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

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

June to August 2005

Approved By	Churt
	(Environmental Teach Leader)

REMARKS:

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

CINOTECH accepts no responsibility for changes made to this report by third parties.

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EXECUTIVE SUMMARY

- This is the seventh Quarterly 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 summary report documents the findings of EM&A works performed in the period between June and August 2005 for Contract No. HY/2003/01, Route 8 Lai Chi Kok Viaduct (the Project).
- The major site activities undertaken in the reporting month included piling works, construction of pile caps and piers, bulk excavation and segment erection works.

Environmental Monitoring Works

- Environmental monitoring for the Project was performed regularly as stipulated in the EM&A Manuals and the results were checked and reviewed. Environmental 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 quarter is tabulated in **Table I**.

	No. of Ex	ceedance	No. of Events	
Parameter	Action Level	Limit Level	due to the Project	Action Taken
June 2005				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	0	0	0	N/A
July 2005	•			
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1	0	0	Complaint investigation
August 2005				
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 Quarter

Environmental Licensing and Permitting

 Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Construction Noise Permits (CNP) and Water Discharge Licenses (WDL). The Contractor had also registered as a Chemical Waste Producer.

Key Information in the Reporting Quarter

• Summary of key information in this reporting quarter is tabulated in **Table II**.

 Table II
 Summary Table for Key Information in the Reporting Quarter

Event	Eve	ent Details	A stion Taken	Status.	Domoule
Event	Number	Nature	Action Taken	Status	Remark
Complaint received	2	One on dust and one on noise	Complaint Investigation	Closed	
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 the coming quarter include:

- Utility diversions;
- Pre-drilling works;
- Piling works;
- Construction of abutment, pile caps and columns;
- Bulk excavation;
- Soil nail installation;
- Retaining wall construction;
- Drainage works;
- Segment erection; and
- Launching gantry works.

The anticipated environmental impacts will be mainly on water quality impact from surface runoff in rainy days and construction noise from slope works.

1. INTRODUCTION

- 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. 449) (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. An 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. 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 15th 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 (previously known as Route 9) 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 was appointed as the ET Leader under Condition 2.2 of the EP. Mr. David YEUNG of CH2M-IDC Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the seventh quarterly EM&A report summarizing the EM&A works for the LCKV Project between June and August 2005.

2 **PROJECT CHARACTERISTICS**

Project Organization and Contacts of Key Management

2.1 An organization structure and the line of communication were set up for the Project between the Project Proponent, Engineer's Representative (ER), Independent Environmental Checker (IEC), the Contractor and Environmental Team (ET). The organization chart and contact details are shown in **Figure 2** and **Appendix A**.

Construction Programme and Synopsis of Work

- 2.2 The construction programme is presented in **Appendix B**. The site activities during the reporting period include:
 - Utility diversions for piling works at Slip Road C and Piers D14;
 - Pre-drilling works for R6 and D9;
 - Piling works for Main Viaduct at Mui Kong Tsuen, for Slip Roads C and D;
 - Construction of abutment, pile caps and columns at Slip Roads B, C and D, Lai Wan Overpass and Main Viaduct;
 - Bulk excavation works and retaining wall construction at CCR-R1;
 - Bulk excavation works and soil nails installation at slope CCR-S1;
 - Bulk excavation works at CCR-R3;
 - Drainage works at Rest Garden area;
 - Segment erection for Main Viaduct, Slip Roads A and B;
 - In-situ construction for slip roads C and D;
 - Pre-bored H piling work at R5;
 - Bored piling work at R3;
 - Retaining wall construction for 11NW-A/C678 & CR679;
 - Launching gantry works at night.

3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

3.1 The EM&A Manuals designate locations for the ET to monitor environmental impacts in terms of noise and air quality due to the Project. The monitoring locations are depicted in **Figure 1**. **Appendix C** gives details of monitoring requirements.

Monitoring Methodology and Calibration Details

3.2 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

3.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective Event Action Plans would be implemented. The Action/Limit Levels for each environmental parameter are provided in **Appendix D**.

Environmental Mitigation Measures

3.4 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manual for the Contractor to implement. A list of mitigation measures is provided in **Appendix G**.

4 MONITORING RESULTS

Weather Conditions

4.1 The weather during monitoring sessions was mainly sunny or cloudy. The weather conditions for each individual monitoring session were presented in the field record sheets.

Air Quality

1-hr TSP Monitoring

4.2 All 1-hr TSP monitoring was conducted as scheduled in this reporting quarter. No Action / Limit Level exceedance was recorded in the reporting quarter.

24-hr TSP Monitoring

- 4.3 All 24-hr TSP monitoring was conducted as scheduled in this reporting quarter. No Action / Limit Level exceedance was recorded in the reporting quarter.
- 4.4 As observed by the monitoring team, road traffic dust from Ching Cheung Road was identified as the major dust source at the monitoring station during the monitoring.
- 4.5 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for June to August 2005. The graphical presentations of the monitoring results are shown in **Appendix E**.

Construction Noise

- 4.6 All construction noise monitoring was conducted as scheduled in this reporting quarter, except that the monitoring in the week of 20 to 25 June 2005 was cancelled due to severe rainstorms.
- 4.7 One public noise complaint was received on 21 July 2005, triggering an Action Level exceedance for construction noise. The details can refer to **Appendix I**.
- 4.8 No noise Limit Level exceedance was recorded in the reporting month.
- 4.9 At Stations NM4, NM8a and NM8b, the major noise source identified during the monitoring exercises was mainly road traffic noise. At Station NM9, construction noise from the Project was identified as the major noise source during monitoring.
- 4.10 All the Construction Noise Levels (CNLs) reported in this report 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.
- 4.11 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for June to August 2005. The graphical presentations of the monitoring results are shown in **Appendix F**.

5 ENVIRONMENTAL AUDIT

Implementation Status of Environmental Mitigation Measures

5.1 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 Environmental Mitigation Implementation Status (EMIS) is provided in **Appendix G**.

Site Audit Summary

- 5.2 ET's weekly site audits were conducted on 1, 9, 15, 22 and 29 June, 7, 14, 21 and 27 July, 5, 11, 18, 25 and 31 August 2005. IEC's monthly site audits were conducted on 9 June, 7 July and 5 August 2005 together with ET.
- 5.3 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations are summarized in **Table 5.1**.

Parameters	Date	Observations and Recommendations	Remedial Actions
Water Quality	09-Jun-05	The Contractor was recommended to provide additional desilting tank at S1.	Rectification was observed during the audit session on 15-Jun-05.
	09-Jun-05	The Contractor was reminded to clear the deposit at the desilting tank at NTMN.	Rectification was observed during the audit session on 22-Jun-05.
	07-Jul-05	The effluent discharge at NTMM was observed silty. The Contractor was recommended to improve the de- silting efficiency of the sedimentation system. Same recommendation was applied at Slope S1.	Rectification was observed during the audit session on 14-Jul-05.
	21-Jul-05	Some surface runoff was observed discharging without passing through the sedimentation tank. The contractor was reminded to provide the temporary channel to divert the runoff to the sedimentation tank before discharge.	Rectification was observed during the audit session on 27-Jul-05.
	18-Aug-05	A burst in water pipe for bored piling equipment was observed at R3. The contractor stopped the leakage immediately during the audit session. The contractor was reminded to prevent further leakage to avoid sub-standard effluent discharge into public drains.	Rectification was observed during the audit session on 25-Aug-05.

Table 5.1Observations and Recommendations of the Site Audits

Parameters	Date	Observations and Recommendations	Remedial Actions
Air Quality	14-Jul-05	Deposition of sand and silt was observed on the access road at Mui Kong Tsuen. The contractor was reminded to prevent the dust emission from the access roads.	Rectification was observed during the audit session on 21-Jul-05.
	05-Aug-05	Fugitive dust emission was observed from breaking activity at Pier D2. The Contractor was reminded to provide water spray for the work.	Rectification was observed during the audit session on 11-Aug-05.
Chemical Management	27-Jul-05	Oil leakage from an air compressor was observed at Wai Man Tsuen. The contractor was reminded to provide well maintenance for equipment.	Rectification was observed during the audit session on 05-Aug-05.
	05-Aug-05	A generator was found placing on bare ground at Pier 14. The Contractor was reminded to provide a drip tray for the generator.	Rectification was observed during the audit session on 11-Aug-05.
	05-Aug-05	Rubbish was found scattering on Slope S1. The Contractor was reminded to remove the rubbish as soon as possible and maintain good house keeping on site.	Rectification was observed during the audit session on 11-Aug-05.
	18-Aug-05	Chemical/fuel without provision of drip tray was observed at Lai Po Road. The contractor was reminded to provide a drip tray for oil spillage prevention.	Rectification was observed during the audit session on 25-Aug-05.
	25-Aug-05	Oil stained soil was observed near the wheel-washing bay at Wai Man Tsuen. The contractor was reminded to remove the oil stained soil.	Rectification was observed during the audit session on 31-Aug-05.
Others	09-Jun-05	The Contractor was reminded to clear the stand water at NTMN and Pier D11.	Rectification was observed during the audit session on 15-Jun-05.
	29-Jun-05	Stand water was observed on the surface of concrete block at Nob Hill and in the U-channel at R3. The contractor was reminded to prevent the water accumulated in rainy season.	Rectification was observed during the audit session on 07-Jul-05.
	05-Aug-05	Standing water was observed at various locations of the site (Pier 14, Piers A1 to A2 and Pier D11). The Contractor was reminded to remove the water as soon as possible and avoid standing water to prevent mosquito breeding.	Rectification was observed during the audit session on 11-Aug-05.
	31-Aug-05	Stagnant water was observed under the sub- contractor office at Lai Po Road. The contractor was reminded to avoid the standing water.	Rectification was observed during the audit session on 08-Sep-05.

Status of Environmental Licensing and Permitting

5.4 Environmental licenses and permits including the Environmental Permit for the Project were in place and valid during the reporting quarter. The status of all licenses and permits obtained for the Project is summarized in **Appendix H**.

6 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

Air Quality

6.1 No Action/Limit Level exceedance was recorded for both 1-hr and 24-hr TSP monitoring in this reporting quarter.

Construction Noise

6.2 No Limit Level exceedance was recorded in the reporting month. One Action Level exceedance was triggered by a public noise complaint received on 21 July 2005.

Review of the Reasons for and the Implications of Non-compliance

6.3 There was no non-compliance from the site audits in the reporting quarter. As mentioned previously in the Section 5.2 of this report, the observations and recommendations made in each individual site audit session were presented.

7 ENVIRONMENTAL COMPLAINTS

7.1 Two environmental related complaints were received by the ET Leader in the reporting month. The investigation results are summarized in Table 7.1.

Table 7.1 Summary of Complaints Received in the Reporting Period

Received Date	Area of Concern	Investigation	Status
07-Jun-05	Construction dust affecting Mei Foo Sun Chuen	Fugitive dust emission was observed during the breaking works at CCR-R3 on 1 June 2005. The complaint was therefore considered valid and related to the construction activities of the Project. Corrective actions, such as water spray, were immediately implemented by the Contractor. The situation was found improved in the follow-up audit session.	Closed
21-Jul-05	Construction noise near Wah Lai Estate	Ad-hoc noise measurement was carried out on the roof of Hei Lai House on 25 July 2005 and the measured noise levels were found well below the daytime construction noise criterion of 75 dB(A). The complaint was therefore considered not justifiable. Nevertheless, the Contractor would implement noise mitigation measures, such as use of quiet breakers and temporary noise barriers, in order to minimize the impact of the nearby residents.	Closed

7.2 There were 14 complaints received since the Project commencement. All complaints have been handled in accordance with the EM&A Manuals. The implementation status of the complaint handling procedure is summarized in **Appendix I**.

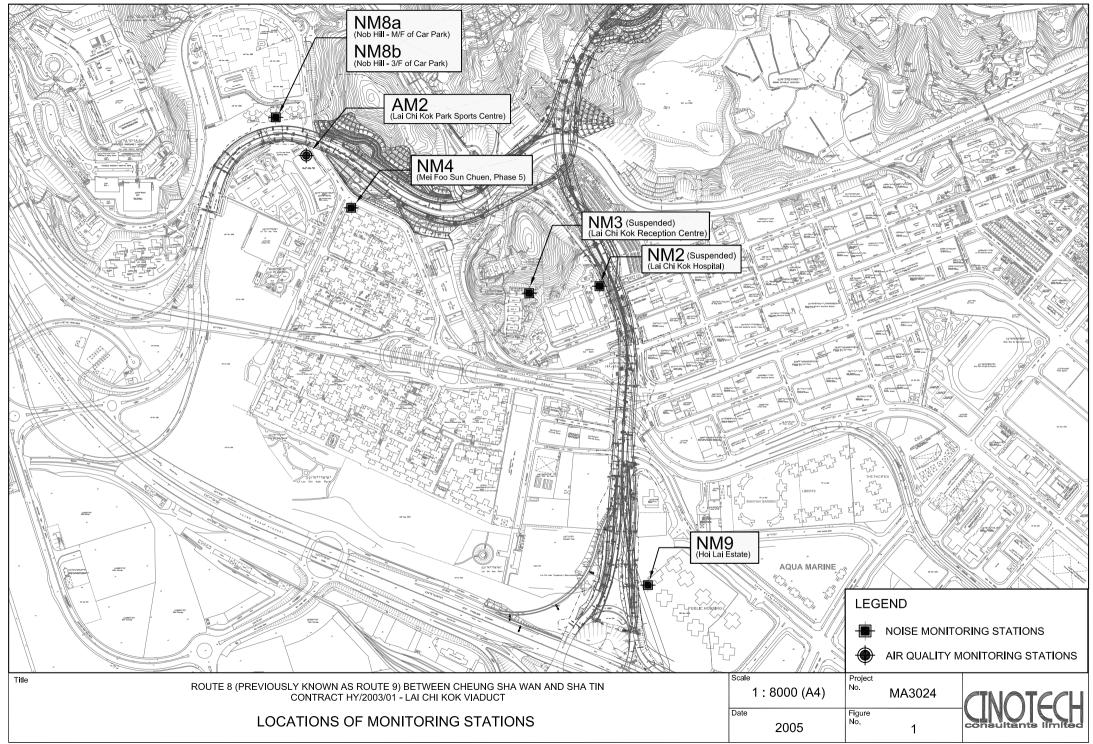
8 NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 8.1 No notification of summon or successful prosecution was recorded in this reporting quarter.
- 8.2 There was no notification of summon or successful prosecution received since the Project commencement.

