# **Highways Department**

## Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin

Contract No. HY/2003/10 - Environmental Team for Lai Chi Kok Viaduct and Eagle's Nest Tunnel

> Monthly EM&A Report Part I – Lai Chi Kok Viaduct (Version 1.0)

> > August 2007

Approved By (Environmental Team Leader)
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REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

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# ABBREVIATION AND ACRONYM

AL Levels	Action and Limit Levels		
CEDD	Civil Engineering and Development Department		
E / ER	Engineer/Engineer's Representative		
EIA	Environmental Impact Assessment		
EM&A	Environmental Monitoring and Audit		
EMIS	Environmental Mitigation Implementation Schedule		
EP	Environmental Permit		
EPD	Environmental Protection Department		
ET	Environmental Team		
HVS	High Volume Sampler		
HyD	Highways Department		
IEC	Independent Environmental Checker		
NOE	Notification of Exceedance		
QA/QC	Quality Assurance / Quality Control		
RE	Resident Engineer		
RH	Relative Humidity		
SLM	Sound Level Meter		
TSP	Total Suspended Particulates		

## **EXECUTIVE SUMMARY**

## Introduction

This is the 45<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel". This report documents the findings of EM&A Works conducted in August 2007 for Contract No. HY/2003/01, Lai Chi Kok Viaduct (the Project).

The major site activities for civil works undertaken in the reporting month included:

- Bulk excavation works at slope CCR-S4, LCK-R3 and CCR-R5;
- Retaining wall construction at CCR-R2 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3 ;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55 ;
- Drainage works at Lai Po Road ;
- Offsite fabrication of top rail of parapet ;
- Cast in-situ of slip roads C & D and Lai Wan Overpass ;
- Erection of noise barrier and signage at slip roads A, B C, D and Main Viaduct ;
- Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house ;
- Hydro-mulching, hydroseeding and tree planting for slope CCR-S1 & S3;
- Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road.

The major site activities for Traffic Control and Surveillance System (TCSS) works undertaken in the reporting month included:

- Cable-laying & Termination at Sections A, B, C, D, E, F and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and Kiosk K2; and
- SCT and SAT at A, B, C, D, E, F and Kiosk K2.

## **Environmental Monitoring and Audit Works**

Environmental monitoring and audit works for the Project was performed regularly as stipulated in the updated EM&A Manual and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

• Summary of the events and action taken in the reporting month is tabulated in Table I.

Parameter	No. of l	Events	No. of Events	Action Taken
1 al ameter	Action Level	Limit Level	Due to the Project	Action Taken
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A

 Table I
 Summary Table for Events Recorded in the Reporting Month

## **Environmental Licenses and Permits**

Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, the Water Discharge Licenses (WDLs) and the Construction Noise Permits (CNPs). Two new CNPs were issued to the Project by EPD in the reporting month.

## Key Information in the Reporting Month

Summary of key information in this reporting month is tabulated in Table II.

## Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark	
Event	Number	Nature	ACTOR LAKER	Status	IXCIIIAI K	
Complaint received	0		N/A	N/A		
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A		
Status of submissions under EP	0		N/A	N/A		
Notifications of any summons & prosecutions received	0		N/A	N/A		

## **Future Key Issues**:

Major site activities for civil works in the coming month include:

- Bulk excavation works at slope CCR-S4 and LCK-R3;
- Retaining wall construction at CCR-R2 & CCR-R3 and LCK-R2 to LCK-R3;
- Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
- Drainage works at Lai Po Road ;
- Offsite fabrication of top rail of parapet;
- Cast in-situ of slip roads C & D and Lai Wan Overpass ;
- Erection of noise barrier and signage at slip roads A, B C, D and Main Viaduct ;
- Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house ;
- Hydro-mulching and tree planting for slope CCR-S1 & S3;
- Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road.

Major site activities for TCSS works in the coming month include:

- Cable-laying & Termination at Sections A, B, C, D, E, F and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and Kiosk K2; and
- SCT and SAT at A, B, C, D, E, F and Kiosk K2.

The anticipated environmental issues will be mainly on surface runoff during rainy season, dust impact from bulk excavation works and noise nuisance from construction of Wai Man Tsuen Pump House and Irrigation Pump House near Pier C14, kiosk at CCR-S1 and Lai Po Road pump house.

## 1. INTRODUCTION

## Background

- 1.1 Route 9 (Kowloon Section) (R9K) (hereinafter call the R9K-Project) forms part of the Route 9 between Cheung Sha Wan and Sha Tin (R9-CSWST) project, which will be a new expressway connecting West Kowloon and Sha Tin. It will be the fourth external link between Sha Tin and Kowloon and will form an important link between the northeast New Territories and the west Kowloon, Lantau Island and the western New Territories. R9K is being managed and implemented by the Highways Department (HyD).
- 1.2 The engineering design of R9K is covered under Agreement No. CE 50/98 "Route 9 between Cheung Sha Wan and Sha Tin Design Construction Assignment". The main consultant engaged under Agreement No. CE 50/98 is Maunsell Hyder Joint Venture (MHJV), who will act as the Engineer for the construction contracts. The works of R9K mainly comprise a 1.4km dual 3-lane Lai Chi Kok Viaduct from Lai Wan Interchange to Butterfly Valley; 0.5 km of dual 3-lane at-grade carriageway linking to the 2.1 km dual 3-lane twin-bore Eagle's Nest Tunnel with associated portal buildings; a toll plaza with an administration building located with the Sha Tin valley woodland; a ventilation building and an adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).
- 1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An environmental impact assessment (EIA) report has been prepared in 1998 for the R9-CSWST project (1998 R9 EIA) to consider the key issues of noise, air quality, water quality, ecological, construction waste, landscape and visual, land use and cultural impacts, and identify possible mitigation measures.
- 1.4 An Updated Final EIA report was subsequently completed in August 1999 for the R9-CSWST project (1999 R9 EIA), to cater for some changes in R9K portion as mentioned in paragraph 1 in the report. The 1999 R9 EIA was endorsed by Environmental Protection Department (EPD) in November 1999. The 1998 R9 EIA and the 1999 R9 EIA (R9 EIA Reports) were included in the EIA register under the EIAO as report no. EIA-135/BC and AEIAR-022/1999 respectively. Environmental Monitoring and Audit (EM&A) Manuals for each of the R9 EIA Reports (EM&A Manuals) were also included as part of the EIA reports in the register.
- 1.5 Subsequent to the endorsement of the R9 EIA Reports by EPD in November 1999, the project programme was deferred to start in 2002/2003 for completion by 2006/07. The implementation of the project was then separated into the R9S and R9K portion. An Environmental Permit (EP) No. EP-103/2001 was issued on 17 September 2001 for R9K to the HyD as Permit Holder and a varied EP No. EP-103/2001/A was subsequently issued on 20 May 2003 for R9K (R9K EP) to HyD as Permit Holder. A varied EP-103/2001/C was recently issued on 22 July 2005.

- 1.6 The major construction activities of two civil contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 – Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 – Eagle's Nest Tunnel and Associated Works", were commenced in 15<sup>th</sup> December 2003 for completion in April 2007.
- 1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 between Cheung Sha Wan and Sha Tin Environmental Team (ET) for Lai Chi Kok Viaduct and Eagle's Nest Tunnel (Contract No. HY/2003/10)". Dr. Priscilla CHOY of Cinotech Consultants Ltd. was appointed as the ET Leader under Condition 2.2 of the EP. Mr. Kenneth LUK of CH2M HILL Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the 45<sup>th</sup> monthly EM&A report summarizing the EM&A works for the Project in August 2007.

## **Project Organizations**

- 1.8 Different parties with different levels of involvement in the project organization include:
  - Project Proponent Major Works Project Management Office (MWPMO) of Highways Department (HyD)
  - Engineer (E) / Engineer's Representative (ER) Maunsell-Hyder Joint Venture
  - Environmental Team (ET) Cinotech Consultants Limited
  - Independent Environmental Checker (IEC) CH2M HILL Hong Kong Limited
  - Contractor Acciona Infraestructuras S.A.
  - Engineer's Representative for TCSS works Ove Arup & Partners Hong Hong Limited
  - Contractor for TCSS works Delcan-Imtech-Gtech Joint Venture
- 1.9 The responsibilities of respective parties are detailed in Section 1.8.3 of the EM&A Manual (1999) of the Project.
- 1.10 The key contacts of the Project are shown in **Table 1.1**.

## **Construction Programme**

- 1.11 The site activities for civil works undertaken in the reporting month included:
  - Bulk excavation works at slope CCR-S4, LCK-R3 and CCR-R5;
  - Retaining wall construction at CCR-R2 to CCR-R3 & CCR-R6 and LCK-R2 to LCK-R3 ;
  - Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55 ;
  - Drainage works at Lai Po Road ;
  - Offsite fabrication of top rail of parapet ;
  - Cast in-situ of slip roads C & D and Lai Wan Overpass ;
  - Erection of noise barrier and signage at slip roads Å, B C, D and Main Viaduct ;
  - Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house ;
  - Hydro-mulching, hydroseeding and tree planting for slope CCR-S1 & S3 ;
  - Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road.
- 1.12 The site activities for TCSS works undertaken in the reporting month included:

- Cable-laying & Termination at Sections A, B, C, D, E, F and Kiosk K2;
- Field Equipment Installation at Sections A, B, C, D, E, F and Kiosk K2; and
- SCT and SAT at A, B, C, D, E, F and Kiosk K2.

Party	Role	Name	Position	Phone No.	Fax No.	
		Mr. Kroc Leung	SE2/R8K	2762 3662		
HyD	Permit Holder	Mr. Esther Yung	E1/R8K	2762 3677	2714 5198	
		Mr. LC Chung	E2/R8K	2762 3613		
	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649	
MHJV		Mr. Peter Poon	CRE	2959 0010		
IVITIJ V	Engineer's Representative	Mr. Henry Liu	SRE	2991 1068	2959 0290	
	representative	Mr. Joseph Chi	RE	2991 1034		
		Dr. Priscilla Choy	ET Leader	2151 2089		
Cinotech	Environmental	Mr. Edmond Wu	Audit Team Leader	2151 2092	3107 1388	
	Team	Mr. Henry Leung	Monitoring Team Leader	2151 2087		
CH2M	Independent Environmental	Mr. Kenneth Luk	Independent Environmental Checker	2507 2209	2507 2293	
Сп2М	Checker	Mr. Billy Yu	Deputy Independent Environmental Checker	2872 2949	2307 2293	
Acciona	Contractor	Mr. William D. Payne	Project Director	2956 3300	2956 3331	
Acciolia	Contractor	Mr. Lawrence Kwok	QA/E Manager	2930 3300	2930 3331	
ARUP	P Engineer's Representative (TCSS)	Mr. Donald Leung	RE	2436 7489	2436 1803	
AKUP		Mr. Daniel So	ARE	2436 7435	2430 1003	
DIGJV Contractor (TCSS) Ms. Joyce Chan		Ms. Joyce Chan	Quality Manager	2123 0845	2123 0889	
24-hour Er	nergency Hotline	2370 9200	-			

 Table 1.1
 Key Project Contacts

## Summary of EM&A Requirements

- 1.13 The EM&A programme requires construction phase monitoring for air quality and construction noise, and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event Action Plans;
  - Environmental mitigation measures, as recommended in the project EIA study final report; and
  - Environmental requirements in contract documents.
- 1.14 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 4 of this report.

1.15 This report presents the environmental monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely dust and noise levels and audit works for the Project in the reporting month.

## 2. AIR QUALITY

## **Monitoring Requirements**

2.1 Monitoring of 1-hour and 24-hour TSP was conducted to monitor the air quality. **Appendix** A shows the established Action/Limit Levels for the environmental monitoring works.

## **Monitoring Locations**

2.2 One designated monitoring station, AM2 was selected for impact dust monitoring for the Project. Table 2.1 describes the air quality monitoring location, which is also depicted in Figures 1.

## Table 2.1 Locations for Air Quality Monitoring

Monitoring Station	Description	Location	
AM2	Lai Chi Kok Park Sports Centre	Rooftop	

## **Monitoring Equipment**

2.3 **Table 2.2** summarizes the equipment used for the air quality monitoring. Copies of calibration certificates are attached in **Appendix B**.

## Table 2.2Air Quality Monitoring Equipment

Equipment	Equipment Model and Make	
Calibrator GMW25; S/N: 1536		1
HVS Sampler	Graseby GMW Model GS2310 High Volume TSP Sampler and associated equipment and shelter	1

## **Monitoring Parameters, Frequency and Duration**

2.4 **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting period is shown in **Appendix C**.

## Table 2.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

## Monitoring Methodology and QA/QC Procedure

## Instrumentation

2.5 Graseby GMW Model GS2310 TSP High Volume Sampler (HVS) was employed for 1-hour & 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Sections 2.2 to 2.4 of the EM&A Manual (1999).

## **Operating/Analytical Procedures**

- 2.6 Operating/analytical procedures for the operation of HVS were as follows:
  - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
  - No two samplers were placed less than 2 meters apart.
  - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
  - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
  - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
  - No furnaces or incineration flues were nearby.
  - Airflow around the sampler was unrestricted.
  - The sampler was more than 20 meters from the drip line.
  - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.7 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between  $1.1 \text{ m}^3/\text{min.}$  and  $1.4 \text{ m}^3/\text{min.}$ ) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.8 For TSP sampling, fiberglass filters (G810) were used.
- 2.9 The power supply was checked to ensure the sampler worked properly.
- 2.10 On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.11 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.12 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- 2.13 The shelter lid was closed and secured with the aluminum strip.
- 2.14 The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.15 After sampling, the filter was removed and sent to the laboratory for weighing. The elapsed time was also recorded.
- 2.16 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than  $\pm$ 3°C; the relative humidity (RH) should be < 50% and not vary by more than  $\pm$ 5%. A convenient working RH is 40%.

## Maintenance/Calibration

- 2.17 The following maintenance/calibration was required for the HVS:
  - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
  - High volume samplers were calibrated at bi-monthly intervals using GMW-25 Calibration Kit throughout all stages of the air quality monitoring.

## **Results and Observations**

- 2.18 All TSP monitoring was conducted as scheduled in this reporting month. No Action/Limit Level exceedance for both 1-hr and 24-hr TSP was recorded in the reporting month.
- 2.19 Wind data monitoring equipment has been installed in Shatin Heights for logging wind speed and wind direction. These wind data for the reporting month are summarized in **Appendix D**.
- 2.20 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E** and **F**, respectively.

## 3. NOISE

## **Monitoring Requirements**

- 3.1 Monitoring and audit of construction noise levels is required to be conducted, in accordance with the EM&A Manual, to ensure that any unacceptable noise impacts could be readily detected and timely and appropriate action be undertaken to rectify the situation.
- 3.2 The construction noise levels shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30min) shall be used as the monitoring parameter for the time period between 0700-1900 hours on normal weekdays. For all other time periods, Leq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. As supplementary information for data auditing, statistical results such as  $L_{10}$  and  $L_{90}$  shall also be obtained for reference.
- 3.3 Five designated noise monitoring stations, namely NM2, NM4, NM8a, NM8b and NM9 were selected for impact monitoring. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

## **Monitoring Locations**

3.4 Noise monitoring was conducted at five designated monitoring stations as summarized in **Table 3.1**. Figures 1 show the locations of these stations.

Stations <sup>(1)</sup>	Description	Location
NM2	Lai Chi Kok Correctional Institution	Rooftop
NM4	Mei Foo Sun Chuen, Phase 5	Rooftop of Block 9
NM8a Nob Hill		M/F of Car Park
NM8b Nob Hill		3/F of Car Park
NM9 Hoi Lai Estate		G/F of Hoi Fai House

## Table 3.1Noise Monitoring Stations

(1) The Lai Chi Kok Hospital (NM3) was also found vacated and noise monitoring has been suspended since January 2005, as approved by EPD on 15<sup>th</sup> March 2005.

3.5 Stations NM8a and NM8b were installed at Nob Hill in May 2004. Station NM8b is located at 3/F of the car park of Nob Hill, which is strongly influenced by traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check of construction noise. The measured noise level at Station NM8a, which is located at M/F of car park and closer to the construction site, acts as an indicator of the construction noise. Since the domestic premises are located above 5/F, noise assessment would be performed to assess the level of nuisance resulting from the construction noise at the domestic premises whenever the measured noise level at NM8a exceeds the noise limit level.

- 3.6 The noise monitoring at Lai Chi Kok Correctional Institution (NM2), which was formerly known as Lai Chi Kok Reception Centre, has been resumed since 8<sup>th</sup> September 2006 after the completion of the renovation works.
- 3.7 A new housing estate, Hoi Lai Estate, became one of the noise sensitive receivers close to the Project site. As recommended by the Regional (West) Office of EPD, noise monitoring at this location (Station NM9) was newly included in the EM&A programme. Approval for the change of EM&A programme was granted by EPD on 30<sup>th</sup> December 2004.

## **Monitoring Equipment**

3.8 **Table 3.2** summarizes the noise monitoring equipment model being used. Copies of calibration certificates are attached in **Appendix B**.

# Table 3.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	B&K Model 2238	5
Calibrator	B&K 4231	2
Wind Speed Anemometer	RS232 Integral Vane Digital Anemometer	1

## Monitoring Parameters, Frequency and Duration

3.9 **Table 3.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix C**.

## Table 3.3Noise Monitoring Parameters, Frequency and Duration

Stations	Parameter	Period	Frequency	Measurement
NM2	L <sub>10</sub> (30 min.)dB(A) L <sub>90</sub> (30 min.)dB(A) L <sub>eq</sub> (30 min.)dB(A)			Façade
NM4				Façade
NM8a		0700-1900 hrs. on weekdays	Once per week	Façade
NM8b		on weekaays	Week	Façade
NM9				Façade

## Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was generally set on a tripod at a height of 1.2 m above the ground, depending to the actual monitoring condition.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - frequency weighting : A
  - time weighting
- : Fast
  - time measurement : 30 minutes / 5 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for

94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

## Maintenance and Calibration

- 3.10 The microphone head of the sound level meter and calibrator was cleaned with soft cloth regularly.
- 3.11 The meters were sent to the supplier to check and calibrate on a yearly interval.

## **Results and Observations**

- 3.12 Noise monitoring was performed at the five designated locations (NM2, NM4, NM8a, NM8b and NM9) as scheduled in the reporting month.
- 3.13 All the Construction Noise Levels (CNLs) reported in this report, except those collected at Stations NM8a, NM8b and NM9, were adjusted with the corresponding baseline level (i.e. Measured Leq Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance.
- 3.14 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.15 No Action/Limit Level exceedance was recorded in the reporting month.
- 3.16 At Stations NM8a and NM8b, the major noise source identified during the monitoring exercises was mainly the road traffic noise.
- 3.17 At Stations NM2, NM4 and NM9, construction noise from the Project and occasionally the traffic noise were identified as the major noise source during monitoring.

## 4. ENVIRONMENTAL AUDIT

## Site Audits

- 4.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 4.2 Site audits for Civil contract were conducted on 2<sup>nd</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 29<sup>th</sup> August 2007 by ET. A joint site audit for Civil works was conducted on 2<sup>nd</sup> August 2007 with representatives from, IEC, ER, the Contractor and ET while the joint site audit for TCSS works was conducted on 2<sup>nd</sup> August 2007 with the representatives from IEC, ER, the Contractor and ET. No environmental deficiency was recorded for TCSS contract during site inspections.

## **Review of Environmental Monitoring Procedures**

4.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

## Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

## Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

## Status of Environmental Licensing and Permitting

4.4 All valid permits/licenses obtained for the Project are summarized in **Table 4.1**. Two new CNP were issued to the Project in the reporting month.

## **Implementation Status of Environmental Mitigation Measures**

4.5 According to the Environmental Permit and the EM&A Manuals, the mitigation measures detailed in the documents are required to be implemented. An updated summary of the EMIS is provided in **Appendix K**.

Table 4.1	Summary of Environmental Licensing and Permit Status
-----------	--

Permit No.	Valid Period		- Details	
T CI IIII 140.	From	То	Details	Status
<b>Environmental Per</b>		-		
EP-103/2001/C	22/7/05	N/A	Construction and operation of (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; © The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid
<b>Registration of Ch</b>				
WPN 5213-261- N2413-04	17/11/03	N/A	N/A	Valid
Water Discharge L				
EP482/260/251/1	05/12/03	31/12/08	Discharge of industrial trade effluent arising from the construction site at Route 9 – Lai Po Road Section of Lai Chi Kok Viaduct (Contract HY/2003/01).	Valid
EP482/260/251/2	15/12/03	31/12/08	Discharge of industrial trade effluent arising from the construction site at Route 9 – Lai Chi Kok Viaduct excluding Lai Po Road Section.	Valid
<b>Construction Noise</b>	e Permit (CN	(P)	1	
GW-RW0058-07	25/2/07	19/8/07	<i>Location:</i> Ching Cheung Road section between Nob Hill to Castle Peak Road <i>Time Period:</i> any two days being a general holiday including Sundays for 0900-2100	Expired
GW-RW0093-07	21/3/07	19/9/07	<i>Location:</i> Lai Po Road near Hoi Lai Estate <i>Time Period:</i> 0000-2400 (general holiday including Sundays) and 1900-0700 (any day not being a general holiday).	Valid
GW-RW0097-07	22/3/07	21/9/07	<i>Location:</i> Butterfly Valley Road, Lai Chi Kok <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0121-07	27/3/07	27/9/07	<i>Location:</i> Butterfly Valley, Lai Chi Kok <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0129-07	30/3/07	29/9/07	<i>Location:</i> Construction site at junction of Ching Cheung Road and Castle Peak Road <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0130-07	4/04/07	3/10/07	<i>Location:</i> Castle Peak Road near Ching Cheung Road <i>Time Period:</i> 0000-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0140-07	5/04/07	4/09/07	<i>Location:</i> Butterfly Valley near O Pui Shan Boy's Home <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0146-07	6/04/07	5/08/07	Location: Ching Cheung Road near Mei Foo Sun Chuen Time Period: 0900-1900 (general holiday including Sundays)	Expired

Permit No.	Valid Period		- Details	
refinit No.	From	То	Details	Status
GW-RW0213-07	13/05/07	1/10/07	Location: Ching Cheung Road Near Nob Hill, Kowloon Time Period: 0900-2000 (general holiday including Sundays)	Valid
GW-RW0221-07	15/05/07	14/09/07	<i>Location:</i> Ching Cheung Road Near Nob Hill, Kowloon <i>Time Period:</i> 0000-0600 (any day not being a general holiday or not immediately following a general holiday including Sundays)	Valid
GW-RW0248-07	20/05/07	19/10/07	<i>Location:</i> Ching Cheung Road Near Nob Hill, Kowloon <i>Time Period:</i> 0900-2000 (general holiday including Sundays)	Valid
GW-RW0291-07	21/06/07	29/09/07	<i>Location:</i> Ching Cheung Road Near Mei Foo Sun Cheun, Kowloon <i>Time Period:</i> 0000-0600 (any day not being a general holiday or not immediately following a general holiday including Sundays)	Valid
GW-RW0292-07	27/06/07	27/10/07	<i>Location:</i> Ching Cheung Road Near Butterfly Valley, Kowloon <i>Time Period:</i> 0900-2100 (general holiday including Sundays) and 2100-0700 (any day not being a general holiday).	Valid
GW-RW0328-07	08/07/07	04/11/07	Location: Ching Cheung Road near Nob Hill, Lai Chi Kok, Kowloon Time Period: 0900-2300 (general holiday including Sundays).	Valid
GW-RW0329-07	08/07/07	02/12/07	<i>Location:</i> Ching Cheung Road near Mei Foo Sun Chuen,, Kowloon <i>Time Period:</i> 0900-1900 (general holiday including Sundays).	
GW-RW0349-07	15/07/07	11/11/07	<i>Location:</i> Ching Cheung Road section between Nob Hill and Castle Peak Road <i>Time Period:</i> 0900-2100 (anyone day being a general holiday, including Sundays).	Cancelled from 19/08/07
GW-RW0378-07	28/07/07	27/12/07	<i>Location:</i> Ching Cheung Road near Mei Foo Sun Cheun, Kowloon <i>Time Period:</i> 0700-2300 (general holiday including Sundays) and 1900-2300 (any day not being a general holiday).	Valid
GW-RW0409-07	19/08/07	30/12/08	Location: Ching Cheung Road section between Nob Hill and Castle Peak Road, Lai Chi Kok <i>Time Period:</i> 0900-1900 (general holiday including Sundays).	Valid
GW-RW0419-07	23/08/07	20/02/08	<i>Location:</i> Ching Cheung Road near Castle Peak Road, Kowloon <i>Time Period:</i> 0000-0600(any day not being a general holiday or not immediately following a general holiday including Sundays).	Valid

# 4.6 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 4.2 and Table 4.3**.

Table 4.2	<b>Observations and Recommendations of Site Audits for Civil Works</b>	

Parameters	Date	<b>Observations and Recommendations</b>	Follow-up
Air Quality	02/08/07	<i>Reminder -</i> Worn sandbags were observed around the manhole near Nob Hill at C13-C14. The Contractor was reminded to replace them.	Rectification / improvement was observed during the follow-up site inspection.

## Table 4.3Observations and Recommendations of Site Audits for TCSS

Parameters	Date	<b>Observations and Recommendations</b>	Follow-up
-	-	-	-

4.7 The observations and recommendations arising from pervious month and followed up in the reporting month are summarized in **Table 4.4 and Table 4.5**.

## Table 4.4 Observations and Recommendations of Site Audits Followed up for Pervious Month for Civil Works

Parameters	Date	<b>Observations and Recommendations</b>	Follow-up
-	-	-	-

# Table 4.5Observations and Recommendations of Site Audits Followed up for Pervious<br/>Month for TCSS

Parameters	Date	<b>Observations and Recommendations</b>	Follow-up

## **Summary of Exceedance**

## 1-hr and 24-hr TSP Monitoring

4.8 No Action/Limit Level exceedance was recorded in the reporting month.

## Construction Noise Monitoring

4.9 No Action/Limit Level exceedance was recorded in the reporting month.

## **Implementation Status of Event Action Plans**

4.10 The Event Action Plans for air quality and construction noise are presented in Appendix J.

## **Summary of Complaint and Prosecution**

- 4.11 No environmental complaint was received in the reporting month.
- 4.12 No prosecution was received in the reporting month.
- 4.13 There were 38 environmental complaints referred to the ET and 1 prosecution received since the commencement of the Project. The Complaint Log is attached in **Appendix M**.

# 5. FUTURE KEY ISSUES

## Key Issues for the Coming Month

- 5.1 Key issues to be considered in the coming month include:
  - Construction noise from excavation works, construction of pump station and retaining wall at CCR-R2 & CCR-R3 and LCK-R2 to LCK-R3;
  - Surface runoff generated at the areas, CCR-S4 and LCK-R3; and
  - Dust generation from stockpiles of dusty materials, exposed retaining wall and bulk excavation works and haul road.
  - Stagnant water accumulated on site after heavy rainfall.

## Monitoring Schedule for the Next Month

5.2 The tentative monitoring schedule for the next month is shown in **Appendix C**.

## **Construction Program for the Next Month**

- 5.3 The major construction activities for civil works in the coming month include:
  - Bulk excavation works at slope CCR-S4 and LCK-R3;
  - Retaining wall construction at CCR-R2 & CCR-R3 and LCK-R2 to LCK-R3;
  - Slope upgrading works for Feature No. 11NW-A/FR 54 & A/FR55;
  - Drainage works at Lai Po Road ;
  - Offsite fabrication of top rail of parapet ;
  - Cast in-situ of slip roads C & D and Lai Wan Overpass ;
  - Erection of noise barrier and signage at slip roads A, B C, D and Main Viaduct ;
  - Construction of Wai Man Tsuen pump house, Irrigation Pump House near pier C14, kiosk at CCR-S1 and Lai Po Road pump house ;
  - Hydro-mulching and tree planting for slope CCR-S1 & S3;
  - Roadwork at main viaduct, slip roads C & D, Lai Po Road, Butterfly Valley Interchange and Butterfly Valley Road.
- 5.4 The tentative construction program for civil works is provided in **Appendix L**.
- 5.5 The major activities for TCSS works in the coming month include:
  - Cable-laying & Termination at Sections A, B, C, D, E, F and Kiosk K2;
  - Field Equipment Installation at Sections A, B, C, D, E, F and Kiosk K2; and
  - SCT and SAT at A, B, C, D, E, F and Kiosk K2;

## 6. CONCLUSIONS AND RECOMMENDATIONS

## Conclusions

- 6.1 Environmental monitoring works were conducted in the reporting month and all monitoring results were checked and reviewed.
- 6.2 No Action/Limit Level exceedance for both 1-hour TSP and 24-hours TSP was recorded in the reporting month.
- 6.3 No Action/Limit Level exceedance for noise was recorded in the reporting month.
- 6.4 No environmental complaint was received in the reporting month.
- 6.5 No prosecution was received in the reporting month.

## Recommendations

6.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

## Water Impact

- To ensure properly maintenance for de-silting facilities
- To review and implement temporary drainage system for the upcoming wet season.
- To review the capacity of de-silting facilities for discharge.
- To avoid stagnant water accumulation on site.

## Noise Impact

- To provide temporary noise barriers for noisy activities, such as rock dowel installation.
- To review the works sequence of site activities so as to reduce the number of noisy equipment in concurrent operation.
- To employ quiet powered mechanical equipment if possible.
- To ensure compliance of CNP conditions during restricted-hour works.

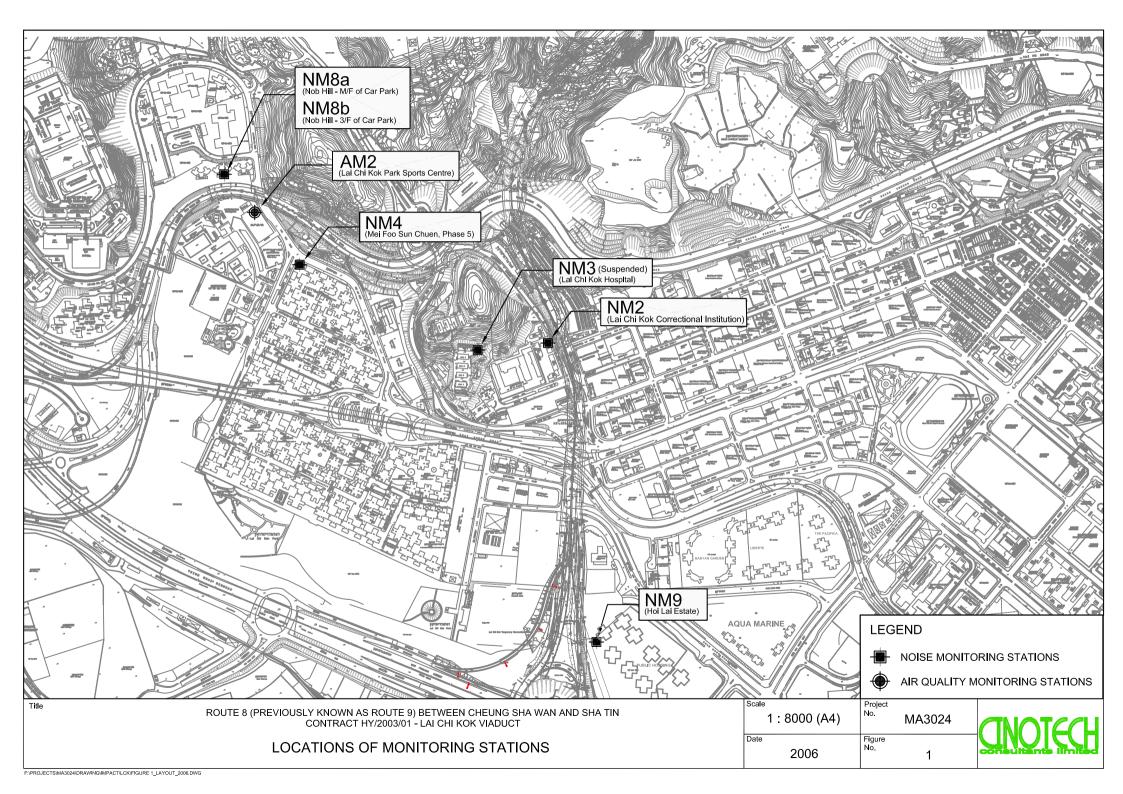
## Dust Impact

- To ensure water spray is applied for the dust emissive works, such as soil nail installation, loading and unloading of soil materials, excavation works and rock dowel installation.
- To cover soil stockpiles and exposed slope surface by impervious sheets or other means.
- To ensure that all vehicles carrying dusty material are properly covered before leaving the site.

## Waste / Chemical Management

- To ensure the performance of sorting of C&D materials at source (during generation);
- To carry out inspection of dump truck at site exit to ensure inert and non-inert C&D materials are properly segregated before removing off site.
- To ensure proper collection and disposal of rubbish generated on site.
- To avoid any discharge or accidental spillage of chemical waste directly from the site.

FIGURES



APPENDIX A ACTION AND LIMIT LEVELS

# Appendix A - Action and Limit Levels (LCKV)

#### **1-Hour TSP**

Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM2	301	500

## **24-Hour TSP**

Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM2	177	260

#### **Construction Noise**

Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays		75 dB(A)
0700-2300 hrs on holidays & 1900-2300 hrs on all other days	When one documented complaint is received	70* dB(A)
2300-0700 hrs of next day	1	55* dB(A)

(\*) The Area Sensitivity Rating for the noise monitoring stations (NM4, NM8a, NM8b and NM9) is taken as C, according to Table 1 of EPD's Technical Memorandum on Noise from Construction Work other than Percussive Piling.

