Nil					
	1 411					



## **Site Inspection Summary**

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)	
Date:	5 September 2013	
Time:	14:00	
Inspection No.:	370	

ı	Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
I	Date:	5 September 2013
	Time:	14:00
l	Inspection No.:	370
	Non-compliance	
	Nil	
	Observations	
	-	Observations  bile at Wall 59 had been removed. (Closed)
	New Obse	ervation
		actor was reminded to remove the general refuse at NB 30.
	Z. THE CONTRA	actor was reminded to remove the general reluse at ND 50.
	3. The Contr NB 30.	actor was reminded to remove the oil drum or provide a drip tray for holding the oil drum at
	Remarks	
Ī	Nil	

				-
Di/CO102070/1 01/Daliyarahlar/Bassline and Impact Manitaring/Manthly FM8 A Banart/1200/Ann/an		Cita Ina	naatian	ممما
P:\60102979\1.01\Deliverables\Baseline and Impact Monitoring\Monthly EM&A Report\1309\App\app	) N -	Site ins	pection.	uocx



# **Site Inspection Summary**

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	11 September 2013
Time:	14:00
Inspection No.:	371

Date	e:	11 September 2013
Time		14:00
Insp	ection No.:	371
Non	-compliance	
	Nil	
Obs	ervations	
	Follow Up C	<u>Observation</u>
1.	General refu	use at Bridge 11 had been removed. (Closed)
	New Observ	<u>ration</u>
2.	The Contrac	ctor was reminded to remove the stagnant water within the construction site at Bridge 11.
Rem	narks	
	Nil	

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# **Site Inspection Summary**

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	12 September 2013
Time:	14:00
Inspection No.:	372

ı	Date:	12 September 2013
ĺ	Time:	14:00
I	Inspection No.:	372
	Non-compliance	
	Nil	
Į		
ı	Observations	
	Follow Up O	
	General refu	se at NB 30 had been removed. (Closed)
	2. Oil drum at I	NB 30 had been removed. (Closed)
	New Observ	<u>ation</u>
	Nil.	
	Remarks	
	Nil	

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## **Site Inspection Summary**

	mop couldn't mornidae.	
Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)	
Date:	18 September 2013	
Time:	9:00	
Inspection No.:	373	

Date	e:	18 September 2013
Time		9:00
Insp	ection No.:	373
Non	-compliance	
	Nil	
Obs	ervations	
	Follow Up C	<u>bservation</u>
1.	Stagnant wa	ater within the construction site at Bridge 11 had been cleared. (Closed)
	New Observ	ration
	Nil.	
Ren	narks	
	Nil	



## **Site Inspection Summary**

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	19 September 2013
Time:	9:30
Inspection No.:	374

Date:	19 September 2013			
Time:	9:30			
Inspection No.:	374			
Non-compliance				
Nil				
Observations				
Follow Up C Nil.	<u>bservations</u>			
New Observ				
1. The Contract	tor was reminded to cover the exposed soil stockpile at Lam Kam Bridge P2.			
Remarks				
Nil				



## **Site Inspection Summary**

Contract No.	HY/2008/09 (Between Island House Interchange and Ma Wo)
Date:	25 September 2013
Time:	9:30
Inspection No.:	375

	Date:	25 September 2013	
	īme:	9:30	
Ir	nspection No.:	375	
	Non-compliance		
	Nil		
C	Observations		
	Follow Up (	<u>Observation</u>	
	Nil.		
	New Obser	<u>vation</u>	
1	. The Contra	ctor was reminded to remove the construction waste within the construction area at Bridge	
Remarks			
	Nil		



## **Site Inspection Summary**

_		
Inspection	lafa waa ati a w	
INSHACTION	iniormation	,

Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)
Date:	26 September 2013
Time:	14:00
Inspection No.:	376

Inspection information					
Contract No.	HY/2009/08 (Between Ma Wo and Tai Hang)				
Date:	26 September 2013				
Time:	14:00				
Inspection No.:	376				
Non-compliance					
Nil					
Observations					
Follow Up Ol 1. Exposed soil	<u>bservations</u> I stockpile at Lam Kam Bridge P2 had been covered with tarpaulin. (Closed)				
New Observa	ation				
2. The Contract	tor was reminded to provide drip tray for holding the oil cans at Link Bridge 1.				
3. The Contract	tor was reminded to cover the cement bags with impervious sheet at Link Bridge 1.				
4. The Contract	tor was reminded to remove the standing water held within the drip tray at Link Bridge 1.				
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 in this month	Total no. followed up by ET since project commencement
Environmental complaints	-	-	-	0	32
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0