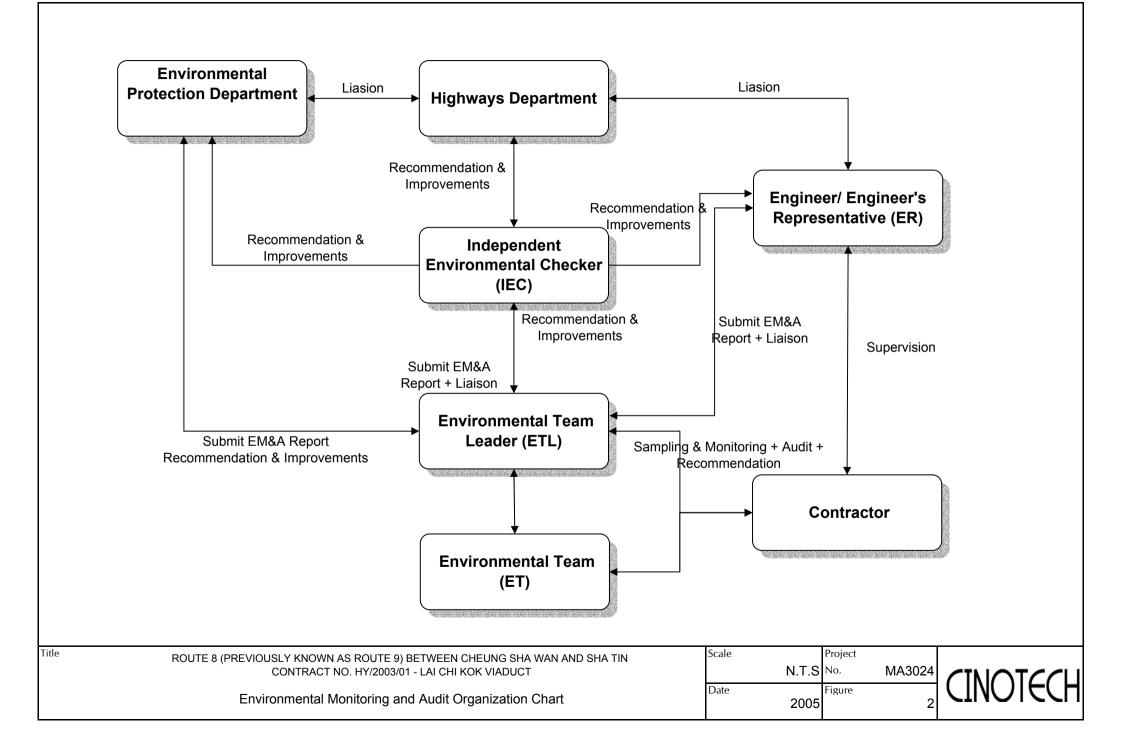
9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

- 9.1 Major site activities for the coming quarter include:
 - Utility diversions for piling works at slip road C.
 - Pre-drilling works for R6.
 - Piling works for slip road D.
 - Construction of abutment, pile caps and columns at slip roads C, D and Lai Wan Overpass and Main Viaduct.
 - Bulk excavation works and soil nails installation at slopes CCR-S1.
 - Bulk excavation works and retaining wall construction at CCR-R1.
 - Bulk excavation works at CCR-R3.
 - Drainage works at Rest Garden area.
 - Offsite fabrication of pre-cast deck segment moulds and segment casting.
 - Segment erection by lifting frame at slip road A & B.
 - Segment erection at Main Viaduct by launching gantry at night at Pier P6 and P7.
 - Bored piling work at R3.
- 9.2 The anticipated environmental impacts will be mainly on water quality impact from surface runoff in rainy days and nighttime construction noise from segment transportation and erection works.

FIGURES



F:\PROJECTS\MA3024\DRAWING\IMPACT\LCK\FIGURE 1_LAYOUT_05.DWG



APPENDIX A CONTACT DETAILS OF THE PROJECT ORGANISATION

Party	Role	Name	Position	Phone No.	Fax No.
		Mr. K.T. Lee	SE3/R9K	2762 3684	
HyD	Permit Holder	Mr. Albert Cheung	E6/R9K	2762 3598	2714 5198
		Mr. L.C. Chung	E4/R9K	2762 3613	
	Engineer	Mr. Conrad Ng	Project Manager	2605 6262	2691 2649
MHJV	En sin sen's	Mr. D.F. Lilliman	CRE	2959 0010	
MHJ V	Engineer's	Mr. Henry Liu	SRE	2991 1068	2959 0290
	Representative	Mr. Joseph Chi	RE	2991 1034	
		Dr. Priscilla Choy	The ET Leader	2151 2089	
Cinotech	Environmental Team	Mr. KK Chan	Audit Team Leader	2151 2077	3107 1388
	Team	Mr. Henry Leung	Monitoring Team Leader	2151 2087	
	Independent	Mr. David Yeung	Independent Environmental Checker	2872 2934	2507 2202
CH2M-IDC	Environmental Checker	Mr. Billy Yu	Assistant Independent Environmental Checker	2872 2949	2507 2293
		Mr. Rafael Rubio	Project Director		
NECSO	Contractor	Mr. Lawrence Kwok	QA/E Manager	2956 3300	2956 3331
24-hour Emer	gency Hotline			2370 9200	-

Appendix A - Contact Details of the Project Organisation (LCKV)

APPENDIX B CONSTRUCTION PROGRAMME

Activity	Activity	Orig.	Early	Early	Late	Late		1.1.1		PP-05-00	200		S. Barr			
ID	Description	Durn.	Start	Finish	Start	Finish	JUL	1 0	AUG	0.00	-	SEP	40.00		OCT	
Procuren	AND THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW	Durin	otart	THION	otart	THION	18 25	1 8	15	2 29	5	12	19 20	> 3	10 1	1 24
	Deck Casting (Type A Units)								1 1							
SD2600	P12/L (North)-Up - Cast 7 segs Type A	12	20JUL05	01AUG05	24MAR04	06APR04		SD2600								
SD2600A	P12/L (North)-Down - Cast 7 segs Type A	12	02AUG05	15AUG05	07APR04	20APR04	-	002000	SD26	00.4		1 1				
SD2600B	P12/R (South)-Up - Cast 6 segs Type A	10	04AUG05	15AUG05	08MAY04	19MAY04		1	SD26			1 1			1	
SD2600C	P12/R (South)-Down - Cast 6 segs Type A	10	09AUG05	19AUG05	08MAY04	19MAY04				2600C			1			
SD2610A	P13/L (North)-Down - Cast 16 seg Type A	25	27JUN05A	08AUG05	27JUN05A	28APR04		SD	2610A	20000			1			
SD2610B	P13/R (South)-Up - Cast 17 seg Type A	27	06JUL05A	03AUG05	06JUL05A	20APR04		SD261				1 1	- 1		1	
SD2610C	P13/R (South)-Down - Cast 17 seg Type A	27	30JUN05A	30JUL05	30JUN05A	19MAY04		SD2610C						6		
SD26100	P14/L (North)-Up - Cast 11 seg Type A	18	09AUG05	28AUG05	29APR04	19MAY04			1	sn	2620				1	
SD2620A	P14/L (North)-Down - Cast 11 seg Type A	18	16AUG05	03SEP05	21APR04	11MAY04					SD26	204				
SD2620A	P14/R (South)-Up - Cast 10 seg Type A	16	29AUG05	15SEP05	20MAY04	07JUN04					-0020	1	2620B			
SD2620B	P14/R (South)-Down - Cast 10 seg Type A	16	29AUG05	06SEP05	20MAY04	07JUN04					Isp	2620C	20200			
SD26200	P15/L (North)-Up - Cast 16 seg Type A	25	05SEP05	030CT05	12MAY04	09JUN04						20200		S	2630	
SD2630A	P15/L (North)-Down - Cast 16 seg Type A	25	16SEP05	140CT05	08JUN04	06JUL04			1 1	- 1			1	-00	-	2630A
SD2630B	P15/R (South)-Up - Cast 16 seg Type A	25	07SEP05	05OCT05	08JUN04	06JUL04			1 1			1		-	D2630B	2000
SD2630C	P15/R (South)-Down - Cast 16 seg Type A	25	04OCT05	310CT05	10JUN04	08JUL04			1 1		_	1	SD26		DLOOUD	
SD26300	P16/L (North)-Up - Cast 6 seg Type A	11	150CT05	260CT05	07JUL04	19JUL04			+ +	-					D2640	-
SD2640A	P16/L (North)-Down - Cast 6 seg Type A	11	06OCT05	180CT05	07JUL04	19JUL04			1 1						1	SD264
SD2640A	P16/R (South)-Down - Cast 4 seg Type A	7	190CT05	250CT05	20JUL04	27JUL04		1	1 1	-					SD26400	
P	I Deck Casting (Type B Units)	,	1300103	2000100	2000104	2750104					-			1		-
SD3290	PA/L (North) - Cast 9 seg Type B	12	31JUL05	12AUG05	31MAR04	13APR04			SD3290							
SD3290	B1-Down - Cast 15 seg Type B	20	28JUN05A	26JUL05	28JUN05A	16JUN04	SD2	180A	303290							2
SD3160A		17	12JUL05A	26JUL05 30JUL05	12JUL05A	30MAR04		SD3260	1 1							
SD3260 SD3260A	B2-Up - Cast 12 seg Type B		20JUL05A	05AUG05	12JUL05A			SD3260	604			1 1			1 1	- 1
SD3200A	B2-Down - Cast 12 seg Type B	16	20JUL05		17JUN04	01JUN04		13032	SD32	70					1 1	
SD3270 SD3270A	B3-Up - Cast 15 seg Type B B3-Down - Cast 15 seg Type B	19 19	15JUL05A	16AUG05 01AUG05	15JUL05A	08JUL04		SD3270A		.70			-			
SD3270A	• //	19	02AUG05	19AUG05	06MAY04	05MAY04 24MAY04		5032704	1 1	03300		1 1	1		1 1	į.
SD3300	P5/R-Up (South) - Cast 12 seg Type B	16	02AUG05 06AUG05	24AUG05	10JUL04	24MAY04 28JUL04	-			SD328	0			i.		
SD3280A	P5/R (B4) Slip B-Up - Cast 12 seg Type B	16	17AUG05	02SEP05	29JUL04	16AUG04	-			130320	SD328	0.0				-
SD3260A SD3350	P5/R (B4) Slip B-Down - Cast 12 seg Type B	28		20SEP05	25MAY04						130320	NUA I	SD335	0	1	
SD3350	D10 - Cast 22 seg Type B	11	20AUG05 13AUG05	20SEP05 25AUG05	31AUG04	25JUN04 11SEP04			-	SD33	60		30333		-	-
SD3360 SD3310	D9 - Cast 8 seg Type B P17 Slip C - Cast 18 seg Type B	23	13AUG05 25AUG05	25AUG05 19SEP05	29JUL04	24AUG04	-		1	-5055		1 1	SD3310			
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art Date hish Date ta Date	23SEP03 F 15MAY08 20JUL05 © Primavera Systems, Inc.	P3 File : LU22	lighways D Ro	ute 8 - Lai nonth Ro	t Contract Chi Kok V Iling Progr 0 July 200	amme	Sheet 7 03/01	1 of 19		ľ				50	2	