APPENDIX B COPIES OF CALIBRATION CERTIFCATES

# **High-Volume TSP Sampler** 5-POINT CALIBRATION DATA SHEET



FILE INO. MASU24/20/0024	File No.	MA3024/20/0024
--------------------------	----------	----------------

Station	Lai Chi Kok Sport Centre (AM2)	Operator:	WK	
Date:	13-Jul-07	Next Due Date:	12-Sep-07	
Equipment No.:	A-01-20	Serial No.	0818	_
		Ambient Condition	_	

Temperature, Ta (K)	303.8	Pressure, Pa (mmHg)	753	

	Or	ifice Transfer Sta	andard Informat	ion	
Equipment No .:	A-04-05	Slope, mc	0.0575	Intercept, bc	0.0395
Last Calibration Date:	12-Mar-07		mc x Qstd + bc	= [ $\Delta H x$ (Pa/760) x (298/Ta	a)] <sup>1/2</sup>
Next Calibration Date:	11-Mar-08		$Qstd = \{   \Delta H x   \}$	(Pa/760) x (298/Ta)] <sup>1/2</sup> -bc}	/ mc

		Calibration o	f TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of oil	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y axis
1	11.6	3.36	57.71	7,9	2.77
2	9.7	3.07	52.71	6.6	2.53
3	6.6	2.53	43.36	4.6	2.11
4	5.3	2.27	38.78	3.3	1.79
5	3.0	1.71	29.01	1.7	1.29
By Linear Regr Slope , mw = Correlation c		0.9980	Intercept, bw	-0.202	9
If Correlation (	Coefficient < 0.990	), check and recalibrate.	_		

#### Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to

#### mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$

4.24

Therefore, Set Point;  $W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) =$ 

F:\Equipment\Calibration\HVS\A-01-20\20070713

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# TEST REPORT

APPLICANT: Cinotech Consultants Limited 1602-1610 Delta House, 3 On Yiu Street, Shatin, N.T.

Test Report No .:	C/07/70502
Date of Issue:	2007-05-02
Date Received:	2007-05-01
Date Tested:	2007-05-01
Date Completed:	2007-05-02
Page:	1 of 1

ATTN: Mr. Henry Leung

## **Certificate of Calibration**

#### Item for calibration:

Description	: RS232 Integral Vane Digital Anemometer
Manufacturer	: AZ Instrument
Model No.	: 451104
Serial No.	: 9020746
Equipment No.	: A-03-01
onditions:	

#### **Test conditions:**

Room Temperature: 21 degree CelsiusRelative Humidity: 65%Pressure: 101.3 kPa

#### Methodology:

The anemometer has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### **Results:**

	Reference Set Point	Instrument Readings
Measuring Air Velocity, m/s	2.00	2.00
Temperature, °C	21.0	21.0
Temperature, C		

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Senior Chemist

IISCH

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 - Ma Operator		7 Rootsmeter Orifice I.I		833640 0999	Ta (K) - Pa (mm) -	294 - 746.76
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 1.00	1.3890 0.9850 0.8810 0.8410 0.6950	3.2 6.3 7.8 8.6 12.5	2.00 4.00 5.00 5.50 8.00

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9917 0.9876 0.9854 0.9844 0.9792	0.7139 1.0026 1.1185 1.1706 1.4090	1.4113 1.9959 2.2315 2.3405 2.8227	0.9957 0.9916 0.9894 0.9884 0.9832	0.7168 1.0067 1.1231 1.1753 1.4147	0.8874 1.2549 1.4030 1.4715 1.7747
Qstd slo intercep coeffici y axis =	t (b) = ent (r) =	2.03154 -0.03970 0.99999 2a/760)(298/Ta	 Qa slop intercep coeffici y axis =	t (b) =	1.27212 -0.02496 0.99999 'a/Pa)]

#### CALCULATIONS

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

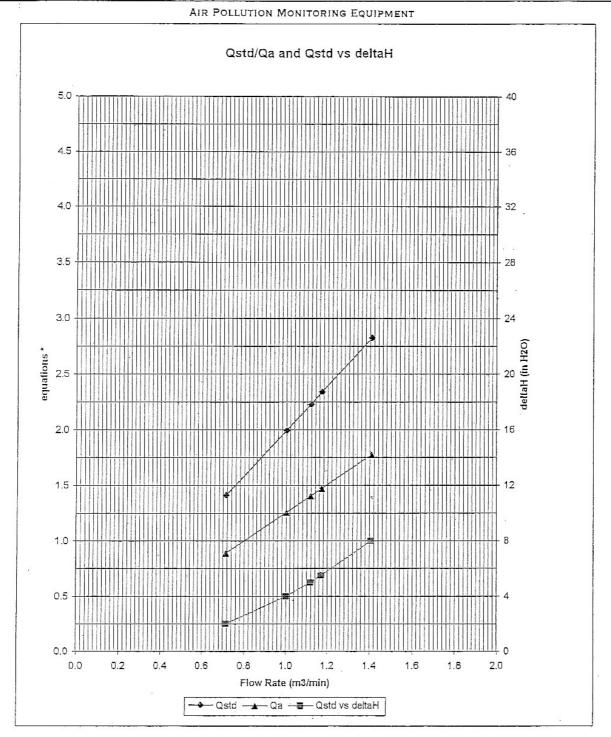
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

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



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\* y-axis equations: Qstd series:

$$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$$
$$\sqrt{\left(\Delta H \left(Ta / Pa\right)\right)}$$

Qa series:

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# **TEST REPORT**

APPLICANT:	Cinotech Consultants Limited 1602-1610 Delta House,	Test Report No.: Date of Issue:	C/N/61215/1 2006-12-15
	3 On Yiu Street,	Date Received:	2006-12-14
	Shatin, N.T.	Date Tested:	2006-12-15
		Date Completed:	2006-12-15
		Next Due Date:	2007-12-14

Page:

1 of 1

ATTN:

## Mr. Henry Leung

# **Certificate of Calibration**

## Item for calibration:

Description	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337665
Microphone No.	: 2289749
Equipment No.	: N-01-01
Test conditions:	
Room Temperatre	: 20 degree Celsius
Relative Humidity	: 60%

## **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

PATRICK TSE Operation Manager

Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

# TEST REPORT

<b>APPLICANT:</b>	<b>Cinotech Consultants Limited</b>	Test Report No.:	C/N/61116/1
	1602-1610 Delta House,	Date of Issue:	2006-11-16
	3 On Yiu Street,	Date Received:	2006-11-15
	Shatin, N.T.	Date Tested:	2006-11-15
		Date Completed:	2006-11-16
		Next Due Date:	2007-11-15

ATTN:

Mr. Henry Leung

## **Certificate of Calibration**

#### Item for calibration:

Description ·	: Integrating Sound Level Meter
Manufacturer	: Brüel & Kjær
Model No.	: B&K 2238
Serial No.	: 2337666
Microphone No.	: 2289750
Equipment No.	: N-01-02
tions:	

## Test conditions:

Room Temperatre Relative Humidity : 20 degree Celsius : 59%

Page:

1 of 1

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

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PATRICK TSE Operation Manager

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## **TEST REPORT**

<b>APPLICANT:</b>	<b>Cinotech Consultants Limited</b>	Test Report No.:	C/N/60904-1
	1601-1610 Delta House,	Date of Issue:	2006-09-04
	3 On Yiu Street,	Date Received:	2006-09-02
	Shatin, N.T.	Date Tested:	2006-09-02
		Date Completed:	2006-09-04

ATTN:

#### Mr. Henry Leung

## **Certificate of Calibration**

#### Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2359311 : 2346382 : N-01-03

Next Due Date:

Page:

2007-09-03

1 of 1

**Test conditions:** 

Room Temperatre Relative Humidity : 23 degree Celsius : 64%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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PATRICK TSE Laborary Manager

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## **TEST REPORT**

<b>APPLICANT:</b>	<b>Cinotech Consultants Limited</b>	Test Report No.:	C/N/60904-2
	1602-1610 Delta House,	Date of Issue:	2006-09-04
	3 On Yiu Street,	Date Received:	2006-09-02
	Shatin, N.T.	Date Tested:	2006-09-02
		Date Completed:	2006-09-04

ATTN:

#### Mr. Henry Leung

### **Certificate of Calibration**

#### Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

**Test conditions:** 

Room Temperatre Relative Humidity Pressure : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2359303 : N-01-04

Next Due Date:

Page:

2007-09-03

1 of 1

: 23 degree Celsius : 63% : 1006.5hPa

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

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Patrick

PATRICK TSE Operation Manager

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## **TEST REPORT**

<b>APPLICANT:</b>	<b>Cinotech Consultants Limited</b>	Test Report No .:	C/N/61014/1
	1602-1610 Delta House,	Date of Issue:	2006-10-14
	3 On Yiu Street,	Date Received:	2006-10-13
	Shatin, N.T.	Date Tested:	2006-10-14
		Date Completed:	2006-10-14
		Next Due Date:	2007-10-13

ATTN:

## Mr. Henry Leung

## **Certificate of Calibration**

### Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No. : Integrating Sound Level Meter : Brüel & Kjær : B&K 2238 : 2394976 : 2407349 : N-01-05

Page:

1 of 1

#### **Test conditions:**

Room Temperatre Relative Humidity : 21 degree Celsius : 60%

#### **Test Specifications:**

Performance checking at 94 and 114 dB

### Methodology:

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.** 

Patrick

**PATRICK TSE** Operation Manager

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Unit C, 1/F, Goldlion Holdings Center 13-15 Yuen Shun Circuit, Shatin, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

## **TEST REPORT**

<b>APPLICANT:</b>	<b>Cinotech Consultants Limited</b>	Test Report No.:	C/N/61116/2
	1602-1610 Delta House,	Date of Issue:	2006-11-16
	3 On Yiu Street,	Date Received:	2006-11-15
	Shatin, N.T.	Date Tested:	2006-11-15
		Date Completed:	2006-11-16
		Next Due Date:	2007-11-15
ATTN:	Mr. Henry Leung	Page:	1 of 1

#### Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2326353
Project No.	: C13
Equipment No.	: N-02-01

### **Test conditions:**

Room Temperatre: 20 degree CelsiusRelative Humidity: 59%Pressure: 1015.2 hPa

### Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

### **Results:**

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0\pm~0.1~\mathrm{dB}$

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.** 

Patrick

PATRICK TSE Operation Manager

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## **TEST REPORT**

APPLICANT:	Cinotech Consultants Limited 1602-1610 Delta House,	Test Report No.: Date of Issue:	C/06/70305 2007-03-05
	3 On Yiu Street,	Date Received:	2007-03-03
	Shatin, N.T.	Date Tested:	2007-03-03
		Date Completed:	2007-03-05
		Next Due Date:	2008-03-04
ATTN:	Mr. Henry Leung	Page:	1 of 1

#### Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2343007
Project No.	: C13
Equipment No.	: N-02-02
Test conditions:	
Room Temperatre	: 20 degree Celsius
Relative Humidity	: 65%
Pressure	: 1020.1hPa

#### Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

### **Results:**

Sound Pressure Level	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.2 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patrick.

PATRICK TSE Operation Manager

606 - 608 Cornell Centre, 50 Wing Tai Road, Chai Wan, Hong Kong. Tel: (852) 2898 7388 Fax: (852) 2898 7076

## **TEST REPORT**

<b>APPLICANT:</b>	<b>Cinotech Consultants Limited</b>	Test Report No.:	C/N/60904-3
	1601-1610 Delta House,	Date of Issue:	2006-09-04
	3 On Yiu Street,	Date Received:	2006-09-02
	Shatin, N.T.	Date Tested:	2006-09-02
		Date Completed:	2006-09-04
		Next Due Date:	2007-09-03
ATTN:	Mr. Henry Leung	Page:	1 of 1

### Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2412367
Equipment No.	: N-02-03

### **Test conditions:**

Room Temperatre	: 23 degree Celsius
Relative Humidity	: 63%
Pressure	: 1020.1hPa

#### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### **Results:**

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY: For and On Behalf of WELLAB Ltd.

Patrick

PATRICK TSE Operation Manager

APPENDIX C ENVIRONMENTAL MONITORING AND AUDIT SCHEDULE

### Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for August 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug
	1 hr TSP Noise	1 hr TSP			1 hr TSP	
				24 hr TSP		
5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug
		1 hr TSP Noise	1 hr TSP	1 hr TSP		
		TOISE	24 hr TSP			
12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug
		1 hr TSP Noise 24 hr TSP	1 hr TSP	1 hr TSP		
19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug
		1 hr TSP Noise		1 hr TSP	1 hr TSP	
	24 hr TSP					24 hr TSP
26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	1-Sep
	1 hr TSP Noise	1 hr TSP		1 hr TSP		
					24 hr TSP	

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- AM2 Lai Chi Kok Sports Centre
- NM2 Lai Chi Kok Correctional Institution
- NM4 Mei Foo Sun Chuen, Phase 5
- NM8a M/F of Nob Hill
- NM8b 3/F of Nob Hill
- NM9 G/F, Hoi Fai House, Hoi Lai Estate

### Environmental Monitoring for Lai Chi Kok Viaduct Tentative Air Quality and Noise Monitoring Schedule for September 2007

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

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

- AM2 Lai Chi Kok Sports Centre
- NM2 Lai Chi Kok Correctional Institution
- NM4 Mei Foo Sun Chuen, Phase 5
- NM8a M/F of Nob Hill
- NM8b 3/F of Nob Hill
- NM9 G/F, Hoi Fai House, Hoi Lai Estate

APPENDIX D WIND DATA

Date	Time	Wind Speed m/s	Direction
1-Aug-2007	00:00	0.9	SW
1-Aug-2007	01:00	0.9	SW
1-Aug-2007	02:00	0.9	SW
1-Aug-2007	03:00	1.3	SW
1-Aug-2007	04:00	1.3	SW
1-Aug-2007	05:00	0.9	SW
1-Aug-2007	06:00	0.4	SW
1-Aug-2007	07:00	0.0	SW
1-Aug-2007	08:00	0.4	SW
1-Aug-2007	09:00	0.4	SW
1-Aug-2007	10:00	0.0	SW
1-Aug-2007	11:00	0.0	SW
1-Aug-2007	12:00	0.0	SW
1-Aug-2007	13:00	0.0	SW
1-Aug-2007	14:00	0.0	W
1-Aug-2007	15:00	0.0	W
1-Aug-2007	16:00	0.0	W
1-Aug-2007	17:00	0.0	W
1-Aug-2007	18:00	0.0	SW
1-Aug-2007	19:00	0.4	SW
1-Aug-2007	20:00	0.9	WSW
1-Aug-2007	21:00	0.9	W
1-Aug-2007	22:00	0.9	WSW
1-Aug-2007	23:00	1.3	NE
2-Aug-2007	00:00	1.8	NE
2-Aug-2007	01:00	1.3	NNE
2-Aug-2007	02:00	1.3	ENE
2-Aug-2007	03:00	0.4	ENE
2-Aug-2007	04:00	0.9	NE
2-Aug-2007	05:00	0.4	Ν
2-Aug-2007	06:00	0.0	ENE
2-Aug-2007	07:00	0.0	NE
2-Aug-2007	08:00	0.0	NE
2-Aug-2007	09:00	0.0	NE
2-Aug-2007	10:00	0.0	W
2-Aug-2007	11:00	0.0	Ν
2-Aug-2007	12:00	0.0	NE
2-Aug-2007	13:00	0.0	Ν
2-Aug-2007	14:00	0.0	Ν
2-Aug-2007	15:00	0.4	ENE
2-Aug-2007	16:00	0.0	ENE
2-Aug-2007	17:00	0.0	ENE
2-Aug-2007	18:00	0.0	ENE
2-Aug-2007	19:00	0.0	E
2-Aug-2007	20:00	0.4	ENE
2-Aug-2007	21:00	0.9	SE
2-Aug-2007	22:00	1.3	SSE
2-Aug-2007	23:00	0.9	S
3-Aug-2007	00:00	1.3	SE
3-Aug-2007	01:00	1.3	
3-Aug-2007	02:00	0.9	SW
3-Aug-2007	03:00	0.9	NNE
3-Aug-2007	04:00	1.3	N
3-Aug-2007	05:00	0.4	NW

Date	Time	Wind Speed m/s	Direction
3-Aug-2007	06:00	0.0	NE
3-Aug-2007	07:00	0.0	ENE
3-Aug-2007	08:00	0.0	SSE
3-Aug-2007	09:00	0.4	SE
3-Aug-2007	10:00	0.0	WNW
3-Aug-2007	11:00	0.0	SW
3-Aug-2007	12:00	0.0	WSW
3-Aug-2007	13:00	0.0	WSW
3-Aug-2007	14:00	0.0	W
3-Aug-2007	15:00	0.0	WSW
3-Aug-2007	16:00	0.0	W
3-Aug-2007	17:00	0.0	WSW
3-Aug-2007	18:00	0.0	WSW
3-Aug-2007	19:00	0.0	W
3-Aug-2007	20:00	0.4	WSW
3-Aug-2007	21:00	1.3	WSW
3-Aug-2007	22:00	1.3	WSW
3-Aug-2007	23:00	1.8	S
4-Aug-2007	00:00	1.3	SSW
4-Aug-2007	01:00	1.3	WSW
4-Aug-2007	02:00	1.3	WNW
4-Aug-2007	03:00	1.3	WNW
4-Aug-2007	04:00	0.4	W
4-Aug-2007	05:00	0.4	S
4-Aug-2007	06:00	0.4	SSW
4-Aug-2007	07:00	0.0	S
4-Aug-2007	08:00	0.0	SSW
4-Aug-2007	09:00	0.0	S
4-Aug-2007	10:00	0.0	W
4-Aug-2007	11:00	0.9	WSW
4-Aug-2007	12:00	1.3	WSW
4-Aug-2007	13:00	1.3	SW
4-Aug-2007	14:00	1.8	SW
4-Aug-2007	15:00	1.3	SW
4-Aug-2007	16:00	1.3	SW
4-Aug-2007	17:00	0.9	SW
4-Aug-2007	18:00	0.4	SW
4-Aug-2007	19:00	0.4	SW
4-Aug-2007	20:00	2.7	SW
4-Aug-2007	21:00	0.4	SW
4-Aug-2007	22:00	0.9	SW
4-Aug-2007	23:00	0.4	SW
5-Aug-2007	00:00	0.0	W
5-Aug-2007	01:00	0.0	WSW
5-Aug-2007	02:00	0.4	W
5-Aug-2007	03:00	0.0	SSW
5-Aug-2007	04:00	0.0	SSW
5-Aug-2007	05:00	0.0	SW
5-Aug-2007	06:00	0.0	SW
5-Aug-2007	07:00	0.0	W
5-Aug-2007	08:00	0.0	W
5-Aug-2007	09:00	0.4	W
5-Aug-2007	10:00	0.0	W
5-Aug-2007	11:00	0.4	W

Date	Time	Wind Speed m/s	Direction
5-Aug-2007	12:00	0.9	WNW
5-Aug-2007	13:00	0.9	W
5-Aug-2007	14:00	0.9	W
5-Aug-2007	15:00	0.9	W
5-Aug-2007	16:00	0.9	W
5-Aug-2007	17:00	0.4	W
5-Aug-2007	18:00	0.4	WSW
5-Aug-2007	19:00	0.4	W
5-Aug-2007	20:00	0.4	SSW
5-Aug-2007	21:00	0.4	
5-Aug-2007	22:00	0.0	
5-Aug-2007	23:00	0.0	
6-Aug-2007	00:00	4.5	SSE
6-Aug-2007	01:00	4.0	
6-Aug-2007	02:00	2.7	SSE
6-Aug-2007	03:00	2.7	
6-Aug-2007	04:00	2.2	
6-Aug-2007	05:00	1.8	SSE
6-Aug-2007	06:00	1.8	SSE
6-Aug-2007	07:00	0.9	
6-Aug-2007	08:00	0.4	Е
6-Aug-2007	09:00	1.3	W
6-Aug-2007	10:00	1.8	SW
6-Aug-2007	11:00	2.2	WSW
6-Aug-2007	12:00	1.3	W
6-Aug-2007	13:00	2.2	W
6-Aug-2007	14:00	0.4	W
6-Aug-2007	15:00	0.4	ENE
6-Aug-2007	16:00	1.3	ENE
6-Aug-2007	17:00	1.8	NE
6-Aug-2007	18:00	1.8	ENE
6-Aug-2007	19:00	1.3	ENE
6-Aug-2007	20:00	1.8	
6-Aug-2007	21:00	0.9	
6-Aug-2007	22:00	0.4	SW
6-Aug-2007	23:00	0.9	SW
7-Aug-2007	00:00	3.6	SW
7-Aug-2007	01:00	2.2	SW
7-Aug-2007	02:00	1.8	SW
7-Aug-2007	03:00	0.9	SW
7-Aug-2007	04:00	0.4	SW
7-Aug-2007	05:00	1.3	SW
7-Aug-2007	06:00	0.0	SW
7-Aug-2007	07:00	0.9	
7-Aug-2007	08:00	1.3	E
7-Aug-2007	09:00	4.0	W
7-Aug-2007	10:00	5.8	WNW
7-Aug-2007	11:00	5.8	W
7-Aug-2007	12:00	6.7	W
7-Aug-2007	13:00	7.6	W
7-Aug-2007	14:00	7.6	N
7-Aug-2007	15:00	8.5	N
7-Aug-2007	16:00	7.2	NNE
7-Aug-2007	17:00	6.7	NNE

Date	Time	Wind Speed m/s	Direction
7-Aug-2007	18:00	4.0	ESE
7-Aug-2007	19:00	2.2	SSE
7-Aug-2007	20:00	2.7	WSW
7-Aug-2007	21:00	4.9	WSW
7-Aug-2007	22:00	4.9	NW
7-Aug-2007	23:00	2.7	WSW
8-Aug-2007	00:00	0.4	N
8-Aug-2007	01:00	0.0	WSW
8-Aug-2007	02:00	0.4	SSW
8-Aug-2007	03:00	0.4	WSW
8-Aug-2007	04:00	0.4	WSW
8-Aug-2007	05:00	0.4	WSW
8-Aug-2007	06:00	0.0	SSW
8-Aug-2007	07:00	0.0	SSW
8-Aug-2007	08:00	0.0	S
8-Aug-2007	09:00	0.0	SSW
8-Aug-2007	10:00	0.4	W
8-Aug-2007	11:00	0.0	WNW
8-Aug-2007	12:00	0.4	WNW
8-Aug-2007	13:00	1.3	WSW
8-Aug-2007	14:00	1.8	WSW
8-Aug-2007	15:00	1.3	W
8-Aug-2007	16:00	1.3	Ŵ
8-Aug-2007	17:00	0.9	W
8-Aug-2007	18:00	0.4	WSW
8-Aug-2007	19:00	0.0	W
8-Aug-2007	20:00	0.0	WSW
8-Aug-2007	21:00	0.0	WSW
8-Aug-2007	22:00	0.0	WSW
8-Aug-2007	23:00	0.0	SW
9-Aug-2007	00:00	0.4	WSW
9-Aug-2007	01:00	0.0	WSW
9-Aug-2007	02:00	0.0	SW
9-Aug-2007	03:00	0.4	WSW
9-Aug-2007	04:00	0.4	Wew
9-Aug-2007	05:00	0.4	W
9-Aug-2007	06:00	0.0	SW
9-Aug-2007	07:00	0.9	W
9-Aug-2007	08:00	0.0	SSW
9-Aug-2007	09:00	0.0	W
9-Aug-2007	10:00	0.9	W
9-Aug-2007	11:00	0.4	Ŵ
9-Aug-2007	12:00	0.0	W
9-Aug-2007	13:00	1.8	WSW
9-Aug-2007	14:00	0.9	WSW
9-Aug-2007	15:00	3.6	W
9-Aug-2007	16:00	2.2	WSW
9-Aug-2007	17:00	0.4	W
9-Aug-2007	18:00	0.9	W
9-Aug-2007 9-Aug-2007	19:00	0.9	ESE
9-Aug-2007 9-Aug-2007	20:00	0.9	ESE
9-Aug-2007 9-Aug-2007	20.00	0.9	ESE
	21:00	1.3	NE
9-Aug-2007			

Date	Time	Wind Speed m/s	Direction
10-Aug-2007	00:00	0.4	NE
10-Aug-2007	01:00	0.9	NE
10-Aug-2007	02:00	0.4	NE
10-Aug-2007	03:00	0.4	NE
10-Aug-2007	04:00	1.8	NE
10-Aug-2007	05:00	0.9	NE
10-Aug-2007	06:00	2.2	NE
10-Aug-2007	07:00	1.8	
10-Aug-2007	08:00	0.9	SSW
10-Aug-2007	09:00	1.8	W
10-Aug-2007	10:00	0.9	W
10-Aug-2007	11:00	1.3	W
10-Aug-2007	12:00	2.2	W
10-Aug-2007	13:00	2.2	W
10-Aug-2007	14:00	1.8	W
10-Aug-2007	15:00	2.7	SSW
10-Aug-2007	16:00	2.7	N
10-Aug-2007	17:00	3.1	NNE
10-Aug-2007	18:00	2.7	ENE
10-Aug-2007	19:00	2.7	ENE
10-Aug-2007	20:00	2.2	S
10-Aug-2007	21:00	0.9	S
10-Aug-2007	22:00	1.8	E
10-Aug-2007	23:00	1.8	E
11-Aug-2007	00:00	1.8	
11-Aug-2007	01:00	1.8	
11-Aug-2007	02:00	0.9	
11-Aug-2007	03:00	0.4	
11-Aug-2007	04:00	0.0	
11-Aug-2007	05:00	0.9	
11-Aug-2007	06:00	0.4	
11-Aug-2007	07:00	0.0	
11-Aug-2007	08:00	0.4	
11-Aug-2007	09:00	2.7	E
11-Aug-2007	10:00	2.2	W
11-Aug-2007	11:00	1.8	W
11-Aug-2007	12:00	1.8	W
11-Aug-2007	13:00	3.1	W
11-Aug-2007	14:00	4.0	Ν
11-Aug-2007	15:00	2.7	Ν
11-Aug-2007	16:00	2.2	Ν
11-Aug-2007	17:00	2.2	E
11-Aug-2007	18:00	1.3	E
11-Aug-2007	19:00	0.4	ESE
11-Aug-2007	20:00	0.0	E
11-Aug-2007	21:00	0.0	E
11-Aug-2007	22:00	0.0	
11-Aug-2007	23:00	0.0	
12-Aug-2007	00:00	0.0	Ν
12-Aug-2007	01:00	0.0	N
12-Aug-2007	02:00	0.0	N
12-Aug-2007	03:00	0.0	N
12-Aug-2007	04:00	0.0	N
12-Aug-2007	05:00	0.0	N

Date	Time	Wind Speed m/s	Direction
12-Aug-2007	06:00	0.0	Ν
12-Aug-2007	07:00	0.0	Ν
12-Aug-2007	08:00	0.0	E
12-Aug-2007	09:00	0.0	W
12-Aug-2007	10:00	0.9	W
12-Aug-2007	11:00	1.8	W
12-Aug-2007	12:00	3.1	WNW
12-Aug-2007	13:00	2.2	W
12-Aug-2007	14:00	1.8	W
12-Aug-2007	15:00	1.3	W
12-Aug-2007	16:00	1.3	W
12-Aug-2007	17:00	0.9	W
12-Aug-2007	18:00	1.3	W
12-Aug-2007	19:00	0.0	WSW
12-Aug-2007	20:00	0.0	W
12-Aug-2007	21:00	0.0	W
12-Aug-2007	22:00	0.0	W
12-Aug-2007	23:00	0.0	W
13-Aug-2007	00:00	0.0	W
13-Aug-2007	01:00	0.0	W
13-Aug-2007	02:00	0.0	WNW
13-Aug-2007	03:00	0.0	W
13-Aug-2007	04:00	0.0	W
13-Aug-2007	05:00	0.0	WNW
13-Aug-2007	06:00	0.0	W
13-Aug-2007	07:00	0.0	W
13-Aug-2007	08:00	0.0	WSW
13-Aug-2007	09:00	0.9	WSW
13-Aug-2007	10:00	2.2	W
13-Aug-2007	11:00	3.1	WNW
13-Aug-2007	12:00	2.7	W
13-Aug-2007	13:00	0.9	WNW
13-Aug-2007	14:00	0.9	W
13-Aug-2007	15:00	1.3	Ŵ
13-Aug-2007	16:00	0.9	Ŵ
13-Aug-2007	17:00	0.9	SW
13-Aug-2007	18:00	0.0	W
13-Aug-2007	19:00	0.9	W
13-Aug-2007	20:00	1.8	WSW
13-Aug-2007	21:00	0.9	W
13-Aug-2007	22:00	0.0	W
13-Aug-2007	23:00	0.4	W
14-Aug-2007	00:00	0.4	NNE
14-Aug-2007	01:00	0.9	WSW
14-Aug-2007	02:00	1.3	S
14-Aug-2007	03:00	0.4	S
14-Aug-2007	04:00	0.0	S
14-Aug-2007	05:00	0.4	S
14-Aug-2007	06:00	0.4	<u> </u>
14-Aug-2007	07:00	0.4	
14-Aug-2007	08:00	0.4	SW
14-Aug-2007	09:00	1.8	SSW
14-Aug-2007	10:00	1.3	W
14-Aug-2007	11:00	2.2	W

Date	Time	Wind Speed m/s	Direction
14-Aug-2007	12:00	2.7	SW
14-Aug-2007	13:00	2.7	SSW
14-Aug-2007	14:00	1.3	SSW
14-Aug-2007	15:00	1.8	W
14-Aug-2007	16:00	2.2	WNW
14-Aug-2007	17:00	2.2	W
14-Aug-2007	18:00	0.9	Ŵ
14-Aug-2007	19:00	0.9	WSW
14-Aug-2007	20:00	0.0	W
14-Aug-2007	21:00	0.9	WSW
14-Aug-2007	22:00	1.8	SSW
14-Aug-2007	23:00	0.9	SSW
15-Aug-2007	00:00	0.0	SSW
15-Aug-2007	01:00	1.8	WSW
15-Aug-2007	02:00	1.3	WSW
15-Aug-2007	03:00	1.8	W
15-Aug-2007	04:00	1.3	WSW
15-Aug-2007	05:00	0.4	WSW
15-Aug-2007	06:00	0.0	W
15-Aug-2007	07:00	0.4	W
15-Aug-2007	08:00	0.9	W
15-Aug-2007	09:00	1.3	WSW
15-Aug-2007	10:00	1.8	W
15-Aug-2007	11:00	1.8	W
15-Aug-2007	12:00	2.7	W
15-Aug-2007	13:00	3.1	WSW
15-Aug-2007	14:00	2.2	WSW
15-Aug-2007	15:00	2.2	Wew
15-Aug-2007	16:00	1.8	SSE
15-Aug-2007	17:00	1.8	SSE
15-Aug-2007	18:00	0.9	ENE
15-Aug-2007	19:00	0.0	NE
15-Aug-2007	20:00	0.0	E
15-Aug-2007	21:00	0.0	S
15-Aug-2007	22:00	0.4	S
15-Aug-2007	23:00	0.0	wsw
16-Aug-2007	00:00	0.4	WSW
16-Aug-2007	01:00	1.3	SW
16-Aug-2007	02:00	0.4	WSW
16-Aug-2007	03:00	0.4	W
16-Aug-2007	03:00	0.0	W
16-Aug-2007	04:00	0.0	W
16-Aug-2007	06:00	0.0	SW
16-Aug-2007	07:00	0.0	
16-Aug-2007	07:00	0.0	WSW
16-Aug-2007	09:00	0.9	WSW
16-Aug-2007	10:00	2.2	W
16-Aug-2007	11:00	2.2	WSW
16-Aug-2007	12:00	1.8	WSW
16-Aug-2007	13:00	2.2	W
	14:00	1.3	W
16-Aug-2007			WNW
16-Aug-2007	15:00	0.0	
16-Aug-2007	16:00	0.4	W WSW
16-Aug-2007	17:00	0.0	VV3VV

Date	Time	Wind Speed m/s	Direction
16-Aug-2007	18:00	0.4	WSW
16-Aug-2007	19:00	1.3	S
16-Aug-2007	20:00	0.4	WSW
16-Aug-2007	21:00	0.4	SSW
16-Aug-2007	22:00	0.4	W
16-Aug-2007	23:00	0.0	S
17-Aug-2007	00:00	0.0	S
17-Aug-2007	01:00	0.0	W
17-Aug-2007	02:00	0.0	WSW
17-Aug-2007	03:00	0.0	WSW
17-Aug-2007	03:00	0.0	SW
<u> </u>	04:00	0.0	SW
17-Aug-2007			SSW
17-Aug-2007	06:00	0.0	
17-Aug-2007	07:00	0.0	SW
17-Aug-2007	08:00	0.0	WSW
17-Aug-2007	09:00	0.0	W
17-Aug-2007	10:00	1.8	W
17-Aug-2007	11:00	2.2	WSW
17-Aug-2007	12:00	2.2	W
17-Aug-2007	13:00	1.3	WSW
17-Aug-2007	14:00	0.9	W
17-Aug-2007	15:00	2.2	W
17-Aug-2007	16:00	1.3	W
17-Aug-2007	17:00	0.4	WNW
17-Aug-2007	18:00	0.4	WNW
17-Aug-2007	19:00	0.4	W
17-Aug-2007	20:00	0.4	W
17-Aug-2007	21:00	0.4	W
17-Aug-2007	22:00	0.0	W
17-Aug-2007	23:00	0.0	WNW
18-Aug-2007	00:00	0.0	W
18-Aug-2007	01:00	0.0	W
18-Aug-2007	02:00	0.0	W
18-Aug-2007	03:00	0.0	W
18-Aug-2007	04:00	0.0	WNW
18-Aug-2007	05:00	0.0	W
18-Aug-2007	06:00	0.0	W
18-Aug-2007	07:00	0.0	W
18-Aug-2007	08:00	0.0	W
18-Aug-2007	09:00	1.3	WNW
18-Aug-2007	10:00	2.2	W
	11:00	2.2	WNW
18-Aug-2007			W
18-Aug-2007	12:00	2.7	WNW
18-Aug-2007	13:00	3.1	
18-Aug-2007	14:00	3.6	WNW
18-Aug-2007	15:00	4.0	W
18-Aug-2007	16:00	4.0	WNW
18-Aug-2007	17:00	4.0	WNW
18-Aug-2007	18:00	3.6	S
18-Aug-2007	19:00	3.6	SSW
18-Aug-2007	20:00	2.7	SSW
18-Aug-2007	21:00	3.6	WNW
18-Aug-2007	22:00	4.5	SW
18-Aug-2007	23:00	4.9	W