Activity Description		Early	Early	Late	Late		and a state of the	a state of the second			2005					
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6 Slip C - Cast 3 seg Type B	5	21SEP05	25SEP05	26JUN04	01JUL04	10 23		15	66	23	5	12		3320	10 1	1 24
18 Slip D - Cast 24 seg Type B	30	26SEP05	29OCT05	02JUL04	05AUG04	-		1	1			SI	3330	-	1	-
18 Slip C - Cast 28 segs Type B	35	20SEP05	280CT05	25AUG04	04OCT04						5	SD3340		-		
8 - Cast 30 seg Type B	37	21SEP05	01NOV05	30AUG04	110CT04							SD337	0	Him	-	and the second
7 - Cast 18 seg Type B	23	26AUG05	20SEP05	13SEP04	08OCT04				1	1	-		SD338	0		
6 - Cast 16 seg Type B	20	21SEP05	13OCT05	09OCT04	30OCT04				1		1			-	SD3	390
2 - Cast 26 seg Type B	32	14OCT05	18NOV05	03NOV04	08DEC04			1	1	1				SD	3430	
ck Casting (Type C Units)									1	1	1					1
A/R (South) - Cast 9 seg Type C	11	31JUL05	11AUG05	16APR04	28APR04			SD321	0	1	1					
3/R (South) - Cast 24 seg Type C	29	15JUN05A	30JUL05	15JUN05A	15APR04		SD3240	1	1		1					1
4/R (South) - Cast 30 seg Type C	36	12AUG05	21SEP05	29APR04	09JUN04								SD323	30		
5/R (South)-Down - Cast 12 seg Type C	15	22SEP05	08OCT05	09JUL04	26JUL04								and the second second		SD3220	
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et Panel Casting											-					
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asting Type II Parapet Units 1 - 265	70	02SEP05	25NOV05	03MAR05	25MAY05				PP2	2100				-	H	
asting Type V Parapet Units 1 - 180	70	16SEP05	09DEC05	09APR05	02JUL05						PP2	400			X	
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esign - Engineer's Review & Approval	60	07SEP05	05NOV05	20MAR05	18MAY05					NB10	25			-		
ff-Site Manufacturing of Panels - PA to P8	60	07SEP05	18NOV05	28JAN05	12APR05				1	NB10	40		-	-	X	
etailed Design & Shop Drawings	60	16JAN04A	29JUL05	16JAN04A	23APR04		BE1010				1					
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ff-Site Manufacturing of Bearings	70	07SEP04A	12OCT05	07SEP04A	05JUN04				and the second	-	-		1. 18 A. 17 A.	-	HBE10	30
ngineer's Approval of Bearings Before Delivery	42	20JUL05	12OCT05	15MAR04	05JUN04									-	BE10	35
rial of Bearing Installation Method	10	20JUL05	30JUL05	23MAR04	02APR04		BE1050	1	1							
	18 Slip C - Cast 28 segs Type B 8 - Cast 30 seg Type B 7 - Cast 18 seg Type B 6 - Cast 16 seg Type B 2 - Cast 26 seg Type B ck Casting (Type C Units) A/R (South) - Cast 9 seg Type C 3/R (South) - Cast 30 seg Type C 3/R (South) - Cast 30 seg Type C 5/R (South) - Cast 30 seg Type C 5/R (South) - Cast 30 seg Type C tet Panel Casting Cells asting Cells - Engineer's Review & Approval asting Cells - Engineer's Review & Approval asting Cells - Engineer's Review & Approval asting Cells - Deliver to Casting Yard asting Cells - Deliver to Casting Yard asting Type I Parapet Units 1 - 265 asting Type I Parapet Units 1 - 265 asting Type V Parapet Units 1 - 180 s & Encls' Not Subject to Excision etailed Design hop Drawings esign - Engineer's Review & Approval ff-Site Manufacturing of Panels - PA to P8 etailed Design & Shop Drawings eview & Approval of Design & Shop Drawings ff-Site Manufacturing of Bearings ngineer's Approval of Bearings ngineer's Approval of Bearings Before Delivery	18 Slip C - Cast 28 segs Type B 35 8 - Cast 30 seg Type B 37 7 - Cast 18 seg Type B 23 6 - Cast 16 seg Type B 20 2 - Cast 26 seg Type B 32 ck Casting (Type C Units) 37 A/R (South) - Cast 9 seg Type C 11 3/R (South) - Cast 9 seg Type C 29 4/R (South) - Cast 30 seg Type C 36 5/R (South) - Cast 30 seg Type C 36 5/R (South) - Cast 30 seg Type C 36 5/R (South) - Cast 30 seg Type C 36 5/R (South) - Cast 30 seg Type C 15 et Panel Casting Cells 24 asting Cells - Engineer's Review & Approval 24 asting Cells - Deliver to Casting Yard 12 asting Cells - Deliver to Casting Yard 12 asting Type I Parapet Units 1 - 265 70 asting Type V Parapet Units 1 - 265 70 asting Type V Parapet Units 1 - 180 70 s & Encls' Not Subject to Excision 24 esign - Engineer's Review & Approval 60 ff-Site Manufacturing of Panels - PA to P8 60 eview & Approval of Design & Shop Drawings 60 </td <td>18 Slip C - Cast 28 segs Type B3520SEP058 - Cast 30 seg Type B3721SEP057 - Cast 18 seg Type B2326AUG056 - Cast 16 seg Type B2021SEP052 - Cast 26 seg Type B3214OCT05ck Casting (Type C Units)</td> <td>18 Slip C - Cast 28 segs Type B 35 20SEP05 28OCT05 8 - Cast 30 seg Type B 37 21SEP05 01NOV05 7 - Cast 18 seg Type B 23 26AUG05 20SEP05 6 - Cast 16 seg Type B 20 21SEP05 13OCT05 2 - Cast 26 seg Type B 32 14OCT05 18NOV05 ck Casting (Type C Units) </td> <td>18 Slip C - Cast 28 segs Type B 35 20SEP05 28OCT05 25AUG04 8 - Cast 30 seg Type B 37 21SEP05 01NOV05 30AUG04 7 - Cast 18 seg Type B 23 26AUG05 20SEP05 13SEP04 6 - Cast 16 seg Type B 20 21SEP05 13OCT05 09OCT04 2 - Cast 26 seg Type B 32 14OCT05 18NOV05 03NOV04 ck Casting (Type C Units) </td> <td>18 Slip C - Cast 28 segs Type B 35 20SEP05 28OCT05 25AUG04 04OCT04 8 - Cast 30 seg Type B 37 21SEP05 01NOV05 30AUG04 11OCT04 7 - Cast 18 seg Type B 23 26AUG05 20SEP05 13SEP04 08OCT04 6 - Cast 16 seg Type B 20 21SEP05 13OCT05 09OCT04 30OCT04 2 - Cast 26 seg Type B 32 14OCT05 18NOV05 03NOV04 08DEC04 ck Casting (Type C Units) Arr South) - Cast 24 seg Type C 11 31JUL05 11AUG05 16APR04 28APR04 3/R (South) - Cast 30 seg Type C 15 22SEP05 08OCT05 09JUN04 26JUL04 eter Panel Casting Cells - 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Cast 28 seg Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340</td><td>18 Silp C - Cast 28 ages Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340 8 - Cast 30 age Type B 37 21SEP05 01NOV05 30AUG04 110CT04 SD3340 SD3380 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 30OCT04 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 SD3340 SD3380 2 - Cast 26 age Type B 32 14ACT05 18NOV05 30SOV04 08ECC04 SD3320 SD3330 SD3320 SD3320 SD3320 SD3320 SD</td></td></td>	18 Slip C - Cast 28 segs Type B3520SEP058 - Cast 30 seg Type B3721SEP057 - Cast 18 seg Type B2326AUG056 - Cast 16 seg Type B2021SEP052 - Cast 26 seg Type B3214OCT05ck Casting (Type C Units)	18 Slip C - Cast 28 segs Type B 35 20SEP05 28OCT05 8 - Cast 30 seg Type B 37 21SEP05 01NOV05 7 - Cast 18 seg Type B 23 26AUG05 20SEP05 6 - Cast 16 seg Type B 20 21SEP05 13OCT05 2 - Cast 26 seg Type B 32 14OCT05 18NOV05 ck Casting (Type C Units)	18 Slip C - Cast 28 segs Type B 35 20SEP05 28OCT05 25AUG04 8 - Cast 30 seg Type B 37 21SEP05 01NOV05 30AUG04 7 - 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Cast 12 seg Type C 15 22SEP05 08OCT05 09JUN04 28JUL04 SD3240 seging cells - Engineer's Review & Approval 24 09JUN05A 09JUN05A 29JAN05 03JAN05 29JAN05 asting Cells - Engineer's Review & Approval 12 17AUG05 30AUC05 13/AN05 18FEB05 19FEB05 18FEB05 19FEB05 18FEB05 19FEB05 18FEB05 19FEB05 19FEB05 13MAY05 23MAY05A	18 Slip C - Cast 28 segs Type B 35 20SEP05 28AUG04 04OCT04 8 - Cast 18 seg Type B 37 21SEP05 01NOV05 30AUG04 11OCT04 7 - Cast 18 seg Type B 23 26AUG05 20SEP05 13SEP04 08OCT04 6 - Cast 16 seg Type B 23 26AUG05 20SEP05 13SECT05 08OCT04 2 - Cast 28 seg Type B 32 14OCT05 18NOV05 09OCT04 08OCT04 2 - Cast 28 seg Type C 11 31JUL05 11AUG05 16APR04 28APR04 4/R (South) - Cast 39 seg Type C 11 31JUL05 15JUN05A 30JUL04 28JUL04 4/R (South) - Cast 12 seg Type C 15 22SEP05 08OCT05 09JUN04 28JUL04 et Panel Casting Cells - Engineer's Review & Approval 24 0JUN05A 04AUG05 03JAN05 29JAN05 18FEB05 asting Cells - Engineer's Review & Approval 12 17AUG05 30AUG05 31AN05 18FEB05 18FEB05 asting Type I Parapet Units 1 - 285 70 02SEP05 25NOV05 03MAR05 25MAV05 92HO15 et Panel Casting 23 <td>18 Slip C - Cast 28 segs Type B 36 20SEP05 280CT05 25AUG04 040CT04 8 - Cast 30 seg Type B 37 21SEP05 01NOVD5 30AUG04 110CT04 7 - Cast 18 seg Type B 23 26AUG06 20SEP05 13SEP04 080CT04 6 - Cast 35 geg Type B 20 21SEP05 03NOV04 080CT04 080CT04 2 - Cast 28 seg Type B 32 140CT05 18NOV05 03NOV04 08DEC04 2 - Cast 28 seg Type C 13JUL05 11AUG05 16APR04 28APR04 503Z400 3/R (South) - Cast 24 seg Type C 29 15JUN05A 30JUL05 15JUN05A 15JUN05A 15JUN05A 15JUN05A 15JUN05A 03JUN04 5/R (South) - Cast 12 seg Type C 15 22SEP05 08JUN05A 24JUN05 18AUG05 03JUN04 5D3Z40 sting Cells - Engineer's Review & Approval 24 09JUN05A 04JUG05 03JUN05A 24JUN05 18AUG05 03JAN05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 13AN705 18FEB05 13AN705 18FEB05 <</td> <td>18 Slip C - Cast 28 segs Type B 35 20SEP05 28AUG04 04OCT04 04OUT04 04OUT04 04OUT04 04OUT04 04OUT04 04OUT04 04OUT04</td> <td>18 Slip C - Cast 28 segs Type B 35 20SEP05 28AUG05 28AUG04 04OCT04 04OCT04 8 - Cast 30 seg Type B 37 21SEP05 01NOV05 30AUG04 11OCT04 SD3370 6 - Cast 30 seg Type B 32 22AUG05 20SEP05 33OCT04 00SCCT04 30OCT04 2 - Cast 28 seg Type B 32 14OCT05 13OCT05 03ONCV4 0SOCT04 30OCT04 2 - Cast 28 seg Type C 11 31JUL05 11AUG05 16APR04 28APR04 28APR04 3/R (South) - Cast 38 seg Type C 15 31SUD55 23APR04 05AUN04 28AUR05 503210 3/R (South) - Cast 12 seg Type C 15 22SEP05 08OCT05 03UN04 28UN04 40AUR05 503240 503240 503240 3/R (South) - Cast 12 seg Type C 15 22SEP05 08UN045 28UN05 03UN04 28UN05 30AUG05 18AUG05 03UN05 28UN05 30AUG05 18HOG05 28UN05 30AUG05 18HOG05 28UN05 18HOG05 28UN05 18HOG05 28UN05 19P1030 PP1030 PP1030 PP1030 PP1030<td>18 Slip C - Cast 28 seg Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340</td><td>18 Silp C - Cast 28 ages Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340 8 - Cast 30 age Type B 37 21SEP05 01NOV05 30AUG04 110CT04 SD3340 SD3380 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 30OCT04 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 SD3340 SD3380 2 - Cast 26 age Type B 32 14ACT05 18NOV05 30SOV04 08ECC04 SD3320 SD3330 SD3320 SD3320 SD3320 SD3320 SD</td></td>	18 Slip C - Cast 28 segs Type B 36 20SEP05 280CT05 25AUG04 040CT04 8 - Cast 30 seg Type B 37 21SEP05 01NOVD5 30AUG04 110CT04 7 - Cast 18 seg Type B 23 26AUG06 20SEP05 13SEP04 080CT04 6 - Cast 35 geg Type B 20 21SEP05 03NOV04 080CT04 080CT04 2 - Cast 28 seg Type B 32 140CT05 18NOV05 03NOV04 08DEC04 2 - Cast 28 seg Type C 13JUL05 11AUG05 16APR04 28APR04 503Z400 3/R (South) - Cast 24 seg Type C 29 15JUN05A 30JUL05 15JUN05A 15JUN05A 15JUN05A 15JUN05A 15JUN05A 03JUN04 5/R (South) - Cast 12 seg Type C 15 22SEP05 08JUN05A 24JUN05 18AUG05 03JUN04 5D3Z40 sting Cells - Engineer's Review & Approval 24 09JUN05A 04JUG05 03JUN05A 24JUN05 18AUG05 03JAN05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 18FEB05 13AN705 18FEB05 13AN705 18FEB05 <	18 Slip C - Cast 28 segs Type B 35 20SEP05 28AUG04 04OCT04 04OUT04 04OUT04 04OUT04 04OUT04 04OUT04 04OUT04 04OUT04	18 Slip C - Cast 28 segs Type B 35 20SEP05 28AUG05 28AUG04 04OCT04 04OCT04 8 - Cast 30 seg Type B 37 21SEP05 01NOV05 30AUG04 11OCT04 SD3370 6 - Cast 30 seg Type B 32 22AUG05 20SEP05 33OCT04 00SCCT04 30OCT04 2 - Cast 28 seg Type B 32 14OCT05 13OCT05 03ONCV4 0SOCT04 30OCT04 2 - Cast 28 seg Type C 11 31JUL05 11AUG05 16APR04 28APR04 28APR04 3/R (South) - Cast 38 seg Type C 15 31SUD55 23APR04 05AUN04 28AUR05 503210 3/R (South) - Cast 12 seg Type C 15 22SEP05 08OCT05 03UN04 28UN04 40AUR05 503240 503240 503240 3/R (South) - Cast 12 seg Type C 15 22SEP05 08UN045 28UN05 03UN04 28UN05 30AUG05 18AUG05 03UN05 28UN05 30AUG05 18HOG05 28UN05 30AUG05 18HOG05 28UN05 18HOG05 28UN05 18HOG05 28UN05 19P1030 PP1030 PP1030 PP1030 PP1030 <td>18 Slip C - Cast 28 seg Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340</td> <td>18 Silp C - Cast 28 ages Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340 8 - Cast 30 age Type B 37 21SEP05 01NOV05 30AUG04 110CT04 SD3340 SD3380 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 30OCT04 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 SD3340 SD3380 2 - Cast 26 age Type B 32 14ACT05 18NOV05 30SOV04 08ECC04 SD3320 SD3330 SD3320 SD3320 SD3320 SD3320 SD</td>	18 Slip C - Cast 28 seg Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340	18 Silp C - Cast 28 ages Type B 35 20SEP05 28AUG04 04OCT04 SD3340 SD3340 8 - Cast 30 age Type B 37 21SEP05 01NOV05 30AUG04 110CT04 SD3340 SD3380 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 30OCT04 6 - Cast 16 age Type B 20 21SEP05 13SOT05 09OCT04 30OCT04 SD3340 SD3380 2 - Cast 26 age Type B 32 14ACT05 18NOV05 30SOV04 08ECC04 SD3320 SD3330 SD3320 SD3320 SD3320 SD3320 SD

Activity	Activity	Orig.	Early	Early	Late	Late	a stall a sold		-Di ziezh	200	5	and the second s
ID	Description	Durn.	Start	Finish	Start	Finish	JUL	AUG		_	SEP	OCT
Movement			otart		otart	· · ······	18 25 1	8 15	22 29	5	12 19 26	5 3 10 17
MJ1000	Award of Sub-contract	0	20JUL05		22DEC05	1	MJ1000					
MJ1005	Engineer's approval of Proprietary Type of M.J	0	17AUG05		21JAN06			OM.	J1005			
MJ1010	Detailed Design & Shop Drawings	75	17AUG05	15NOV05	21JAN06	22APR06		MJ1010				
Signage	Dotaliou Dosign & Oriop Drawingo	10	IIIAOOOO	10110700	210/1100	22/11/100						
SG1000	Sign Gantries - Award of Sub-contract	0	20JUL05		27OCT04	1	SG1000					
SG1010	Sign Gantries - Detailed Design & Shop Drawings	75	20JUL05	18OCT05	29MAR05	27JUN05			1 1			SG1
SG1020	Sign Gantries - Review/Appro of Design & S/Dwgs.	24	19OCT05	15NOV05	28JUN05	26JUL05		1	1 1	1		SG1020
SG2000	Signage - Award of Sub-contract	0	16SEP05	15140705	24DEC04	2030105	-		1 1		♦ \$G2000	001020
SG2000	Signage - Shop Drawings	50	16SEP05	16NOV05	24DEC04 24DEC04	25FEB05		1.11	1 1	SG	2010	المسالمي المسالم
		50	103EP05	1010/005	Z4DEC04	ZOFEDUD			+ +	00		
High Mast		40	20 11 11 05*	13SEP05	48.11.10.05	11AUG05			1 1		HM1000	
HM1000 HM1010	High Mast Lighting - Foundation Design	48	20JUL05*	13SEP05 14OCT05	16JUN05 04NOV05	01DEC05	-					5 5 HM1010
	High Mast Lighting - Approval of Found'n Design	24	14SEP05									
HM1100	High Mast Lighting - Mast Design & Shop Drawings	48	17AUG05	140CT05	15JUL05	08SEP05			1	1	1 1 1	HM1110
HM1110	High Mast Lighting - Approval of Mast Design	56	15OCT05	09DEC05	09SEP05	03NOV05						HMITTO
Viaduct -	Main Line - Piers PA to P6	and war at										
Substructu	ire								1 1	i		
MS0100	PA/L - Install Bearings	6	20JUL05	26JUL05	27APR04	04MAY04	MS010	0				
MS0110	PA/R - Install Bearings	6	27JUL05	02AUG05	26MAY04	01JUN04		MS0110	1 1	1		
MS1116	P1/R (S) - Remove Temp. Props for Spans - Towers	4	14OCT05	180CT05	21SEP05	24SEP05		1	1 1	1		MS1
MS1118	P1/R (S) - Remove Temp. Props for Spans - Towers	24	19OCT05	15NOV05	26SEP05	25OCT05						MS1118
MS1240	P2/R - Upper Portal Frame (P2/R & B1)	24	20JUL05	16AUG05	14JUN04	13JUL04		MS	1240			
MS1245	P2/R - Upper Portal Frame - Cure & Strke F/work	14	17AUG05	01SEP05	14JUL04	29JUL04				M\$124	5	
MS1370	B2 - Upper Portal Frame (P3/R & B2)	24	11MAY05A	30JUL05	11MAY05A	11MAY04	MS	1370				
MS1375	B2 - Upper Portal Frame - Cure & Strike F/work	14	01AUG05	16AUG05	12MAY04	27MAY04		MS	1375			
Main Line -	- Segmental Deck Construction (Crane)											
MD1115	P2/L (North) - 28 seg Type B	14	30MAY05A	22JUL05	30MAY05A	22JUN05	MD1115					
MD1125	P1/L (North) - 22 seg Type B	11	12JUL05A	01AUG05	12JUL05A	04MAY04	M	D1125		1		
MD1127	P1/L - P2/L (North) Insitu Stitch	3	02AUG05	04AUG05	23JUN05	25JUN05		MD1127	1 1			
MD1130	PA/L (North) - 9 seg Type B on scaff	6	02SEP05	08SEP05	05MAY04	11MAY04			1 1		ND1130	1 1 -1
MD1135	PA/L -P1/L (North) Insitu Stitch	3	09SEP05	12SEP05	23JUN05	25JUN05					MD1135	
MD1050	P1/R (South) - 1st. Pair - 2 seg Type C	3	09SEP05	12SEP05	12MAY04	14MAY04					MD1050	
MD1055	P1/R (South) - 30 seg Type C	15	13SEP05	30SEP05	15MAY04	01JUN04			1			MD1055
irt Date ish Date ta Date	© Primavera Systems, Inc.	File : LU22	lighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progr 0 July 200	'iaduct amme	Sheet 3 c 03/01	f 19	1			50