Date	Time	Wind Speed m/s	Direction
19-Aug-2007	00:00	3.6	W
19-Aug-2007	01:00	4.0	WNW
19-Aug-2007	02:00	3.6	W
19-Aug-2007	03:00	3.1	W
19-Aug-2007	04:00	3.1	WNW
19-Aug-2007	05:00	2.7	W
19-Aug-2007	06:00	2.7	S
19-Aug-2007	07:00	1.8	SW
19-Aug-2007	08:00	1.3	SSE
19-Aug-2007	09:00	2.7	S
19-Aug-2007	10:00	2.7	W
19-Aug-2007	11:00	2.7	W
19-Aug-2007	12:00	4.0	W
19-Aug-2007	13:00	4.0	W
19-Aug-2007	14:00	4.5	Ŵ
19-Aug-2007	15:00	4.0	W
19-Aug-2007	16:00	4.0	Ŵ
19-Aug-2007	17:00	3.1	W
19-Aug-2007	18:00	3.6	Ŵ
19-Aug-2007	19:00	3.6	W
19-Aug-2007	20:00	3.6	W
19-Aug-2007	21:00	3.1	W
19-Aug-2007	22:00	2.2	W
19-Aug-2007	23:00	2.7	ENE
20-Aug-2007	00:00	1.3	
20-Aug-2007	01:00	0.9	
20-Aug-2007	02:00	0.9	
20-Aug-2007	03:00	0.4	
20-Aug-2007	04:00	0.0	
20-Aug-2007	05:00	0.0	ENE
20-Aug-2007	06:00	0.0	
20-Aug-2007	07:00	0.0	ENE
20-Aug-2007	08:00	0.9	
20-Aug-2007	09:00	2.2	NNE
20-Aug-2007	10:00	1.8	NW
20-Aug-2007	11:00	3.1	NW
20-Aug-2007	12:00	4.5	E
20-Aug-2007	13:00	4.5	NNE
20-Aug-2007	14:00	3.6	NE
20-Aug-2007	15:00	4.0	ENE
20-Aug-2007	16:00	3.6	ENE
20-Aug-2007	17:00	3.1	N
20-Aug-2007	18:00	3.1	ENE
20-Aug-2007	19:00	2.7	ENE
20-Aug-2007	20:00	2.7	
20-Aug-2007	21:00	1.8	ENE
20-Aug-2007	22:00	1.3	ENE
20-Aug-2007	23:00	1.8	E
21-Aug-2007	00:00	2.7	
21-Aug-2007	01:00	1.8	E
21-Aug-2007	02:00	3.1	
21-Aug-2007	03:00	2.7	
21-Aug-2007	04:00	2.7	
21-Aug-2007	05:00	2.7	

Date	Time	Wind Speed m/s	Direction
21-Aug-2007	06:00	3.1	
21-Aug-2007	07:00	2.7	
21-Aug-2007	08:00	2.2	E
21-Aug-2007	09:00	2.7	W
21-Aug-2007	10:00	3.1	NE
21-Aug-2007	11:00	2.7	NE
21-Aug-2007	12:00	3.1	ENE
21-Aug-2007	13:00	2.7	N
21-Aug-2007	14:00	2.7	ENE
21-Aug-2007	15:00	1.8	ENE
21-Aug-2007	16:00	1.3	NE
21-Aug-2007 21-Aug-2007	17:00	1.3	ENE
21-Aug-2007 21-Aug-2007	18:00	0.9	E
21-Aug-2007 21-Aug-2007	19:00	0.4	NE
21-Aug-2007 21-Aug-2007	20:00	0.0	 
	21:00	0.4	ENE
21-Aug-2007 21-Aug-2007	21:00	0.4	ENE
		1.8	ENE
21-Aug-2007	23:00	· · · · · · · · · · · · · · · · · · ·	EINE
22-Aug-2007	00:00	1.8	
22-Aug-2007	01:00	1.3	
22-Aug-2007	02:00	1.8	
22-Aug-2007	03:00	2.7	ENE
22-Aug-2007	04:00	2.7	
22-Aug-2007	05:00	3.1	
22-Aug-2007	06:00	2.2	
22-Aug-2007	07:00	3.1	
22-Aug-2007	08:00	2.7	
22-Aug-2007	09:00	4.0	ENE
22-Aug-2007	10:00	3.6	W
22-Aug-2007	11:00	3.6	SW
22-Aug-2007	12:00	4.0	WSW
22-Aug-2007	13:00	3.1	WSW
22-Aug-2007	14:00	2.7	SW
22-Aug-2007	15:00	3.1	SW
22-Aug-2007	16:00	3.6	WSW
22-Aug-2007	17:00	2.7	S
22-Aug-2007	18:00	3.1	S
22-Aug-2007	19:00	2.7	SSW
22-Aug-2007	20:00	3.1	SSW
22-Aug-2007	21:00	2.7	SSW
22-Aug-2007	22:00	2.2	NW
22-Aug-2007	23:00	1.8	NW
23-Aug-2007	00:00	1.8	NW
23-Aug-2007	01:00	3.1	NW
23-Aug-2007	02:00	3.6	NW
23-Aug-2007	03:00	3.6	NW
23-Aug-2007	04:00	3.1	NW
23-Aug-2007	05:00	3.1	NW
23-Aug-2007	06:00	3.1	NW
23-Aug-2007	07:00	4.0	NW
23-Aug-2007	08:00	4.0	NW
23-Aug-2007	09:00	5.4	NW
23-Aug-2007	10:00	5.4	NW
23-Aug-2007	11:00	7.2	NW

Date	Time	Wind Speed m/s	Direction
23-Aug-2007	12:00	8.5	NW
23-Aug-2007	13:00	8.0	W
23-Aug-2007	14:00	7.2	SW
23-Aug-2007	15:00	5.4	SSW
23-Aug-2007	16:00	6.7	SW
23-Aug-2007	17:00	5.4	SW
23-Aug-2007	18:00	4.5	WSW
23-Aug-2007	19:00	4.9	SW
23-Aug-2007	20:00	4.9	SW
23-Aug-2007	21:00	4.0	SW
23-Aug-2007	22:00	5.4	SSW
23-Aug-2007	23:00	4.5	SW
24-Aug-2007	00:00	4.0	SW
24-Aug-2007	01:00	4.5	WSW
24-Aug-2007 24-Aug-2007	02:00	3.6	SW
-		4.5	SW
24-Aug-2007 24-Aug-2007	03:00 04:00	6.3	 WSW
24-Aug-2007 24-Aug-2007			WSW
24-Aug-2007 24-Aug-2007	05:00	6.3 6.3	SW
	06:00		
24-Aug-2007	07:00	4.9	SW
24-Aug-2007	08:00	5.8	SW
24-Aug-2007	09:00	5.4	SW
24-Aug-2007	10:00	6.7	SW
24-Aug-2007	11:00	7.2	SSW
24-Aug-2007	12:00	5.8	SW
24-Aug-2007	13:00	5.8	SW
24-Aug-2007	14:00	0.9	SW
24-Aug-2007	15:00	0.9	SW
24-Aug-2007	16:00	0.4	SW
24-Aug-2007	17:00	2.2	SW
24-Aug-2007	18:00	3.1	W
24-Aug-2007	19:00	3.1	W
24-Aug-2007	20:00	3.1	W
24-Aug-2007	21:00	3.1	W
24-Aug-2007	22:00	1.8	W
24-Aug-2007	23:00	3.6	W
25-Aug-2007	00:00	4.0	W
25-Aug-2007	01:00	4.9	W
25-Aug-2007	02:00	3.6	WSW
25-Aug-2007	03:00	2.7	W
25-Aug-2007	04:00	3.1	WNW
25-Aug-2007	05:00	2.2	W
25-Aug-2007	06:00	0.4	W
25-Aug-2007	07:00	0.9	WNW
25-Aug-2007	08:00	0.9	WNW
25-Aug-2007	09:00	0.4	W
25-Aug-2007	10:00	2.2	WNW
25-Aug-2007	11:00	3.1	W
25-Aug-2007	12:00	3.1	W
25-Aug-2007	13:00	3.1	WNW
25-Aug-2007	14:00	3.6	WNW
25-Aug-2007	15:00	4.5	WNW
25-Aug-2007	16:00	4.0	WNW
25-Aug-2007	17:00	3.6	W

18:00	0.0	
	2.2	W
19:00	1.8	WNW
20:00	0.4	WNW
21:00	0.0	W
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23:00	0.9	WNW
00:00	0.9	W
01:00	0.0	WNW
02:00	0.0	W
03:00	0.0	W
04:00	0.0	W
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06:00	0.0	WNW
07:00	0.0	W
08:00	0.0	W
09:00	0.0	NW
10:00	0.9	WNW
11:00	0.4	WNW
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		WSW SW
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	Wind Speed m/s	Direction
00:00	0.0	SW
01:00	0.0	WSW
02:00	0.0	SSW
03:00	0.0	WSW
04:00	0.0	W
05:00	0.0	W
		SSW
	0.0	W
08:00	0.0	W
		WSW
	0.9	WNW
	1.8	WNW
		WNW
		WNW
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		NE
	I I	NE
		NE
	I I	NE
		NE
	I I	
		SSW
04:00	4.0	
	03:00           04:00           05:00           06:00           07:00           08:00           09:00           10:00           11:00           12:00           13:00           14:00           15:00           16:00           17:00           20:00           21:00           23:00           00:00           01:00           02:00           03:00           04:00           05:00           06:00           07:00           08:00           09:00           10:00           11:00           12:00           13:00           14:00           15:00           16:00           17:00           18:00           19:00           20:00           23:00           00:00           10:00           12:00           13:00           14:00           15:00           16:00           17:00           18:00 </td <td>02:00         0.0           03:00         0.0           04:00         0.0           05:00         0.0           07:00         0.0           09:00         0.0           10:00         0.9           11:00         1.8           12:00         1.8           13:00         2.2           14:00         2.2           15:00         2.2           16:00         1.8           17:00         1.8           18:00         0.9           19:00         1.3           20:00         1.8           21:00         1.8           22:00         1.8           23:00         3.6           00:00         2.7           01:00         2.2           02:00         1.8           23:00         3.6           00:00         2.7           01:00         2.2           02:00         1.8           03:00         2.7           04:00         4.0           05:00         4.5           06:00         4.5           07:00         4.5           08:00<!--</td--></td>	02:00         0.0           03:00         0.0           04:00         0.0           05:00         0.0           07:00         0.0           09:00         0.0           10:00         0.9           11:00         1.8           12:00         1.8           13:00         2.2           14:00         2.2           15:00         2.2           16:00         1.8           17:00         1.8           18:00         0.9           19:00         1.3           20:00         1.8           21:00         1.8           22:00         1.8           23:00         3.6           00:00         2.7           01:00         2.2           02:00         1.8           23:00         3.6           00:00         2.7           01:00         2.2           02:00         1.8           03:00         2.7           04:00         4.0           05:00         4.5           06:00         4.5           07:00         4.5           08:00 </td

Date	Time	Wind Speed m/s	Direction
30-Aug-2007	06:00	4.5	
30-Aug-2007	07:00	4.0	
30-Aug-2007	08:00	4.0	SSW
30-Aug-2007	09:00	4.5	WNW
30-Aug-2007	10:00	4.9	W
30-Aug-2007	11:00	6.3	W
30-Aug-2007	12:00	6.7	WNW
30-Aug-2007	13:00	6.7	WNW
30-Aug-2007	14:00	7.2	NE
30-Aug-2007	15:00	6.3	NE
30-Aug-2007	16:00	6.3	NE
30-Aug-2007	17:00	6.7	NE
30-Aug-2007	18:00	7.2	ENE
30-Aug-2007	19:00	8.0	NE
30-Aug-2007	20:00	8.5	ESE
30-Aug-2007	21:00	8.5	E
30-Aug-2007	22:00	9.8	
30-Aug-2007	23:00	9.4	E
31-Aug-2007	00:00	0.4	SSW
31-Aug-2007	01:00	0.4	NNW
31-Aug-2007	02:00	0.4	WNW
31-Aug-2007	03:00	0.4	Ν
31-Aug-2007	04:00	0.4	W
31-Aug-2007	05:00	0.0	W
31-Aug-2007	06:00	0.0	
31-Aug-2007	07:00	0.0	
31-Aug-2007	08:00	0.0	W
31-Aug-2007	09:00	0.4	W
31-Aug-2007	10:00	0.4	SSW
31-Aug-2007	11:00	0.4	SW
31-Aug-2007	12:00	0.0	SW
31-Aug-2007	13:00	0.4	SW
31-Aug-2007	14:00	0.4	SW
31-Aug-2007	15:00	0.4	SW
31-Aug-2007	16:00	0.4	W
31-Aug-2007	17:00	0.4	Ν
31-Aug-2007	18:00	0.4	NE
31-Aug-2007	19:00	0.4	W
31-Aug-2007	20:00	0.0	S
31-Aug-2007	21:00	0.0	NE
31-Aug-2007	22:00	0.4	WNW
31-Aug-2007	23:00	0.4	NE

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

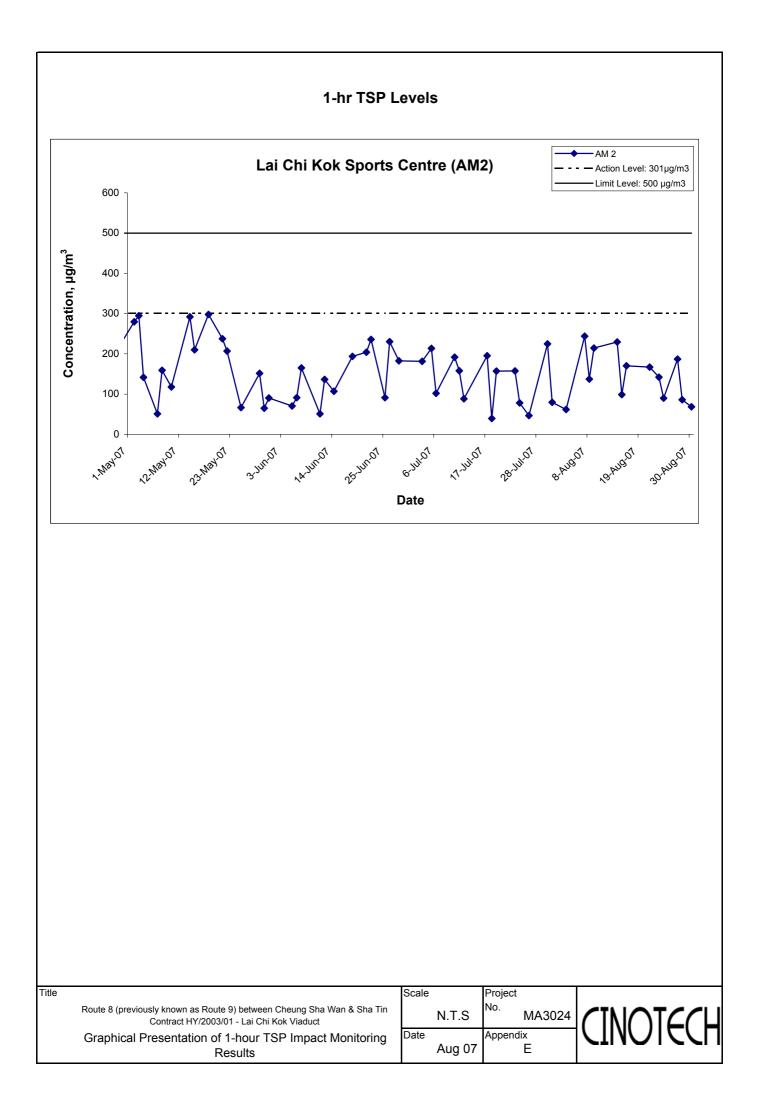
### Appendix E - 1-hour TSP Monitoring Results

#### Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter W	eight (g)	Flow Rate	e (m <sup>3</sup> /min.)	Elaps	se Time	Air	Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Time(hrs.)	(µg/m <sup>3</sup> )
3-Aug-07	Sunny	2.8203	2.8248	1.21	1.21	9271.1	9272.1	304.3	757.1	0.0045	1.21	72.9	1.0	61.8
7-Aug-07	Sunny	2.8163	2.8341	1.22	1.22	9272.1	9273.1	302.6	755.4	0.0178	1.22	73.0	1.0	243.9
8-Aug-07	Cloudy	2.8449	2.8549	1.21	1.21	9273.1	9274.1	302.1	752.0	0.0100	1.21	72.9	1.0	137.2
9-Aug-07	Cloudy	2.8357	2.8513	1.21	1.21	9298.1	9299.1	301.4	748.8	0.0156	1.21	72.8	1.0	214.2
14-Aug-07	Sunny	2.8274	2.8442	1.22	1.22	9299.1	9300.1	298.8	752.7	0.0168	1.22	73.3	1.0	229.3
15-Aug-07	Cloudy	2.7895	2.7967	1.22	1.22	9324.1	9325.1	301.1	752.9	0.0072	1.22	73.0	1.0	98.6
16-Aug-07	Cloudy	2.7734	2.7859	1.22	1.22	9325.1	9326.1	297.9	753.3	0.0125	1.22	73.4	1.0	170.3
21-Aug-07	Sunny	2.7683	2.7805	1.22	1.22	9350.1	9351.1	302.1	755.0	0.0122	1.22	73.0	1.0	167.1
23-Aug-07	Sunny	2.7847	2.7951	1.22	1.22	9351.1	9352.1	301.3	758.7	0.0104	1.22	73.3	1.0	142.0
24-Aug-07	Sunny	2.7999	2.8065	1.22	1.22	9352.1	9353.1	300.3	760.7	0.0066	1.22	73.5	1.0	89.8
27-Aug-07	Cloudy	2.7894	2.8031	1.22	1.22	9377.1	9378.1	301.4	759.8	0.0137	1.22	73.3	1.0	186.9
28-Aug-07	Cloudy	2.8015	2.8078	1.22	1.22	9378.1	9379.1	301.1	760.5	0.0063	1.22	73.4	1.0	85.9
30-Aug-07	Sunny	2.8640	2.8690	1.22	1.22	9379.1	9380.1	302.4	759.2	0.0050	1.22	73.2	1.0	68.3
													Min	61.8

 Max
 243.9

 Average
 145.8



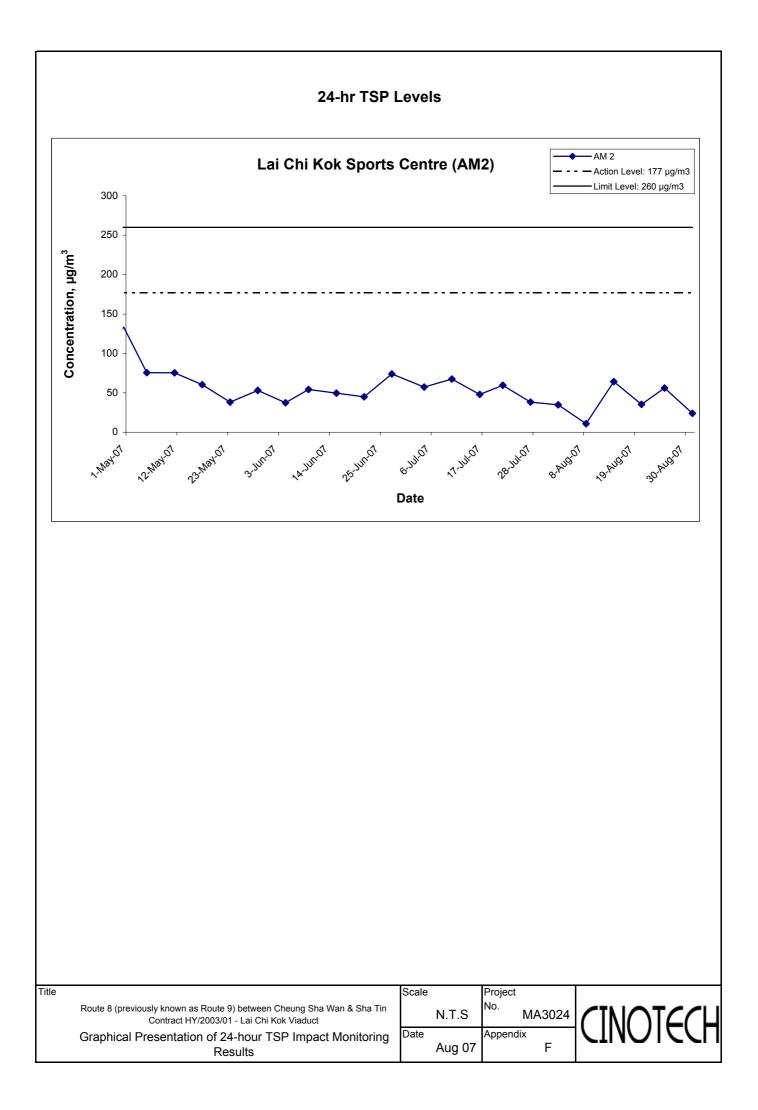
APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

### Appendix F - 24-hour TSP Monitoring Results

Location AM 2 - Lai Chi Kok Sports Centre

Date	Weather	Filter W	eight (g)	Flow Rate	Flow Rate (m <sup>3</sup> /min.)		Elapse Time		Atmospheric	Particulate	Av. flow	Total vol.	Sampling	Conc.
	Condition	Initial	Final	Initial	Final	Initial	Final	Temp. (K)	Pressure(Pa)	weight(g)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Time(hrs.)	(µg/m <sup>3</sup> )
2-Aug-07	Sunny	2.8423	2.9032	1.22	1.22	9247.1	9271.1	303.1	757.8	0.0609	1.22	1752.6	24.0	34.7
8-Aug-07	Cloudy	2.8658	2.8846	1.21	1.21	9274.1	9298.1	302.6	751.6	0.0188	1.21	1747.4	24.0	10.8
14-Aug-07	Cloudy	2.8203	2.9333	1.22	1.22	9300.1	9324.1	299.0	752.5	0.1130	1.22	1757.9	24.0	64.3
20-Aug-07	Cloudy	2.7972	2.8593	1.22	1.22	9326.1	9350.1	302.0	755.4	0.0621	1.22	1753.0	24.0	35.4
25-Aug-07	Cloudy	2.7831	2.8819	1.22	1.22	9353.1	9377.1	301.1	759.9	0.0988	1.22	1760.1	24.0	56.1
31-Aug-07	Sunny	2.8261	2.8682	1.22	1.22	9380.1	9404.1	302.5	758.5	0.0421	1.22	1754.9	24.0	24.0
													Min	10.8
													Max	64.3

Average 37.6



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

### Appendix G - Noise Monitoring Results

Location N	Location NM2 - Lai Chi Kok Reception Centre										
						Unit: dB (A) (30					
Date	Time	Weather	Measu	Measured Noise Level		<b>Baseline Level</b>	Construction Noise Level	Remarks			
	L <sub>eq</sub> L <sub>10</sub> L <sub>90</sub>		L <sub>eq</sub>	L <sub>eq</sub>							
7-Aug-07	09:00	Sunny	68.4	71.7	66.2		68.4, Measured $\leq$ Baseline				
14-Aug-07	09:00	Cloudy	68.9	71.7	66.2	68.4	59.3	Resumed since September 2006			
21-Aug-07	14:00	Sunny	68.7	70.7	65.2	00.4	56.9	Resumed since September 2000			
27-Aug-07	09:00	Cloudy	69.4	72.2	66.7		62.5				

Location N	Location NM4 - Mei Foo Sun Chuen, Phase 5											
						Unit: dB (A) (30						
Date	Time	Weather	eather Measured Noise Leve		asured Noise Level Baseline Level Construction Noise Level				Remarks			
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>					
7-Aug-07	09:45	Sunny	69.7	71.5	66.0		69.7, Measured $\leq$	Baseline	Road traffic noise from Ching			
14-Aug-07	09:45	Cloudy	75.1	78.5	72.5	73.8	69.2		Cheung Road was identified as the			
21-Aug-07	14:45	Fine	74.1	76.0	69.5	75.0	62.3		major noise source.			
27-Aug-07	09:40	Cloudy	74.3	77.5	71.5		64.7		major noise source.			

Location N	Location NM8a - M/F of Nob Hill											
Date	Time	Time Weather Unit: dB (A) (30-m				Remarks						
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>							
7-Aug-07	10:40	Sunny	74.8	77.5	73.0							
14-Aug-07	10:30	Cloudy	73.2	76.5	71.0	Road traffic noise from Ching Cheung Road						
21-Aug-07	15:30	Fine	73.0	74.0	68.5	was identified as the major noise source.						
27-Aug-07	10:30	Cloudy	72.2	77.5	70.0							

Location N	Location NM8b - 3/F of Nob Hill											
Date	Time	Weather	Unit: dB (A) (30-min)		0-min)	Remarks						
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>							
7-Aug-07	11:15	Sunny	74.3	77.5	72.5	This Station (NM8b) which is strongly						
14-Aug-07	11:10	Cloudy	74.1	77.5	116	influenced by road traffic noise from Ching Cheung Road. The measurement at this station						
21-Aug-07	16:10	Fine	72.1	75.5		is for reference purpose, but not for compliance						
27-Aug-07	11:10	Cloudy	76.1	78.0	74.5	check for construction noise.						

Location NM9 - Hoi Lai Estate											
Date	Time	Weather	Unit: dB (A) (30-min)			Remarks					
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>						
7-Aug-07	13:00	Sunny	67.2	69.5	63.5						
14-Aug-07	13:00	Cloudy	68.2	70.5	65.5	_					
21-Aug-07	16:51	Fine	65.4	68.5	62.0	-					
27-Aug-07	13:00	Cloudy	61.2	63.5	58.5						

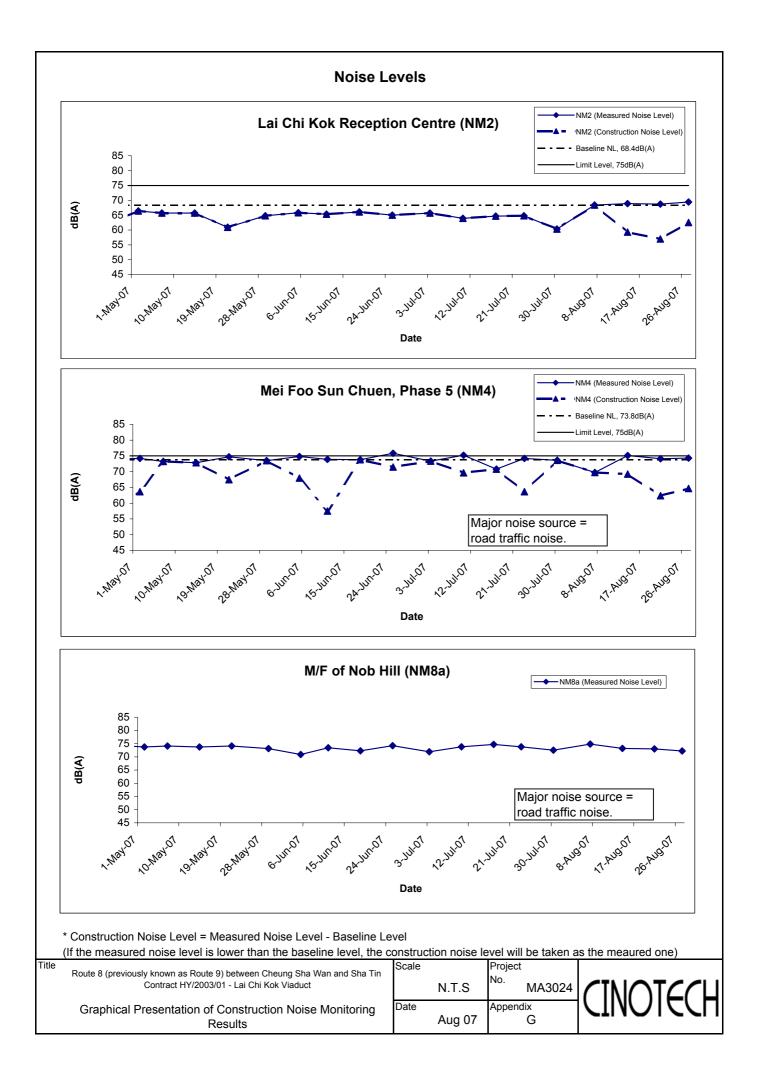
# Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)

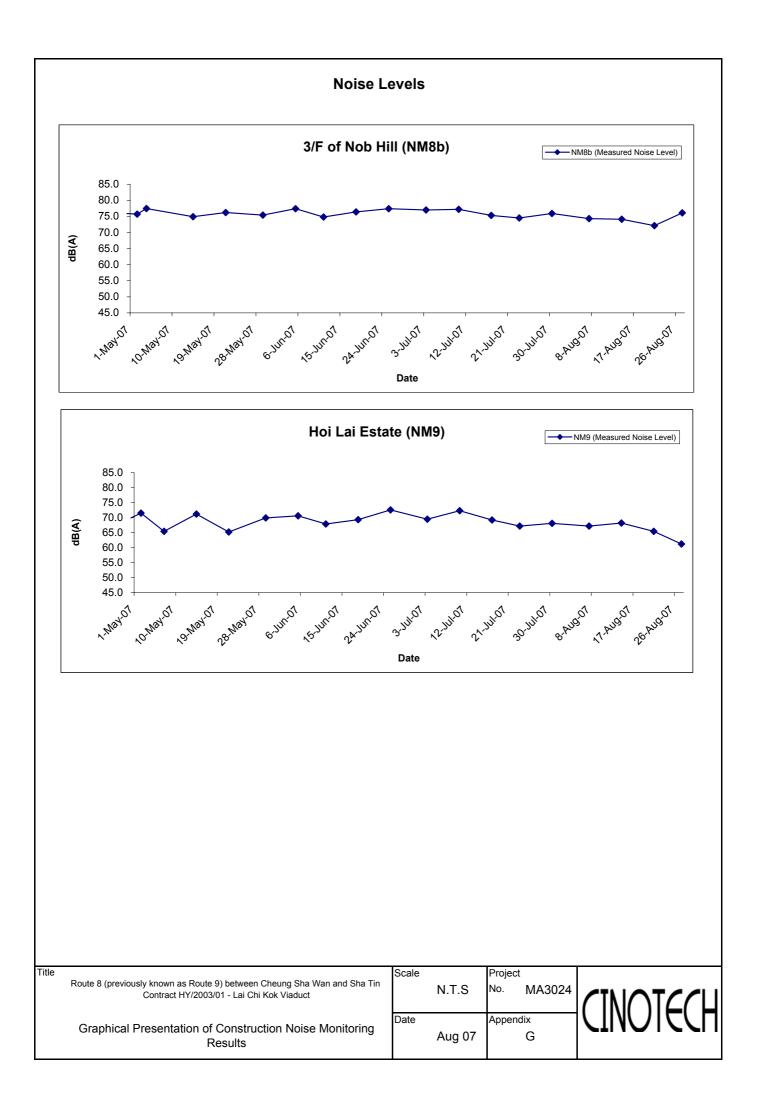
### Appendix G - Noise Monitoring Results

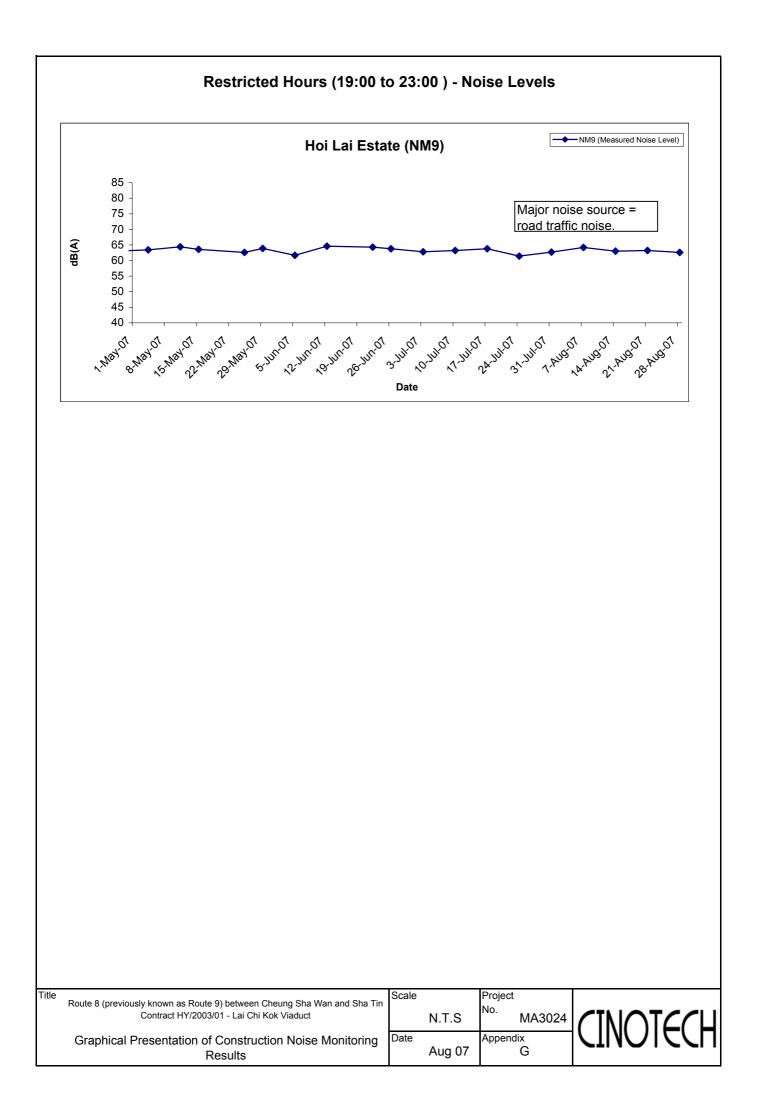
### Restricted Hours - 19:00 to 23:00 on normal weekdays

Location NM9 - Hoi Lai Estate											
Data	Time		dB (A) (5-min)								
Date	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	Average $L_{eq}$					
7-Aug-07	19:00		64.1	69.0	61.5						
	19:05	Cloudy	64.2	69.0	61.5	64.2					
	19:10		64.2	69.0	61.5						
14-Aug-07	19:20		62.8	68.5	59.0						
	19:25	Cloudy	63.3	68.5	59.0	63.0					
	19:30		62.8	68.5	59.0						
21-Aug-07	19:15		63.0	69.0	59.5						
	19:20	Cloudy	63.1	69.0	59.5	63.2					
	19:25		63.5	69.5	59.5						
28-Aug-07	19:00		62.7	68.5	58.0						
	19:05	Cloudy	62.8	68.5	58.0	62.6					
	19:10		62.4	68.5	58.0						

# Construction Noise Level (Leq) = Measured Noise Level (Leq) - Baseline Noise Level (Leq)







APPENDIX H SUMMARY OF EXCEEDANCE

# Summary of Exceedances Recorded in the Reporting Month

# a) Exceedance Report for 1-hr TSP (NIL)

• No Action/Limit Level exceedance was recorded in the reporting month.