Activity	Activity	Orig.	Early	Early	Late	Late	Le mante de la	1 3 E 78	and and the	1. C. Y		2005						
ID	Description	Durn.	Start	Finish	Start	Finish	JUL	1 8	AUG	00		-	SE		00	-	OCT	-
AD1060	PA/R (South) - 9 seg Type C on scaff	6	03OCT05	08OCT05	02JUN04	08JUN04	18 25	1 8	15	22	29	5	12	19	26		10 17 AD1060	24
/D1062	PA/R - P1/R (South) Insitu Stitch	3	10OCT05	130CT05	09JUN04	11JUN04								1	1		HMD10	62
1D1090	P4/L (North) - 1st. Pair - 2 seg Type B	6	14OCT05	20OCT05	11AUG05	17AUG05								1	1			MD10
ID1105	P3/L (North) - 22 seg Type B	15	13JUL05A	02AUG05	13JUL05A	13JUL04		MD110	5									
1D1106	P2/L - P3/L (North) Insitu stitch	3	03AUG05	05AUG05	03AUG05	05AUG05		MD1	106						2			
/D1040	P2/R (South) - 1st. Pair - 2 seg Type C	6	12SEP05	17SEP05	30JUL04	05AUG04								MD10	40			
1D1045	P2/R (South) - 26 seg Type C	11	20SEP05	03OCT05	06AUG04	18AUG04									-	MD10	045	
1D1000	P5/R (B4) Slip B - 1st. Pair - 2 seg Type B	4	04OCT05	07OCT05	19AUG04	23AUG04			1	1		1 1		1	i.	M	D1000	1
/D1005	P5/R (B4) Slip B - 22 seg Type B	8	08OCT05	18OCT05	03JUN05	13JUN05			1	1		1		1	1		H	D100
/D1007	P5/R (B4) Slip B - P6 Slip B Insitu Stitch	3	19OCT05	210CT05	14JUN05	16JUN05			1	1		1		1	1	5 1	ID1007	
Main Line -	- Segmental Deck Const'n (Lift Frames)	-													1			
1D1030	P3/R (South) - 1st. pair - 2 seg Type C	6	20AUG05	26AUG05	28MAY04	03JUN04				N	D103	30					E.	Į.
1D1032	P3/R (South) - 22 seg Type C	9	27AUG05	06SEP05	04JUN04	14JUN04						MD1	032					5
MD1036	P2/R - P3/R (South) Insitu Stitch	3	04OCT05	06OCT05	04AUG05	06AUG05										M	01036	
/D1065	P1/R - P2/R (South) Instiu Stitch	3	04OCT05	06OCT05	22JUN05	24JUN05				1					÷			
Main Line -	- Segmental Deck Construction (Gantry)					12.001100	100		1	1				1		1		1
/D1197	P6 Slip A - P5/L Slip A Insitu Stitch	3	02JUL05A	20JUL05	02JUL05A	30AUG05	MD1197							1				
/D1199	P5L (North) - P6/L (North) Insitu Stitch	3	21JUL05	23JUL05	31AUG05	02SEP05	MD119	9	1			1 1						i.
Superstruc	ture Finishing Works Required for TCSS	-				10202.00			-	-				-				+
MF1000	PA to P6 - Parapets PA/L to P3/L (incl earthing)	58	18OCT05	23DEC05	27JUN05	02SEP05			1					1		N	F1000	_i_
	Slip Road A	00	1000100	LODLOOD	21001100	OZOLI OO			-	-	-	1		-	1			-
		Time All Section 199			and the second													
Substructu																		
AS1050	Abutment A - Install Bearings	2	27JUL05	28JUL05	14MAY08	15MAY08	□ AS	\$1050	_			-	_	1				-
	cture Finishing Works Required for TCSS				<			ł.				1 1		1				-
AF1010	Slip Rd. A -Parapets Eastern Face (incl earthing	50	03OCT05	30NOV05	16JUL05	12SEP05				_				F	AF101	0	×	
'iaduct -	Slip Road B							1	1	1		1		1	1	1 1	l l	
Substructu	ire											1		1 -			1	
3S1050	Abutment B - Install Bearings	6	20JUL05	26JUL05	05JUN04	11JUN04	BS1	050		ļ				1				
BS1210	B3 - Pier Insitu Deck Segment	30	28APR05A	12AUG05	28APR05A	06JUL04			BS121	D				1	8			
3S1215	B3 - Pier Head - Cure & Strike Fmwk/Falsework	12	13AUG05	26AUG05	07JUL04	20JUL04				В	S121	15						
Slip Road B	B -Segmental Deck Construction (Crane)											1						
3D1000	Abut B - 3 seg Type B on scaff	2	14OCT05	15OCT05	12JUN04	14JUN04											BD1	000
BS1050 BS1210 BS1215	Abutment B - Install Bearings B3 - Pier Insitu Deck Segment B3 - Pier Head - Cure & Strike Fmwk/Falsework B -Segmental Deck Construction (Crane)	30 12	28APR05A 13AUG05	12AUG05 26AUG05	28APR05A 07JUL04	06JUL04 20JUL04	BS1	050	BS121	1	S121	15					BD1	0
																		-
art Date hish Date ta Date	23SEP03 15MAY08 20JUL05 © Primavera Systems, Inc.		ighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progr 0 July 200	amme	Sheet 4 3/01	4 of 19			r	ne	2	9	S	C)	

Activity	Activity	Orig.	Early	Early	Late	Late	and the second second	Deletion of the	State -	2005			ALC: YES	20133
ID	Description	Durn.	Start	Finish	Start	Finish	JUL 18 25 1	AUG 8 15 2	2 20		SEP	26 3	OC 3 10	T 17 24
3D1005	Abut B - B1 Insitu Stitch	3	17OCT05	19OCT05	14JUN05	16JUN05	10 23 1	0 10 2	2 23	3	12 19	20 0		BD100
BD1010	B1 - 1st. Pair - 2 seg Type B	4	03AUG05	06AUG05	14JUL04	17JUL04		BD1010						
BD1015	B1 - 28 seg Type B	10	11AUG05	22AUG05	19JUL04	29JUL04			BD101	5				
BD1020	B2 - 1st. Pair - 2 seg Type B	4	17OCT05	20OCT05	15JUN04	18JUN04								BD102
At Grade	Works - Lai Po Road					and the						11		
Temporary	Traffic Management Schemes													1 1
NT2020	TTMS Deck Erection over Rd G - Roadworks Advice	6	20JUL05	26JUL05	17APR08	23APR08	WT2020)						
WT2030	TTMS Deck Erection over Rd G - Site Preparation	18	27JUL05	16AUG05	24APR08	15MAY08		WT20	30					
WT2040	TTMS Deck Erection over Rd G - Implementation	66*	18MAY05A	04AUG05	18MAY05A	25JUN05		WT2040						
WT2100	TTMS Deck Erect'n @ Rd D N/B -Prepare for Review	18	20JUL05	09AUG05	03MAY04	22MAY04		WT2100						
WT2110	TTMS Deck Erect'n @ Rd D N/B - CRE Endorsement	6	22AUG05	27AUG05	24APR08	30APR08			w	2110				
WT2120	TTMS Deck Erect'n @ Rd D N/B - Roadworks Advice	6	29AUG05	03SEP05	02MAY08	08MAY08				WT212	20			
WT2130	TTMS Deck Erect'n @ Rd D N/B - Site Preparation	6	05SEP05	10SEP05	09MAY08	15MAY08			1		WT2130	1 1		1 1
WT2140	TTMS Deck Erect'n @ Rd D N/B - Implementation	48*	08JUN05A	04AUG05	08JUN05A	25JUN05		WT2140	i				i.	1 1
WT2240	TTMS Deck Erect'n @ Sham Mong Rd -Implementation	98*	24MAR05A	20JUL05	24MAR05A	27FEB04	WT2240		1					
WT2330	TTMS Deck Erect'n @ LaiChiKok Rd - Site Prepare	1	20JUL05	20JUL05	15MAY08	15MAY08	DWT2330	1 1 1	i.			1 1	1	1 1
WT2340	TTMS Deck Erect'n @ LaiChiKok Rd -Implementation	75*	24MAY05A	20AUG05	24MAY05A	30MAR04	and the owner where the party of	I. I.	T2340					
WT4000	TTMS Deck Erect'n @ Rd D S/B -Prepare for Review	18	20JUL05	09AUG05	03MAY04	22MAY04		WT4000	1					
WT4010	TTMS Deck Erect'n @ Rd D S/B - CRE Endorsement	6	22AUG05	27AUG05	25MAY04	31MAY04			W	4010				
WT4020	TTMS Deck Erect'n @ Rd D S/B - Roadworks Advice	6	29AUG05	03SEP05	01JUN04	07JUN04				WT402	20			
WT4030	TTMS Deck Erect'n @ Rd D S/B - Site Preparation	6	05SEP05	10SEP05	08JUN04	14JUN04					WT4030			
WT4040	TTMS Deck Erect'n @ Rd D S/B - Implementation	85*	12SEP05	22DEC05	15JUN04	13JUN05				WT4040		the second s	H	
Retaining V	Wall LCK-R2						1	1 1 1	1	1		1		
WW2010	Ret, Wall LCK-R2 - Bases	24	20JUL05	16AUG05	01MAR05	28MAR05		ww2	010					1 1
WW2020	Ret, Wall LCK-R2 - Walls	48	03AUG05	28SEP05	15MAR05	11MAY05		1 1 1				ww	2020	
Orall II Control	i Wan Interchange													
WK1000	Kiosk at Lai Wan Interchange - Structure	48	14OCT05	08DEC05	07JUL05	31AUG05							WK1000	
/iaduct -	Main Line - Piers P7 to P10				A PARA									
Substructu	re													
MS2052	P7 Install Bearings	2	20JUL05	21JUL05	14MAY08	15MAY08	MS2052		1	i.				
MS2161	P8/R - Portal Frame - Cure & Strike Form/Falsewk	12	03JUN05A	20JUL05	03JUN05A	27FEB04	MS2161		1					
MS2200	P9/L - Backfill & Remove Temporary Works	3	16APR05A	21JUL05	16APR05A	15MAY08	MS2200							
MS2250	P9/R - Backfill & Remove Temporary Works	4	20APR05A	21JUL05	20APR05A	15MAY08	MS2250				-			
art Date hish Date ta Date	23SEP03 P3 F 15MAY08 20JUL05 © Primavera Systems, Inc.		lighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progra 0 July 2009	'iaduct amme	Sheet 5 of 03/01	19	/	7		S	0	