# b) Exceedance Report for 24-hr TSP (NIL)

• No Action/Limit Level exceedance was recorded in the reporting month.

# c) Exceedance Report for Construction Noise (NIL)

• No Limit Level exceedance was recorded in the reporting month and 1 Action Level exceedance was triggered due to receiving 1 noise complaint.

APPENDIX I SITE AUDIT SUMMARY

#### Weekly Site Inspection Record Summary

Checklist Reference Number	70802-LCKV	
Date	2 August 2007 (Thursday)	
Time	9:30 - 10:15	

Ref. No.	Non-Compliance	<b>Related Item No.</b>
-	None identified	-

Remarks/Observations	Related Item No
A. Water Quality	
• No environmental deficiency was identified during the site inspection.	
• Worn sandbags were observed around the manhole near Nob Hill at C13-C14.	B13
The Contractor was reminded to replace them.	210
C. Noise	
• No environmental deficiency was identified during the site inspection.	
D. Waste / Chemical Management	
• No environmental deficiency was identified during the site inspection.	
E. Permit / Licenses	
• No environmental deficiency was identified during the site inspection.	
F. Others	
· Follow-up on previous audit (Ref. No.: 70724-LCKV), there was no	
site inspection.	
	<ul> <li>A. Water Quality</li> <li>No environmental deficiency was identified during the site inspection.</li> <li>B. Air Quality</li> <li>Worn sandbags were observed around the manhole near Nob Hill at C13-C14. The Contractor was reminded to replace them.</li> <li>C. Noise <ul> <li>No environmental deficiency was identified during the site inspection.</li> </ul> </li> <li>D. Waste / Chemical Management <ul> <li>No environmental deficiency was identified during the site inspection.</li> </ul> </li> <li>E. Permit / Licenses <ul> <li>No environmental deficiency was identified during the site inspection.</li> </ul> </li> <li>F. Others <ul> <li>Follow-up on previous audit (Ref. No.: 70724-LCKV), there was no environmental deficiency was identified during the site inspection.</li> </ul> </li> </ul>

	Name	Signature	Date
Recorded by	Grace Wong	Groce	2 August 2007
Checked by	Dr. Priscilla Choy	SF-	2 August 2007

# Route 8 - Environmental Team for Lai Chi Kok Viaduct and Eagle's Nest Tunnel Contract No. HY/2003/05 – Traffic Control and Surveillance System

# Weekly Site Inspection Record Summary

Checklist Reference Number	70802-LCKV-TCSS	
Date	2 August 2007 (Thursday)	
Time	10:30 - 10:45	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item N
	<ul> <li><i>A. Water Quality</i></li> <li>No environmental deficiency was identified during the site inspection.</li> </ul>	
	<ul><li>B. Air Quality</li><li>No environmental deficiency was identified during the site inspection.</li></ul>	
	<ul><li><i>C. Noise</i></li><li>No environmental deficiency was identified during the site inspection.</li></ul>	
	<ul> <li>D. Waste / Chemical Management</li> <li>No environmental deficiency was identified during the site inspection.</li> </ul>	
	<ul><li><i>E. Permit / Licenses</i></li><li>No environmental deficiency was identified during the site inspection.</li></ul>	
	<ul> <li>F. Others</li> <li>Follow-up for previous audit session (Ref. No.: 70703-LCKV-TCSS), no environmental deficiency was identified during the site inspection.</li> </ul>	0

		Name	Signature	Date
-	Recorded by	Grace Wong	Croce	2 August 2007
-	Checked by	Dr. Priscilla Choy	With	2 August 2007

#### Weekly Site Inspection Record Summary

### **Inspection Information**

Checklist Reference Number	70808-LCKV	
Date	8 August 2007 (Wed)	
Time	1330 - 1430	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.:70802-LCKV), the worn sandbag	
	near Nob Hill at C13-C14 was removed. The environmental deficiency	
	items B13 was rectified by the Contractor.	

1

	Name	Signature	Date
Recorded by	Jason Lai	NOG	8 August 2007
Checked by	Dr. Priscilla Choy	WT	8 August 2007

# Weekly Site Inspection Record Summary

Checklist Reference Number	70815-LCKV	
Date	15 August 2007 (Wed)	
Time	1330 - 1440	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No
	A. Water Quality	
	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	• No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.:70808-LCKV), there was no environmental deficiency was identified during the site inspection.	
	• Covering of loaded truck leaving the site was checked during the site inspection. No uncovered truck leaving the construction site was	
	observed during the site inspection.	

	Name	Signature	Date
Recorded by	Grace Wong	Grace	15 August 2007
Checked by	Dr. Priscilla Choy	NI	15 August 2007

# Weekly Site Inspection Record Summary

Checklist Reference Number	70822-LCKV	
Date	22 August 2007 (Wednesday)	
Time	13:30 - 14:50	

Ref. N	Non-Compliance	Related Item No.
	None identified	-

Ref	No. Remarks/Observations	Related Item No.
	A. Water Quality	
	No environmental deficiency was identified during the site inspection.	
2	B. Air Quality	
	No environmental deficiency was identified during the site inspection.	
	C. Noise	
	No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	• No environmental deficiency was identified during the site inspection.	
	F. Others	
	<ul> <li>Follow-up on previous audit (Ref. No.:70815-LCKV), there was no environmental deficiency identified during the site inspection.</li> </ul>	o
	· Covering of loaded truck leaving the site was checked during the site	~
9	inspection. No uncovered truck leaving the construction site wa observed during the site inspection.	\$

	Name	Signature	Date
Recorded by	Grace Wong	Grocen	22 August 2007
Checked by	Dr. Priscilla Choy	WFI	22 August 2007

# Weekly Site Inspection Record Summary

Checklist Reference Number	70829-LCKV	
Date	29 August 2007 (Wednesday)	
Time	14:30 - 15:40	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
2	• No environmental deficiency was identified during the site inspection.	
	B. Air Quality	
	• No environmental deficiency was identified during the site inspection.	
	C. Noise	
	No environmental deficiency was identified during the site inspection.	
	D. Waste / Chemical Management	
	• No environmental deficiency was identified during the site inspection.	
	E. Permit / Licenses	
	No environmental deficiency was identified during the site inspection.	
	F. Others	
	• Follow-up on previous audit (Ref. No.: 70822-LCKV), no environmental	
Л	deficiencies were observed during the site inspection.	
	• Covering of loaded truck leaving the site was checked during the site inspection. No truck leaving the construction site was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Grace Wong	Give.	29 August 2007
Checked by	Dr. Priscilla Choy	with	29 August 2007

APPENDIX J EVENT ACTION PLANS

# **Appendix J - Event Action Plans**

# Event/Action Plan for Air Quality

EVENT		ACTIO	Ν			
EVENT	ET	IEC	ER	Contractor		
ACTION LEVEL						
1. Exceedance for one	1. Identify source	1. Check monitoring data submitted by ET	1. Notify Contractor	1. Rectify any unacceptable practice		
sample	2. Inform ER & IEC	2. Check Contractor's working methods	2. Check monitoring data and Contractor's	2. Amend working methods if		
	3. Repeat measurement to confirm finding		working methods	appropriate		
	4. Increase monitoring frequency to daily					
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Submit proposals for remedial		
more consecutive samples	2. Inform ER & IEC	ET	in writing	actions to ER within 3 working days		
	3. Repeat measurement to confirm findings	2. Check Contractor's working methods	2. Notify Contractor	of notification		
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	2. Implement the agreed proposals		
	5. Discuss with ER & for remedial actions	possible remedial measure	4. Discuss with ET, IEC and Contractor on	3. Amend proposal if appropriate		
	required	4. Advise the ER & ET on the effectiveness	proposed remedial actions			
	6. If exceedance continues, arrange	of the proposed remedial measures	5. Ensure remedial actions properly			
	meeting with ER & IEC	5. Supervise the implementation of the	implemented			
	7. If exceedance stops, cease additional	remedial measures				
	monitoring					
LIMIT LEVEL						
1. Exceedance for one	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid		
sample	2. Inform ER & IEC and EPD	ET	in writing	further exceedance		
	3. Repeat measurement to confirm finding	2. Check Contractor's working methods	2. Notify Contractor	2. Submit proposals for remedial		
	4. Increase monitoring frequency to daily	3. Discuss with ET and Contractor on	3. Check Contractor's working methods	actions to ER within 3 working days		
	5. Assess effectiveness of Contractor's	possible remedial measure	4. Discuss with ET, IEC and Contractor on	of notification		

EVENT	ACTION												
EVENI	ET	IEC	ER	Contractor									
	remedial actions and keep EPD and ER &	4. Advise the ER & ET on the effectiveness	proposed remedial actions	3. Implement the agreed proposals									
	IEC informed of the results	of the proposed remedial measures	5. Ensure remedial actions properly	4. Amend proposal if appropriate									
		5. Supervise the implementation of the	implemented										
		remedial measures											
2. Exceedance for two or	1. Identify source	1. Checking monitoring data submitted by	1. Confirm receipt of notification of failure	1. Take immediate action to avoid									
more consecutive samples	2. Inform ER, IEC, Contractor and EPD	ET	in writing	further exceedance									
	the cause & actions taken for the	2. Discuss amongst ER, ET and Contractor	2. Notify Contractor	2. Submit proposals for remedial									
	exceedances	on possible remedial measures	3. Carry out analysis of Contractor's	actions to IEC, ER within 3 working									
	3. Repeat measurement to confirm findings	3. Review Contractor's remedial measures	working procedures to determine possible	days of notification									
	4. Increase monitoring frequency to daily	whenever necessary to ensure their	mitigation to be implemented	3. Implement the agreed proposals									
	5. Investigate the causes of exceedance	effectiveness and advise the ER	4. Discuss amongst ET, IEC and the	4. Resubmit proposals if problem									
	6. Carry out analysis of contractor's	accordingly	Contractor on proposed remedial actions	still not under control									
	working procedures to determine possible	4. Supervise the implementation of the	5. In consultation with IEC, agree with the	5. Stop the relevant portion of works									
	mitigation to be implemented.	remedial measures	contractor remedial measures to be	as determined by the ER until the									
	7. Arrange meeting with EPD, IEC and ER		implemented	exceedance is abated									
	to discuss the remedial actions to be taken		6. Ensure remedial measure are properly										
	8. Assess effectiveness of Contractor's		implemented										
	remedial actions and keep EPD and ER &		7. If exceedance continues, consider what										
	IEC informed of the results		portion of the work is responsible and										
	9. If exceedance stops, cease additional		instruct the Contractor to stop that portion										
	monitoring		of work until the exceedance is abated										

# Event/Action Plan for Construction Noise

Exceedance		ACTIO	N	
Exceedance	ET	.IEC	ER	Contractor
Action Level	1. Discuss with the IEC and ER and seek to	1. Review the analyzed results submitted	1. Confirm receipt of notification of	1. Submit proposals for remedial
	identify potential noise source	by the ET	complaint and notify Contractor	actions to ER within three working
			immediately	days of notification
	2. Undertake noise measurement to	2. Review the proposed remedial measures	2. Check monitoring data trends and	2. Amend proposals if required by
	confirm the validity of complaint	by the Contractor and advise the ER & ET	Contractor's working methods	the Engineer
		accordingly		
	3. Inform ER&IEC in writing	3. Supervise the implementation of	3. Remind the Contractor of his contractual	3. Implement the remedial actions
	Discuss remedial actions required with	remedial measures	obligations and discuss with ET, IEC and	immediately upon instruction
	ER&IEC if an exceedance is recorded		Contractor on proposed remedial actions	
	4. Increase monitoring frequency to		4. Assess the efficacy of remedial actions	4. Liaise with the ER to optimize the
	demonstrate efficacy of remedial measures		and keep the Contractor informed	effectiveness of the agreed
				mitigation
	5. If exceedance continues, meet with		5. Inform complainant of actions taken	5. Amend proposal if appropriate
	ER&IEC to review implementation of			
	appropriate mitigation measures.			
	6. If exceedance stops, cease additional			
	monitoring			

Encoderac	ACTION													
Exceedance	ET	IEC	ER	Contractor										
Limit Level	1. Repeat measurement to confirm findings	1. Check monitoring data submitted by ET	1. Confirm receipt of notification of	1. Take immediate action to avoid										
			exceedance and notify Contractor	further exceedance										
	2. Investigate the cause of the exceedance	2. Review Contractor's remedial actions to	2. Check monitoring data trends and	2. Submit proposals for remedial										
	and identify the main source(s) of impact	assure their effectiveness and advise the	Contractor's working methods	actions to ER immediately not more										
		ER &ET accordingly		than 3 working days of notification										
	3. Inform ER&IEC and EPD in writing	3. Supervise the implementation of the	3. Discuss with ET, IEC and Contractor on	3. Amend proposals if required by										
		remedial measures	proposed remedial actions to be	the ER										
			implemented											
	4. Discuss remedial actions required with		4. Assess the efficacy of remedial actions	4. Implement remedial actions										
	ER&IEC		and keep the Contractor informed	immediately upon instruction										
	5. Increase monitoring frequency to		5. If exceedance continuous, consider what	5. Liaise with the ER to optimize the										
	demonstrate efficacy of remedial measures		portion of the work is responsible and	effectiveness of the agreed										
			instruct the Contractor to stop that portion	mitigation										
			of work until the exceedance is aborted											
	6. Assess efficacy of remedial actions and			6. Resubmit proposals if problem										
	keep ER & IEC informed of the results			still not under control										
	7. If exceedance continues, meet with			7. Stop the relevant portion of works										
	ER&IEC to identify appropriate mitigation			as determined by the ER until the										
	measures			exceedance is aborted										
	8. If exceedance stops, cease additional													
	monitoring													

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix K - Summary of Environmental Mitigation Implementation Schedule
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Types of Impacts	Mitigation Measures	Status	
	• Any stockpile of dusty materials or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet.	^	
	• A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones.	^	
	<ul> <li>Vehicle washing facilities should be provided at every exit point.</li> <li>The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.</li> </ul>	^	
	• Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	^	
Construction Dust	• Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet.		
Dust	• The portion of any road leading only to a construction site that is within 30m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials.	^	
	• Any stockpile of dusty materials should be either covered entirely be impervious sheeting, placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet.	^	
	• All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	^	
	• Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site.	^	
	• The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet.	^	
	• Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works.	^	
	• Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	^	
	• Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS.	^	
Construction	• Mobile plant should be sited as far away from NSRs as possible.	^	
Noise	• Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.	^	
	• Use quite plant and Working Method	^	
	Reduce the number of plant operating in critical areas close NSRs.	^	
	Construct temporary and movable noise barriers	^	

Types of Impacts	Mitigation Measures	Status									
Water Quality											
	<ul> <li>Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow.</li> <li>Boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilities runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates.</li> </ul>	^									
	• All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The temporarily diverted drainage should be reinstated to its original condition when the construction works has finished or the temporary diversion is no longer required	^									
	• Sand silt in the wash water from the wheel washing facilities, which ensure no earth, mud and debris is deposited on roads, should be settled out the removed before discharging into storm drains. A section of the road between the wheel washing bay and the public road should be paved with backfill to prevent wash water or other site runoff form entering public road drains.	^									
	• Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oils and grease into the storm water drainage system after accidental spillage. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	N/A									
	• Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks.	^									
	• Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	^									
	• Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains.	^									
	• All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains via a petrol interceptor.	^									
	Tunnelling Work	<b>T</b>									
	• Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any washout of construction or excavated materials form the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps.	N/A									
	Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to enhance deposition rates and to remove silt.	N/A									
	• Spend grouts used in diaphragm wall construction should be collected in a separate slurry collection system, reconditioned and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM standards before discharge to the storm drains or disposal to landfill.	N/A									

Types of Impacts	Mitigation Measures	Status									
	General Construction Activities										
	<ul> <li>Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts.</li> </ul>										
	• All fuel tanks and storage areas will be provided with locks and be located on sealed areas (within bunds of a capacity equal to 110% of the storage capacity of the largest tank or 20% by volume of the fuel stored in that areas, whichever in the greatest).	^									
	Sewage Effluent										
	<ul> <li>Construction work force sewage discharges form fixed toilet facilities on-site should be connected to the nearby existing trunk sewer wherever feasible. However, for areas where existing trunk sewer is not available, it is recommended that appropriate and adequate on site portable chemical toilets should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities.</li> </ul>	^									
	• It is considered that sewage discharges could also be treated by on-site septic tanks and soakaway. Minimum clearance away form streams and catchments and other requirements for the proposed septic tank and soakaway should be referred to EPD's Practice Note for Professional Persons, Drainage Plans.	N/A									
Waste	General										
	• Training and instruction shall be given at a site to construction staff to increase awareness and draw attention to waste management issues and the need to minimise waste generation. The training requirement shall be included in the site wast management plan.										
	Storage, Collection and Transportation of Waste										
	• Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage.	^									
	• Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits.	^									
	• Waste shall be removed on a daily basis.	^									
	• Waste storage area shall be maintained and cleaned on a daily basis.	^									
	<ul> <li>Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers.</li> </ul>	^									
	• Obtain necessary waste disposal permits from the appropriate authorities if they are required.	^									
	• Wastes shall be disposed of at licensed waste disposal facilities.	^									
	• Develop procedure such as ticketing system to facilitate tracking of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.	^									
	<ul> <li>Maintain records of the quantities of wastes generated, recycled and disposed.</li> </ul>										
	Surplus Excavated Materials										
	• Due to the high risk of loose material being washed into the existing nullah, stockpile materials should be properly compacted and covered from water erosion and located at least 10m away from the nullah wall.	^									
	Construction and Demolition (C&D) Waste										

Types of Impacts	Mitigation Measures	Status
<b>F</b>	Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts.	^
	• The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage.	N/A
	• Construction and demolition (C&D) material shall be segregated to inert and non-inert parts. The inert portion shall re-used at areas of reclamation or land formation, or to public filling area shall such allocation is deemed necessary. The non-inert portion shall be disposed of to landfill.	^
	Chemical Waste	
	• Chemical waste that is produce during construction shall be handled in accordance with the Cod of Practice on the Packaging, Handling and Storage of Chemical Wastes.	^
	<ul> <li>Containers used for the storage of chemical wastes should:         <ul> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>Have a capacity of less than 450 litres unless the specifications have been approved by the EPD;</li> <li>Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations.</li> </ul> </li> </ul>	^
	<ul> <li>The storage area for chemical wastes should: <ul> <li>a. Be clearly labelled and used solely for the storage of chemical waste;</li> <li>b. Be enclosed on at least 3 sides;</li> <li>c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest;</li> <li>d. Have adequate ventilation;</li> <li>e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary);</li> <li>f. Be arranged so that incompatible materials are adequately separated.</li> </ul> </li> </ul>	٨
	• Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a reuser of the waste (under approval from EPD).	^
	General Refuse	
	• General refuse generated on-site shall be stored in enclosed bins or compaction unit separate from C&D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily for every second day basis to minimise odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.	^
	• Reusable rather than disposable dishware shall be used if feasible.	^

Types of Impacts	Mitigation Measures	Status						
	<ul> <li>A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza.</li> <li>Conduct a tree survey before commencement of the construction work.</li> </ul>	N/A						
Ecology	• All measures recommended in the approved landscape proposals under Condition 2.4 in EP above shall be fully implemented in accordance with the details and time schedule set out in the submission.							
Ecology	<ul> <li>Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately.</li> <li>Wild and uncontrolled fire shall be strictly prohibited</li> </ul>	N/A						
	• Fences shall be erected along the boundary of the construction sites at the Toll Plaza before commencement of works, to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent wooded areas.	N/A						
	• Landscape mitigation measure 1 (LMM1) – Construction programming and management. The periphery of the works areas at street level shall be managed so that they do not appear cluttered, untidy and unattractive and inconvenient to pedestrians. For example, all hoarding shall be colorfully designed with interesting motifs demonstrating the work of Highways Department. Hoardings with bland colours shall be avoided.	^						
Landscape and Visual Impact	• Landscape mitigation measure 2 (LMM2) – Advanced planting and erosion control works. Where possible, the transplantation of existing valuable trees, the stockpiling of topsoil, new planting and erosion control works shall be carried out as early as possible in the construction period instead of at the end. This will assist in maximizing the time for carrying out transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting of transplanted trees and the establishment of new screen trees. The stockpiling of topsoil will provide an abundant use of on-site material for growing media. During detailed design, the issue of stockpiling of topsoil in a manner that would avoid washing into the drainage scheme should be examined comprehensively.	^						
	Measurement of vibration would also be carried out on a need basis during the piling work	^						

Remarks:

N/A

Compliance of mitigation measure; Not Applicable;