Activity	Activity	Orig.	Early	Early	Late	Late	15	1000				2005	Contraction .	-	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000	
ID	Description	Durn.	Start	Finish	Start	Finish	JUL	1 0	AUG	00 0	-		SEP	00		CT	-
AS2270	P9/R - Portal Frame (P9/L & P9/R)	38	30APR05A	04AUG05	30APR05A	16MAR04	18 25	1 8 MS22		22 2	.9	S	12 19	20	3 10	17	1
MS2271	P9/R - Portal Frame - Cure & Strike Form/Falsewk	12	05AUG05	18AUG05	17MAR04	30MAR04			-	S2271							ŧ
MS2272	P9/R - Temporary Props for Spans - Foundations	36	20JUL05	30AUG05	28FEB04	10APR04		1		1 1	MS2	272					1
MS2274	P9/R - Temporary Props for Spans - Towers	12	31AUG05	13SEP05	12APR04	24APR04							MS2274		-		
MS2310	P10/L - Backfill & Remove Temporary Works	4	18APR05A	21JUL05	18APR05A	15MAY08	MS2310										
MS2385	P10/R - Portal Frame -Cure & Strike Form/Falsewk	14	19JUL05A	30JUL05	19JUL05A	26APR04		AS2385									
	Segmental Deck Construction (Gantry)								1	+		-				i –	t
MD2000	Launch Gantry to P6/P7/P8	1	20JUL05	20JUL05	27FEB04	27FEB04	MD2000			11		1				1	i.
MD2010	P7/R (South) - 1st. Pair - 1 Type A & 1 Type B	3	09JUL05A	21JUL05	09JUL05A	03MAR04	MD2010			1 1		- 1				l	ĵ.
MD2015	P7/R (South) - 9 seg Type A & 9 Seg Type B	20	26JUL05	17AUG05	04MAR04	26MAR04			M	02015						Į	ļ
MD2020	P7 Slip B - 1st. seg Type B	3	05JUL05A	21JUL05	05JUL05A	03MAR04	MD2020				- 1					1	į.
MD2025	P7 Slip B - 9 seg Type B	20	26JUL05	17AUG05	04MAR04	26MAR04			M	D2025						ł	ł
MD2030	P7/L (North) - 1st. Pair - 1 Type A & 1 Type B	3	09JUL05A	21JUL05	09JUL05A	03MAR04	MD2030										t
MD2035	P7/L (North) - 9 seg Type A & 9 seg Type B	20	26JUL05	17AUG05	04MAR04	26MAR04		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	M	D2035							
MD2040	P7 Slip A - 1st. seg Type B	4	16JUL05A	21JUL05	16JUL05A	03MAR04	MD2040									ł	ł
MD2045	P7 Slip A - 9 seg Type B	20	26JUL05	17AUG05	04MAR04	26MAR04			M	02045	1	1				1	ł
MD2047	P6-P7 Insitu Stitches	3	18AUG05	20AUG05	27MAR04	30MAR04				MD2047	,						ì
MD2050	Launch Gantry to P7/P8/P9	1	22AUG05	22AUG05	31MAR04	31MAR04		1	1	MD20	50			1		ţ.	t
MD2060	P8/L (North) - 1st. Pair - 2 seg Type A	3	20JUL05	22JUL05	27FEB04	01MAR04	MD2060					1				1	ĵ.
MD2065	P8/L (North) - 30 seg Type A	17	25AUG05	13SEP05	03APR04	23APR04						100	MD2065			Į.	Î
MD2070	P8/R (South) - 1st. Pair - 2 seg Type A	4	21JUL05	25JUL05	28FEB04	03MAR04	MD20	070									ł
MD2075	P8/R (South) - 30 seg Type A	17	25AUG05	13SEP05	03APR04	23APR04					-		MD2075				
MD2077	P7-P8 Insitu Stiches	2	14SEP05	15SEP05	24APR04	26APR04							MD207	7			Ť
MD2080	Launch Gantry to P8/P9/P10	1	16SEP05	16SEP05	27APR04	27APR04			i i	1			MD20	80		1	Î
MD2090	P9/R (South) - 1st. Pair - 2 seg Type A	4	14SEP05	17SEP05	26APR04	29APR04				1 1			MD2	090		1	i.
MD2095	P9/R (South) - 28 seg Type A	14	21SEP05	07OCT05	30APR04	17MAY04			1	1 1				-	MD209	5	Ì
MD2100	P9/L Nth - 1st. Pair - 2 seg Type A	3	22AUG05	24AUG05	31MAR04	02APR04				MD2	100					1	Î
MD2105	P9/L Nth - 24 seg Type A	14	21SEP05	07OCT05	30APR04	17MAY04								-	MD210	5	T
MD2107	P8-P9 Insitu Stiches	2	08OCT05	10OCT05	18MAY04	19MAY04									MD:	2107	-
MD2110	Launch Gantry to P9/P10/P11	1	12OCT05	12OCT05	20MAY04	20MAY04									M	02110	
MD2120	P10/L (North) - 1st. Pair - 2 seg Type A	3	16SEP05	20SEP05	27APR04	29APR04								02120			
MD2125	P10/L (North) - 26 seg Type A	9	15OCT05	25OCT05	24MAY04	02JUN04		10							MD2125	and the second	÷
MD2130	P10/R (South) - 1st. Pair - 2 seg Type A	4	17SEP05	22SEP05	19MAY04	22MAY04					1	1		/D2130		1	1
MD2130 tart Date		4 File : LU22		22SEP05	19MAY04	22MAY04	Sheet 6	6 of 19						ND2130			
ta Date	© Primavera Systems, Inc.	н		ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progra 0 July 2005	iaduct amme	03/01				n	Introtanal	es cubiertes	S	0		

Activity	Activity	Orig.	Early	Early	Late	Late		1. 31. 20	1122 20	- and	-	2005				êĽ.	37 13	
ID	Description	Durn.	Start	Finish	Start	Finish	JUL 18 25		AUG	22	20		SEP		26 3		OCT	24
MD2135	P10/R (South) - 24 seg Type A	9	15OCT05	25OCT05	24MAY04	02JUN04	10 20		15	44	29	5 1	2 18	2 4		MD213		24
Superstruc	ture Finishing Works Required for TCSS					1			1									
MF2000	P7 to P10 - Parapets P7 to P8 (incl earthing)	60	03OCT05	12DEC05	05SEP05	16NOV05								MF	2000	H	and the second	
Constant of the local division of the local	Works - Lai Chi Kok Interchange								1					1	-			-
									1									2
MT1140	Traffic Management Schemes	405*	00550044	04411005	00000044	46144.004		MT114	1				1	i i	1		1	ł.
	1st. TTMS Butterfly Valley Rd - Implement St.2	435*	26FEB04A	04AUG05	26FEB04A	16MAR04		MT1300	1	1 1				- 1				1
MT1300	2nd. TTMS Butterfly Valley Rd-Prepare for Review	12	20JUL05	02AUG05	10MAY04	22MAY04	- 1	M11300	į.		NT131			- ij				1
MT1310	2nd. TTMS Butterfly Valley Rd - CRE Endorsement	6	22AUG05	27AUG05	22DEC04	29DEC04	-1 i		ļ –			E	1	- È	i.	i.	1	į.
MT1320	2nd. TTMS Butterfly Valley Rd - Roadworks Advice	6	29AUG05	03SEP05	30DEC04	06JAN05			1			MT1320		i				
MT1330	2nd. TTMS Butterfly Valley Rd - Prepare	18	05SEP05	26SEP05	07JAN05	27JAN05			1						MT1330	0		_i
VT1340	2nd. TTMS Butterfly Valley Rd - Implementation	102*	27SEP05	27JAN06	28JAN05	01JUN05				1			MIT	1340		-		-
MT1400	3rd TTMS Butterfly Valley Rd -Prepare for Review	12	20JUL05	02AUG05	03MAY04	15MAY04		MT1400	1				1	1		1		1
MT1410	3rd. TTMS Butterfly Valley Rd - CRE Endorsement	6	22AUG05	27AUG05	27APR05	04MAY05				N	NT141	1						
MT1420	3rd. TTMS Butterfly Valley Rd - Roadworks Advice	6	29AUG05	03SEP05	05MAY05	11MAY05						MT1420						
VT1430	3rd. TTMS Butterfly Valley Rd - Prepare	18	05SEP05	26SEP05	12MAY05	01JUN05			-				-		MT1430	0		1
MT2070	TTMS Case No.027 (P7 Piling) - Implementation	414*	03JUN04A	180CT05	03JUN04A	01AUG05			-					-		-	M	T207
NT3040	1st. TTMS Kom Tsun Street - Implementation	426*	08MAR04A	04AUG05	08MAR04A	16MAR04		MT3040)	1 1				i i	- E			ł
VT3100	2nd. TTMS Kom Tsun Street - Prepare for Review	12	20JUL05	02AUG05	10MAY04	22MAY04		MT3100	1	1 1		1 1		1	1	E.	1	î
MT3110	2nd. TTMS Kom Tsun Street - CRE Endorsement	6	22AUG05	27AUG05	08APR08	14APR08			1	- N	NT31 1	0	1	1		1	1	1
MT3120	2nd. TTMS Kom Tsun Street - Roadworks Advice	6	29AUG05	03SEP05	15APR08	21APR08			1			MT3120					1	i.
MT3130	2nd. TTMS Kom Tsun Street - Site Preparation	20	05SEP05	28SEP05	22APR08	15MAY08			1				Y		MT31	30	l.	į.
MT3200	3rd. TTMS Kom Tsun Street - Prepare for Review	12	20JUL05	02AUG05	03MAY04	15MAY04		MT3200	1	1 1			1	1		1	- 1	1
MT3210	3rd. TTMS Kom Tsun Street - CRE Endorsement	6	22AUG05	27AUG05	15APR05	21APR05			1	N	MT321	0		1				
MT3220	3rd. TTMS Kom Tsun Street - Roadworks Advice	6	29AUG05	03SEP05	22APR05	28APR05			1			MT3220						
MT3230	3rd. TTMS Kom Tsun Street - Site Preparation	28	05SEP05	08OCT05	29APR05	01JUN05			1							МТ	3230	ł
MT4030	TTMS Deck Erect'n @ CSWan Rd - Site Preparation	1	20JUL05	20JUL05	15MAY08	15MAY08	MT4030											
MT4040	TTMS Deck Erect'n @ CSWan Rd - Implementation	85*	09MAY05A	17AUG05	09MAY05A	26MAR04		man and the second	МТ	4040								
MT4110	TTMS Deck Erect'n @ B.V. Rd - CRE Endorsement	6	19JUL05A	26JUL05	19JUL05A	27MAR04	MT	4110										
MT4120	TTMS Deck Erect'n @ B.V. Rd - Roadworks Advice	12	27JUL05	09AUG05	29MAR04	12APR04		IMT	4120									
MT4130	TTMS Deck Erect'n @ B.V. Rd - Site Preparation	12	10AUG05	23AUG05	13APR04	26APR04			-	MT4	130					1		
MT4140	TTMS Deck Erect'n @ B.V. Rd - Implementation	69*	22AUG05	12NOV05	31MAR04	21JUN04		n	174140					-				
Drainage W									1					l	i			1
SA1000	Butterfly Valley Road - Stormwater Drainage	54	27SEP05	30NOV05	28JAN05	04APR05			1	1 1			SA	1000	فع	- N	-	
rt Date ish Date a Date	© Primavera Systems, Inc.		lighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V Iling Progra 0 July 2005	iaduct amme		7 of 19			r				50	0)	

Activity	Activity	Orig.	Early	Early	Late	Late	A DALESSARE NET		State State	5. 1. 1. 1. 1. 1.	200			1		E20117	
ID	Description	Durn.	Start	Finish	Start	Finish	JUL	1 0	AUG			SEP	0.00	-	0	1. A. (1. 4)	-
SA2000	Kom Tsun St. & Bus Terminal - St/water Drainage	54	14FEB05A	09SEP05	14FEB05A	04APR05	18 25	1 8	15	22 2		12 1 SA2000	9 26	3	10	17	24
	Roadworks		TH LOOUT	0001100	THE BOOM	o in a rico										-	-
SR2000	Castle Peak Road - Roadworks Reinstatement	17	13OCT05	01NOV05	06MAY05	25MAY05				1 1				SR2	2000	1	1
SR3000	Kom Tsun Street L/H C/Way - Excavate & Formation	12	03SEP05	16SEP05	29MAR05	12APR05					-	SR	3000				
SR3010	Kom Tsun Street L/H C/Way - Sub-base	12	17SEP05	03OCT05	13APR05	26APR05								SR:	3010		
SR3020	Kom Tsun Street L/H C/Way - Kerbs	18	04OCT05	250CT05	27APR05	18MAY05							SR30		H	-	÷
SR3200	Kom Tsun Street Bus Stn Excavate & Formation	18	10SEP05	03OCT05	06APR05	26APR05							1	SR:	3200	1	1
SR3210	Kom Tsun Street bus Stn Sub-base	18	26SEP05	180CT05	20APR05	11MAY05				+						SR	321
SR3220	Kom Tsun Street Bus Stn Kerbs	24	120CT05	08NOV05	05MAY05	01JUN05				1 1				SR3	220	Ond	1
SR4000	Kwai Chung Road (Pier 7) - Reinstatement	24	17SEP05	180CT05	05JUL05	01AUG05			1.	1 1		1	_		-	SR4	400
Contraction of the local division of the		24	TI OLI US	1000103	0000200	0120000				+						UI	
	Main Line - Piers P11 to P15	al and a second	and the second	1		the states			1							1	1
Substructu									1	1 1					-	1	-
MS3055	P11 - Pier Head - Cure & Strike Form/Falsework	14	30JUN05A	21JUL05	30JUN05A	18MAY04	MS305									1	
MS3115	P12 - Bearings	7	20JUL05	27JUL05	15MAR04	22MAR04	M	S3115									
MS3117	P12 - Insitu Deck Segments at Movement Joint	48	28JUL05	22SEP05	23MAR04	19MAY04		1	1	1 1	1	-	M\$311	7		1	
MS3118	P12 - Cure & Strike Formwork/Falsework	14	23SEP05	10OCT05	20MAY04	04JUN04				1 1			-		MS3	118	
MS3171	P13 - Pier Head - Cure & Strike Form/Falsework	14	28JUN05A	21JUL05	28JUN05A	21JUN04	MS317	1									
MS3172	P13 - Temporary Props for Spans - Foundations	24	20JUL05	16AUG05	12MAY04	08JUN04			MS	3172		1 1			1	1	1
MS3174	P13 - Temporary Props for Spans - Towers	18	13OCT05	02NOV05	09JUN04	30JUN04			1	1 1	1.	1 1		MS3	8174	-	-
MS3225	P14 - Pier Hammer Head	24	30MAY05A	05AUG05	30MAY05A	19APR04		MS	\$3225	1 1						1	l.
MS3230	P14 - Pier Insitu Deck Segment	48	06AUG05	03OCT05	20APR04	15JUN04					-	-		MS	3230	1	1
MS3235	P14 - Pier Head - Cure & Strike Form/Falsework	14	04OCT05	20OCT05	16JUN04	03JUL04			1						1	M	1\$32
MS3285	P15 - Pier Hammer Head	48	14JUL05A	03SEP05	14JUL05A	21APR04				1 1	MS3	285				1	
MS3290	P15 - Pier Insitu Deck Segment	60	05SEP05	16NOV05	22APR04	03JUL04				MS	3290		-	X.	-	ļ.	-
MS3292	P15 - Temporary Props for Spans - Foundations	24	20JUL05	16AUG05	10JUN04	09JUL04		-	MS	3292							1
Main Line	- Segmental Deck Construction (Gantry)																
MD3010	P11 Sth - 1st pair - 2 segs Type A	3	12OCT05	14OCT05	20MAY04	22MAY04										MD301	Ó
MD3020	P11 Nth - 1st pair - 2 segs Type A	3	12OCT05	14OCT05	20MAY04	22MAY04			i i	1 1						MD302	0
At Grade	Works - Wai Man Tsuen								1								i
Temporary	r Traffic Management Schemes							1	1	1 1		1 1			- 1	1	Ì.
/T2100	TTMS MainLine Deck@ CC Rd W/B-Prepare for Review	12	20JUL05	02AUG05	03MAY04	15MAY04		VT21	00	1 1							į.
/T2110	TTMS MainLine Deck@ CC Rd W/B - CRE Endorsement	6	22AUG05	27AUG05	06JUL04	12JUL04				v	T2110					1	
/T2120	TTMS MainLine Deck@ CC Rd W/B - Roadworks Advice	12	29AUG05	10SEP05	13JUL04	26JUL04			-			VT2120			1	1	-
rt Date ish Date a Date	© Primavera Systems, Inc.	ile : LU22	lighways D Ro	epartmen ute 8 - Lai nonth Rol	1.000	No. HY/20 iaduct amme		8 of 19						C	>		

	Activity	Orig.	Early	Early	Late	Late	2005
Activity ID	Description	Durn.	Start	Finish	Start	Finish	JUL AUG SEP OCT 18 25 1 8 15 22 29 5 12 19 26 3 10 17 2
T2130	TTMS MainLine Deck@ CC Rd W/B - Site Preparation	6	12SEP05	17SEP05	27JUL04	02AUG04	VT2130
T2200	TTMS Slip RdD Deck@ CC Rd W/B-Prepare for Review	18	22AUG05	10SEP05	19AUG04	08SEP04	VT2200
T2210	TTMS Slip Rd D Deck@ CC Rd W/B -CRE Endorsement	6	27SEP05	04OCT05	17SEP04	23SEP04	
T2220	TTMS Slip Rd D Deck@ CC Rd W/B -Roadworks Advice	12	05OCT05	19OCT05	24SEP04	09OCT04	
arthworks	& Slope Works						
E1010	Slope CCR-S5 - Form Temporary Access	18	20JUL05	09AUG05	27JAN05	19FEB05	VE1010
/E1020	Slope CCR-S5 - Install Temporary Works	24	10AUG05	06SEP05	21FEB05	19MAR05	VE1020
/E1030	Slope CCR-S5 - Excavate Existing Slope	12	07SEP05	21SEP05	21MAR05	02APR05	E 1030
/E1040	Slope CCR-S5 - Compacted Filling	24	22SEP05	210CT05	04APR05	03MAY05	
Earthworks	& Slope Works - 11NW-A/C678 & CR679						
/E2000	Slope 11NW-A/C678 & CR679 - Remove Temp Platform	6	20JUL05	26JUL05	08MAR08	14MAR08	VE2000
/E2020	Slope 11NW-A/C678 & CR679 - Trim Original Slope	6	27JUL05	02AUG05	15MAR08	21MAR08	VE2020
/E2022	Slope 11NW-A/C678 & CR679 - Rock Stabilisation	6	03AUG05	09AUG05	22MAR08	28MAR08	VE2022
/E2025	Slope 11NW-A/C678 & CR679 - Platform for S.Nails	3	10AUG05	12AUG05	29MAR08	01APR08	VE2025
/E2027	Slope 11NW-A/C678 & CR679 - Test Soil Nail	6	13AUG05	19AUG05	02APR08	09APR08	VE2027
/E2030	Slope 11NW-A/C678 & CR679 - Soil Nails	18	20AUG05	09SEP05	10APR08	30APR08	VE2030
/E2035	Slope 11NW-A/C678 & CR679 - Soil Nail - Testing	12	10SEP05	24SEP05	02MAY08	15MAY08	VE2035
/E2040	Slope 11NW-A/C678 & CR679 - Fill Behind Ret Wall	6	11JUL05A	21JUL05	11JUL05A	25JUL05	VE2040
/E2050	Slope 11NW-A/C678 & CR679 -Landscape & Hydroseed	6	22JUL05	28JUL05	26JUL05	01AUG05	VE2050
Itilities & F	Roadworks						
/R3000	Drainage Maintenance Access Rd Formation	24	06AUG05	02SEP05	21MAY05	18JUN05	VR3000
/R3010	Drainage Maintenance Access Rd Sub-base	24	13AUG05	09SEP05	28MAY05	25JUN05	VR3010
/R3020	Drainage Maintenance Access Rd Kerbs	24	20AUG05	16SEP05	04JUN05	04JUL05	VR3020
/R3030	Drainage Maintenance Access Rd Pavement	48	20AUG05	180CT05	04JUN05	01AUG05	VR30
/R3040	Drainage Maintenance Access Rd Street Lights	12	04OCT05	180CT05	19JUL05	01AUG05	VR30
	suen Fire Hydrant Pump House			1000100	1.000000		
/H2000	Fire Main - Pipework Along Maintenance Road	18	06AUG05	26AUG05	21MAY05	10JUN05	VH2000
andscape		10	00/10/000	20110000	211101100	Tobolitoo	
X1000	Landscaping - Earthworks & Formation	24	20JUL05	16AUG05	04MAY05	31MAY05	VX1000
/X1000	Landscaping - Soiling & Planting	24	2030E05	16SEP05	05JUL05	01AUG05	VX1040
/X11040	Landscape Establishment Works	301	17SEP05	18SEP06	04NOV06	03NOV07	VX1100 2
×1100	Landscape Establishment Works	301	17SEF05	TOSEFUO	04140700	03140707	

Activity	Activity	Orig.	Early	Early	Late	Late	and the second second	10 221		Status.	2005		Sec. 1		100	22
ID	Description	Durn.	Start	Finish	Start	Finish	JUL 18 25 1	AL 8 1	JG 5 22	20	E	SEP 12 19	2 26	2	00	
liaduct -	Main Line - Piers P16 to P18						10 20 1	0 1	5 22	29	3	12 1:	20	3	10	7 24
Substructu																
MS4030	P16/L - Backfill & Remove Temporary Works	4	08JUL05A	23JUL05	08JUL05A	17JAN05	MS4030									
MS4040	P16/L - Pier	12	11JUL05A	21JUL05	11JUL05A	27APR04	MS4040				1					
MS4050	P16/L - Pier Hammer Head	18	16SEP05	08OCT05	06MAY04	26MAY04	-	1 1	1		1		-	2 ¹	MS4050	
MS4055	P16/L - Install Bearings	6	10OCT05	17OCT05	27MAY04	02JUN04			i	1	1			1		MS4055
MS4057	P16/L - Insitu Deck at Movement Joint	36	180CT05	28NOV05	03JUN04	16JUL04			1		1			1	MS4057	
MS4115	P16/R - Install Bearings	6	01AUG05	06AUG05	03APR04	10APR04		MS4115	5							
MS4117	P16/R - Insitu Deck at Movement Joint	36	11JUL05A	23AUG05	11JUL05A	10APR04				S4117	-		l.	1	1 1	1
MS4118	P16/R - Cure & Strike Formwork & Falsework	14	24AUG05	08SEP05	12APR04	27APR04	-			And the second	M	54118				
MS4200	P17/R - Backfill & Remove Temporary Works	4	20JUL05	23JUL05	21MAR08	25MAR08	MS4200				-					
MS4205	P17 - Form Platform for Pier/Portal Construction	24	25JUL05	20AUG05	26MAR08	23APR08	anu contra de	1 1	MS4	205			- 8			
MS4210	P17/R - Pier	12	20JUL05A	01AUG05	20JUL05A	11JUN04	M	\$4210		1	1			1	1 1	1
MS4220	P17/L & P17/R - Portal Frame	48	02AUG05	27SEP05	12JUN04	09AUG04			-		1.	-	M	\$4220	1 1	1
MS4225	P17/L & P17/R - Cure & Strike Form/Falsework	16	28SEP05	18OCT05	10AUG04	27AUG04								-	i Hand	MS422
MS4330	P18/L & P18/R - Portal Frame	30	08APR05A	30JUL05	08APR05A	13AUG04	MS4	1330	1	1	1		1	1	1 1	
MS4335	P18/L & P18/R - Cure & Strike Form/Falsework	14	01AUG05	16AUG05	14AUG04	30AUG04			MS4335		1		1.		1	i
Enabling &	Abutment M - Pile Testing	12	30JUL05	12AUG05	30NOV04	13DEC04		МР	P5160							
Substructu	ire															
MS5045	P19 - Pier Hammer Head	24	12MAY05A	09AUG05	12MAY05A	16NOV04		MS50	45						1. 1	
MS5050	P19 - Pier Insitu Deck Segment	48	10AUG05	06OCT05	17NOV04	13JAN05				-	1.41			N	IS5050	
MS5055	P19 - Pier Head - Cure & Strip Falsework	20	07OCT05	31OCT05	14JAN05	05FEB05							MS	5055	×	. Law-
MS5058	P20 - 2nd. Site Access from ENT Contractor	0	20JUL05*		16MAY08		♦ MS5058		1		1					
MS5070	P20 - Excavate, Strut & Break Down Piles	24	03JUN05A	04AUG05	03JUN05A	25SEP04		M\$5070		1	1 1					1
MS5080	P20 - Footing & Pier Kicker	12	05AUG05	18AUG05	27SEP04	12OCT04		-	M\$508	30	1					1
MS5090	P20 - Backfill & Remove Temporary Works	4	19AUG05	23AUG05	13OCT04	16OCT04		1 1	M	\$5090	1				1 1	
MS5095	P20 - 3rd. Site Access from ENT Contractor	0	24AUG05*		18OCT04	8				1\$509	5					~ L
MS5100	P20 - Pier	18	24AUG05	13SEP05	18OCT04	08NOV04					1	MS510	00		-	
MS5105	P20 - Pier Hammer Head	18	14SEP05	06OCT05	09NOV04	29NOV04						H		1	1\$5105	
MS5110	P20 - Pier Insitu Deck Segment	42	07OCT05	25NOV05	30NOV04	19JAN05							MS	5110	X	
MS5150	P21 - Backfill & Remove Temporary Works	4	20JUL05	23JUL05	26MAR08	29MAR08	MS5150									
art Date nish Date tia Date	23SEP03 15MAY08 20JUL05	File : LU22 H	lighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progra 0 July 200	iaduct amme	Sheet 10 of 03/01	f 19		r	TE	~	S	50)	
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Activity	Activity	Orig.	Early	Early	Late	Late		11/10/201	10.00	and the second	200		100	22.00	le parte
ID	Description	Durn.	Start	Finish	Start	Finish	JUL 18 25	1 0	AUG 3 15	22 29) 5	SEP	200 2	00	
AS5155	P21 - Perm. Filling to Slope & Working Platform	38	25JUL05	06SEP05	31MAR08	15MAY08	10 25	1 6	3 15	22 23		5155	26 3	10	17 24
MS5165	P21 - Pier Hammer Head	18	20JUL05	09AUG05	04DEC04	24DEC04		-	MS5165						
MS5170	P21 - Pier Insitu Deck Segment	42	10AUG05	28SEP05	27DEC04	17FEB05							MS5	170	
AS5175	P21 - Pier Head - Cure & Strip Falsework	18	29SEP05	210CT05	18FEB05	10MAR05						M	S5175	H	
MS5180	Abutment M - Install Temporary Sheet Piles	12	13AUG05	26AUG05	14DEC04	28DEC04				MSS	180				
VIS5190	Abutment M - Excavate, Strut & Break Down Piles	24	27AUG05	24SEP05	29DEC04	26JAN05			1				MS5190		
MS5200	Abutment M - Pile Cap & Wall Kicker	24	26SEP05	25OCT05	27JAN05	26FEB05		1				MS5	200	H	
At Grade	Works - Butterfly Valley	THE PARTY			A ASSULTAN	A State State									
	Traffic Management Schemes	Cesame and a													
QT1040	TTA Butterfly Valley (CCR-S6) - Implementation	448*	07FEB04A	01AUG05	07FEB04A	14MAY05		QT10	40						
QT2000	TTMS MainLine Deck@ CC Rd E/B-Prepare for Review	12	20JUL05	02AUG05	10MAY04	22MAY04		QT2							
QT2010	TTMS MainLine Deck@ CC Rd E/B - CRE Endorsement	6	22AUG05	27AUG05	31JUL04	06AUG04	-			QT	2010				
QT2020	TTMS MainLine Deck@ CC Rd E/B - Roadworks Advice	12	29AUG05	10SEP05	07AUG04	20AUG04						QT2020			
QT2030	TTMS MainLine Deck@ CC Rd E/B - Site Preparation	6	12SEP05	17SEP05	21AUG04	27AUG04			1			QT	2030		
QT2100	TTMS Slip RdD Deck@ CC Rd E/B-Prepare for Review	18	20JUL05	09AUG05	03MAY04	22MAY04		i and i	QT2100						
QT2110	TTMS Slip Rd D Deck@ CC Rd E/B - CRE Endorsement	6	22AUG05	27AUG05	08SEP04	14SEP04	-	1		QT	2110				
QT2120	TTMS Slip RdD Deck@ CC Rd E/B - Roadworks Advice	12	29AUG05	10SEP05	15SEP04	28SEP04						QT2120			
QT2130	TTMS Slip RdD Deck@ CC Rd E/B - Site Preparation	6	14SEP05	21SEP05	04OCT04	09OCT04							QT2130		
Earthworks	s & Slope Works - CCR-S6														
QE1220	Slope CCR-S6 - Slope Drainage +48.5 to +36.0mPD	50	07JUN05A	25JUL05	07JUN05A	07MAY05	QE	1220							
QE1300	Slope CCR-S6 - Slope Finishes	75	04MAR05A	01AUG05	04MAR05A	14MAY05		QE13	00						
Utilities & F	Roadworks							1							
QR1040	WSD Acces Road - Divert Junction to Clear P16/L	6	09SEP05	15SEP05	28APR04	05MAY04		1				QR1	040		
Landscape		-													
QX1020	Landscaping - Planting on Slope CCR-S6	75	20JUL05*	18OCT05	04MAY05	01AUG05							- i	- Y	QX102
QX1100	Landscape Establishment Works	301	19OCT05	18OCT06	04NOV06	03NOV07								QX110	0
liaduct -	Slip Road C		Webs Wast						_						
	Piling Works		A STATISTICS.			WARE AND SHOW									
CP1030	Abutment C - Pile Testing	6	19JUL05A	22JUL05	19JUL05A	21APR05	CP10	30							
Substructu	· · · · · · · · · · · · · · · · · · ·	0	ISJULUSA	2230105	19J0L05A	ZIAPROS	CF 10.	50		1 1					1
CS1100	Abutment C - Install Temporary Sheet Piles	6	23JUL05	29JUL05	22APR05	28APR05		CS1100							
CS1110	Abutment C - Excavate, Strut & Break Down Piles	18	30JUL05	19AUG05	29APR05	20MAY05		CSTICO	i	CS1110	i				1
51110	Abument C - Excavate, Strut & Break Down Piles	10	30JUL05	19AUG05	Z9APR05	201014105				CSTITIO	i	i	ii		i
rt Date ish Date a Date	23SEP03 P3 F 15MAY08 20JUL05		ighways D Roi	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progra 0 July 2009	iaduct amme		11 of 19		1			s	0	
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Activity	Activity	Orig.	Early	Early	Late	Late	2005
ID	Description	Durn.	Start	Finish	Start	Finish	JUL AUG SEP OCT 18 25 1 8 15 22 29 5 12 19 26 3 10 17 24
CS1120	Abutment C - Pile Cap & Wall Kicker	22	20AUG05	14SEP05	21MAY05	16JUN05	
CS1130	Abutment C - Backfill & Remove Temporary Works	4	15SEP05	20SEP05	17JUN05	21JUN05	CS1130
CS1140	Abutment C - Bearing Shelf & Walls	18	21SEP05	13OCT05	22JUN05	13JUL05	Last Carlow Hard State
CS1190	C1 - Backfill & Remove Temporary Works	4	18JUL05A	21JUL05	18JUL05A	15MAY08	C\$1190
CS1200	C1 - Pier	6	18JUL05A	25JUL05	18JUL05A	06JUL05	CS1200
S1210	C1 - Pier Head	12	26JUL05	08AUG05	07JUL05	20JUL05	CS1210
CS1250	C2 - Backfill & Remove Temporary Works	8	16JUN05A	23JUL05	16JUN05A	15MAY08	CS1250
CS1260	C2 - Bearing Shelf	20	06JUL05A	27JUL05	06JUL05A	21JAN05	CS1260
S1265	C2 - Install Bearings	3	01AUG05	03AUG05	22JAN05	25JAN05	CS1265
CS1325	C3 - Install Bearings	6	20JUL05	26JUL05	19JAN05	25JAN05	CS1325
S1340	C4 - Excavate, Strut & Break Down Piles	18	13JUL05A	30JUL05	13JUL05A	01FEB05	CS1340
S1350	C4 - Pile Cap & Pier Kicker	18	01AUG05	20AUG05	02FEB05	25FEB05	CS1350
S1360	C4 - Backfill & Remove Temporary Works	6	22AUG05	27AUG05	26FEB05	04MAR05	CS1360
S1370	C4 - Pier	6	29AUG05	03SEP05	05MAR05	11MAR05	CS1370
S1380	C4 - Pier Head	12	05SEP05	17SEP05	12MAR05	25MAR05	CS1380
CS1432	C5/R - Install Sheet Temporary Piles	5	25JUL05	29JUL05	18JAN05	22JAN05	CS1432
CS1435	C5/R - Excavate, Strut & Break Down Piles	12	30JUL05	12AUG05	24JAN05	05FEB05	CS1435
CS1436	C5/R - Pile Cap & Pier Kicker	18	13AUG05	02SEP05	07FEB05	02MAR05	CS1436
CS1437	C5/R - Backfill & Remove Temporary Works	6	03SEP05	09SEP05	03MAR05	09MAR05	CS1437
CS1438	C5/R - Pier	6	10SEP05	16SEP05	10MAR05	16MAR05	CS1438
CS1440	C5/L - C5/R Portal	36	17SEP05	01NOV05	17MAR05	28APR05	CS1440
CS1535	C6/L&R - Form Platform for C6 Piers / Portal	18	22AUG05	10SEP05	24APR08	15MAY08	CS1535
CS1550	C6/R & C6/L - Portal Frame (C6/L & C6/R)	36	20JUL05	30AUG05	25AUG04	07OCT04	CS1550
CS1551	C6/R & C6/L - Portal Frame - Cure & Strike F/wk	14	31AUG05	15SEP05	08OCT04	25OCT04	C\$1551
Slip Road (C - Insitu Deck Construction						
CD1020	Slip Rd. C - Insitu Deck - Span C2 to C3	72	17AUG05	11NOV05	26JAN05	23APR05	CD1020
CD1030	Slip Rd. C - Insitu Deck - Span C3 to C4	72	15OCT05	09JAN06	26MAR05	21JUN05	CD1030
laduct -	Slip Road D	Sector Sector			and a strength	No. of Street	
A DOLLAR DO	Piling Works		Standard (Second Stands				
DP1140	D3 - Piling	48	01JUN05A	12AUG05	01JUN05A	21JUN04	DP1140
DP1150	D3 - Pile Testing	6	27AUG05	02SEP05	08JUL04	14JUL04	DP1150
DP1370	D9 - Piling	48	20JUL05	13SEP05	15MAR04	11MAY04	DP1370
DP1372	D9 - Pile Testing	6	27SEP05	04OCT05	24MAY04	29MAY04	DP1372
rt Date sh Date a Date	© Primavera Systems, Inc.	File : LU22 H	ighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progr 0 July 200	amme	Sheet 12 of 19 103/01