Non-compliance but rectified by the contractor •

APPENDIX L CONSTRUCTION PROGRAMME

A			<b>F!</b>	<b>F</b>	0/	D									2007								
Activity ID	Activity Description	Orig. Durn.	Early Start	Early Finish	% Compl	Rem Durn	40	AUG	07		SEI		~ /						NOV			40	
	ries & General Requirments	Durn.	Start	1 111311	Sompl		13	20	27	3	10	17	24	1	8	15	22	29	5	12		19	26
Key Dates	ies a General Requiments																						
KD1020	KD-2: Achievement of Stage 2	0		23AUG07	0	0		♦KD <sup>2</sup>	1020		i 	i			i I	i I	i	i		1		1 	
KD1050	KD-5: Completion of Section 3 of the Works	0		15SEP07*	0	0						KD10	950										
KD1060	KD-6: Completion of Section 4 of the Works	0		13SEP07*	0	0	-		İ		<b>♦KD</b> 1	1060	Ì		Ì	İ	İ	İ				Ì	j
KD1070 KD1080	KD-7: Completion of Section 5 of the Works KD-8: Completion of Section 6 of the Works	0		30AUG07* 30AUG07*	0	0	-			◆KD1070 ◆KD1080	1	1	1									1	
KD1110	KD-11: Completion of Section 9 of the Works	0		20AUG07*	0	0		♦KD1110															
KD1120	KD-12: Completion of Section 10 of the Works	0		22AUG07*	0	0		♦KD11	20		i I	i I	i I		i I		i I			i I		i I	
KD1170	KD-17: Completion of Section 15 of the Works	0		15SEP07*	0	0			   		<u> </u> ◆I	KD1	70		 					I		1	
Portion Acc			00.4440.07t				-		İ	i	ĺ	İ	ĺ			İ	İ		i	ĺ		1	
PD1140	Access to Portion F1 (NOT USED)	0	20AUG07*		0	0		PD1140	1		1	1										1	
Portion Vac	Vacate Portion A	0		27SEP07*	0	0	-						   ●VI	D1000									
VD1010	Vacate Portion B	0		27SEP07*	0	0	-		1		1	1		D1010		1				1		1	
VD1020	Vacate Portion C	0		13OCT07*	0	0										♦vD1020							
VD1030	Vacate Portion D1	0		13OCT07*	0	0			i –	i		İ.				<b>φ</b> γD1030	i	İ		ĺ			
VD1040	Vacate Portion D2	0		130CT07*	0	0		_	1		1		 			♦VD1040						1	
VD1050 VD1060	Vacate Portion E1 Vacate Portion E2	0		130CT07* 110CT07*	0	0	-									<b>•Ý</b> D1050 VD1060							
VD1000	Vacate Portion E4	0		110CT07*	0	0	-		ı İ		1					VD1080		i		 		I.	
VD1100	Vacate Portion G1	0		110CT07*	0	0						1				VD1100							
VD1110	Vacate Portion F1	0		19AUG07*	0	0		◆VD1110					D4420										
VD1120 VD1130	Vacate Portion F2 Vacate Portion F3	0		17SEP07* 19SEP07*	0	0	-				1		D1120 ♦VD1130		1			   		1		1	
VD1140	Vacate Portion G2	0		110CT07*	0	0	-						• VD1130			VD1140							
VD1150	Vacate Portion G3	0		110CT07*	0	0			i I		i I	i I	i I		•	VD1150	i I			i I		i I	i i
VD1160	Vacate Portion G4	0		110CT07*	0	0		_	<u> </u>			1				VD1160	1			I		1	1
VD1170 VD1180	Vacate Portion K1 Vacate Portion K2 & K3	0		130CT07* 130CT07*	0	0	-		i –	i	ĺ	i i	ĺ			<ul><li>VD1170</li><li>VD1180</li></ul>	i			ĺ.			
VD1180 VD1190	Vacate Portion K4 & K8	0		130CT07*	0	0	-				1	1				<ul><li>♦ ¥D1180</li><li>♦ ¥D1190</li></ul>							
VD1200	Vacate Portion K5 & K6	0		130CT07*	0	0	-									♦VD1200							
VD1220	Vacate Portion K7, K9, K10	0		13OCT07*	0	0			1			1				<b>♦</b> ¥D1220			1	I		1	 
VD1250 VD1260	Vacate Portion W Vacate Portion R1	0		110CT07* 110CT07*	0	0	-				1	1				VD1250 VD1260						1	
	emporary Works	0		TIOCIU	0	0		-	-		+	-				VD1260						1	
TW1370	Design of Temp Works for Feature 11NW-A/C66	24	20AUG07	15SEP07	0	24	-				T	W13	70										
	& Instrumentation - New Works				-	1			1		1	1	-			1	1					1	
IM3010	Install Instrumentation @ Cut Slope CCR-S1	12	20AUG07	01SEP07	0	12			1	IM3010										1			
IM3015	Monitoring @ Cut Slope CCR-S1	177*	20AUG07	21MAR08	0	177*	-				 	1				r	=			1			1
IM3020 IM3025	Install Instrumentation @ Cut Slope CCR-S2 Monitoring @ Cut Slope CCR-S2	12 177*	20AUG07 20AUG07	01SEP07 21MAR08	0	12 177*	-			IM3020			<u>_</u>										
IM3025	Install Instrumentation @ Cut Slope CCR-S2	12	20AUG07 20AUG07	01SEP07	0	12	-		i	IM3030	i	1			i	ſ	· · · · · · · · · · · · · · · · · · ·		1			1	
IM3035	Monitoring @ Cut Slope CCR-S3	177*	20AUG07	21MAR08	0	177*					-							<u>_</u>					
IM3040	Install Instrumentation @ Cut Slope CCR-S4	12	20AUG07	01SEP07	0	12	-			IM3040			I										
IM3045	Monitoring @ Cut Slope CCR-S4	177*	20AUG07	21MAR08	0	177*	-		1	1142050		i					=					1	
IM3050 IM3055	Install Instrumentation @ Cut Slope CCR-S5 Monitoring @ Cut Slope CCR-S5	12 177*	20AUG07 20AUG07	01SEP07 21MAR08	0	12 177*	-			IM3050			<u> </u>										
IM3060	Install Instrumentation @ Cut Slope CCR-S6	12	20AUG07	01SEP07	0	12				IM3060	1	1						1				1	
IM3065	Monitoring @ Cut Slope CCR-S6	177*	20AUG07	21MAR08	0	177*			1		1	1			1			1		 		1	
IM3080	Install Instrumentation @ Slope 11NW-A/C26	12	20AUG07	01SEP07	0	12	-			IM3080													
IM3085 IM3090	Monitoring @ Slope 11NW-A/C26 Install Instrumentation @ Slope 11NW-A/FR54 & 55	177*	20AUG07 15NOV07	21MAR08 28NOV07	0	177* 12	-				1	1						1		1		1	
IM3090 IM3095	Monitoring @ Slope 11NW-A/FR54 & 55	12	15NOV07 15NOV07	28NOV07 21MAR08	0	12		-	+			1											
IM3100	Install Instrumentation @ Slope11NW-A/C687 & 679	12	05NOV07	17NOV07	0	12			i I I		1   	1			   					   		M3100	
IM3105	Monitoring @ Slope 11NW-A/C687 & 679	114*	05NOV07	21MAR08	0	114*	-															1	
IM3110	Install Instrumentation @ Slip Road A Embankment	12	27AUG07	08SEP07	0	12	-				M3110	1											
IM3115 IM3120	Monitoring @ Slip Road A Embankment Install Instrumentation @ Slip Road B Embankment	171* 12	27AUG07 20AUG07	21MAR08 01SEP07	0	171* 12				IM3120	+	1						1	1			1	
IM3125	Monitoring @ Slip Road B Embankment	177*	20AUG07	21MAR08	0	177*	-				1	-	<u>_</u>					I				1	
IM3130	Install Instrumentation @ Piers P1 to P6	12	20AUG07	01SEP07	0	12	1		1	IM3130		1				1	1	1				1	1
Start Date			23SEP03	P3 File : LU4	7								e	heet 1 o	f9								]
Finish Date			17FEB09		•		Highwa	ivs Denarti	ment	Contract No.	HY/2003/0	)1	3	neet i U			-						ļ
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Activity	Activity	Orig.	Early	Early	%	Rem		AUG				SEP			2007	ОСТ				NO	/	
ID	Description	Durn.	Start			Durn. 1	3		27	3	10	17	24	1	8	15	22	29	5	12	19	26
IM3135 IM3140	Monitoring @ Piers P1 to P6 Install Instrumentation @ Piers P7 to P10	177* 12	20AUG07 20AUG07	21MAR08 01SEP07	0	177* 12		i		IM3140	1	1			i	i		i	i			
IM3145	Monitoring @ Piers P7 to P10	177*	20AUG07	21MAR08	0	177*		-							 	1			1			
IM3150	Install Instrumentation @ Piers P11 to P15	12	20AUG07	01SEP07	0	12				IM3150			Ì		ĺ		ĺ	Í				
IM3155	Monitoring @ Piers P11 to P15	177*	20AUG07	21MAR08	0	177*						1			 		<u>}</u>					
IM3160	Install Instrumentation @ Piers P16 to P18	12	20AUG07	01SEP07	0	12				IM3160												
IM3165	Monitoring @ Piers P16 to P18	177*	20AUG07	21MAR08	0	177*		-		1140470			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				×					
IM3170 IM3175	Install Instrumentation @ Piers P19 to Abut. M Monitoring @ Piers P19 to Abut. M	12 177*	20AUG07 20AUG07	01SEP07 21MAR08	0	12 177*				IM3170							니 노					
IM3180	Install Instrumentation @ Piers on Slip Road A	12	20AUG07	01SEP07	0	12				IM3180							, <u> </u>					
IM3185	Monitoring @ Piers on Slip Road A	177*	20AUG07	21MAR08	0	177*										1						
IM3190	Install Instrumentation @ Piers on Slip Road B	12	20AUG07	01SEP07	0	12				IM3190								Í				
IM3195	Monitoring @ Piers on Slip Road B	177*	20AUG07	21MAR08	0	177*					1	1			1	I		1	I		1	
IM3200	Install Instrumentation @ Piers on Slip Road C	12	20AUG07	01SEP07	0	12		,,		IM3200												
IM3205 IM3210	Monitoring @ Piers on Slip Road C Install Instrumentation @ Piers on Slip Road D	177* 12	20AUG07 20AUG07	21MAR08 01SEP07	0	177* 12				IM3210	1	1			1	1	· ·	1	1			
IM3210	Monitoring @ Piers on Slip Road D	177*	20AUG07 20AUG07	21MAR08	0	177*																
Procurem		1										1										
(											I										I	
SG2000	Signage - Award of Sub-contract (NOT USED)	0	20AUG07		0	0		SG2000									i					
SG2000 SG2010	Signage - Award of Sub-contract (NOT USED) Signage - Shop Drawings (NOT USED)	50	20AUG07 20AUG07	24AUG07	0	5		SG2000	2010		i I I	I I	i I		i I	 	i	i	I		i I I	
SG2010	Signage - Rev & Appro of Shop Dwgs. (NOT USED)	24	25AUG07	24A0G07 21SEP07	0	24						I	SG2020									
SG2030	Signage - Off-Site Fabr'n of Signs (NOT USED)	50	22SEP07	30OCT07	0	30			_						<u> </u>		بر <u>ا</u>	s	<b>32030</b>			
High Mast I	_ighting (NOT USED)																					
HM1000	High Mast Lighting -Foundation Design (NOT USED)	48	20AUG07	16OCT07	0	48				н. <sup>с</sup> .						HM	1000	i	I			i l
HM1010	High Mast Lighting - Appr of Found'n (NOT USED)	24	17OCT07	14NOV07	0	24													I		11010	
HM1100	High Mast Lighting Design & Shop Dwgs (NOT USED)	48	17SEP07	14NOV07	0	48															/1100	
HM1110	High Mast Lighting - Appro of Design (NOT USED)	56	15NOV07	09JAN08	0	56										 			I			
EM4010	Procurement & Delivery of Pumps Valves	40	24 11 11 00 4	22AUG07	00	2		EM4010				Ì	ĺ			ĺ	i	i	İ			
1.	· · · ·	48	31JUL06A	22AUG07	90	3		EIVI401	,	1	1	1	1		1	1	1	1	 	<u> </u>	1	I
	Main Line - Piers PA to P6																					
	Superstructure Finishing Works																		1	1		
MF1040 MF1050	PA to P6 - Deck Drainage PA to P6 - Top Rail to Parapets	60 24	22FEB07A 01AUG07A	20AUG07 13SEP07	98 5	1 22		MF1040				/F1050									ļ	
MF1060	PA to P6 - Flexible Pavement	12	14MAY07A	25AUG07	50	6		M	F1060				1		1		ľ	i l				
MF1070	PA to P6 - Viaduct Road Lighting	18	07MAY07A	25AUG07	50	6		· ·	F1070												I	
MF1080	PA to P6 - Road Marking & Traffic Signage	12	27AUG07	08SEP07	0	12					MF1080	Ì	İ		j –	ĺ	i	i l	İ			
MF1090	P6 - Landscaping - Planting 0n Viaduct	25	20AUG07	17SEP07	0	25					I	MF109	00		l I	1	I I	I I	I I	l	1	
MF1100	P6 - Landscape Establishment Works on Viaduct	301	18SEP07	16SEP08	0	301																
	ers & Encl' (Sec.15 Excision)				1 = -														1		I	
MN1000	Viaduct - 3m Absorptive Barriers N/B Ch.407-670	75	21MAR07A	15SEP07	70	24		MANIZO	00	I	i	MN1000									ļ	
MN7000	Viaduct - 3m Ref. Barriers N/B Ch.S1280-L938	75	22MAR07A	23AUG07	85	4		MN70	00	1	1	1	<u> </u>					I	<u> </u>	<u> </u>		<u> </u>
MN8010	Noise Barriers & Enclosures Viaduct - 3m Ref. Barrier S/B Ch.S1318-L826	50	10JUL07A	01SEP07	70	12				MN8010												
MN8040	Viaduct - 5m Reflective Barrier N/B Ch.407 - 642	75	12JUN07A	15SEP07	70	24						MN8040					İ					
MN8050	Viaduct - 5m Reflective Barrier S/B Ch.391 - 560	46	26JUN07A	08SEP07	70	18					MN8050		I I		1	1		i I	l		I I	1
MN8090	Viaduct - 5m Reflective Barrier S/B Ch.560 - 712	45	26JUN07A	15SEP07	70	24						MN8090							<u> </u>			
Viaduct -	Slip Road A																					
	Superstructure Finishing Works																					
AF1050	Slip Rd. A - Top Rail to Parapets (on LCK-R1)	12	20AUG07	01SEP07	0	12				AF1050	1	1	i I		i I		Ì					I I
AF1060	Slip Rd. A - Flexible Pavement	4	19MAY07A	21AUG07	60	2		AF1060											l I			
AF1070	Slip Rd. A - Viaduct Road Lighting (by Others)	12	20AUG07	01SEP07	0	12				AF1070	_						ļ					
AF1080	Slip Rd. A - Road Marking & Traffic Signage	12	27AUG07	08SEP07	0	12					AF1080	 			 				   			
	ers & Encl' (Sec.15 Excision)							L i					Ì					i				
AN1000	Slip Rd. A - Full Enclosure Ch.1070 - Pier A2	48	26JUL06A	21AUG07	98	2		AN1000					1				1	!	1			1
AN1010	Slip Rd. A - Full Enclosure Pier A2 - 1280	48	30SEP06A	21AUG07	98	2		AN1010														
1	Slip Road B																i					I I
	Superstructure Finishing Works			04275 C																		
BF1060	Slip Rd. B - Top Rail to Parapets (on LCK-R2)	12	20AUG07	01SEP07	0	12				BF1060	1	1			1	1	!	!	1			
Start Date			23SEP03	P3 File : LU4	17									Sheet 2 of	9							
Finish Date Data Date			17FEB09 20AUG07			ŀ	Highwa	ys Departm	nent Co	ontract No.	HY/200	3/01					1		-			
Run Date			27AUG07 08:56			-	0	Route 8 -	Lai Ch	i Kok Viad	uct					1	1 -		ci/	n-		
										g Programn	ne						10			ona		
								from	21 Aug	gust 2007								h	nfraes	tructura	S	
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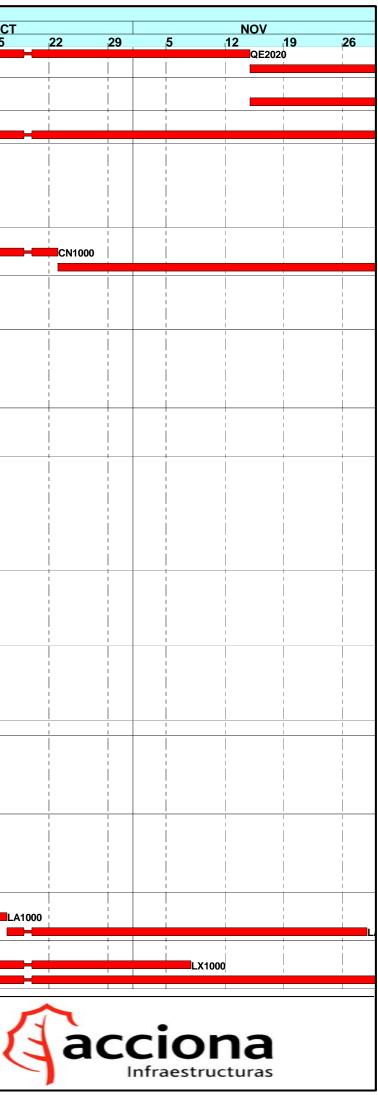
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Optimum Value from From From From Value         1         Optimum Value         1         <	Temporary	Traffic Management Schemes							i i					l		i	i			İ	i i		
VITADO       Observation	WT3650	8th. TTMS Lai Po Rd (forS/B C/W) -Implementation	198*	08MAR07A	01NOV07	0	61*												w	/T3650			
Like Produce (15) Reduce (15)	WT6010	· ·	1	17SEP07		0	1		i i		Ì		WT6010			i	i	ĺ		i		i i	Î.
MILENE CARGE (1) Second 2018 and 2019 a	WT6000	Open New Lai Po Road North Bound	1	01NOV07	01NOV07	0	1		i i		i		i	1		i	i		W	/T6000	-		
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Didle       Line Velo Us       Display US       Display US	Lai Po Roa	d (D3) Roadworks - Stage 4							i i					Ì		Í	Í	ĺ		ĺ			ĺ
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With UP 1984 (0):1349-1402.00       UP 1997.00       VIII UP 1984 (0):1349-1402.00       VIII UP 1	WR2145	Lai Po Rd S/B Ch.1+000 - 1+360 -Street Lighting	12	20AUG07	01SEP07	0	12			\	NR2145					ĺ	Í	ĺ		i			
WA-1100       WH NUM PD 1-4441-1-425- Raining       0       VEX.100	WR2150	Lai Po Rd S/B Ch.1+000 - 1+360 -Marking & Signs	6	10SEP07	15SEP07	0	6	]			l I		NR2150	1		i I	i			l l	l I	i I	Ì
Witter       Unit Price No. 10. Set 1420 - 10000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1	WE1010	Lai Po Rd N/B Ch.0+946 - 1+250 - Fill Embankment	36	07MAY07A	25AUG07	70	6		WE	1010						ĺ	i	İ			Ì	İ	Ì
With 30       Profits BC 1-equi-1-table - Science       10       4.8.2.02       2005 PV       30       2         With 30       Profits BC 1-equi-1-table - Science       10       4.8.2.02       2007 PV       30       2         With 30       Profits BC 1-equi-1-table - Science       10       4.8.2.02       2007 PV       30       2 <th2< th="">       2       2</th2<>	WA1100	Lai Po Rd N/B Ch.0+946 - 1+250 - Drainage	30	22MAY07A	08SEP07	30	18					WA1100	1	1				I					 
Witted:         Lin / R No DJahr <thlin djahr<="" no="" r="" th="">         Lin / R No DJahr&lt;</thlin>	WR1000	Lai Po Rd N/B Ch.0+946 - 1+250 - Formation	24			-	12				_	<b>\</b>	NR1000				ĺ	i					1
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WH116       Life Point No Dick-44: -1-800 - Steek Lighting       19       0.000077       0       10         High Add Lighting (NOT USED)       Life On Dick-44: -1-800 - Monto USED)	WR1040	Lai Po Rd N/B Ch.0+946 - 1+250 - Road Pavement	9			25	6								WR104	0							
Weiten       Lar Pe NM (C). Dudge: Lusting. Manage signer       19       7000000000000000000000000000000000000	WR1050		12			0								I I		1				1			I
High Meet Lighting (NoT USED)         Hi								_	1									WR1155					
Vision         Invi Liping Isb. Mad. Houding, Vision         A. Buildon's Vision         A. Buildon's Vision           Vision         Invi Liping Isb. Mad. Houding, Vising Isb. Mad. Houding, Vision <td>WR1160</td> <td>Lai Po Rd N/B Ch.0+946 - 1+360 - Marking &amp; Signs</td> <td>12</td> <td>17OCT07</td> <td>31OCT07</td> <td>0</td> <td>12</td> <td></td> <td><u> </u>  </td> <td></td> <td> </td> <td> </td> <td> </td> <td>1</td> <td></td> <td> I 📕</td> <td></td> <td>1</td> <td>WR</td> <td>1160</td> <td> </td> <td></td> <td>I</td>	WR1160	Lai Po Rd N/B Ch.0+946 - 1+360 - Marking & Signs	12	17OCT07	31OCT07	0	12		<u> </u>					1		I 📕		1	WR	1160			I
Wittigting (Ib. Musc): Educe Muscing (Vol USED)       12       1       2 <th2< th=""> <th2< th="">       2       <th2< th=""> <th< td=""><td>High Mast</td><td>Lighting (NOT USED)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>i i</td><td></td><td></td><td>Ì</td><td></td><td></td><td></td><td>ĺ</td><td>Í</td><td></td><td></td><td></td><td>1</td><td></td><td>1</td></th<></th2<></th2<></th2<>	High Mast	Lighting (NOT USED)							i i			Ì				ĺ	Í				1		1
La Po Read File Hydraet Hump House ULINO La Bo Rei File Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hump House ULINO La Booke Hydraet Hydraet Hump House ULINO La Booke Hydraet Hydraet Hydraet Hump House ULINO La Booke Hydraet Hydrae	WR3000	H/M Lighting (3 No. Mast) - Found's (NOT USED)	24	20AUG07	15SEP07	0	24					)	NR3000	I I				1		1			I
WH100         Lui Po Ra, FMP (Photae-Mase-Policy POT USED)         12         AuduOT         12           WH103         Lui Po Ra, FMP (Photae-Mase-Policy Polic	WR3010	H/MLighting (3 No. Mast) -Erect Masts (NOT USED)	12	17SEP07	02OCT07	0	12																
WH100         La Po Ra, FA Pump House- Pusified Finander         24         00.047007         1040.027         65         0         WH100         La Po Ra, FA Pump House- Notanned/ Wh105         24         20.01.027         55         1         WH100         La Po Ra, FA Pump House- Notanned/ Wh105         24         20.01.027         55         1         WH100         La Po Ra, FA Pump House- Notanned/ Wh105         24         20.01.027         55         1         WH100         La Po Ra, FA Pump House- Notanned/ Wh105         24         20.01.027         55         1         WH106         La Po Ra, FA Pump House- Notanned/ Wh115         24         20.01.027         55         1         WH106         WH106         WH106         WH107         Ladacage- Seart/Wals FW14         44         158.PO7         0         44         158.PO7         0         44         158.PO7         0         44         158.PO7         0         44         158.PO7         0         14         158.PO7         14         158.PO7         0         14         158.PO7         14         158.PO7         14         158.PO7         14         14         158.PO7         14         14         158.PO7         14         14         148.PO7         14         14         14         148.PO7         14	Lai Po Roa	d Fire Hydrant Pump House									i I	i I	i I			i I	i	1		I	i i		l I
WH104       La Pe R4 R / Pump House. Mednemap House. Mednemap Winks       24       20LU0274       21AL0370       95       1         WH105       La Pe R4 R / Pump House. Mednemap House. Mednemap Winks       24       13AV/77       20AL0370       95       1         WH1200       Pine Keiner Laire R Page - Valves & Connectors       24       20AU007       95       1       WH1900         WH1200       Pine Keiner Laire R Page - Valves & Connectors       24       20AU007       254       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1900       WH1910       WH1900	WH1020	Lai Po Rd. F/H P/House -Waterproofing (NOT USED)	12	20AUG07	01SEP07	0	12		<u> </u>	\	WH1020												
WH1000       Lup Po Rd. FM pump House - F& Installation       24       MULU07       2004 (000)       0       1         Lundscaping - Duart Wales R. 2007-000       24       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)       0       41       2004 (000)	WH1030	Lai Po Rd. F/H Pump House - Building Finishes	24	06APR07A	18AUG07	85	0	V	H1030		l I	1	l I	1				1		1	1		1
Windowski Berling       24       20/LU/D       195EP07       0       24         Landscape Vork S       Windowski Britis       Windowski Britis       Ministratis </td <td>WH1040</td> <td>Lai Po Rd. F/H Pump House - Mechanical Works</td> <td>24</td> <td>20JUL07A</td> <td>21AUG07</td> <td>95</td> <td>2</td> <td></td> <td>WH1040</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	WH1040	Lai Po Rd. F/H Pump House - Mechanical Works	24	20JUL07A	21AUG07	95	2		WH1040														
Landscape Works	WH1060	Lai Po Rd. F/H Pump House - FS Installation	24	15MAY07A	20AUG07	95	1		WH1060		1	1	1	1				1		I I	1		l I
WA1010       Landscapeng-Duend Walls FWA 5, FW1 3, FW1 3, FW1 3, FW1 3, FW1 3, FW1 3, FW1 3, FW1 4, FW	WH2020	Fire Main at Lai Po Road - Valves & Connections	24	20JUL07A	15SEP07	0	24						NH2020										
WX1011       Landscapeng-Downf Walls FW4 & FW6       41       119EP07       310CT07       0       41         WX1012       Landscapeng-Downf Walls FW1 & FW1	Landscape	Works									1	1	1	1		1	1	1		I I			l l
WX1012       Landscaper, Deart Wells FW18 FW1 4       34       250007       0 000007       0       94         WX1013       Landscaper, Deart Wells FW18 FW18 FW18 FW18 FW18 FW18 FW18 FW18	WX1010	Landscaping - Dwarf Walls FW8, FW10 & FW13	54	20AUG07	24OCT07	0	54		ļ									WX1010					
WX1013       Londscepting - Event Walls FW16, FW10 &	WX1011	Landscaping - Dwarf Walls FW4 & FW6	41	11SEP07	31OCT07	0	41				l I					· · ·			wx	101	l I	I I	
WX1017       Lundscaping - Briving       Second - Value       Value	WX1012	Landscaping - Dwarf Walls FW12 & FW14	34	25OCT07	03DEC07	0	34															1	
WX1000       Landscapping - Earthworks & Formation       140       20.40/07       07EB08       0       120         WX1018       Landscapping - Paving       120       27SEP07       21FE008       0       120         VX1010       Landscapping - Paving       120       27SEP07       21FE008       0       120         Remaining Superstructure Finishing Works       Highworks       Highworks       Highworks       Highworks         W12000       P1 to P10 - Okod Makning & Taffic Signage       18       01AUGO7       095       2         W12000       P1 to P10 - Road Makning & Taffic Signage       12       24AUGO7       065 EP07       0       12         W12000       P1 to P10 - Road Makning & Taffic Signage       12       24AUGO7       065 EP07       0       12         W12000       P1 to P10 - Road Makning & Taffic Signage       12       24AUGO7       065 EP07       0       12         W12000       P1 to P10 - Road Makning & Taffic Signage       12       24AUGO7       065 EP07       0       12         W12000       P1 to P10 - Road Makning & Taffic Signage       12       24AUGO7       052 EP07       25       0       30       14       14       14       14       14       14       14       <	WX1013					0							1		1	I I	1	1				1	
WX1018       Landescaping - Pewing       120       275EP07       21FEB08       0       120         Viaduct - Main Line - Piers P7 to P10       Kemaning Superstructure Finishing Works       Kemaning Superstructure Finishing Works       Kemaning Superstructure Finishing Works       Kemaning Superstructure Finishing Works         Mf2040       P7 to P10 - Deck Drainage       48       10M/V067       21 AUG07       05 E 2       MF2040       MF2050<	WX1017		36			0															i I	i I	
Viaduct - Main Line - Piers P7 to P10         Remaining Superstructure Finishing Works         MF2040       P7 to P10 - Drainage       48       10MAY06A       21AUG07       65 2       0       1         MF2050       P7 to P10 - Top Rait to Parapets       18       01AUG07A       05SEP07       20       15       MF2060       MF2060       MF2080       P7 to P10 - Top Rait to Parapets       18       01AUG07A       05SEP07       0       12       MF2060       MF2080       P7 to P10 - Landscaping - Planing 0n Viaduct       25       27AUG07       04 2       25         MF2091       P7 to P10 - Landscaping - Planing 0n Viaduct       25       27AUG07       24SEP07       0       25         MF2091       P7 to P10 - Landscaping - Planing 0n Viaduct       201       25       27AUG07       24SEP07       0       25         MF2091       P7 to P10 - Landscaping - Planing 0n Viaduct       201       25       27AUG07       24SEP07       0       25         MF2090       Viaduct - Semi Enclosure N8 Ch.980 to 1181       60       28DEC06A       0       3       0       MN8000       MN8000       0       12       20AUG07       0       12       MN8000       0       14       12       20AUG07       0       12       0 <td>WX1000</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>_</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	WX1000					-		_	-														
Remaining Superstructure Finishing Works         ME2040         P7 to P10 - Deck Drainage         48         10MaY06A         214.000         ME2040         ME2	WX1018	Landscaping - Paving	120	27SEP07	21FEB08	0	120									I		1					
Remaining Superstructure Finishing Works         ME2040         P7 to P10 - Deck Drainage         48         10MaY06A         214.000         ME2040         ME2	Viaduct -	Main Line - Piers P7 to P10											1		1	I I	1	1		I I	l (	l I	1
MP2040       P7 to P10 - Deck Drainage       48       10M4V06A       21AU007       95       2       MP2040       P7 to P10 - Top Rail to Parapelis       18       01AU007       95       2       MP2040       P7 to P10 - Top Rail to Parapelis       18       01AU007       20       15         MP2060       P7 to P10 - Top Rail to Parapelis       18       01AU007       20       15       MP2060       MP20																							
MP2000       P7 to P10 - Top Rail to Parapets       18       014.0007A       0055 P7       20       15       Image: Control of			48	10MAY064	21AUG07	95	2		MF2040				1			I I	1	 		1	l I		
MP2060       P7 to P10 - Flexible Pavement       9       30MAY07A       23AU007       60       4       MP2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2080       MF2090       MF2090       MF2090       MF2090       MF2090       MF2080       M											MF204	50	ļ										
MF2080       P7 to P10 - Road Marking & Traffic Signage       12       24AUG07       06SEP07       0       12         MF2090       P7 to P10 - Landscaping - Planting On Viaduct       25       27AUG07       24SEP07       0       25         MF2090       P7 to P10 - Landscape Istabilish Works on Viaduct       301       25       301       MF2090         Remaining Noise Barriers & Enclosures       Use Constraints on Viaduct       25       28DEC06A       08SEP07       80       18         MN8000       Viaduct - 5mn Enclosure N/B Ch.938 · 930       25       0 6JUN07A       22AUG07       80       18         MN8000       Viaduct - 5mn Enclosure N/B Ch.938 · 930       25       0 6JUN07A       22AUG07       80       3         At Grade Works - Lai Chi Kok Interchange       Temporary Traffic Management Schemes       MI1400       MI1400       MI1400       MI1400       MI1400       Sheet 3 of 9       20AUG07       27AUG07 0.55P       27AUG07 0.55P       23EP07       0       12       Mint August 2007       Sheet 3 of 9       20EP07       20EP07       0       12       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400       MI1400	MF2060								MF206	0		- r 				1		1			l I		
MF2090       P7 to P10 - Landscaping - Planting ûn Viaduct       25       27AUG07       24SEP07       0       25         MF2091       P7 to P10 - Landscaping - Planting ûn Viaduct       301       25SEP07       0       301         Remaining Noise Barriers & Enclosures	MF2080							1		-	MF2	080											
MF2091 P7 to P10 - Landscape Establish Works on Viaduct 301 25SEP07 23SEP08 0 301 Remaining Noise Barriers & Enclosures Remaining Noise Barriers & Enclosures WN8000 Viaduct - Semi Enclosure N/B Ch.980 to 1181 60 28DEC06A 08SEP07 80 18 MN8000 Viaduct - Semi Enclosure N/B Ch.938 - 980 25 06UN07A 22AUG07 80 3 At Grade Works - Lai Chi Kok Interchange Temporary Traffic Management Schemes MT1400 3rd TTMS Butterfly Valley Rd -Prepare for Review 12 20AUG07 01SEP07 0 12 At Grade Works - Lai Chi Kok Interchange Temporary Traffic Management Schemes MT1400 3rd TTMS Butterfly Valley Rd -Prepare for Review 12 20AUG07 01SEP07 0 12	MF2090							-				-1		MF2090		I I	1	1			l I	l l	
Remaining Noise Barriers & Enclosures         MN8000       Viaduct - Semi Enclosure N/B Ch.980 to 1181       60       28DEC06A       08SEP07       80       18         MN8000       Viaduct - Sm Reflective Barrier N/B Ch.938 - 980       25       06JUN07A       22AUG07       80       3         At Grade Works - Lai Chi Kok Interchange       Interchange	MF2091							1	l F														
MN8000       Viaduct - Semi Enclosure N/B Ch.980 to 1181       60       28DEC06A       08SEP07       80       18         MN8000       Viaduct - Sm Reflective Barrier N/B Ch.938 - 980       25       06JUN07A       22AUG07       80       3         At Grade Works - Lai Chi Kok Interchange						1 -						1	1		1	1	1	1		1	1	1	
MN8060 Viaduct - 5m Reflective Barrier N/B Ch.938 - 980 25 06JUN07A 22AUG07 80 3 At Grade Works - Lai Chi Kok Interchange Temporary Traffic Management Schemes MT1400 3rd TTMS Butterfly Valley Rd - Prepare for Review 12 20AUG07 01SEP07 0 12 art Date min Date an Date Data Data Data Data Data Data Data Data			60		08SEP07	80	18					MN8000											
At Grade Works - Lai Chi Kok Interchange       Temporary Traffic Management Schemes         Temporary Traffic Management Schemes       MT1400         MT1400       3rd TTMS Butterfly Valley Rd -Prepare for Review       12       20AUG07       0       12         art Date       and Date       23SEP03       17FEB09       20AUG07       20AUG07       20AUG07       20AUG07       20AUG07       12         Date       20AUG07 08:56       P3 File : LU47       Highways Department Contract No. HY/2003/01       Sheet 3 of 9       Sheet 3 of 9       20AUG07         Date       20AUG07 08:56       P3 File : LU47       Highways Department Contract No. HY/2003/01       Sheet 3 of 9       Conciciona         MT1400       20AUG07 08:56       P3 File : LU47       File Note 8 - Lai Chi Kok Viaduct       Sheet 3 of 9       Conciciona         MT1400       20AUG07 08:56       P3 File : LU47       File Note 8 - Lai Chi Kok Viaduct       Sheet 3 of 9       Conciciona         MT1400       20AUG07       27AUG07 08:56       MT1400       Conciciona       Infraeedoc									MNROED							I I	1	1			l l		
Temporary Traffic Management Schemes       Mit 1400       3rd TTMS Butterfly Valley Rd -Prepare for Review       12       20AUG07       0       12         MT1400       3rd TTMS Butterfly Valley Rd -Prepare for Review       12       20AUG07       0       12         art Date hish Date ata Date in Date       23SEP03 17FEB09 20AUG07 27AUG07 08:56       P3 File : LU47       Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 21 August 2007       Sheet 3 of 9		·		00001077								+	+										
MT1400 3rd TTMS Butterfly Valley Rd - Prepare for Review 12 20AUG07 01SEP07 0 12 art Date hish Date ata Date an Date Date an Date MT1400																1	1	1					1
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hish Date tata Date un Date 17FEB09 20AUG07 27AUG07 08:56 11ghways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 21 August 2007 10 Programme	MT1400	3rd TTMS Butterfly Valley Rd -Prepare for Review	12	20AUG07	01SEP07	0	12			r	MT1400	 	 	 		 	1	 		1	 		 
hish Date tata Date un Date 17FEB09 20AUG07 27AUG07 08:56 11ghways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 21 August 2007 10 Programme																							
Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 21 August 2007	Start Date Finish Date				P3 File : LU4	17								Sh	eet 3 of 9		~						
from 21 August 2007	Data Date			20AUG07									01				1			•			
from 21 August 2007	Run Date			27AUG07 08:56													1	21		10	n		
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Activity	Activity	Orig.	Early	Early		Rem	AL				EP		2001	ОСТ					NOV		
ID MT1410	Description	Durn.	Start 03SEP07		Compl.		13 20	27	3	10	17	24	1 8	15	22	29	5	1		19	26
MT1410 MT1420	3rd. TTMS Butterfly Valley Rd - CRE Endorsement           3rd. TTMS Butterfly Valley Rd - Roadworks Advice	6	03SEP07 10SEP07	08SEP07 15SEP07	0	6 6	-	1		MT1410	MT1420			1	1	1		1			
MT1420	3rd. TTMS Butterfly Valley Rd - Prepare	9	17SEP07	27SEP07	0	9							430					1			
MT1400	3rd. TTMS Butterfly Valley Rd - Implementation	105*	03JUN07A	080CT07	0	41*							-50 MT1440					ĺ			
MT2140	TTMS for Pier P8/L - Implementation	1,068*	23FEB04A	07SEP07	29	17*			M	T2140						1		I			
MT3100	2nd. TTMS Kom Tsun Street - Prepare for Review	12	20AUG07	01SEP07	0	12			MT3100		Í			İ	ĺ	İ		Ì			
MT3110	2nd. TTMS Kom Tsun Street - CRE Endorsement	6	03SEP07	08SEP07	0	6		i I		MT3110	i I	i I		i i	1	i		i i			i i
MT3120	2nd. TTMS Kom Tsun Street - Roadworks Advice	6	10SEP07	15SEP07	0	6	1				MT3120										
MT3130	2nd. TTMS Kom Tsun Street - Site Preparation	6	17SEP07	22SEP07	0	6		1		 		MT3130		1	1						1
MT3140	2nd. TTMS Kom Tsun Street - Implementation	63*	24SEP07	08DEC07	0	63*								÷ – – –							1
MT3200	3rd. TTMS Kom Tsun Street - Prepare for Review	12	20AUG07	01SEP07	0	12			MT3200							1		1			
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	03SEP07	08SEP07	0	6	-			MT3210											
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	10SEP07	15SEP07	0	6					MT3220										
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	17SEP07	22OCT07	0	28								· ·	MT323	0					
Utilities & F		47	00411007	0705007		47		i			i I			i I	i I	i		i i			
SR2000 SR5040	Castle Peak Road - Roadworks Reinstatement Butterfly V. Rd (LCKI) Stage 1 - Street Lighting	17	20AUG07 20AUG07	07SEP07 23AUG07	0	17 4		SR5040		R2000		l		1							
SR5040 SR5060	Butterfly V. Rd (LCKI) Stage 1 - Street Lighting	4	20AUG07 20AUG07	23AUG07 23AUG07	0	4		SR5040							1	1					
SR5200	Butterfly V. Rd (LCKI) Stage2-Excav. & Formation	18	08JUN07A	23AUG07	80	4		SR5200						1							
SR5210	Butterfly V. Rd (LCKI) Stage 2 - Sub-base	18	03JUL07A	27AUG07	5	6			5210												
SR5220	Butterfly V. Rd (LCKI) Stage 2 - Kerbs	18	07JUL07A	30AUG07	20	6			SR5220	<u> </u>	<u> </u>			   		I		I			
SR5230	Butterfly V. Rd (LCKI) Stage 2 - Pavement	8	10JUL07A	03SEP07	20	6		<u> </u>	SR5230							ĺ					
SR5240	Butterfly V. Rd (LCKI) Stage 2 - Street Lighting	4	04SEP07	07SEP07	0	4	]		S	R5240				 	 						
SR5250	Butterfly V. Rd (LCKI) Stage 2 - Road Marking	4	04SEP07	07SEP07	0	4		İ		R5250				1		İ		ļ			
SR5300	Butterfly V. Rd (LCKI) Stage4-Excav. & Formation	18	20AUG07	08SEP07	0	18		· 		SR5300	 					1					1
SR5310	Butterfly V. Rd (LCKI) Stage 4 - Sub-base	18	28AUG07	17SEP07	0	18					SR5310	1									
SR5320	Butterfly V. Rd (LCKI) Stage 4 - Kerbs	18	04SEP07	24SEP07	0	18		1		1	1	SR5320		1	I I	1		1			1
SR5330	Butterfly V. Rd (LCKI) Stage 4 - Pavement	6	25SEP07	03OCT07	0	6	-						SR5330								
SR5340 SR5350	Butterfly V. Rd (LCKI) Stage 4 - Street Lighting Butterfly V. Rd (LCKI) Stage 4 - Road Marking	4	04OCT07 04OCT07	08OCT07 08OCT07	0	4 4							SR5340								
SR3200	Kom Tsun Street Bus Stn Excavate & Formation	4	20AUG07	08SEP07	0	18				SR3200			5K5550								
SR3210	Kom Tsun Street bus Stn Sub-base	18	27AUG07	15SEP07	0	18				1	SR3210			i		i		1			
SR3220	Kom Tsun Street Bus Stn Kerbs	24	03SEP07	02OCT07	0	24							SR3220								
SR3230	Kom Tsun Street Bus Stn Concrete Pavement	75	10SEP07	08DEC07	0	75		1						÷							
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	24SEP07	09OCT07	0	12							SR3000			1					I.
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	10OCT07	24OCT07	0	12								÷ i i i i i i i i i i i i i i i i i i i	SR	3010					
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	25OCT07	14NOV07	0	18													SR302	)	
SR3030	Kom Tsun Street L/H C/Way - Pavement	8	15NOV07	23NOV07	0	8				_	_			-	_					S	R3030
Landscape			1	1				i			i i				i	i	i i	i i			
SX1010	Landscaping - Paving	50	17NOV07	16JAN08	0	50															
Viaduct - I	Main Line - Piers P11 to P15							l I			1	l l		1	1	1		1			l I
Remaining	Superstructure Finishing Works																				
MF3050	P11 to P16 - Top Rail to Parapets	18	03AUG07A	05SEP07	20	15			MF30	50				1		1					
MF3060	P11 to P16 - Flexible Pavement	9	23MAY07A	23AUG07	60	4		MF3060													
MF3070	P11 to P16 - Viaduct Road Lighting	18	10MAY07A	25AUG07	50	6		MF307	0					1							
MF3080	P11 to P16 - Road Marking & Traffic Signage	18	24AUG07	13SEP07	0	18				MF	3080	 									
MF3090	P11 to P16 - Landscaping - Planting On Viaduct	25	03SEP07	03OCT07	0	25	<b> </b>	 					MF3090	 	 	i					1
MF3100	P11 to P16 - Landscape Establish W'ks on Viaduct	301	04OCT07	02OCT08	0	301	<b> </b>			1				1	i	i	i				i
	Noise Barriers & Enclosures		07.11.11.10= -	014110		~				l 	1			1	1	1		1			
MN8070	Viaduct - 5m Reflective Barrier N/B Ch.1181-1302	75	07JUN07A	21AUG07	90	2		MN8070				 									_
At Grade	Works - Wai Man Tsuen																				
Temporary	Traffic Management Schemes													1							
VT2050	B.V. Rd - Divert Traffic to Slow & Middle Lanes	1	08SEP07	08SEP07	0	1				VT2050											
Realigned (	Channel at Wai Man Tsuen													1	   	1		1			
VC3000	Channel - Modifications to Channel Floor -VO 299	12	30NOV05A	23AUG07	95	4		VC3000													
Earthworks	& Slope Works													1		1		1			
VE1060	Slope CCR-S5 - Slope Drainage & Finishes	24	20AUG07	15SEP07	0	24	] 📃				VE1060										
VE1070	Slope CCR-S5 - Landscaping & Hydroseeding	12	10SEP07	22SEP07	0	12		 				VE1070		1				 			1
Earthworks	& Slope Works - 11NW-A/C678 & CR679																				
VE2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	17SEP07	19SEP07	0	3				 	VE20	025				1					
Start Date			2205000	D2 F21- ···				· <u>····</u>								-	<u> </u>				
Start Date Finish Date			17FEB09	P3 File : LU	4/			on o - f	Contract N		104	Sh	eet 4 of 9	-							
Data Date			20AUG07						t Contract No. Chi Kok Viad		/01			1	1	_	•				
Run Date			27AUG07 08:56						ling Program					1	<b>1</b> 7	C	CI	n	เล		
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Activity	Activity	Orig.	Early	Early	%	Rem		AU 0		-D		2007		
ID ID	Description	Durn.	Start	-	Compl		13	AUG 20	27 <u>3</u> 10	<u>-P</u> _17	24	.1	OC 8 15	
VE2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	20SEP07	27SEP07	0	6						)27		
VE2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	28SEP07	20OCT07	0	18								
VE2000	Slope 11NW-A/C678 & CR679 - Remove Temp Platform	6	22OCT07	27OCT07	0	6								
VE2020	Slope 11NW-A/C678 & CR679 - Trim Original Slope	6	29OCT07	03NOV07	0	6								
VE2050	Slope 11NW-A/C678 & CR679 -Landscape & Hydroseed	6	05NOV07	10NOV07	0	6					1			
Drainage W		1	T	1	1	1								
VA1100	Butterfly Valley Rd Stage4 - Stormwater Draiange	0	10SEP07	08SEP07	0	0			VA1100				· · · · ·	
Utilities & F														
VR3000	Drainage Maintenance Access Rd Formation	24	20AUG07	15SEP07	0	24				VR3000	1			
VR3010	Drainage Maintenance Access Rd Sub-base	24	27AUG07	22SEP07	0	24	_				VR3010			
VR3020	Drainage Maintenance Access Rd Kerbs	24	03SEP07	02OCT07	0	24	_					VR3020		
VR3030	Drainage Maintenance Access Rd Pavement	48	03SEP07	310CT07	0	48	_			1			1 1	_
VR3040	Drainage Maintenance Access Rd Street Lights	12	17OCT07	310CT07	0	12	_		~ ~ ~ ~	-	1		+	_
VR2100 VR2110	Butterfly V. Rd (WMT) Stage3- Excav. & Formation Butterfly V. Rd (WMT) Stage 3 - Sub-base	12 12	08JUN07A 21AUG07	23AUG07 27AUG07	90	4	_	VR210						
VR2110 VR2120	Butterfly V. Rd (WMT) Stage 3 - Sub-base	12	21AUG07 24AUG07	30AUG07	0	6	_		VR2110 VR2120				i i	
VR2130	Butterfly V. Rd (WMT) Stage 3 - Pavement	6	24A0G07 28AUG07	03SEP07	0	6	-		VR2120					
VR2140	Butterfly V. Rd (WMT) Stage 3 - Street Lighting	4	04SEP07	07SEP07	0	4	_	Ì	VR2140	Í	Í		i i	
VR2150	Butterfly V. Rd (WMT) Stage 3 - Road Marking	4	04SEP07	07SEP07	0	4			VR2150				i i	
VR2200	Butterfly V. Rd (WMT) Stage4- Excav. & Formation	12	10SEP07	22SEP07	0	12	-				VR2200		1	
VR2210	Butterfly V. Rd (WMT) Stage 4 - Sub-base	12	17SEP07	02OCT07	0	12						VR2210		
VR2220	Butterfly V. Rd (WMT) Stage 4 - Kerbs	12	24SEP07	09OCT07	0	12							VR2220	
VR2230	Butterfly V. Rd (WMT) Stage 4- Pavement	6	10OCT07	16OCT07	0	6				I I	I I			V
VR2240	Butterfly V. Rd (WMT) Stage 4 - Street Lighting	4	17OCT07	22OCT07	0	4								
VR2250	Butterfly V. Rd (WMT) Stage 4 - Road Marking	4	17OCT07	22OCT07	0	4								
VR2400	Butterfly V. Rd (WMT) Stage 4 - Tie-in RHS	9	17OCT07	27OCT07	0	9	_						ļ	
VR2500	Butterfly V. Rd (WMT) Stage 4 - Tie-in LHS	9	29OCT07	07NOV07	0	9				1				
Wai Man Ts	suen Fire Hydrant Pump House		L	1										
VH1035	Wai Man Tsuen F/H P/H - Provide for E & M Contr'	0		18AUG07	0	0	_ •	H1035						
VH1040	Wai Man Tsuen F/H Pump House - Mechanical Works	24	20JUL07A	23AUG07	90	4		VH104						
VH1060	Wai Man Tsuen F/H Pump House - FS Installation	24	15MAY07A	23AUG07	90	4	_	VH106					i i	
VH2000	Fire Main - Pipework Along Maintenance Road	18	26FEB07A	25AUG07	90	6	_	VI	H2000		l T			
VH2010	Fire Main - Valves & Connections	18	20AUG07	08SEP07	0	18			VH2010	1	1		1 1	
Landscape					1									
VX1000	Landscaping - Earthworks & Formation	24	03OCT07	310CT07	0	24	_							
VX1040 VX1100	Landscaping - Soiling & Planting Landscape Establishment Works	24 300	03OCT07 01NOV07	31OCT07 29OCT08	0	24 300	_						1	
-	· · ·	300	01110/07	2900106	0	300								
	Main Line - Piers P16 to P18										1			
	Superstructure Finishing Works	1	1	1		-					Í		i i	
MF4050	P16 to P18 - Top Rail to Parapets	12	30JUL07A	30AUG07	20	10			MF4050		i I			
MF4060	P16 to P18 - Flexible Pavement	9	02MAY07A	23AUG07	60	4	_	MF40						
MF4080	P16 to P18 - Road Marking & Traffic Signage	12	24AUG07	06SEP07	0	12	_		MF4080	1				
MF4090	P16 to P17 - Landscaping - Planting On Viaduct	25	10SEP07	10OCT07	0	25	_						MF4090	
MF4100	P16 to P17 - Landscape Establish W'ks on Viaduct	301	11OCT07	09OCT08	0	301		l I I		1	1		<u> </u>	-
Viaduct - I	Main Line - Piers 19 to Abutment M													
Remaining	Superstructure Finishing Works													
MF5050	P19 to Abut M - Top Rail to Parapets	12	26JUL07A	30AUG07	20	10			MF5050				ļ	
MF5060	P19 to Abut M - Flexible Pavement	4	20APR07A	21AUG07	60	2		MF5060						
MF5080	P19 to Abut M - Road Marking & Traffic Signage	4	22AUG07	25AUG07	0	4		M	F5080					
Viaduct - I	Main Line - Tunnel Approaches							į į		i I			i i	
Noise Barri	iers & Encl' (Sec.10 Excision)													
MN6110	Semi Enclosure S/B Ch.2005 - 2200 - Panels	35	27FEB07A	22AUG07	97	3		MN6110	)	i I				
Remaining	Noise Barriers & Enclosures	1	1							1	1		+ +	
MN8080	At Grade - 7m Reflective Barrier S/B Ch1789-1989	75	11DEC06A	20AUG07	98	1		MN8080						
At Grade V	Works - Butterfly Valley	1	1	1	1	1				1	1		+ +	
											1			
	s & Slope Works - 11NW-A/FR54 & F55	00	001441/074	4505007	00	0.1				050000				
QE2002 QE2004	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Bases Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	36 48	03MAY07A	15SEP07 02OCT07	20 20	24	_			QE2002		QE2004	i i	
QE2004 QE2010	Slope 11NW-A/FR54 & FR55 - Retaining Wall -Walls	48 36	28MAY07A 20AUG07	020CT07 020CT07	20	36 36	_			1		QE2004	1	
		50	2070001	0200107	0	- 50				1			· · ·	
Start Date			23SEP03	P3 File : LU4	17						She	eet 5 of 9		_
Finish Date Data Date			17FEB09 20AUG07				Highway	s Departm	nent Contract No. HY/2003/	01				
Run Date			27AUG07 08:56					Route 8 -	Lai Chi Kok Viaduct					1
									Rolling Programme				4	l
								from 2	21 August 2007					1
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Activity	Activity	Orig.	Early	Early	%	Rem			1		2007	
ID	Description	Durn.	Start	Finish	Compl.		40	AUG	3	SEP 24	4 0	
QE2020	Slope 11NW-A/FR54 & FR55 - Excavate & Rockfill	36	03OCT07	14NOV07	0	36	13	20 27	3	10 17 24	1 8	15
QE2030	Slope 11NW-A/FR54 & FR55 - Remove Temp. Works	18	15NOV07	05DEC07	0	18	-			i i i		
Utilities &	Roadworks		1			1			1			
QR1060	WSD Access Road - Permanent C/Way P18 to P19	36	15NOV07	27DEC07	0	36	-					
Landscape					-				1		1	
QX1100	Landscape Establishment Works	301	20AUG07	18AUG08	0	301	_					
	Slip Road C		20/10/00/	10,10000		001						
	-											
	Superstructure Finishing Works	4.0	40.000									
CF1050	Slip Rd. C - Top Rail to Parapets	18	12JUN07A	28AUG07	55	8	_	CF10	50			
CF1058	Slip Rd. C - Waterproofing of Deck (not used)	6	20AUG07	25AUG07	0	6	_	CF1058	i			
CF1080	Slip Rd. C - Road Marking & Traffic Signage	18	20AUG07	08SEP07	0	18				CF1080		
	J Noise Barriers & Enclosures	50	00411007	0000707	0	50						1
CN1000	Slip Rd. C - 3m Absorptive Barriers Ch.665 - 730	52 50	20AUG07 23OCT07	22OCT07 19DEC07	0	52	_					
CN1010	Slip Rd. C - 3m Absorptive Barriers Ch.730 - 790	50	2300107	19DEC07	0	50						
Viaduct -	Slip Road D											
Superstruc	cture Finishing Works Required for TCSS											1
DF1009	Slip Rd. D - Sign Gantry ADS4 at D6	12	27JUL07A	25AUG07	40	6		DF1009				
Remaining	Superstructure Finishing Works											
DF1040	Slip Rd. D - Deck Drainage	24	01SEP06A	21AUG07	65	2	_	DF1040				
DF1050	Slip Rd. D - Top Rail to Parapets	18	08AUG07A	05SEP07	20	15	_		DF10	50		
DF1060	Slip Rd. D - Flexible Pavement	9	11JUL07A	23AUG07	50	4		DF1060				
DF1080	Slip Rd. D - Road Marking & Traffic Signage	6	24AUG07	30AUG07	0	6		D	F1080			
Remaining	Noise Barriers & Enclosures											
DN1000	Slip Rd. D - 3.5m Reflective Barrier Ch.805-881	36	27JUL07A	08SEP07	50	18				DN1000		
DN1010	Slip Rd. D - 3m Reflective Barriers Ch.680 - 805	36	26JUL07A	08SEP07	50	18		+	+	DN1010		
Lai Wan F	Road Overpass											
Temporary	/ Traffic Management Schemes								1		I I	
LT1040	TTMS LW Rd (for Substructure) - Implementation	1,101*	04FEB04A	28SEP07	20	34*					Г1040	
LT3020	TTMS CC Rd (on W/B Deck) - Roadworks Advice	6	20AUG07	25AUG07	0	6	-	LT3020				
LT3030	TTMS CC Rd (on W/B Deck) - Site Preparation	3	27AUG07	29AUG07	0	3			030			
LT3050	TTMS CC Rd (on W/B Deck) - Implementation	173*	02FEB07A	30AUG07	0	10*			T3050			
LT3150	TTMS CC Rd (on E/B Deck) - Implementation	135*	11MAR07A	20AUG07	0	1*		LT3150				
LT3220	TTMS CC Rd (on Both Decks) - Roadworks Advice	6	20AUG07	25AUG07	0	6		LT3220				
LT3230	TTMS CC Rd (on Both Decks) - Site Preparation	3	27AUG07	29AUG07	0	3			3230			
LT3240	Divert 2 Lanes to Each New East Bound Bridge	1	20AUG07	20AUG07	0	1	_	LT3240				
LT3245	Divert 2 Lanes to Each New West Bound Bridge	1	30AUG07	30AUG07	0	1	_		T3245			
LT3250	TTMS CC Rd (on Both Decks) - Implementation	29*	20AUG07	21SEP07	0	29*			L. +	LT3250	I	
LT3300	TTMS CC Rd (on Both Decks) - Prepare for Review TTMS CC Rd (on Both Decks) - CRE Endorsement	12	20AUG07 02SEP07	01SEP07 07SEP07	0	12	_	1	LT3300	Г3310		
LT3310 LT3320	TTMS CC Rd (on Both Decks) - CRE Endorsement TTMS CC Rd (on Both Decks) - Roadworks Advice	6	02SEP07 08SEP07	13SEP07	0	6 6	_			LT3320		
LT3330	TTMS CC Rd (on Both Decks) - Roadworks Advice	4	14SEP07	18SEP07	0	4	-			LT3320		l
LT3340	Divert 1No. Lane to Each New Bridge	1	21SEP07	21SEP07	0	1	-			LT3340		
LT3350	TTMS CC Rd (on Both Decks) - Implementation	6*	21SEP07 21SEP07	213EP07 28SEP07	0	6*	_				T3350	
1	nd - Superstructure Finishing Works		2.02.07	10021 07		U U						
LF1110	Lai Wan O/Pass W/B - Resurface Existing Deck	18	31AUG07	20SEP07	0	18	-	-		LF1110		
LF1140	Lai Wan O/P W/B -Flange Stitch Connect NOT USED	38	20AUG07	04OCT07	0	38	-				LF1140	
LF1150	Lai Wan O/Pass W/B - Pavement to New Flanges	9	20AUG07 20AUG07	29AUG07	0	9	-		150			
LF1160	Lai Wan O/Pass W/B - Remove Temporary Barriers	6	21SEP07	285EP07	0	6	1				F1160	
	d - Superstructure Finishing Works			· · · · ·		1						
LF1010	Lai Wan O/Pass E/B - Resurface Existing Deck	18	30AUG07	19SEP07	0	18	-	l i 💻		LF1010	i i	
LF1050	Lai Wan O/P E/B - Flange Stitch Connect NOT USED	35	20AUG07	29SEP07	0	35	-				LF1050	
LF1060	Lai Wan O/Pass E/B - Pavement to New Flanges	9	20AUG07	29AUG07	0	9	1		060			
LF1070	Lai Wan O/Pass E/B - Remove Temporary Barriers	6	20SEP07	27SEP07	0	6	1				070	l I
Drainage V												
LA1000	Area Under Overpass - Stormwater Drainage	48	20AUG07	16OCT07	0	48	-					
LA1010	Area Under Overpass - S/W Drainage in Lai Wan Rd	36	170CT07	28NOV07	0	36	1					
Landscape												
LX1000	Landscaping Under Overpass - Formation	36	24SEP07	07NOV07	0	36	-			!!!		
LX1010	Landscaping - Hardworks (Walls etc.)	70	02OCT07	22DEC07	0	70	1					 
		-1			-	-	4	<b>m</b>	+ +		· · · · · · · · · · · · · · · · · · ·	I
Start Date Finish Date			23SEP03 17FEB09	P3 File : LU4	47			<b>_</b>			neet 6 of 9	
Data Date			20AUG07					s Department Co				
Run Date			27AUG07 08:56					Route 8 - Lai Ch				5
								3 Month Rolling		ne		
	C Drimovara Svatarea Ira							from 21 Aug	yust 2007			
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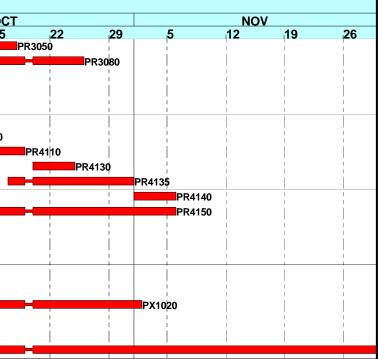
						_										2007									
Activity	Activity	Orig.	Early Start	Early Finish	% Compl	Rem		AUG				SE				2007	00	т						ov	
ID LX1015	Description	<b>Durn.</b> 60	14NOV07	28JAN08	Compl.	.Dum.	13	20	27	3	10	)	17	24	1	8	15		22	29		5	12	19	26
	Norks - Ching Cheung Road at LCK Pa		1 III O V OI	200/ 1100	0	00															-				
	Traffic Management Schemes	u K																							
NT1050	TTMS CC Rd (W/B C/Way) - Implementation	1,084*	05FEB04A	08SEP07	33	18*						050													
NT2040	1st. TTMS CC Rd (E/B C/Way) - Implementation	835*	22NOV04A	31AUG07	0	11*				NT2040	1		1	1					1	1		1			
NT2070	2nd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	20AUG07	25AUG07	0	6			NT2070																
NT2080	2nd. TTMS CC Rd (E/B C/Way) - Site Preparation	6	27AUG07	01SEP07	0	6				NT2080			i –	ĺ								Ì		i i	i l
NT2090 NT2120	2nd. TTMS CC Rd (E/B C/Way) - Implementation 3rd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	0* 6	03SEP07 20AUG07	01SEP07 25AUG07	0	0* 6			NT2120	NT209	90		1	 		 	 		1	1		1	1	 	1
NT2130	3rd. TTMS CC Rd (E/B C/Way) - Roadworks Advice	3	20AUG07 27AUG07	29AUG07	0	3	-			130			1												
NT2140	Divert 2 Lanes to New East Bound Carriageway	1	31AUG07	31AUG07	0	1				NT2140			1	I I										i i	
NT2150	3rd. TTMS CC Rd (E/B C/Way) - Implementation	31*	31AUG07	08OCT07	0	31*											NT2150								
Drainage W	lorks												1											1	
NA3000	C.C. Rd. E/B in New C/way - not used	60	20AUG07	31OCT07	0	60							-			· · · · ·					NA300	00			
NA3010	C.C. Rd. E/B Existing C/way -Stormwater Drainage	24	01SEP07	29SEP07	0	24		-					-			3010			-						+
Utilities & R		6	20411007		0	6				1													l l		
NR1050 NR1150	C.C. Rd. W/B in Portion E3 - Rd Marking & Signs C.C. Rd. W/B in Portion J2 - Rd Marking & Signs	6	20AUG07 03SEP07	25AUG07 08SEP07	0	6 6	-		NR1050			150													
NR1160	C.C. Rd. W/B in Portion J2 - Street Lighting	12	20AUG07	01SEP07	0	12	1			NR1160	1			i I					I I	i I		1	i I	i I	
NR3060	C.C. Rd. E/B - Road Markings & Traffic Signs	6	03SEP07	08SEP07	0	6	]					8060													
NR4000	C.C. Rd. E/B C/way - Resurface Existing C/way	6	02OCT07	08OCT07	0	6		1	-								NR4000		-						<u> </u>
Landscape									i I				1	i		_			i I	 		i I	l I	i I	1
NX1000	Landscaping - Formation	18	10SEP07	02OCT07	0	18	-	1								NX1000									
NX1010 NX1020	Landscaping - Paving Landscaping - Irrigation System	50 18	03OCT07 03OCT07	30NOV07 24OCT07	0	50 18	-	1	1 				1							(1020			I	l	
			0300107	2400107		10			1	1	I		1							1020				1	 
	Nork - Ching Cheung Road - Main Sect	lion							1	I I	1		l I	1					1	1		1	l I	l I	
RT2160	Traffic Management Schemes 2nd. TTMS CC Rd E/B (CCR-S1) - Implementation	997*	14MAY04A	04SEP07	16	14*			1	БТ	T2160		1												
RT2360	4th. TTMS CC Rd E/B C/Way - Implementation	36*	20AUG07	043EF07 02OCT07	0	36*	-				12100		i .	l.		RT2360	ĺ		i	i		i	ĺ	İ	i l
	& Slope Works - CCR-S1, S2 & S3				1 - 1				1				1						1	1					 1
RE1710A	Slope CCR-S1C- Finish Seed & Planting +54.9mPD	12	09MAY07A	23AUG07	95	4		RE1	710A																
RE1720A	Slope CCR-S1C - Finish Seed & Planting +47.3mPD	12	16MAY07A	29AUG07	80	9				1720A	i		i I	i			i		i	i		i	i I	i I	
RE1860	Slope CCR-S1E&C- Finish Seed & Planting to +25.4	24	23MAY07A	29AUG07	75	9			RE	860												1			
RE2130 RE1720B	Slope CCR-S2 - Finish Seeding & Planting Slope CCR-S1W - Seed & Planting to +39.95mPD	18 24	20AUG07 09MAY07A	08SEP07 01SEP07	0 75	18 12	_			RE1720	RE2	130	ĺ.	ĺ						ĺ		i			
RE1720B	Slope CCR-S1W - Seed & Planting to +33.95hPD	24	16MAY07A	01SEP07	75	12				RE1720			i 1	i		I	I					-i	I	I	<u> </u>
RE1670	Slope CCR-S1W - Seed & Planting to +24.9mPD	24	23MAY07A	01SEP07	75	12			1	RE1670			1												
RE1675	Slope CCR-S1W - Seed & Planting to +19.0mPD	18	30MAY07A	01SEP07	75	12				RE1675	5 ¦		1	1											
RE1680	Slope CCR-S1W - Seed & Planting to +16.8mPD	12	30MAY07A	29AUG07	75	9			RE	680			1									1		l	
RE2100	Slope CCR-S2 - Drainage (NOT USED)	42	20AUG07	09OCT07	0	42			1	F I	-		1	-		i	RE2100				-	1			+
RE4027	Above Retaining Wall CCR-R2     Excavate & Demolish Existing Retaining Wall	12	14MAY07A	29AUG07	20	9				1007	1		1	1			1								
RE4027 RE4028	Fill & Compact to Form Toe of Berm	12 6	30AUG07	29A0G07 05SEP07	20 0	9 6	-		RE		RE4028		Ì	ĺ					ĺ	Ì		Ì		Ì	1
RE4030	Slope Drainage above R/W CCR-R2	24	05MAR07A	23AUG07	90	4		RE4	030				1	1											
RE4040	Slope Finishes above R/W CCR-R2	24	09APR07A	27AUG07	90	4			RE4040																
Slope Work	s Above Retaining Walls CCR-R3D, E & F								i I	i I	i		i I	i I			i I		i	i		i I	i i	Ì	i i
RE4410	Slope Above CC Rest Garden - Excavate Slope	12	14JUL06A	20AUG07	95	1	_	RE4410					1												
RE4420	Slope Above CC Rest Garden - Benching	12	30SEP06A	21AUG07	80	2	-	RE4420			E4400														
RE4430 RE4440	Slope Above CC Rest Garden - Rock Filling Slope Above CC Rest Garden - Slope Drainage	12 18	22AUG07 05SEP07	04SEP07 25SEP07	0	12 18	-			IRE	E4430		i	i	RE4440				i I			i I	i I	i I	1
RE4440 RE4450	Slope Above CC Rest Garden - Slope Drainage	10	19SEP07	040CT07	0	12	-		1							RE4450									
RE4130	Slope above CCR-R3D- Slope Drainage	24	05MAR07A	23AUG07	95	4		RE4	130	   	I I		1				I I		   				[ [	I	
RE4140	Slope above CCR-R3D - Slope Finishes	18	20MAR07A	30AUG07	95	4		<u> </u>		E4140															
RE4232	Slope above CCR-R3E&F- Slope Drainage	24	05MAR07A	25AUG07	95	6	_		RE4232				1			1						1	l l	1	
RE4240	Slope above CCR-R3E&F - Slope Finishes	18	20MAR07A	01SEP07	95	6				RE4240	)		 			I			 	I				I	 
RE4320	Second States St	18	20JUL07A	29AUG07	80	9			RE	1320						ĺ			Ì	Ì		Ì	Ì	ĺ	
RE4320	Slope CCR-S4 - Lower Slope Drainage	24	20JUL07A 20JUL07A	29AUG07 29AUG07	80	9							1	1		1	1						l l	l l	
	Ing Road NTMM Retaining Wall A	,				-															-	+			 +
RW6040	NNTM Wall A -Debris Coll' Area Drainage NOt USED	12	20AUG07	01SEP07	0	12			1	RW6040	0		l I	i		i			i I	 		i I	i I	i	- I
Start Date	· · · · · ·			P3 File : LU4	.7		-				I			I	Shee	et 7 of 9	1	25		I			I	1	
Finish Date Data Date			17FEB09 20AUG07				Highway	ys Depart	ment Co	ontract	No. H	//2003/0	)1		5			1							ļ
Run Date			20AUG07 27AUG07 08:56					Route 8														in	n		
								3 Month										-	1 d				n		
								from	n 21 Aug	gust 200	07							-			Infra	aest	ructu	ras	
	© Primavera Systems, Inc.																								

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Activity	Activity	Orig.	Early	Early	% Comm	Rem		AUG	SE			2001	ОСТ				NOV		
ID	Description	Durn.	Start			.Durn.	13	20 27		17	24	1 8	15	22	29	5	12	19	26
RW6050	NNTM Wall A -Debris Col Area Acces Ramp NOT USED	12	03SEP07	15SEP07	0	12			I I I I I I I I I I I I I I I I I I I	W6050				i l	i I		i I	i I	
RW6060	NNTM Wall A - Debris Coll Area Finishes NOt USED	24	17SEP07	16OCT07	0	24				 		F i	RW6	060	1		1	1	
Drainage V RR4000		24	20411007	4505007	0	24				- 									
	Ching Cheung Rd. E/B - Stormwater in Exist C/way	24	20AUG07	15SEP07	0	24				R4000			 						
Utilities & I RA2000		24	20411007	4505007		24					i i		İ	İ	i				ĺ
RA2000 RA3047	Lai Wan Road - Footpath below Slope CCR-S4 Ching Cheung Rd. W/B -Sign Gantry ADS4-1	24 6	20AUG07 10AUG07A	15SEP07 23AUG07	0 40	24 4		RA3047		A2000			i i	i I	i I		i I	i I	
RA3047	Ching Cheung Rd. W/B - Stgirl Ganty AD34-1 Ching Cheung Rd. W/B - Street Lighting	12	20AUG07A	01SEP07	40	12			RA3060										
RA3065	Ching Cheung Rd. Road Marking & Signs	6	03SEP07	08SEP07	0	6			RA3065	l I	l I	I I	I I	I I	I I	I I	l I	l I	1
RA4150	Ching Cheung Rd. New E/B Slip Road - C/Barriers	18	16APR07A	04SEP07	5	14			RA4150										
RA4160	Ching Cheung Rd. New E/B Slip Road - St. Lights	12	20AUG07	01SEP07	0	12			RA4160	I	I								
RA5000	Ching Cheung Rd. W/B Exist C/Way - Formation	36	02MAY07A	11SEP07	70	6			RA5000										
RA5010	Ching Cheung Rd. W/B Exist C/Way - Sub-base	24	03JUL07A	25SEP07	70	6					RA5010								
RA5020	Ching Cheung Rd. W/B Exist C/Way -Kerbs NOT USED	36	12SEP07	26OCT07	0	36				1					RA5020				
RA5030	Ching Cheung Rd. Resurface Existing W/B C/way	12	27SEP07	110CT07	0	12				I		P-COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA C	RA5030	i 		1		1	
RA5040	Ching Cheung Rd. W/B Exist C/Way - C/Barriers	24	20AUG07	15SEP07	0	24			R	A5040									
RA6000	Ching Cheung Rd. Resurface Existing E/B C/way	12	17SEP07	02OCT07	0	12						RA6000	I I	1	1		1	1	1
RA7000	Lai Wan Road - Watermains & Hydrants FH4 & FH5	24	20AUG07	15SEP07	0	24		i		A7000			 	 					
	Verpass Irrigation Pump House	40	0041107-	04055	-	10				1 									
RI1020	Lai Wan O/pass Irig P/H - Waterproofing NOT USed	12	20AUG07	01SEP07	0	12			RI1020	1									
RI1030	Lai Wan O/pass Irig Pump House - Building Works	75	01MAR07A	23AUG07	80	4		RI1030											
RI1040 RI1050	Lai Wan O/pass Irig Pump House -Mechanical Works Lai Wan O/pass Irig Pump House - Electrical Work	36 36	05JUN07A 05JUN07A	25AUG07 29AUG07	85 85	6 6		RI1040	0	, 									
RI1060	Lai Wan O/pass Ing Pump House - FS Installation	36	09JUN07A	01SEP07	85	6			RI1060	Ì			İ	ĺ	İ				
Landscape		00	0000110771	OTOLI OF	00	Ŭ													
RX1000	Landscaping - Formation	72	28AUG07	22NOV07	0	72													<b>XX1000</b>
RX1010	Landscaping - Paving	65	27SEP07	13DEC07	0	65				 									
RX1020	Landscaping - Irrigation System	72	040CT07	28DEC07	0	72													
RX1040	Landscaping - Soiling & Planting	48	02NOV07	28DEC07	0	48													
At Grade	Works - Butterfly Valley Interchange		·																
	Traffic Management Schemes									,   									
PT2250	TTMS CP Rd-KC N/B for CCR-R4 -Prepare (NOT USED)	16	20AUG07	06SEP07	0	16			PT2250										
PT2260	TTMS CP Rd-KC N/B for CCR-R4 - CRE End(NOT USED)	6	07SEP07	12SEP07	0	6			PT2250	1	l I		I I	I I	1		I.	I I	1
PT2270	TTMS CP Rd-KC N/B for CCR-R4 - R/A (NOT USED)	7	13SEP07	19SEP07	0	7					2270		I	l	l				
PT2280	TTMS CP Rd-KC S/B - Re-open Slip Road (NOT USED)	0		19SEP07	0	0				1	T2280		I I	I I					
PT2288	TTMS CP Rd-KC N/B-Close Loop to CC Rd( NOT USED)	0		19SEP07	0	0					T2288		1						
PT2290	TTMS CP Rd-KC N/B for CCR-R4 - Implem(NOT USED)	450*	20AUG07	17FEB09	0	450*				1									
PT1550	TTMS CP Rd-KC S/B for CCR-R5 - Implementation	1,023*	11JUN04A	05NOV07	10	64*				1			-			PT155	)		
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	20AUG07	08SEP07	0	18			PT2200	ĺ	l l		Í	ĺ	İ				
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	09SEP07	14SEP07	0	6				2210	1 J	1	I I	I I	1	1	I I	1	
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	15SEP07	21SEP07	0	7					PT2220								
PT2230 PT2240	TTMS CP Rd-KC S/B for Paving - Site Preparation TTMS CP Rd-KC S/B for Paving - Implementation	6 29*	22SEP07 02OCT07	29SEP07 05NOV07	0	6 29*				l I		T2230				PT224		I I	I I
PT2240 PT2300	TTMS CP Rd-KC N/B for 11NW-A/C66-Prep for Review	29 16	20AUG07	06SEP07	0	29 16			PT2300							F1224	,		
PT2300 PT2310	TTMS CP Rd-KC N/B for 11NW-A/C66 - CRE Endorse	6	07SEP07	12SEP07	0	6			PT2300										
PT2320	TTMS CP Rd-KC N/B for 11NW-AC66 - Roadwks Advice	7	13SEP07	120EF 07 19SEP07	0	7					2320								
PT2330	TTMS CP Rd-KC N/B for 11NW-A/C66 - Site Prepare	6	20SEP07	27SEP07	0	6					PT23	330	 	 	 			 	
PT2340	TTMS CP Rd-KC N/B for 11NW-A/C66 - Implement	144*	28SEP07	21MAR08	0	144*				 			-						
Earthworks	s & Slopeworks - 11NW-A/C66									1	l I								
PE2000	Slope 11NW-A/C66 - Hoardings / Fencing	6	28SEP07	05OCT07	0	6				1		PE2000							
PE2010	Slope 11NW-A/C66 - Trim Slope	18	06OCT07	27OCT07	0	18				 			-		PE201	o ¦			
PE2015	Slope 11NW-A/C66 - Platform for Soil Nailing	18	29OCT07	17NOV07	0	18				1 								PE2015	
PE2017	Slope 11NW-A/C66 - Soil Nails - Test Nail	12	19NOV07	01DEC07	0	12				1									
Drainage V										, 								1	1   
PA2000	C.P.Rd-K.C. S/B - Stormwater Drainage	24	14JUN07A	29AUG07	85	9		PA20	00										
Utilities & I										I I					·   			l I	I
PR1117	New CLP 11Kv Cable Laying in front of CCR-R5	18	25SEP07	17OCT07	0	18							PR	1117					
PR3000	C.P.Rd. Loop to Slip Road C - Formation	13	20AUG07	03SEP07	0	13		, , , , , , , , , , , , , , , , , , ,	PR3000	 	l I		1	1	I I	I   I	l I	l L	l I
PR3010	C.P.Rd. Loop to Slip Road C - Sub-base	12	28AUG07	10SEP07	0	12			PR3010										
PR3020	C.P.Rd. Loop to Slip Road C - Kerbs	18	04SEP07	24SEP07	0	18				1	PR3020								
PR3040	C.P.Rd. Loop to Slip Road C - Pavement	6	25SEP07	03OCT07	0	6						PR3040							
Start Date Finish Date			23SEP03 17FEB09	P3 File : LU4	7			<b>D</b>	, , <b>, , , , , , , , , , , , , , , , , </b>		She	eet 8 of 9		~					
Data Date			20AUG07						tract No. HY/2003/0	1				1		•			
Run Date			27AUG07 08:56					Route 8 - Lai Chi					1	A A	C	cio	na		
								3 Month Rolling I					(	<b>4</b> u					
	Drimours Sustans In-							from 21 Augu	151 2007					-	1	nfraestr	uctura	S	
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Activity	Activity	Orig.	Early	Early	%	Rem								2007	,	
ID	Description	Durn.	Start	Finish	Compl		13	AUG 20	27	3	10	SEP 17	24		8	OCT 15
PR3050	C.P.Rd. Loop to Slip Road C - Street Lighting	12	04OCT07	17OCT07	0	12	15	20					<b>2</b> 7			
PR3080	C.P.Rd. Loop to Slip Road C - Crash Barriers	18	04OCT07	25OCT07	0	18										
PR4000	C.P.RdK.C. S/B L/H C/Way - Excavate & Format'n	9	27AUG07	05SEP07	0	9				PR4	000	I I	l I		I	1
PR4010	C.P.RdK.C. S/B L/H C/Way - Sub-base	9	03SEP07	12SEP07	0	9						PR4010				
PR4020	C.P.RdK.C. S/B L/H C/Way - Kerbs	6	13SEP07	19SEP07	0	6			1	1			PR4020		I	1
PR4030	C.P.RdK.C. S/B L/H C/Way - Pavement	4	20SEP07	24SEP07	0	4							PR4030			
PR4100	C.P.RdK.C. S/B R/H C/Way - Excavate & Format'n	9	02OCT07	110CT07	0	9			I I	1	I I	1	I I		PR4	100
PR4110	C.P.RdK.C. S/B R/H C/Way - Sub-base	9	09OCT07	18OCT07	0	9										<b></b>
PR4130	C.P.RdK.C. S/B R/H C/Way - Pavement	4	20OCT07	24OCT07	0	4			I I	1	l I	1			I	1
PR4135	C.P.RdK.C. S/B - Street Lighting	12	17OCT07	31OCT07	0	12										
PR4140	C.P.RdK.C. S/B - Road Markings & Signage	4	01NOV07	05NOV07	0	4			1	1						1
PR4150	Castle Peak Road - Reinstate Junction	29	26JUL07A	05NOV07	5	24			-		-					
PR5045	C.P.Rd-K.C. S/B to C.C.Rd E/B - Street Lighting	6	20AUG07	25AUG07	0	6			PR5045		i i	i			1 	i
PR5050	C.P.Rd-K.C. S/B to C.C.Rd E/B - Rd Marks & Signs	6	27AUG07	01SEP07	0	6				PR5050	Ì	ĺ				Í
PR5060	C.P.Rd-K.C. S/B to C.C.Rd E/B - Re-open Road	0		01SEP07	0	0			i	<b>PR5060</b>	i i	i I			1	i
Landscape	Works												ĺ			Ì
PX1000	Landscaping - Earthworks & Formation	30	28AUG07	03OCT07	0	30								PX1000	)	1
PX1020	Landscaping - Paving	30	25SEP07	01NOV07	0	30										<b></b>
PX1030	Landscaping - Irrigation System	24	11SEP07	10OCT07	0	24	1		1	1					PX103	30
PX1040	Landscaping - Soiling & Planting	24	11SEP07	10OCT07	0	24	1								PX104	10
PX1100	Landscape Establishment Works	302	110CT07	10OCT08	0	302			1		i I	i 	·   			_

Start Date Finish Date Data Date Run Date 23SEP03 17FEB09 20AUG07 27AUG07 08:56

Highways Department Contract No. HY/2003/01 Route 8 - Lai Chi Kok Viaduct 3 Month Rolling Programme from 21 August 2007 Sheet 9 of 9