Activity	Activity	Orig.	Early	Early	Late	Late		Til mar	4.5.26%	- 1010)	200)5		- 10.44	ST Stel	1.20
ID	Description	Durn.	Start	Finish	Start	Finish	JUL		AUG			SEP			OCT	
DP1390	D10 - Piling	40	13JUL05A	29AUG05	13JUL05A	08MAY04	18 25	5 1	8 15	22	29 5 DP1390	12	19 26	3	10 1	7 24
DP1390 DP1400	D10 - Pile Testing	40	10SEP05					-			DP 1390		P1400			
		0	1052205	16SEP05	21MAY04	27MAY04		-					1400			
Substructu						la versa à la		-				ĵ –			1 . 1	1
DS1030	Abutment D - Backfill & Remove Temporary Works	8	20JUL05	28JUL05	13AUG04	21AUG04	-	D\$1030				l l				į
DS1040	Abutment D - Bearing Shelf & Walls	18	29JUL05	18AUG05	20DEC04	11JAN05			-	DS1040		{		3		1
DS1060	D1 - Install Sheet Temporary Piles	6	20JUL05	26JUL05	04JUN04	10JUN04		DS1060				-				
DS1070	D1 - Excavate, Strut & Break Down Piles	18	27JUL05	16AUG05	11JUN04	03JUL04			D	S1070						
DS1080	D1 - Pile Cap & Pier Kicker	12	17AUG05	30AUG05	05JUL04	17JUL04		_	_		DS1080				-	
DS1090	D1 - Backfill & Remove Temporary Works	6	31AUG05	06SEP05	19JUL04	24JUL04					D	51090	_			
DS1100	D1 - Pier	12	07SEP05	21SEP05	26JUL04	07AUG04						1	DS110			
DS1110	D1 - Pier Head	12	22SEP05	06OCT05	09AUG04	21AUG04						1			S1110	1
DS1120	D2 - Install Sheet Temporary Piles	6	20JUL05	26JUL05	04JUN04	10JUN04		0\$1120				1			1 1	i
DS1130	D2 - Excavate, Strut & Break Down Piles	18	27JUL05	16AUG05	11JUN04	03JUL04			D	S1130		1				1
DS1140	D2 - Pile Cap & Pier Kicker	12	17AUG05	30AUG05	05JUL04	17JUL04					DS1140				1 1	1
DS1150	D2 - Backfill & Remove Temporary Works	6	31AUG05	06SEP05	19JUL04	24JUL04				1	D	51150	1		1	1
DS1160	D2 - Pier	12	07SEP05	21SEP05	26JUL04	07AUG04							DS116	0	1 1	1
DS1170	D2 - Pier Head	12	22SEP05	06OCT05	09AUG04	21AUG04						l.			S1170	1
DS1180	D3 - Install Sheet Temporary Piles	6	03SEP05	09SEP05	15JUL04	21JUL04						DS1180	b			j.
DS1190	D3 - Excavate, Strut & Break Down Piles	18	10SEP05	03OCT05	22JUL04	11AUG04								DS	1190	
DS1200	D3 - Pile Cap & Pier Kicker	12	04OCT05	18OCT05	12AUG04	25AUG04									Hart	DS1200
DS1210	D3 - Backfill & Remove Temporary Works	6	19OCT05	25OCT05	26AUG04	01SEP04						1			DS1210	
DS1270	D4 - Backfill & Remove Temporary Works	6	18APR05A	21JUL05	18APR05A	15MAY08	DS12	270								
DS1290	D4 - Pier Head	6	06JUN05A	20JUL05	06JUN05A	02OCT04	DS12	90								
DS1295	D4 - Install Bearings	6	21JUL05	27JUL05	04OCT04	09OCT04		DS1295				1		1	1	1
DS1297	D4 - Pier Head - Insitu Deck Segment	30	28JUL05	31AUG05	11OCT04	15NOV04					DS1297	7			1	1
DS1299	D4 - Pier Head - Cure & Strike Fmwk/Falsework	12	01SEP05	14SEP05	16NOV04	29NOV04						DS	1299		1 - 1	i
DS1355	D5 - Install Bearings	6	20JUL05	26JUL05	21SEP04	27SEP04		0\$1355				1			1	i.
DS1357	D5 - Pier Head - Insitu Deck Segment	30	27JUL05	30AUG05	28SEP04	04NOV04					DS1357	1				
DS1359	D5 - Pier Head - Cure & Strike Fmwk/Falsework	12	31AUG05	13SEP05	05NOV04	18NOV04						DS1	359			
DS1390	D6 - Backfill & Remove Temporary Works	5	11JUL05A	21JUL05	11JUL05A	15MAY08	DS13	390	-							
DS1410	D6 - Pier Head	18	20JUL05	09AUG05	21AUG04	10SEP04			DS1410			ł			-	
DS1460	D7 - Pier	42	30MAY05A	27JUL05	30MAY05A	03SEP04		DS1460								-
DS1470	D7 - Pier Head	30	28JUL05	31AUG05	04SEP04	110CT04		2000		-	DS1470					
art Date hish Date ta Date	23SEP03 P 15MAY08 20JUL05 © Primavera Systems, Inc.	3 File : LU22 H	lighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V Iling Progr 0 July 200	'iaduct amme		t 13 of 1	9		n			50)	

Activity	Activity	Orig.	Early	Early	Late	Late	See Such	the shall	1.15	200		2005	10000			a transferra	TRA TA
ID	Description	Durn.	Start	Finish	Start	Finish	JUL 18 25	1 8	AUG		20		SEP 2 19	26	2	10	
S1475	D7 - Pier Head - Cure & Strike Form/Falsework	12	01SEP05	14SEP05	12OCT04	26OCT04	10 23	1 0	15	EE.	23	5 1	DS147		3	10	11 4
S1530	D8 - Pier Head	30	20JUL05	23AUG05	27AUG04	02OCT04				DS1	530						
S1531	D8 - Pier Head - Cure & Strike Form/Falsework	12	24AUG05	06SEP05	04OCT04	16OCT04						DS15	31				. 1
DS1532	D8 - Temp. Towers for Launching Gantry - Founds	18	20JUL05	09AUG05	27AUG04	16SEP04		D	S1532				1				
S1540	D9 - Install Sheet Temporary Piles	6	05OCT05	12OCT05	31MAY04	05JUN04						1				HDS1	540
S1550	D9 - Excavate, Strut & Break Down Piles	18	13OCT05	02NOV05	07JUN04	28JUN04	i	1	1		1	1	1		DS1	1550	
S1600	D10 - Install Sheet Temporary Piles	6	17SEP05	24SEP05	28MAY04	03JUN04			1					DS16	600	1 1	1
S1610	D10 - Excavate, Strut & Break Down Piles	12	26SEP05	10OCT05	04JUN04	17JUN04						1			-	DS16	10
DS1620	D10 - Pile Cap & Pier Kicker	12	12OCT05	25OCT05	18JUN04	03JUL04		1	1				1		DS16	620	-
ai Wan F	Road Overpass		STATE NO.									Ì					
	Traffic Management Schemes																
T2120	TTMS LW Rd (for W/B Deck) - Roadworks Advice	6	20JUL05	25JUL05	09MAR05	14MAR05	LT	120	i i	È						1 1	
T2130	TTMS LW Rd (for W/B Deck) - Site Preparation	6	26JUL05	01AUG05	15MAR05	21MAR05		LT2130	i.	i i		1	i	1		1 1	1
T2200	TTMS LW Rd (for E/B Deck) - Prepare for Review	12	20JUL05	02AUG05	03MAY04	15MAY04		LT2200				- 1	i				1
T2210	TTMS LW Rd (for E/B Deck) - CRE Endorsement	6	21AUG05	26AUG05	18JUL05	23JUL05		1		L.	T2210	1	1	1		1 1	1
T2220	TTMS LW Rd (for E/B Deck) - Roadworks Advice	6	27AUG05	01SEP05	24JUL05	29JUL05			1		LT	2220	1			1	1
T2230	TTMS LW Rd (for E/B Deck) - Site Preparation	6	02SEP05	08SEP05	30JUL05	05AUG05						LT2	230				
T3000	TTMS CC Rd (on W/B Deck) - Prepare for Review	12	20JUL05	02AUG05	03MAY04	15MAY04	-	LT3000									
T3010	TTMS CC Rd (on W/B Deck) - CRE Endorsement	6	21AUG05	26AUG05	08AUG05	13AUG05				L	Г3010						
T3020	TTMS CC Rd (on W/B Deck) - Roadworks Advice	6	27AUG05	01SEP05	14AUG05	19AUG05					LT	3020					
T3030	TTMS CC Rd (on W/B Deck) - Site Preparation	6	02SEP05	08SEP05	20AUG05	26AUG05						LT3	030				
T3100	TTMS CC Rd (on E/B Deck) - Prepare for Review	12	27SEP05	12OCT05	13DEC04	27DEC04		1	1	1	1	1	1		-	HLT3	100
Nest Boun	d - Enabling & Piling Works			12.11				İ	1	1	i		i			1 1	İ
.P1375	D14 - Remove Buttress Suporting Footpath	36	28SEP05	10NOV05	11MAR05	22APR05			1		1		LP1	1375	Him	i Xani	-
Nest Boun	d - Substructure												1				
S1062	Abutment DA1 - Backfill Behind Abutment	12	30MAY05A	22JUL05	30MAY05A	07OCT05	LS10	2					1				
S1065	Abutment DA1 - Install Bearings	6	01AUG05	06AUG05	15MAR05	21MAR05		LS1	065								
S1135	D11 - Bearings	3	18AUG05	20AUG05	18MAR05	21MAR05				LS113	5						
S1185	D12 - Install Bearings	3	01AUG05	03AUG05	18MAR05	21MAR05		LS118	5				1				1
S1210	D13 - Footing & Pier Kicker	24	12JUL05A	27JUL05	12JUL05A	15APR05		51210	1	1							
S1220	D13 - Backfill & Remove Temporary Works	6	28JUL05	03AUG05	16APR05	22APR05		LS122	D	1					1		
S1230	D13 - Pier (incl. Pier Head)	18	04AUG05	24AUG05	23APR05	14MAY05			-	LS	230	į	1				1
S1235	D13 - Install Bearings	3	25AUG05	27AUG05	16MAY05	18MAY05					S1235						
rt Date sh Date a Date	23SEP03 15MAY08 20JUL05 © Primavera Systems, Inc.	File : LU22 H	Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok \ ling Progr 0 July 200	amme		14 of 19						S	iC)	