#### Delcan-Imtech-GTECH Joint Venture Contract No. HY/2003/05 Route 8 - Traffic Control and Surveillance System

#### 5-week Rolling Programme of Site Works

0	ning Fro	ogramme of Si	Le WOIRS									1													
Civil	Area	Portion	Work Area	Activity	[8]Type of major equipment							ŧ			Sep-07										_
					/ plant to be used	S 18	S M	T W 21 22	T 23	F S		T W T F S 28 29 30 31 1	S M T 2 3 4	W T F 5 6 7			W 1 12 1	F 3 14		M T 17 18	W T	F S 3	M T 3 24 25		F 28
Works	s Area	A	DIGJV Site Office	Pesticide spraying	N.A.	10	A	21 22	. 23 4	24 25	20 2	28 29 30 31 1	2 3 4	5 0 7	0 9	10 11	12 1	5 14	.5 10	17 18	19 20 .	21 22 2	.5 24 23	20 21	20
Works	s Area	А	Subcontractor warehouse	Material preparation for cable containment / Cable laying	N.A.																				
Works	s Area	A	DIGJV Site Office TMCA	Assemble of control cabinet VD trial test	N.A. N.A.	R			R	RR									_ <b>_</b>						<u> </u>
	-	-	IMCA		N.A.																				ſ
Roa	ad T3	G	Road T3	Routine Checkings	Van																				ſ
	ad T3	G	Road T3 / underpass, SB & NB	Cable laying, remedial work	Scissor lift			A																	í
	ad T3 ad T3	G	Road T3 / Road Gantry / underpass Road T3 / underpass, SB & NB	[2] TCSS Traffic field equipment (CCTV & VD) ET installation \ TCSS cabinet termination	Scissor lift Van	R	R	R											_ <b>_</b>						⊢
	ad T3	G	Road T3 / underpass, Sb & NB Road T3 / underpass, Kiosk S2 & S3	Cable containment / Cable laying /Cable termination	Van					R		A									-+-+				<u> </u>
	ad T3	G	Road T3, NB (TTA)	Cable laying, cable termination, cabinet installation	Scissor lift			Α	Α			R													Ē
Roa	ad T3	G	Road T3 / underpass, SB & NB	Fill up opening	Van		-											+ +	<b>_<del>   </del></b>					+ + +	-
SE	НТ	H1A, H1B, H1C	SHT (SB,NB, NPB, SPB)	Routine Checkings	Van																				-
	HT		SHT - NB & SB	Fill up opening	Metal scaffolding		A					A													ſ
	HT		SHT - NB & SB	PA system, Radio system, remedial work & Pre-test	Scissor lift		А	A A	Α			A													Ē
	HT	H1B, H1C	SHT - NB	[2] TCSS Traffic field equipment (CCTV & VD)	Scissor lift	R	R	R R	R	R				_					_ <b>_</b> _						┣—
SF	HT	H1B, H1C	SHT, SB&NB, tunnel entrance	Installation of mounting framework at tunnel portals	Crane lorry		_				P	A							<b>_</b>						⊢
SH	HT	H2	SHT - Open road Section	Routine Checkings	Van																				
SH	HT	H2	SHT Open road section	TCSS Traffic field equipment installation, rectification, pretest	Van / lorry	R	R	R	R			A A													Ē
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SF	HT	H3	SHT - RCFE (S/B & N/B)	Radio system remedial work / pre-test	Scissor lift		A										++	++		+	++			+	_
	HT	H3	SHT - RCFE (S/B & N/B)	Fill up opening																					Ē
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EN	NT	11, 12 & 13	ENT Tunnel (SB, NB, NPB, SPB, ADB, VB, Toll Plaza & Butterfly Valley)	Routine checkings	Van																				C
E١	NT	12	ENT -S/B & N/B, BV	Field equipment (TCD / cabinet) remedial work, cable termination	Scissor lift																				٢
			-			A	A	А	A	A A	A														i i
	NT	12	ENT -S/B & N/B	Cabling, ET system remedial work & Fill-up opening	Scissor lift	Α	A	Α		A	A	A													Ē
	NT	12	ENT -S/B & N/B	[2] TCSS Traffic field equipment (CCTV & VD)	Scissor lift	R	R	R			A	AAA							-	$\rightarrow$					Ē
Er	NT	12	ENT -S/B, N/B & CP	Cable termination / Cabling remedial work / equipment rack remedial work	Scissor lift			А				AAA													1
EN	NT	13	ENT - ADB	PA, PBX & Radio system remaining work	Metal scaffolding	A		А																	⊢
	NT	13	ENT -ADB, control rm & computer rm	Central control system, pre-test	Van			RR	R	RR	F														Г
EN	NT	11 & 13	ENT, SB&NB, tunnel entrance, near NPB &	Cable conduit installation / Setting out / Installation of mounting	Crane lorry																				ſ
			SPB	framework at tunnel portals								RRA													L
EN	NT	11 & 13	ENT - NPB, SPB & ADB	PA, BPBX & Radio system remedial work / System pre-test	Van			R R		R		R													ł
	NT	11	ENT - BV, Kiosk K4, K3	Cable containment / Cable laying / Cable termination	Van														_ <b>_</b>						-
	NT	11	ENT, BV & Toll Plaza	Field equipment remedial work, cable termination	Crane lorry		A																		Г
	NT	12	ENT -S/B, N/B & CP	ET krone box remedial work	Van			A A	A		A	A													Ē
EN	NT	12	ENT, VB	PA system, cable containment, remedial work				A	A										<b>_</b>						⊢
LC	CKV	J1	LCKV	Routine checkings	Van																				
LC	CKV	J1 & J2	LCKV	[3] & [7] TCSS's field equipment / cable containment / Cabinet	Scissor lift					^															Ē
		10		installation / Cable termination						_	<mark></mark>										$\rightarrow$			$\square$	4
LC	CKV	J2	LCKV, Kiosk K2	Cable containment / Cable laying /Cable termination	Van	R	R	RR	R	RR		A							<b>_</b>						⊢
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	HT	H1A- H1C	SHT & Portal Building	SCT for Radio system	Van																				Ē
	HT		SHT & Portal Building	SCT for CCTV, VDS	Van				_	_									4						1
	HT HT		SHT, SB & NB, Open road SHT, SB & NB	SCT - TCSS Cabinet SCT for fibre cable test (Node 11, 12 & Kiosk S1)	Van Van			R	A	R	P	AA													⊢
SF		H1A- H1C	SHT, SB & NB	SCT - Radio system	Van			А				AA													Г
	ad T3	G	Road T3	SCT for SDH (Node 12)	Van		_	R											_						
Roa T3 & I	ad T3 RCEE	G G & H3	Road T3 T3 & RCFE	SCT for power cable SCT for Traffic Control Devices	Van Van	┥╋	-	$\vdash$	A	RP							$\vdash$	+	<b>_ </b> - <b> </b> - <b> </b> - <b> </b> - <b> </b> - <b> </b> - <b> </b> - <b> </b> - <b> </b> - <b> </b>	++		<u> </u>			⊢
T3 & I		G & H3	T3 & RCFE	SCT for CCTV, VDS & PA	Van																				C
T3 & I	RCFE	G & H3	T3 & RCFE	SAT for Central System, Pt to Pt	Van																				Ē
	OFE CFE	H3 H3	RCFE RCFE	SCT - Node 12 SAT for Central system - pt to pt	Van Van	╞			++			┽┼┼╀╏									+			+++	⊢
	NT	I1 & I3	ENT & Portal building	SCT for SDH (Node 9)	Van Van			A	+			┼┼┼╂╏								_+_+	-+-+				ſ
EN	NT	1 - 3	ENT & Portal building	SCT - Traffic control devices, CCTV, VHD	Van																				Ē
	NT	1 -  3	ENT & Portal building	SCT for Radio system	Van	╷╶Т											$\vdash$			$\square$					Ē
	NT NT	2  2	ENT ENT	SCT for Cabinet SCT for CCTV & VD	Van Van	┼┼			+			<mark>╄╶┟╶┟╶┠╶</mark> ╏					++	+					-	+ +	r
EN	NT	12	ENT	SCT for power cable	Van							AAAA													Ē
	NT	12	ENT ENT & Portal building	SCT for fibre cable	Van			D A		D D		A							┛┓	┛					F
	NT NT	1 -  3  1 -  3	ENT & Portal building ENT & Portal building	SAT for Central system SAT for PA	Van Van			R A	ĸ	KK															f
LC	CKV	J1 & J2	LCKV	SCT for fiber cable & power cable	Van			Α	A			RR													Ē
	CKV CKV	J1 & J2 J1 & J2	LCKV LCKV	SCT - Traffic control devices SAT - Central system, Point to point	Van Van	<mark>┼╶┞</mark>	┛		++			+ $+$ $+$ $+$ $+$ $+$ $+$							┛┓	<u> </u>	<del>_     [</del>	<u> </u>		╞┼┼┞	⊢
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	8K 8K	R8K R8K	R8K R8K	SAT for ET system SAT - R8K, SDH	Van Van	╞			++			┽┼┼╀╏									+			+++	⊢
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R	8K	R8K	R8K	SAT - PA & BPBX system	Van	┼╴╊	+		+ +							_	++	++			++	<del>   </del>			f
NS	SCV	D	NSCV	Routine checkings	Van																				C
	SCV	D	NSCV	[2] TCSS Traffic field equipment & Cabinet	Crane Lorry																				Ĺ
	A/T			Deutine shashing	¥7														┛┓	┛					F
NV NV		B&C D	NWT (E/B, W/B & WEB) EPB & WCB	Routine checkings Fill-up opening & PA system remedial work	Van Van	Δ	Δ	٨	+																F
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			= Planned activity	R - Re-scheduled		_			_						No	ote:	_		-						
Lege	end :		= Work Done	N - New activity													dia di i	nda -	votic! · ·	ordinet	om	loto-l M	Contractor	and TOOO	

Distribution: Arup-Johnny Mac, Hara,Alex C, Franco L, Hamlyn K, Joseph C, KT Chan, Patrick L, Simon Cheung, Philip C, PF Li, Sharon H, Tony C, Wilson W, Winnie M, Donald L, Johnny L, Kenny C, Thomas Wong, Andy Wong Remark: 1) The schedule only shows the anticipated works planned and shall be subject to changes which will be reported by daily labour forecast on ad-hoc bases. 2) Should it have any query on the above activity, please approach the following personnel. R8K : KY Chan / J. Lam / A. Luk ; R8T: KY Chan / K. Kan / CK Fung / A. Luk R8K / R8T - SCT / SAT: KY Chan / YS Ma / HF Leung



道易通聯營公司 DELCAN-IMTECH-GTECH JOINT VENTURE

Record Date:31-08-2007

 Vote:

 [1] Works depends on spatial co-ordination among related Main Contractor and TCSS.

 [2] Works Subject to Traffic Tube arrangement

 [3] Works subject to condition of site access & civil provision.

 [4] Works depend on Civil Contractor to complete / rectify their provision

APPENDIX M COMPLAINT LOG

# Appendix M - Complaint Log

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			Kwai Tsing District Officer (KTDO) recently received a public noise complaint about construction noise generated from the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. KTDO referred the complaint to the Highways Department (HyD) on the same day. HyD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 18 March 2004.	<ul> <li>Based on the information provided by the ER, the construction activities conducted in the vicinity of Nob Hill in the period between 2 and 18 March 2004 were:</li> <li>Item 1 – Breaking off existing planter and excavate trial trench to expose underground utilities (using one to two backhoes)</li> <li>Item 2 – Erect rock fall fence &amp; forming platform for predrilling (using one backhoe and occasionally one crane lorry)</li> <li>Item 4 – Excavate further to expose all underground utilities (using hand tools)</li> <li>Item 5 – Pre-drilling works (using one drilling rig)</li> </ul>	
40318	Nob Hill	18 March 2004	The complaint was raised by the Citybase Property Management Ltd. (the management company of Nob Hill) and the Secretarty of Nob Hill Owners Committee (Mr. Kevin Tse) about construction noise generated from the R8-LCKV Project at the work areas near Nob Hill. Mr. Kevin Tse mentioned that residents living in Nob	Considering the scale of work and the PMEs adopted, the ET believed that the construction noise impact at Nob Hill from the above construction activities of R8-LCKV was not significant. The bored piling work (Item 3) using one crawler crane and one oscillator was started on 19 March 2004, which was two days after the issue date of this complaint, so this activity was not considered in this report.	Closed
			Hill have greatly been affected by the noise impacts generating from the R8- LCKV construction works. He also requested relevant government departments to consider installing noise barrier along Ching Cheung Road and to work out possible measures to minimize the noise nuisances to the	According to the EM&A Manuals, Nob Hill was not selected as Noise Monitoring Location (NML) for the Project. Therefore, no direct noise monitoring data could be provided for the complaint investigation. However, there was no noise level exceedance recorded at the nearby NML (NM4 – Mei Foo Sun Chuen, Phase 5) since the commencement of the project according to ET's inventory.	
			residents living in the vicinity.	During ET's weekly environmental site inspections on 3, 10, 17 March 2004, no serious noise nuisance induced by the Project works was observed at the sites near Nob Hill. Based on the joint site visit with the representative of HyD, IEC, RSS and ET to the Nob Hill on 30 March 2004, the major noise source at Nob Hill was identified as traffic noise on Ching	

Log Ref.	Location	<b>Received Date</b>	<b>Details of Complaint</b>	Investigation/Mitigation Action	Status
				Cheung Road, which is located very close to this building, especially at or above the Podium Floor (i.e. 5/F).	
				<ul> <li>Based on the information obtained, this noise complaint is not considered due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as:</li> <li>To space out noisy equipment and position it as far away as possible from the sensitive receivers;</li> <li>To avoid concurrent uses of noisy equipment near the sensitive area;</li> <li>To ensure the equipment are maintaining in good operation condition; and</li> <li>To turned off any idle equipment on site.</li> </ul>	
				Adding to that, ET is proposed to install one to two noise monitoring stations at Nob Hill in order to monitor the noise impact generated from the R8-LCKV Project to the resident of Nob Hill or the nearby buildings.	

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
40330	Site Areas near Nob Hill	30 March 2004	<ul> <li>Highways Department (HyD) recently received a public noise complaint about construction noise generated from the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. HyD referred the complaint to the RSS and subsequently referred to the ET Leader of the Project on 30 March 2004.</li> <li>The complaint was raised by Mr. Yau, the Office of DCV Member Mr. Cheung Wing Shum, regarding the high pitch construction noise generated at the R8-LCKV site which cause serious nuisance to the residents at Mei Foo.</li> </ul>	<ul> <li>Based on the information provided by the RSS, the Contractor was not aware of any high pitched construction noise arising from plant employed for their works. The noise complaint referred to may be originated from the damage of a gas main valve on the afternoon of 29 March 2004 in the vicinity of the junction of Mai Lai Road with Lai King Hill Road. The high pitched whistle apparently resulted from the damage which was repaired by TownGas in that afternoon.</li> <li>Based on the information obtained, this noise complaint is considered not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as:</li> <li>To space out noisy equipment and position it as far away as possible from the sensitive receivers;</li> <li>To ensure the equipment are maintaining in good operation condition; and</li> <li>To turned off any idle equipment on site.</li> </ul>	Closed
40402	Nob Hill	06 April 2004	A public noise complaint was received by the Contractor (NECSO) on 02 April 2004 regarding the noise generated from the Ching Cheung Road Widening Works of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, near Nob Hill, Lai Chi Kok. NECSO referred the complaint to the RSS and subsequently referred to the ET Leader of the Project on 6 April 2004	The complaint was raised by Ms Wong, regarding the noise generated from the Ching Cheung Road Widening Works of the R8-LCKV Project, which cause serious nuisance to her. Based on the information provided by the RSS, the plants employed by the Contractor for carrying out bored piling works in front of Nob Hill should not generate excessive noise. The RSS had also checked against the site records that no piling works was in progress in front of Nob Hill on 1-3 April 2004. According to telephone communication between the complainant (Ms Wong) and the RSS on 8 April 2004, the RSS reported that Ms Wong was not complaining about the construction noise generated by the R8-LCKV Project. She was actually complaining about the traffic noise she anticipated to be generated after completion of widening work at Ching Cheung Road in front of Nob Hill.	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Log Ku	Location			<ul> <li>During ET's weekly environmental site inspections on 17, 24 &amp; 31 March 2004 and 7 April 2004, no serious noise nuisance induced by the Project works was observed at the construction sites near Nob Hill.</li> <li>Based on the joint site visit with the representative of HyD, IEC, RSS and ET to the Nob Hill on 30 March 2004, the major noise source at Nob Hill was identified as traffic noise on Ching Cheung Road, which is located very close to this building, especially at or above the Podium Floor (i.e. 5/F).</li> <li>Based on the information obtained, this noise complaint is considered not due to the construction activities of the Project.</li> <li>Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise, such as</li> <li>To space out noisy equipment and position it as far away as possible from the sensitive receivers;</li> <li>To avoid concurrent uses of noisy equipment near the</li> </ul>	Status
				<ul> <li>sensitive area;</li> <li>To ensure the equipment are maintaining in good operation condition; and</li> <li>To turned off any idle equipment on site.</li> </ul>	
40710	Pier P7 in Portion E1	10 July 2004	A public complaint was raised on 30 <sup>th</sup> June 2004 regarding the washout of muddy water from the site area of the Route 8 – Lai Chi Kok Viaduct (R8- LCKV) Project, at Pier P7 onto Lai Chi Kok Road. The complaint was referred to the RSS on 3 <sup>rd</sup> July 2004 and subsequently	Based on the information provided by the RSS, the spillage of muddy water was in fact due to a burst in a temporary water pipe being utilized in the piling operations at Pier P7 in Portion E1. Emergency remedial works were undertaken preventing further spillage of muddy water. The remaining ponding water within the works area arising from the burst was all removed from the area on 5 <sup>th</sup> July 2004.	Closed
			referred to the ET Leader of the Project on 10 <sup>th</sup> July 2004. The complaint was raised by Mr. Chan,	During ET's weekly environmental site inspection on 14 <sup>th</sup> July 2004, no serious water quality nuisance induced by the Project works was observed at the construction sites near Pier P7. It was also noted that the back of profile barriers along the site boundary had been sealed up by cement as preventive measures.	

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			regarding the washout of muddy water from the works area of the R8-LCKV Project onto Lai Chi Kok Road. The washout caused nuisance to the drivers utilizing the road, and may also cause danger to the motorbikes.	During ET's weekly environmental site inspections on 17, 24 & 31 March 2004 and 7 April 2004, no serious noise nuisance induced by the Project works was observed at the construction sites near Nob Hill.	
				Based on the information obtained, the complaint is considered due to the construction activities of the Project. Emergency remedial works had been taken by the Contractor to rectify the situation and preventive measures had also been implemented.	
				<ul> <li>Nevertheless, the Contractor was recommended to adopt the following measures to avoid re-occurrence of similar incidents:</li> <li>to enhance surface runoff control measures along the site boundary;</li> <li>to provide adequate training to the frontline workers; and</li> <li>to regularly inspect temporary water supply equipment, such as hose pipe to make sure the equipment is in good condition.</li> </ul>	
40809	Ching Cheung Road area near Nob Hill	22-Jul-04 (by EPD) 09-Aug-04 (by ET Leader)	<ul> <li>EPD received a public noise complaint on 22 July 2004 about construction noise and dust generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project, at the Ching Cheung Road Area near Nob Hill. EPD subsequently referred the complaint to the ET Leader of the Project on 9 August 2004.</li> <li>The complaint was about the construction noise and dust observed at the Ching Cheung Road area near Nob Hill. The locations of the works areas being concerned by the complainant include:</li> </ul>	<ul> <li>Information Provided by RSS</li> <li>Information (construction activities and equipment adopted) in a 2-week period before the date of complaint, i.e. 7 to 21 July 2004, was obtained from the Resident Site Staff.</li> <li>Area A: <ul> <li>Item 1 – Drainage works by using 1 x backhoe;</li> <li>Item 2 – Bored piling works by using 1 x crawler crane, 1 x air compressor, 1 x reverse circulation drill and 1 x power pack;</li> <li>Item 3 – Trial trench excavation by man power;</li> <li>Item 4 – Gas main diversion by 1 x backhoe (performed by TGC's Contractor)</li> </ul> </li> <li>Area B: No construction activity was undertaken in the concerned period.</li> </ul>	Closed
			<ol> <li>Area A: Works area between Nob Hill and Lai Chi Kok Park Swimming Pool</li> <li>Area B: Works area between Ching</li> </ol>	<i>Review of Environmental Monitoring Results</i> The routine monitoring stations, which are in the vicinity of the concerned works areas, include: <u>Noise Monitoring</u>	

Log Ref.	Location	<b>Received Date</b>	<b>Details of Complaint</b>	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint Cheung Road and Mei Lai Road / Lai Wan Road opposite to Mei Foo Sun Cheung (Phase 5) and Lai Chi Kok Public Library.	<ul> <li>NM4: R/F of Mei Foo Sun Chuen (Phase 5)</li> <li>NM8a: M/F of Nob Hill</li> <li>NM8b: 3/F of Nob Hill</li> <li>Air Quality (1-hr TSP / 24-hr TSP) Monitoring</li> <li>AM2: R/F of Lai Chi Kok Sports Centre</li> <li>No Action / Limit level exceedance was identified in July 2004.</li> <li><i>Environmental Site Inspection</i></li> <li>During the ET site inspections on 8<sup>th</sup>, 14<sup>th</sup> and 20<sup>th</sup> July 04, no major environmental deficiency with regard to noise and air quality was identified by the auditors.</li> <li><i>Conclusions</i></li> <li>Based on the RSS's information, environmental monitoring results as well as the observations made during site inspections, this complaint is considered to be invalid and not due to the construction activities of the Project. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise and dust impacts, such as:</li> <li>To space out noisy equipment and position it as far away as possible from the sensitive receivers;</li> <li>To avoid concurrent uses of noisy equipment near the sensitive area;</li> <li>To turn off any idle equipment on site.</li> </ul>	Status
				<ul> <li>To turn on any full equipment on site.</li> <li>To cover excavated dusty materials by impervious sheeting;</li> <li>To provide water spray for haul roads, loading/unloading and concrete breaking operations;</li> <li>To perform wheel wash for every vehicle immediately before leaving the site.</li> </ul>	
50215	Mei Foo Sun Chuen, Phase 5	15-Feb-05	A public complaint was raised on 8 <sup>th</sup> Feb 2005 regarding construction noise	Construction Activities	Closed
	(Retaining Wall CC-R3)	(by ET Leader)	from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project	During the weekly site inspection on 17 Feb 05, piling work was being conducted at the concerned. The major powered	

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Lug Kei.		Acceived Date	near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff on 14 <sup>th</sup> Feb 2005 and subsequently referred to the ET Leader of the Project on 15 <sup>th</sup> Feb 2005. The complaint was raised by a resident in Mei Foo Sun Chuen, regarding the noise generation from the piling work at Retaining Wall CC-R3, adjacent to Po Leung Kuk Tong Nai Kan College.	<ul> <li>mechanical equipment (PME) in operation included a mobile crane, an air compressor, a reverse circulation drill and a generator.</li> <li>In view of the separation of the site area and the residential building (around 40 m) and also the high traffic noise from Ching Cheung Road as well as Mei Lai Road, the noise generated from the operation of the PME was believed to be insignificant.</li> <li><i>Environmental Monitoring</i></li> <li>The noise monitoring results at Station NM4 (Mei Foo Sun</li> </ul>	Status
				Chuen, Phase 5) for the last 3 months were reviewed in order to evaluate the noise impact from the Project on the noise sensitive receiver. The measured noise levels in last three threes were ranged from 70.8 to 75.8 dB(A). It was observed that the measured noise levels were well within the range of baseline noise levels (69.2 to 75.8 dB(A)). The corrected construction noise levels were found to be ranged from 63.5 to 71.5 dB(A), which were well below the noise criterion of 75 dB(A).	
				Conclusions	
				Based on the information obtained and the noise monitoring results, this complaint is considered to be invalid and not due to the construction activities of the Project.	
				Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impacts.	
50322	Seung Lai House, Wah Lai Estate	11-Mar-05 (by EPD)	Environmental Protection Department (EPD) received a public noise complaint on 11 Mar 05 about daytime	Construction Activities As advised by the RSS, the major construction work during 25	Closed
	(Slope S1)	22-Mar-05 (by ET Leader)	construction noise generation from R8- LCKV. EPD subsequently referred the	Feb 05 to 11 Mar 05 (2 weeks before the date of complaint) in the vicinity of Wah Lai Estate included excavation work, soil	

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			complaint to the Environmental Team (ET) Leader of the Project on 22 Mar 05. The complaint was raised by a resident of Seung Lai House of Wah Lai Estate, regarding the daytime (0800-1800 hrs) construction noise generated from the slope work and road work of R8- LCKV Project. As advised by EPD, the complainant is living on 20/F or above in Seung Lai House.	<ul> <li>nail work and installation of u-channel and manholes. The major powered mechanical equipment included excavators, drilling machine and air compressor.</li> <li>In view of the separation of the site area (Slope S1) and the Seung Lai House (around 140 m) and also the traffic noise from Ching Cheung Road, the noise generated from the construction activities at Slope S1 was believed to be insignificant.</li> <li><i>Environmental Monitoring</i></li> <li>Ad-hoc noise measurement was conducted at Seung Lai House on 30<sup>th</sup> Mar 05 and the measured noise level (Leq-30min) was 66.9 dB(A), which was well below the criterion for daytime construction noise of 75 dB(A). The construction noise level (with reduction of background noise level) is expected to be even lower.</li> <li><i>Conclusion</i></li> <li>Based on the information obtained and the noise measurement results, this complaint is considered not justifiable. Nevertheless, the Contractor was recommended to adopt good site practice to minimize the construction noise impact.</li> </ul>	
50330, 50331, 50404 & 50407	Wah Lai Estate	30-Mar-05, 31- Mar-05, 4-Apr- 05 & 7-Apr-05 (by ET Leader via RSS)	Four public complaints were lodged by the residents of Wah Lai Estate regarding the construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Wah Lai Estate. The complaints were	<i>Construction Activities</i> The site of concern was likely to be Slope S1, which is around 140 m away from Wah Lai Estate. The major construction work at Slope S1 included trimming of slope, soil nail work and erection of u-channels and step channels.	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			referred by the Resident Site Staff to the Environmental Team (ET) Leader on 30 <sup>th</sup> , 31 <sup>st</sup> March, 4 <sup>th</sup> and 7 <sup>th</sup> April 2005, respectively.	Investigation/Milgation Action         Environmental Monitoring         Ad-hoc noise measurement was conducted at Seung Lai House on 30 <sup>th</sup> Mar 05 and 7 <sup>th</sup> Apr 05 and the measured noise levels (Leq-30min) were ranged from 66.9 to 69.1 dB(A), which were well below the criterion for daytime construction noise of 75 dB(A). The construction noise level (with reduction of background noise level) is expected to be even lower.         Conclusion         Based on the results of the ad-hoc noise measurements at Wah Lai Estate, no exceedance of daytime noise criterion of 75 dB(A) was recorded. The complaints lodged are therefore considered not justifiable.         Mitigation         The Contractor agreed to arrange the noisy activities to commence after 8:00 am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:00 am).	
50404-v2	Mei Foo Sun Chuen	4-Apr-05 (by ET Leader via RSS)	A public complaint was raised on 1 <sup>st</sup> April 2005 regarding construction noise from the site area of the Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project near Mei Foo Sun Chuen. The complaint was referred to the Resident Site Staff and the ET Leader on 4 <sup>th</sup>	<i>Construction Activities</i> The site of concern was likely to Retaining Wall CC-R3, adjacent to Po Leung Kuk Tong Nai Kan College. The major construction works at this area included bored piling works and excavation works.	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			April 2005.	Environmental Monitoring	
				According to the EM&A Manual, Mei Foo Sun Chuen, Phase 5 (NM4) is designated as one of the noise monitoring stations.	
				Since the commencement of the impact monitoring programme, the construction noise levels recorded at this station were all below the noise criterion.	
				Conclusion	
				Based on the noise monitoring results at Station NM4 (Mei Foo Sun Chuen), no exceedance of daytime noise criterion of 75 dB(A) was recorded since the commencement of the impact monitoring programme. The complaint lodged is therefore considered not justifiable.	
				Mitigation	
				The Contractor has agreed to arrange the noisy activities to commence after 8:00 am. This arrangement could effectively reduce the disturbance to the residents within the more sensitive time period (7:00 am to 8:00 am). The Contractor also agreed to provide some temporary noise barriers for the noisy machinery if found necessary.	
50613	Mei Foo Sun Chuen	7-Jun-05 (by EPD) 13-Jun-05 (by ET Leader)	According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen (Block 7, Phase 5) on 7 June 2005. It was about construction dust emitted intermittently from the slope works undertaken on the other side of Mei Lai Road.	Site Activities The site of concern was likely to be CCR-R3. Bored piling works and demolition of existing retaining walls were undertaken at this area in the period between 1 and 7 June 2005. It was believed that the demolition of existing retaining wall, which involved concrete breaking, was the activity of concern.	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location	Received Date	Details of Complaint The complainant was particularly concerned about the fugitive dust emission during rock / concrete breaking activities.	Investigation/Mitigation ActionObservationsOn 1 Jun 05, one of the environmental deficiencies noted by the ET was about fugitive dust emission from breaking activities at CCR-R3. The Contractor was reminded to provide sufficient dust mitigation measures for the breaking works. Immediate action was taken by the Contractor to apply water spray for the works as observed during the audit session.On 9 Jun 05, the breaking works were still being taken at CCR- R3. Water spray as a dust mitigation measure was being adopted by the Contractor during the audit. No observable dust emission was noted from the breaking works or other site activities.On 15 Jun 05, the same area was re-inspected due to the receipt of the complaint from EPD. The demolition works had been finished and no other dust emissive activity was being taken. No other dust source from the construction site was observed during the inspection.ConclusionBased on the observations noted during our site inspections, this 	Status
				However, corrective action had been taken by the Contractor and the situation was found improved during the follow-up inspections.	
50721	Hei Lai House, Wah Lai Estate	21-Jul-05 (by ET Leader)	The complaint was lodged by a resident of Hei Lai House of Wah Lai Estate through a Legislative Council member. The complaint was about construction noise nuisance caused by rock breaking work, which claimed to be started from 8:30am daily, carried out at Ching Cheung Road near Wah Lai Estate.	Site Activities The slope work at Slope S1 was likely to be the activity of concern. The work at Slope S1 recently included the operation of excavator mounted breakers, excavators and dump trucks. The time period of concern was within normal working hours (7am to 7pm) on a weekday not being a public holiday. The noise criterion is 75 dB(A) for domestic premises.	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			The complainant hoped that the rock breaking work could start later i.e. be carried out from noon to afternoon and the site could be fully enclosed. The Environmental Team (ET) of the Project received the complaint on 21 July 2005 and forwarded it to the Resident Site Staff (RSS) to obtain necessary information.		
51107	Ching Cheung Road near Mei Foo Sun Chuen	7-Nov-05 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 7 November 2005. According to EPD, the complaint was	The site of concern was likely to be CCR-S4 and CCR-R3. According to RSS's records, bored piling works and soil nail drilling at CCR-R3, excavation works at CCR-S4 in the concerned period. <i>Site Inspection</i> After receipt of the complaint, an ad-hoc site inspection was carried by ET on 9 November 2005 and the following	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			raised by a resident of Mei Foo Sun Chuen. The complaint was about dark smoke, dust and noise nuisance caused by the construction work of R8-LCKV near Mei Foo Sun Chuen.	<ul> <li>observations were made:</li> <li>1. Breaking activities were undertaken at CCR-R2 and R3. Continuous water spray was applied by the workers for dust suppression. Movable noise barriers were erected to alleviate the noise impact.</li> <li>2. The haul roads and exposed works areas were observed wet. A water sprinkler was installed at the CCR-S4 for water spraying.</li> <li>3. Most of the slope was shot-creted to avoid wind erosion.</li> <li>4. Bored piling work was carried out near the site exit of CCR-R3. Since bored piling mainly involves handling of wet materials, dust nuisance causing by this type of work is not anticipated. Gas exhaust from the machines was visually clear and no dark smoke was identified.</li> <li><i>Environmental Monitoring</i></li> <li>Air quality monitoring was conducted at Lai Chi Kok Sports Centre and noise monitoring is conducted at Mei Foo Sun Chuen. No exceedance was recorded for both monitoring.</li> <li><i>Conclusion</i></li> <li>Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable.</li> </ul>	
60118	Lai Po Road near Hoi Lai Estate	18-Jan-06 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 18 January 2006. According to EPD, the complaint was lodged by a resident of Hoi Ming	<ul> <li>Site Activities</li> <li>According to the RSS's records, night works were carried out by the Contractor between 2000 hrs on 14 January 2006 and 0530 hrs on 15 January 2006:</li> <li>Delivery of segment from storage yard near Pier P5/L to Pier 15 for erection;</li> <li>Stressing to temporary PT bars of segments at Pier B3.</li> <li>The above night works, which involved operation of tractor,</li> </ul>	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Log Iul.			House of Hoi Lai Estate. The complaint was about construction noise nuisance caused by construction work of R8-LCKV carried out at Lai Po Road near Hoi Lai Estate. The noise nuisance was noted since 14 January 2006 during the periods from 2330 hrs to 0600 hrs.	mobile crane, lifting frame and generator, were undertaken under the two construction noise permits CNP no. GW-RW0739-05 and GW-RW0740-05. <i>Environmental Monitoring</i> In order to evaluate the noise impact onto the residents of Hoi Lai Estate, nighttime noise monitoring was carried out on 18 January 2006 at 23:00. The above monitoring results revealed that the measured noise levels were close to the reference background levels. After correction of the mean background level, all corrected noise levels were below the noise criterion of 55 dB(A). <i>Conclusion</i> Based on the information collected and the monitoring results, the complaint is considered not justifiable. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community.	Status
60119	Mei Foo Sun Chuen (Phase 5)	18-Jan-06 (by the ET Leader)	<ul> <li>Environmental Protection Department (EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 19 January 2006.</li> <li>According to EPD, the complaint was raised by a resident of Mei Foo Sun Chuen via a Sham Shui Po District</li> </ul>	<ul> <li>Site Activities</li> <li>The site of concern was likely to be CCR-S4, CCR-R2 and CCR-R3. According to RSS's records, site activities included:</li> <li>Trimming of existing rock slope at CCR-S4;</li> <li>Excavation and rock dowel installation at CCR-R2; and</li> <li>Construction of cable trough at CCR-R3 by CLP's contractor.</li> <li>Site Inspection</li> <li>After receipt of the complaint, an ad-hoc site inspection was carried by ET on 19 January 2006. No environmental deficiency</li> </ul>	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			Council Member's Office. The complaint mentioned that residents of	regarding construction dust was identified during the inspection.	
			Mei Foo Sun Chuen Stage 5 were adversely affected by construction dust	Environmental Monitoring	
			caused by the Route 8 work carried out at the slopes adjacent to Ching Cheung Road.	All monitoring results in Jan 06 revealed that no exceedance was recorded for the air quality (1-hr and 24-hr TSP) criteria.	
				Contractor's Action	
				<ul> <li>The Contractor of R8-LCKV had implemented several dust mitigation measures:</li> <li>Haul roads, exposed slope surface and soil stockpiles were watered regularly by hose pipes and sprinklers;</li> <li>Idled exposed slope were shot-creted; and</li> <li>Watering was applied for the dust emissive activities, such as loading and unloading of dusty materials, excavation and breaking works.</li> </ul>	
				Conclusion	
				Based on the ad-hoc site inspection and the environmental monitoring results, this complaint was considered not justifiable. Nevertheless, the Contractor was reminded to keep on the dust mitigation measures being implemented and step up the measures if necessary.	
60213	H. H. Frank	13-Feb-06 16-Feb-06 20-Feb-06	Four environmental complaints were received in this reporting month. Three of them were referred by EPD on 13 <sup>th</sup> , 20 <sup>th</sup> and 22 <sup>nd</sup> Feb 06 and the other one was referred by HyD via MHJV on 16 <sup>th</sup> Feb 06.	<i>Site Activities</i> Since around mid-January 2006, segments were transported to Piers P15 and B4, under the permission of construction noise permit (CNP).	
60216 60220 60222	Hoi Lai Estate (Lai Po Road)	22-Feb-06 (by the ET Leader)	All about construction noise due to night works at Lai Po Road near Hoi Lai Estate.	It was suspected that the sound of concern was generated from tractors for precast segment transportation. In view of the safety of workers, an alert sound and flashing are maintained during backing action of the tractors.	Closed
				Site Inspection	

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
				An ad-hoc inspection was carried out by the ET on 16 Feb 06 from 00:30 to 02:30 am. Noise measurement was carried out during the inspection to evaluate the noise impact onto the residents of Hoi Lai Estate. During the monitoring, the major noise source identified was the road traffic noise from Sham Mong Road and Lai Po Road. No alarm sound or alike from the construction equipment was noted. The above monitoring results revealed that the measured noise levels were close to the reference baseline level. After correction of the mean background level, most of data were below the noise criterion of 55 dB(A).	
				Conclusion	
				Based on the information collected and the monitoring results, the complaints are considered not justifiable.	
				It was suspected that the nuisance was caused by the alert sound of tractors during backward movement which servers as a safety measure. However, the RSS and the Contractor are considering the possibility of lowering the alert sound level or replacing by a less disturbing pitch in order to minimize the noise nuisance to residents of Hoi Lai Estate.	
			Environmental Protection Department	Site Activities	
			(EPD) received a public complaint about environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. EPD subsequently referred the complaint to the ET Leader on 20 April 2006.	According to the Resident Site Staff (RSS)'s records, the construction works were carried out by the Contractor from daytime to 2230 hours on 14 April and from 2000 hours to 0600 hours16 April 2006.	
			The complaint is about construction noise nuisance caused by construction work of night works at location near both Hoi Lai Estate and West Kowloon Highway between 14 and 17 April 2006.	<ul> <li>The construction activities near Hoi Lai estate included: -</li> <li>Erecting segments at column PA/R;</li> <li>Stressing of top tendon wires of segments and erecting segments at column P1/R; and</li> <li>Transporting segments to storage yard.</li> </ul>	

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
60420	Near both Hoi Lai Estate and West Kowloon Highway	20-Apr-06 (by the ET Leader)		<ul> <li>The above construction activities were undertaken under a construction noise permit CNP no. GW-RW0172-06.</li> <li>Base on the RSS's preliminary investigation, it was suspected that the noise nuisance of concern was caused by loading and unloading of materials, hammering and/or dropping of materials on ground during the stressing works and transportation of precast segment by tractors.</li> <li><i>Contractor's Action</i></li> <li>The Contractor had implemented a short term mitigation measures:-</li> <li>Turned off the alert sound of tractors during backward movement in order to reduce the potential for noise impact;</li> <li>Strengthened their management on worker's working manner such as avoid dropping of material on ground,</li> </ul>	Close
				<ul> <li>manner such as avoid dropping of material on ground, wrapping up of hammering equipment and etc.; and</li> <li>Conducted training of worker in order to reducing noise nuisance during the night works.</li> </ul>	
				Based on the information collected and the monitoring results, the complaints are considered not justified.	
				It was suspected that the nuisance was caused by loading and unloading of materials, hammering and/or dropping of materials on ground during the stressing works and transportation of precast segment by tractors.	
				The Contractor has strictly complied with PME allowed in the CNP No. GW-RW0172-06. Besides, night work at the concerned location was completed. No further construction work at night at this location is anticipated.	

Log Ref. Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
60428 Between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen)	28-Apr-06 (by the ET Leader)	Environmental Protection Department (EPD) received a public complaint about tree cutting in the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen). EPD subsequently referred the complaint to the ET Leader on 28 April 2006. The complaint was about the Contractor cu trees in the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Chuen). This had removed the traffic noise barrier effect of the trees and hence made the residents of Mei Foo Sun Chuen becoming being seriously affected by the traffic noise nuisance.	<ul> <li>Site Activities</li> <li>According to the Resident Site Staff (RSS)'s records, current construction activities included segment erection works for Slip Road D, excavation works for cut slope CCR-S4 and retaining wall construction at CCR-R2 and CCR-R3.</li> <li>Since excavation for cut slopes and construction of slip road D are required at this area, tree cutting is unavoidable. Tree felling application was approved by DLO/KW.</li> <li>Contractor Action</li> <li>Under the EP condition and EIA, there is no need for this project to mitigate the traffic noise barrier effect due to the removal of tress.</li> <li>No follow up action was required for this complaint.</li> <li>Conclusion</li> <li>Under the EP conditions and EIAO, there is no need for this project to mitigate the traffic noise barrier effect due to the removal of tress.</li> <li>No follow up action was required for this complaint.</li> <li>Conclusion</li> <li>Under the EP conditions and EIAO, there is no need for this project to mitigate the traffic noise barrier effect due to the removal of trees.</li> <li>Based on the information collected, the complaint is considered not justifiable.</li> <li>Since excavation for cut slopes and construction of slip road D are required at this area, tree cutting is unavoidable. Tree felling application was approved by DLO/KW.</li> <li>Compensatory planting will be provided at the concerned area after completion of the construction works in order to improve the landscape and visual impacts.</li> <li>No follow up action will be required for this complaint.</li> </ul>	Close

Environmental Protection Department (EPD) received a public complaints about noise nuisance generated from Route 8 – Lai Chi Kok Viaduct Project.       Site Activities         Site Activities       According to the RSS's records, only precast segment transportation works at the concerned area which was used as the	
60522Hoi Lai Estate (Hoi Fai House)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 (by ET Leader)22-May-06 	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			The Integrated Complaint Centre (ICC) of HKSAR received a public complaint	not justifiable. However, the Contractor was reminded to continuously implement their practice to prevent noise nuisance generation due to the construction works. The site situation will be continuously reviewed by ET and RSS also. Site Activities	
			about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LVKC). Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 9 June 2006. The complaint was about the noise generated from rock excavation work from 9 a.m. to 6 p.m. at the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun	As advised by the RSS, the site of concerned area was likely to be CCR-S4. According to the RSS's records, 1 number of excavator mounted breaker was unsed to carry out rock breaking work at CCR-S4 during the period between 9 a.m. and 6 p.m. The excavation and rock breaking activities at the concerned area will likely be completed by end of September 2006.	
			Cheun).	Contractor Action	
60609	Near Phase 5 of Mei Foo Sun Chuen	9-Jun-06 (by ET Leader)		The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity.	Closed
				Site Inspection and Environmental Monitoring An ad-hoc inspection was carried out by ET on 14 June 2006 from 1:30 p.m. to 4:30 p.m. and 16 June 2006 from 4:00 p.m. to 4:45 p.m.	
				During the inspections, the construction activities at CCR-S4 included handheld breaking, excavation and rock breaking activities were carried out at CCR-S4. However, the temporary noise barriers were erected at the abovementioned location as same as RSS's mentioned.	
				Noise measurement was carried out during the inspection to	

Log Ref.	Location	<b>Received Date</b>	<b>Details of Complaint</b>	Investigation/Mitigation Action	Status
				evaluate the noise impact onto the residents of Mei Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5).	
				The measured monitoring results were close to the reference baseline level. After correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A).	
				Conclusion	
				Base on the information collection and the monitoring result, the complaint was considered not justifiable.	
				The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the ET.	
60626	Near Phase 5 of Mei Foo Sun Chuen	26-Jun-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through a facsimile on 12 June 2006 about an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 26 June 2006. According to the explanation from the RSS, this complaint was indeed the same as that received by the ET on 9 June 2006. The complaint initiated the	<ul> <li>Site Activities</li> <li>As advised by the RSS, the site of concerned area was likely to be CCR-S4.</li> <li>According to the RSS's records, 1 number of excavator mounted breaker was unsed to carry out rock breaking work at CCR-S4 during the period between 9 a.m. and 6 p.m.</li> <li>The excavation and rock breaking activities at the concerned area will likely be completed by end of September 2006.</li> <li>Contractor Action</li> </ul>	Closed
			complaint verbally to the ICC on 8 June 2006 and then also issued a facsimile to the ICC. The facsimile was transferred to the RSS on 12 June 06	The silent rock breaking equipment has been used and noise barriers were erected to minimize the noise impact generated from the breaking activity.	

Log Ref.	Location	<b>Received Date</b>	<b>Details of Complaint</b>	Investigation/Mitigation Action	Status
			and eventually reached the ET on 26 June 2006.	Site Inspection and Environmental Monitoring	
			The complaint was about the noise generated from rock excavation work from 9 a.m. to 6 p.m. at the area between Ching Cheung Road and Mei Lai Road (near Phase 5 of Mei Foo Sun Cheun).	As the complaint was identical to the one received on 9 June 06 by the ET, the ad-hoc inspections carried out on 14 June 2006 from 1:30 p.m. to 4:30 p.m. and 16 June 2006 from 4:00 p.m. to 4:45 p.m. were still applicable to this report. In addition, further ad-hoc inspections were carried out on 28 June 2006 from 1:30 p.m. to 4:00 p.m. and 3 July 2006 from 9:30 a.m. to 11:30 a.m.	
			This complaint was made by the same complainant to the ICC through two different channels (by phone and by facsimile) and the ET of the Project was firstly notified on 9 June 2006. A complaint investigation report was	During the aforesaid inspections, the construction activities at CCR-S4 included handheld breaking, excavation and rock breaking activities were carried out at CCR-S4. However, the temporary noise barriers were erected at the abovementioned location.	
			complaint investigation report was issued on 22 June 06. As the ET received this separate complaint after the issue of the complaint investigation report and considered the nature of the complained event (general construction during daytime but not single event at a particular moment), the complaint investigation procedures were initiated.	In addition to the noise measurement conducted on 14 and 16 June 2006, further noise measurement was carried out on 30 June 2006 to evaluate the noise impact onto the residents of Mei Foo Sun Chuen. The monitoring location was original monitoring location NM4 (Mei Foo Sun Chuen Phase 5). Noise measurement carried out on 30 June 06, after correction of the mean background level, the monitoring data were below the noise criterion of 75 dB(A)	
			investigation procedures were initiated.	Conclusion	
				This complaint was identical to the one received by the ET on 9 June 06 because the complainant addressed the complaint to the ICC through two different channels (by phone and by facsimile). The facsimile was transferred to the RSS on 12 June 06 and eventually reached the ET on 26 June 06.	
				Base on the information collection and the monitoring result, the complaint was considered not justifiable.	
				The Contractor had implemented noise mitigation measures to minimize the noise impact. Besides, the monitoring result were	

Log Ref. Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Log Ker. Location		The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 August 2006 about an environmental nuisance generated from	<ul> <li>below the noise criteria of 75dB(A). However, the Contractor was still reminded to continuously implement their practice to prevent noise nuisance generation from the construction works.</li> <li>The environmental conditions of the site will be continuously reviewed by the RSS and the ET.</li> <li>Site Activities</li> <li>According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and</li> </ul>	Status
Near Mei Foo and Lai King Hill Road	30-Aug-06 (by ET Leader)	Route 8 – Lai Chi Kok Viaduct 9R8- LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 30 August 2006. The complaint was concerned about dust generated from the rock drilling works affected the nearby ASRs. The complaint described that spraying of water during rock drilling works was not implemented.	<ul> <li>would likely last for at least 6 months.</li> <li><i>Contractor Action</i></li> <li>After receiving the complaint, the Contractor has further enhanced the dust mitigation measures as follows:- <ul> <li>Enclosing the rock dowel drilling work on three sides, i.e. top, back and the left hand side, with tarpaulin sheets;</li> <li>Spraying of water at the hole during drilling;</li> <li>Wrapping the head of the drilling rig with a wet thick towel.</li> </ul> </li> <li><i>Site Inspection and Environmental Monitoring</i></li> <li>During the monthly site inspection on 4th September 2006, rock drilling at the slope CCR-S1 was carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Water was sprayed continuously at the drilling hole and head of the drilling rig was enclosed with a wet thick towel. All the mitigation measures mentioned by the RSS were implemented.</li> <li><i>Conclusion</i></li> <li>Base on the information collected and the monitoring results, the complaints are considered not justifiable.</li> <li>It was because there was no exceedance of the air quality</li> </ul>	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
				monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works. However, the Contractor was still reminded to take sufficient dust mitigation measures to minimize the environmental impact	
				<ul> <li>on the nearby community:</li> <li>Enclose dusty activity such as rock drilling with tarpaulin sheet;</li> </ul>	
				<ul> <li>Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials;</li> </ul>	
				• Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
			Environmental Protection Department (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 31 August 2006.	<i>Site Activities</i> According to RSS's record, rock dowel installation for slope stabilization at CCR-S1 was commenced on 22 August 2006 and would likely last for at least 6 months. <i>Contractor Action</i>	
60831	Between Lai Wan Road and Lai King Hill Road	d 31-Aug-06	The complaint was concerned about construction noise, dust and waste water generated from the construction work affect the nearby NSRs after 19.00 hrs, the nearby ASRs and discharged to exiting road respectively	With reference to RSS's site diary, all site activities including drilling works at the concerned area were conducted between 8:00 and 18:00 daily. Ad hoc site observation carried out by the RSS confirmed that no construction activity was carried out after 18:00.	Closed
			alsonargou to exiting roud respectively	As advised by the RSS, tarpaulin sheet covering and water spraying were provided by the Contractor to mitigate the dust nuisance generated from the rock drilling works. On 31 August 2006, the Contractor was further enhanced the dust mitigation measures as follows:-	
				• Enclosing the rock dowel drilling work on three sides, i.e.	

Log Ref.	Location	<b>Received Date</b>	<b>Details of Complaint</b>	Investigation/Mitigation Action	Status
				top, back and the left hand side (LHS) with tarpaulin sheets;	
				• Spraying water at the hole during drilling;	
				• Wrapping the head of the drilling rig with a wet thick towel.	
				Site Inspection and Environmental Monitoring	
				During the monthly site inspection on 4 <sup>th</sup> September 2006, rock drilling at the slope CCR-S1 was carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Water was sprayed continuously at the drilling hole and head of the drilling rig was enclosed with a wet thick towel. All the mitigation measures mentioned by the RSS were implemented.	
				Conclusion	
				Base on the information collected and the monitoring results, the complaint was considered not justifiable.	
				It was because there was no exceedance of the air quality monitoring results and dust mitigation measures were implemented by the Contractor during the rock drilling works. No construction activities were carried after 18:00 in the period mentioned by the complainant. In addition, no wastewater discharge was observed.	
				However, the Contractor was still recommended to take the following mitigation measures to minimize the environmental impact on the nearby community:	
				Dust Nuisance	
				• Enclose dusty activity such as rock drilling by tarpaulin sheet;	
				• Apply water spraying for any dust emissive activities, such as breaking, excavation, loading and unloading of dusty materials;	
				• Cover long-term idle exposed slope surfaces and stockpiles with tarpaulin sheets.	

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Log Kei.	Location			Construction Noise         The Contractor was reminded that construction activities during restricted hours could only be carried out with a valid Construction Noise Permit (CNP). In addition, appropriate noise mitigation measures described in the CNP should be implemented in order to minimize the noise impact on the nearby noise sensitive receivers.         Wastewater Discharge         • Fill up the gaps under the footings of hoarding fence along Lai King Hill Road so as to prevent spillage of muddy water during heavy rain onto the existing road.         The environmental conditions of the site will be continuously reviewed by the Resident Site Staff and the Environmental Team through site inspections and monitoring exercises.	Status
60925	Near Ching Cheung Road, Nob Hill and Mei Lai Road	25-Sep-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 September 2006 about the an environmental nuisance generated from Route 8 – Lai Chi Kok Viaduct 9R8- LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 25 September 2006. The complaint was concerned about the noise generated from the construction works after 19:00 at the area near Ching Cheung Road, Nob Hill and Mei Lai Road	<ul> <li>Site Activities</li> <li>According to RSS's record, rock dowel installation for slope stabilization at the Slope CCR-S1 was commenced on 22 August 2006 and would last for at least 6 months and the first batch of rock drilling works at the Slope CCR-S4 was commenced on 19 September 2006 and completed on 23 September 2006.</li> <li><i>Contractor Action</i></li> <li>After receiving the complaint, the Contractor has further enhanced the noise mitigation measures as follows:-</li> <li>Placing of a wooden box to cover the head of drilling;</li> <li>Spraying of water at the hole during drilling and erecting of nylon sheets;</li> <li>Providing silent type drilling rigs for the drilling works at both Slopes CCR-S1 and CCR-S4</li> <li>Site Inspection and Environmental Monitoring</li> </ul>	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
				During the weekly site inspection on 27 September 2006, rock drilling at the Slope CCR-S1 was not carrying out. The ET observed that the work area was enclosed by tarpaulin sheets at three sides. Temporary noise barrier was erected at the working platform of the Slope CCR-S1.	
				The ET also undertook an ad hoc site inspection at the concerned areas after 19:00 on 27 September 2006. No construction activities were observed and noise monitoring was not conducted.	
				Conclusion	
				Base on the information collected and the monitoring results, there was no exceedance of the noise monitoring results and noise mitigation measures were implemented by the Contractor during the rock drilling works.	
				However, the Contractor was still reminded to carry out construction activities only within the permitted working hours (i.e. $07:00 - 19:00$ on weekday) and to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community:	
				• Provide silent type drilling rigs for the drilling works;	
				<ul><li>Placing of wooden box to cover the head of drilling;</li><li>Apply water spraying for at the hole during drilling;</li></ul>	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
61025	Lai Chi Kok Road Flyover near PCCW building	25-Oct-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 25 <sup>th</sup> October 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently	<i>Site Activities:</i> According to RSS's record, installation of catchfan at Pier P5/L to P6 near PCCW was carried out at around 0115 to 0500 at both nights of 19 <sup>th</sup> and 20 <sup>th</sup> October 2006. The construction equipment used in both nights included one mobile crane, one crane lorry and one generator.	Closed

referred the complaint to the ET Leader on 25 <sup>th</sup> October 2006. The complaint was concerned about the noise nuisance generated from workers and construction vehicles during the mid-night between 0100 and 0200 on	og Ref. Location	Log Ref.	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
<ul> <li>bioth 19th and 20th October 2006 at Lai</li> <li>bioth 19th and 20th October 2006 at Lai</li> <li>Chi Kok Road Flyover near PCCW</li> <li>building.</li> </ul> <i>Environmental Monitoring</i> An ad-hoc site observation and noise monitoring at Hoi Fai An ad-hoc site observation and noise monitoring at Hoi Fai October 2006 between 0100 and 0130. The ET also carried out at Pier P5 to P6, which involved the operation of mobile crane and movement of lorry and trucks. During the monitoring results revealed that the measured noise levels were close to the reference background levelse. After correction of the mean background level, all corrected noise levels were below the noise criterion of 55 dB (A) which consists with the noise monitoring results from the Conclusion Based on the information collected, the complaint is considered justifiable although the monitoring results complied with the noise criteria. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearly community: <ul> <li>To strengthen management on worker's working manner, such as avoiding dropping materials on ground;</li> <li>No hammering is allowed during restricted hours; and</li> <li>To provide adequate training to workers working, esp. for night works.</li> </ul>	g Ref. Location	Log Ref.	Received Date	referred the complaint to the ET Leader on 25 <sup>th</sup> October 2006. The complaint was concerned about the noise nuisance generated from workers and construction vehicles during the mid-night between 0100 and 0200 on both 19 <sup>th</sup> and 20 <sup>th</sup> October 2006 at Lai Chi Kok Road Flyover near PCCW	<ul> <li>Contractor Action         According to RSS' record, acoustic material wrapping the head of chain blocks and hessian bags placing on ground around catchfans to suppress noise generation when hand tools were dropped onto ground.     </li> <li>Environmental Monitoring         An ad-hoc site observation and noise monitoring at Hoi Fai House of Hoi Lai Estate were conducted by the Contractor on 26<sup>th</sup> October 2006 between 0100 and 0130. The ET also carried out an ad-hoc inspection on 28<sup>th</sup> October 2006 from 0100 to 0200. During the inspection, segment erection work was carried out at Pier P5 to P6, which involved the operation of mobile crane and movement of lorry and trucks.     </li> <li>During the monitoring, the major noise source identified was the road traffic noise. The monitoring results revealed that the measured noise levels were close to the reference background levels. After correction of the mean background level, all corrected noise levels were below the noise criterion of 55 dB (A) which consists with the noise monitoring results from the Contractor.     </li> <li>Conclusion         Based on the information collected, the complaint is considered justifiable although the monitoring results complied with the noise criteria.     </li> <li>Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community:         <ul> <li>To strengthen management on worker's working manner, such as avoiding dropping materials on ground;</li> <li>No hammering is allowed during restricted hours; and</li> <li>To provide adequate training to workers working, esp. for</li> </ul></li></ul>	Status

Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
			reviewed by the Resident Site Staff and the Environmental Team.	
Pier C13 and C14 at Lai Wan Road Overpass	3-Nov-06 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint on 28 <sup>th</sup> October 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 3 <sup>rd</sup> November 2006. The complaint was concerned about noise generated from the general cleaning work of deck surface using water jet between Pier C13 and C14 at Lai Wan Road Overpass, at the evening of 28 <sup>th</sup> October 2006.	<ul> <li>Site Activities</li> <li>According to the RSS's record, there is a CNP (CNP no. GW-RW0563-06) at the concerned location. Construction activities were allowed to be carried out between 19:00hr and 23:00hr (any day not being a general holiday) under the CNP.</li> <li>Environmental Monitoring</li> <li>During the weekly site inspections in October 2006, no non-compliance or observation on noise was recorded. Accordance to the EM&amp;A program, two noise monitoring stations at Nob Hill, namely (NM8a and NM8b), have been set up in order to monitor the noise level generated from the construction activities. The Station (NM8b) is strongly influenced by road traffic noise from Ching Cheung Road. The measurement at this station is for reference purpose, but not for compliance check for construction noise. All measured value were lower than the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in October 2006. Moreover, based on our site observation record during monitoring, road traffic noise from Ching Cheung Road was the major noise source.</li> <li>Conclusion</li> <li>Based on the information collected, the complaint is considered not justifiable.</li> <li>Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community:</li> <li>As the general cleaning work could be carried out during normal working hours (i.e. 07:00 to 19:00hr) instead as the work was not critical. RSS would remind the Contractor to programme their works better in order to minimize nuisance to nearby residents.</li> </ul>	Closed
	Pier C13 and C14 at Lai Wan	Pier C13 and C14 at Lai Wan 3-Nov-06 (by ET L and r)	Pier C13 and C14 at Lai Wan       3-Nov-06         Pier C13 and C14 at Lai Wan       3-Nov-06         Pier C13 and C14 at Lai Wan       3-Nov-06	Pier C13 and C14 at Lai Wan Road Overpass Pier C14 at Lai Wan Road Overpass Pier C14 at Lai Wan Road Overpass Pier C14 Pier

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Log Ref.	Location Area near Lai Chi Kok Swimming Pool	21-Nov-06 (by ET Leader)	Details of Complaint           The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 18 <sup>th</sup> November 2006 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 21 <sup>st</sup> November 2006.           The complaint was concerned about noise generated from the construction works between 09:00 and 18:30 at the area near Lai Chi Kok Swimming Pool.	Investigation/Mitigation ActionTeam.Site ActivitiesAccording to RSS's record, rebar fixing, formwork erection, placing concrete and preparation work for construction joint were carried out at the concerned site during the period of 13th to 18th November 2006 and the construction works within the mentioned period were occasionally finished at 18:30.As advised by the RSS, the RSS has recommended the Contractor to finish the construction works at the concerned areas before 18:00 in order to minimize the noise nuisance to the public.Environmental MonitoringDuring the weekly site inspections in November 2006, no non- compliance or observation on noise was recorded.Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) and two noise monitoring stations at Nob Hill, namely (NM8a and NM8b), were set up in order to monitor the noise level generated from the construction activities. The Station (NM8b) is strongly 	Status

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
				construction works at the concerned areas before $18:00$ and to carry out construction activities only within the permitted working hours (i.e. $07:00 - 19:00$ on weekday).	
				The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises.	
	Construction works opposite Tong Nai Kan College	e 21-Nov-06	<ul> <li>through telephone on 17<sup>th</sup> November 2006 regarding dust and noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 21<sup>st</sup> November 2006.</li> <li>The complaint was concerned about dust and noise generated from the construction works opposite Tong Nai Kan College in the past years.</li> <li>21-Nov-06 by ET Leader)</li> <li>Resting Wall CCR-R3 and Slip Road D. As advised by the RSS, noise and dust mitigation as provision of noise barriers and acoustic mate dust suppression system and water browser vorder to minimize the noise and dust nuisance the above mentioned construction activities.</li> <li>The complaint was concerned about dust and noise generated from the construction works opposite Tong Nai Kan College in the past years.</li> <li>21-Nov-06 by ET Leader)</li> <li>The complaint explored a supervision of noise and air at the past years.</li> </ul>	According to RSS's record, construction works adjacent to Tong Nai Kan College in the past years included the construction of	
				As advised by the RSS, noise and dust mitigation measures such as provision of noise barriers and acoustic materials at drill pit, dust suppression system and water browser were provided in order to minimize the noise and dust nuisance generated from the above mentioned construction activities.	Closed
				Environmental Monitoring	
61121-2				During the weekly site inspections in November 2006, no non- compliance or observation on noise and air at the concerned site was recorded.	
01121-2		(by ET Leader)		Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) and one air monitoring station at Lai Chi Kok Sports Centre (AM2), were set up in order to monitor the noise and dust level generated from the construction activities.	Closed
				The monitoring results revealed that no exceedance was recorded for the noise and air quality (1-hr and 24-hr TSP).	
				Base on the information collected and the monitoring results, the	
				However, the Contractor was still reminded to continuously implement their practice, such as providing noise barrier with	

Log Ref. Locatio	on Received Date	Details of Complaint	Investigation/Mitigation Action	Status
		Environmental Protection Department	acoustic materials at drill pit and applying water spraying for any dust emissive activities to minimize the noise and dust nuisance generated from these construction activities. The environmental conditions of the site will be continuously reviewed by the RSS and the Environmental Team through site inspections and monitoring exercises. Site Activities	
61205 Banyan Ga	arden 5 <sup>th</sup> December 2006 (by ET Leader)	<ul> <li>(EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 5<sup>th</sup> December 2006.</li> <li>The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 29<sup>th</sup> November 2006.</li> </ul>	<ul> <li>According to RSS's record, a catchfan was moved from bay (AL-62) to (AL-58) from 22:00 to 02:00hr. Installation of catchfan at parapet bay (MS-R-74) was carried out from 00.00 to 04:00hr on 29<sup>th</sup> November 2006.</li> <li>As advised by the RSS, the Contractor has been requested to: <ul> <li>Wrapping of tools with acoustic material</li> <li>Erection of noise barrier (mill barrier with acoustic material) adjacent to isolated noise source</li> <li>Placing of hessin bags on ground to mitigate noise generated as a result of the dropping of tools on ground.</li> </ul> </li> <li>According to the RSS, there is no evidence of hammering of metals on site.</li> <li><i>Conclusion</i> Based on the information collected, the complaint is considered unjustifiable. Nevertheless, the Contractor was reminded to take sufficient noise mitigation measures to minimize the environmental impact on the nearby community: <ul> <li>To strengthen management on worker's working manner, such as avoiding dropping materials on ground;</li> <li>No hammering is allowed during restricted hours; and</li> <li>To provide adequate training to workers working, esp. for night works.</li> </ul> </li> </ul>	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
70117-1	P6 – P8 near Lai Chi Kok Road Interchange	17 <sup>th</sup> January 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 16 <sup>th</sup> January 2007 regarding noise nuisance generated from Route 8 – Lai Chi Kok Viaduct R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the ET Leader on 17 <sup>th</sup> January 2007. The complaint was concerned about noise generated from the P6 – P8 near Lai Chi Kok Road Interchange in the past months.	<ul> <li>Site Activities <ul> <li>According to RSS's record, the construction activities at the concerned area was mainly central stitch construction and parapet erection and similar works will be carried out in the concerted site in coming one month.</li> <li>The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW-RW0624-06.</li> <li>Based on the RSS's record of PME used in the concerned area from 15 November 2006 to 30 December 2006, the construction works complied with the CNP no. GW-RW0624-06.</li> <li><i>Conclusion</i></li> <li>Based on the information collected, the complaint is considered unjustifiable as the equipment used complied with the CNP conditions.</li> <li>Nevertheless, the Contractor was recommended to take further noise mitigation measures to minimize the environmental impact on the nearby community:     <ul> <li>To strengthen management on worker's working manner, such as avoiding dropping materials on ground;</li> <li>No hammering is allowed during restricted hours; and</li> </ul> </li> </ul></li></ul>	Closed
70117-2	P3 – P6 near Banyan Garden	17 <sup>th</sup> January 2007 (by ET Leader)	Environmental Protection Department (EPD) received a public complaint about environment nuisance generated from Route 8 – Lai Chi Kok Viaduct Project. EPD subsequently referred the complaint to ET Leader on 17 <sup>th</sup> January 2007. The complaint was concerned construction noise near Banyan Garden within the period of 01:00 – 02:00hr on 11 <sup>th</sup> January 2007.	Site Activities According to RSS's record, the construction activities at the concerned area was mainly central stitch construction and parapet erection and similar works will be carried out in the concerned site in coming one month. The equipment used on site during the complaint period was covered under the construction noise permit (CNP) no. GW- RW0624-06. Based on the RSS's record of PME used in the concerned area from 1 <sup>st</sup> December 2006 to 13 <sup>th</sup> January 2007, the construction	Closed

Log Ref.	Location	<b>Received Date</b>	Details of Complaint	Investigation/Mitigation Action	Status
Log Kef.	Location	Received Date	Details of Complaint	<ul> <li>works complied with the CNP no. GW-RW0624-06.</li> <li><i>Conclusion</i> Based on the information collected, the complaint is considered unjustifiable as the equipment used complied with the CNP conditions.</li> <li>Nevertheless, the Contractor was recommended to take further noise mitigation measures to minimize the environmental impact on the nearby community: <ul> <li>To strengthen management on worker's working manner, such as avoiding dropping materials on ground;</li> <li>No hammering is allowed during restricted hours; and</li> <li>To provide adequate training to workers working, esp. for</li> </ul> </li> </ul>	Status
70723	Construction site near Mei Lai Road and Tong Nai Kan College	17 <sup>th</sup> July 2007 (by ET Leader)	The Integrated Complaint Centre (ICC) of HKSAR received a public complaint through telephone on 21 July 2007 about an environment nuisance generated from Route 8 – Lai Chi Kok Viaduct (R8-LCKV) Project. Resident Site Staff (RSS) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 23 July 2007. The complaint was concerned about noise generated from the construction works near Mei Lai Road and Tong Nai Kan College.	night works.Site ActivitiesThe concerned site was likely the Slope CCR-S4 near Ching Cheung Road. A location plan is provided in Appendix A and the work programme near Slope CCR-S4 from February 2007 to September 2007 is provided in Appendix B.According to RSS's record and the above mentioned work programme, excavation and rock breaking works for slope stabilization near the Slope CCR-S4 was begun on early of July 2007 and to be completed on early of August 2007.As advised by the RSS, noise mitigation measures implemented at the concerned site include: 	Closed
				Accordance to the EM&A programme, one noise monitoring station at Mei Foo Sun Chuen, Phase 5 (NM4) was set up in	

Log Ref.	Location	<b>Received Date</b>	<b>Details of Complaint</b>	Investigation/Mitigation Action	Status
				order to monitor the noise level generated from the construction activities.	
				The noise monitoring results in the period between $3^{rd}$ and $23^{rd}$ July 2007 at Mei Foo Sun Chuen, Phase 5 are all lower than or equal to the noise criterion of 75 dB(A). No exceedance of noise level has been recorded in the above mentioned period.	
				<i>Conclusion</i> Base on the information collected and the monitoring result, the complaints are considered not justifiable.	
				It was suspected that the nuisance was caused by the breaking activities. However, the Contractor has implemented the mitigation measures to minimize the noise generation from construction activities.	