Activity	Activity	Orig.	Early	Early	Late	Late	2005	
ID	Description	Durn.	Start	Finish	Start	Finish	JUL AUG SEP OCT 18 25 1 8 15 22 29 5 12 19 26 3 10 17	24
S1286	Abutment DA2 - Remove Existig Rockfall Fence	3	02AUG05	04AUG05	08DEC04	10DEC04	LS1286	24
S1287	Abutment DA2 - Remove Existing Footpath	6	05AUG05	11AUG05	11DEC04	17DEC04	LS1287	
S1288	Abutment DA2 - Re-instate Rockfall Fence	3	12AUG05	15AUG05	18DEC04	21DEC04	LS1288	+
S1290	Abutment DA2 - Utility Trial Trenches	3	12AUG05	15AUG05	18DEC04	21DEC04	LS1290	
S1310	Abutment DA2 - Excavation in Rock for Footing	36	16AUG05	27SEP05	22DEC04	03FEB05	LS1310	
S1320	Abutment DA2 - Mass Concrete Fill Under Footing	12	28SEP05	13OCT05	04FEB05	21FEB05	HILS1320	١.
S1330	Abutment DA2 - Footing	18	14OCT05	03NOV05	22FEB05	14MAR05	LS1330	1
ast Bound	d - Substructure	1						1
S2050	Abutment CA1 - Install Bearings	6	01AUG05	06AUG05	09MAY08	15MAY08	LS2050	1
S2105	C11 - Install Bearings	6	06AUG05	12AUG05	09MAY08	15MAY08	LS2105	
S2155	C12 - Install Bearings	6	06AUG05	12AUG05	09MAY08	15MAY08	LS2155	1
S2205	C13 - Install Bearings	6	18AUG05	24AUG05	19MAY05	25MAY05	LS2205	
East Bound	d - Insitu Deck							
D2000	Lai Wan Overpass E/B - Demolish F/P for Stage 1	6	20JUL05	26JUL05	09MAY08	15MAY08	LD2000	
D2010	Lai Wan Overpass E/B - Insitu Span - Stage 1	72	15APR05A	05OCT05	15APR05A	23JUN05	LD2010	1
D2020	Lai Wan Overpass E/B - Demolish F/P for Stage 2	6	20JUL05	26JUL05	26MAY05	01JUN05	LD2020	
D2030	Lai Wan Overpass E/B - Insitu Span - Stage 2	72	06SEP05	01DEC05	26MAY05	19AUG05	LD2030	
emporary	Works - Ching Cheung Road at LCK P Traffic Management Schemes 1st. TTMS CC Rd (E/B C/Way) - Roadworks Advice	6	20JUL05	25JUL05	04APR08	09APR08	NT2020	
VT2030	1st. TTMS CC Rd (E/B C/Way) - Site Preparation	6	26JUL05	01AUG05	10APR08	16APR08	NT2030	
VT2040	1st. TTMS CC Rd (E/B C/Way) - Implementation	288*	02AUG05	17JUL06	17APR08	16APR08	NT2040	1
Retaining V	Vall CCR-R1 West Bound							
W1030	W/B Ret. Wall CCR-R1A East - Excavate	48	24JUN05A	23AUG05	24JUN05A	13APR05	NW1030	
W1040	W/B Ret. Wall CCR-R1A East - Bases	48	04JUL05A	13SEP05	04JUL05A	05MAY05	NW1040	
W1050	W/B Ret. Wall CCR-R1A East - Walls	72	13JUL05A	06OCT05	13JUL05A	26MAY05	NW1050	
W1060	W/B Ret. Wall CCR-R1A East - B/fill & Remove T/W	36	22SEP05	04NOV05	13MAY05	24JUN05	NW1060	1
W1120	W/B Ret. Wall CCR-R1B - Excavate	15	06AUG05	23AUG05	28DEC04	14JAN05	NW1120	
W1130	W/B Ret. Wall CCR-R1B - Bases	24	24AUG05	21SEP05	05JAN05	01FEB05		1
W1140	W/B Ret. Wall CCR-R1B - Walls	36	22SEP05	04NOV05	02FEB05	18MAR05	NW1140	-
W1200	W/B Ret. Wall CCR-R1A West - Excavate	15	20JUL05	05AUG05	29NOV04	15DEC04	NW1200	
W1210	W/B Ret. Wall CCR-R1A West - Bases	24	27JUL05	23AUG05	06DEC04	04JAN05	NW1210	
W1220	W/B Ret. Wall CCR-R1A West - Walls	36	10AUG05	21SEP05	20DEC04	01FEB05		
t Date sh Date a Date	23SEP03 P3 15MAY08 20JUL05	File : LU22 H	lighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progr 0 July 200	amme	Sheet 15 of 19 03/01	
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Activity	Activity	Orig.	Early	Early	Late	Late	1					20	05					
ID	Description	Durn.	Start	Finish	Start	Finish	JUL		AU				SEP			-	OCT	
W1230	W/B Ret. Wall CCR-R1A West - B/fill Behind Wall	12	22SEP05	06OCT05	02APR05	16APR05	18 25	1	8 15	5 22	29	5	12	19	26		10 17	24
	Wall CCR-R1 East Bound	12	220LF 03	0000105	UZAFI(UJ	TOAFICO				-	-		-	-			12.50	+
NW2000	W/B Ret. Wall CCR-R1C - Remove Abandoned Drains	24	02AUG05	29AUG05	17APR08	15MAY08		i	Carlos and	1	N	W2000		1		1		1
WW2061	W/B Ret. Wall CCR-R1 - 400 Gas Main Diversion	24	20JUL05	16AUG05	17APR08	15MAY08				W206		**2000	1	1			-	1
W2065	W/B Ret. Wall CCR-R1C (Bays 1 & 2) -Backfill	24	30MAY05A	22JUL05	30MAY05A	23MAY05	NW206	5		***200								1
W2070	W/B Ret. Wall CCR-R1C - Parapets on Wall	48	20AUG05	180CT05	22JUN05	17AUG05		Ĭ		-	- 4	-		-	-	-	N	W207
NW2130	W/B Ret, Wall CCR-R1D - Bases	48	03JAN05A	27JUL05	03JAN05A	27JUL05	N	V2130		1	1		1					**207
NW2140	W/B Ret, Wall CCR-R1D - Walls	72	25JAN05A	10AUG05	25JAN05A	10AUG05		2150	NW21	40	+		-	1	1	+		+
NW2150	W/B Ret, Wall CCR-R1D - Backfill Behind Wall	24	30MAY05A	17AUG05	30MAY05A	17AUG05				NW21	50		i	1	1		1	1
NW2160	W/B Ret. Wall CCR-R1D -Parapets on Wall	60	190CT05	28DEC05	18AUG05	290CT05	-		1.1	144421				i –		N	W2160	
NW2240		24	23JUL05	19AUG05	24MAY05	2900105 21JUN05		l i		NW2	240	1	i	1		1 1	112100	1
	W/B Ret. Wall CCR-R1E - Parapets on Wall	24	2330105	19AUG05	24MA105	ZIJUNUS			-	INVV2	240			1	-			+
Drainage W			10111005	101101/05					NA3000		1		i	-	1	1	i	
NA3000	C.C. Rd. E/B in New C/way - Stormwater Drainage	75	18AUG05	16NOV05	11JAN06	12APR06			NASUUU	1	1	-	1	ſ	T			
At Grade	Work - Ching Cheung Road - Main Sect	ion	A PRIMA	all same														
Temporary	Traffic Management Schemes																	
RT1110	TTMS Lai Wan Rd - (Abut DA2) - CRE Endorsement	6	20JUL05	25JUL05	26NOV04	01DEC04	RT1	110										
RT1120	TTMS Lai Wan Rd - (Abut DA2) - Roadworks Advice	4	26JUL05	29JUL05	02DEC04	05DEC04		T1120										
RT1130	TTMS Lai Wan Rd - (Abut DA2) - Site Preparation	2	30JUL05	01AUG05	06DEC04	07DEC04		RT11	30					1				
RT1140	TTMS Lai Wan Rd - (Abut DA2) - Implementation	12*	02AUG05	15AUG05	08DEC04	21DEC04			R	T1140			1	1				
RT2210	3rd. TTMS CC Rd (Slewing) -CRE Endorsement	6	22SEP04A	01AUG05	22SEP04A	19APR08		RT22	10					i .				
RT2220	3rd. TTMS CC Rd (Slewing) - Roadworks Advice	12	02AUG05	13AUG05	20APR08	01MAY08			RT	2220	1		1	1				1
RT2230	3rd. TTMS CC Rd Slewing) - Site Preparation	12	15AUG05	27AUG05	02MAY08	15MAY08					RT	2230	1	1			1	į
Earthworks	s & Slope Works - CCR-S1, S2 & S3									1	1			1				
RE1700	Slope CCR-S1E - Finish Seed & Planting +62.3mPD	6	20JUL05*	26JUL05	09OCT06	14OCT06	RE	1700		1				1			- 1	1
RE1710	Slope CCR-S1E - Finish Seed & Planting +54.8mPD	12	27JUL05	09AUG05	16OCT06	30OCT06		-	RE171	0				1				l.
RE1720	Slope CCR-S1E - Finish Seed & Planting +47.3mPD	12	10AUG05	23AUG05	31OCT06	13NOV06				F	RE172	0						
RE1710A	Slope CCR-S1C- Finish Seed & Planting +54.9mPD	12	20JUL05	02AUG05	16OCT06	30OCT06		RE1	710A					1				
RE1720A	Slope CCR-S1C - Finish Seed & Planting +47.3mPD	12	03AUG05	16AUG05	31OCT06	13NOV06			F	RE1720	A			1				
RE1630	Slope CCR-S1E&C - Drainage to level +39.8mPD	48	20JUL05	13SEP05	26JAN05	25MAR05			1.1			-	RE1	1630	1			1
RE1800	Slope CCR-S1E&C -Excavate Rock to Level +32.4mPD	48	14SEP05	11NOV05	26MAR05	23MAY05				1	1	RE1	1800	÷		in the second	H.	
RE1810	Slope CCR-S1E&C - Rock Stabilisation to +32.3mPD	48	15OCT05	09DEC05	25APR05	21JUN05				1	i.			1	į.	RE18	810	
RE1630B	Slope CCR-S1W - Drainage to Levell +39.95mPD	24	20JUL05	16AUG05	22SEP06	23OCT06			F	RE1630	B							
RE1720B	Slope CCR-S1W - Seed & Planting to +39.95mPD	36	27JUL05	06SEP05	30SEP06	13NOV06			-		1	R	E1720B		1	[]		1
art Date hish Date ta Date	23SEP03 15MAY08 20JUL05 © Primavera Systems, Inc.		lighways D Ro	ute 8 - Lai nonth Rol	t Contract Chi Kok V ling Progra 0 July 2009	iaduct amme	Sheet 1 03/01	6 of 19)		1				S	0		

Activity Description e CCR-S1W - Bulk Excavate to Level +32.3mPD e CCR-S1W - Detailed Excavate to Level +32.3m e CCR-S1W - Rock Stabilisation to 32.4mPD e CCR-S1W - Drainage to Level +32.4mPD	Orig. Durn. 24 12 36	Early Start 11APR05A 21MAY05A 23JUL05	Early Finish 22JUL05 22JUL05	Late Start 11APR05A	Late Finish 26MAR05	JUL 18 25	1 8	AUG	22 29	5	SEP 12 19	26 3	OCT	7 24
e CCR-S1W - Bulk Excavate to Level +32.3mPD e CCR-S1W -Detailed Excavate to Level +32.3m e CCR-S1W - Rock Stabilisation to 32.4mPD	24 12	11APR05A 21MAY05A	22JUL05	11APR05A			1 0		<i>((</i>)		12 119 1	20 3	10 17	
e CCR-S1W -Detailed Excavate to Level +32.3m e CCR-S1W - Rock Stabilisation to 32.4mPD			22JUL05			RE1215	5	10						
e CCR-S1W - Rock Stabilisation to 32.4mPD		00 11 11 05		21MAY05A	16JUL05	RE1215	5A	1 1	1				1	ł
		ZJULUD	02SEP05	04JUL05	13AUG05					RE1540				
	24	20AUG05	16SEP05	01AUG05	27AUG05	-					RE1640	в		
e CCR-S1W - Bulk Excavate to Level +24.9mPD	24	23JUL05	19AUG05	28MAR05	25APR05			R	E1235					
				29AUG05	10SEP05							RE	235A	i
	6	04OCT05	10OCT05	06JUL06	12JUL06								RE1237	1
	3	07OCT05	10OCT05	10JUL06	12JUL06								RE1240)
	12	12OCT05	25OCT05	13JUL06	26JUL06			1				RE124	A	1
	54	20AUG05		23MAY06	26JUL06		R	E1550			ii	i	12	
	24	12OCT05		13JUL06	10AUG06							RE16	50	
											R	1250	1 1	
	36	23SEP05	05NOV05	30MAY05	12JUL05						RE1270	-	H	
	24	17SEP05	180CT05	11AUG06	07SEP06					8	C		-X	RE166
				1										
	0	20JUL05*		07DEC04		RW1190		1 1		1				1.
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0	24	03AUG05	30AUG05	22NOV05	19DEC05				F	W1300				
	27	31AUG05	03OCT05	20DEC05	21JAN06					-		RW	1320	
	12	04OCT05	18OCT05	23JAN06	08FEB06								F	RW13
	24	19OCT05	15NOV05	09FEB06	08MAR06					1			RW1340	1
•	12	13SEP05	27SEP05	02MAR06	15MAR06			1		i		RW1400	1 1	1
0.00 to 02.13 - Mass Concrete Facing Wall	6	28SEP05	05OCT05	16MAR06	22MAR06					1		R	N1420	1
· · · · · · · · · · · · · · · · · · ·	6	06OCT05	13OCT05	23MAR06	29MAR06				1	i.			-RW1	430
	16	14OCT05	01NOV05	30MAR06	18APR06							RW	1440	
														1
	75	27JAN05A	12AUG05	27JAN05A	21OCT05			RW2050)				-	
	75	13AUG05	11NOV05	22OCT05	19JAN06		RW2056			200			2	-
Wall CCR-R3D - 10No Bored Piles Piles	50	20JUL05	15SEP05	27JUN05	24AUG05		1				RW2550			
	e CCR-S1W -Detailed Excavate to Level +24.9m e CCR-S1W -Platform for Soil Nails R 3 & 4 e CCR-S1W -Soil Nails (R. 3 & 4) Test Nail e CCR-S1W - Soil Nails (Row 3 & 4) Working e CCR-S1W - Rock Stabilisation to 24.9mPD e CCR-S1W - Drainage to Level +24.9mPD e CCR-S1W - Drainage to Level +24.9mPD e CCR-S1W - Bulk Excavate to Level +19.0mPD e CCR-S1W - Bulk Excavate to Level +19.0mPD e CCR-S1W - Seed & Planting to +32.4mPD CCR-R2 (Value Engineering Design) st Date for Acceptance of Value Eng. 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Activity	Activity	Orig.	Early	Early	Late	Late						-	2005				_		-
ID	Description	Durn.	Start	Finish	Start	Finish		JL 25 1	8	AUG	22	20	5	SEP		26	2 1	OCT 0 17	
RW2560	Ret, Wall CCR-R3D - 10No Bored Piles Piles	50	16SEP05	16NOV05	25AUG05	25OCT05	10	23 1	0	15	44	29	RW2	560	19	20		0 17	24
	Vall CCR-R3 Type A												1						-
RW3010	Ret, Wall CCR-R3A - Excavation & Blinding	18	07OCT05	28OCT05	23AUG04	11SEP04										RW30	10		
And the second s	& Slope Works - CCR-S4	1				1											-		-
RE4230	Slope CCR-S4 - Rock Fence Between CCR-R2 & R3	24	20JUL05	16AUG05	13SEP05	13OCT05	-		12120111	RE	4230								
RE4260	Slope CCR-S4 - Excavate & Bench East of Abut. D	24	17AUG05	13SEP05	14OCT05	10NOV05			ł.		1		1	RE4	260	1	ł		ł
RE4265	Slope CCR-S4 - Excavate & Bench West of Abut. D	24	14SEP05	14OCT05	11NOV05	08DEC05			i.				1			<u> </u>			265
RE4267	Slope CCR-S4 - Relocate Tem Rock Fence	24	15OCT05	11NOV05	09DEC05	07JAN06			l.	1	1 1		1			1	RE42	267	
Drainage W										-							-	1	-
RR1015	1200 dia. Stormwater Diversion at Pier D4	58	21JUN05A	09AUG05	21JUN05A	15MAY08	1000		R	R1015	1 1		1						l l
Utilities & R			21001100/1	00/10000	2100110011	101101100				1			1					-	
RA4000	Ching Cheung Rd. New E/B Slip Road - E&M +TCSS	75	04OCT05	31DEC05	12SEP05	10DEC05									F	A4000			
and the second second second second		10	0400100	SIDEOUS	12021 00	TODECCO				-			-	-					
	Works - Butterfly Valley Interchange					The manage			÷.							6 11		1	
	Traffic Management Schemes							DTOLO								8 18			
PT2120	TTMS CP Rd-KC S/B for CCR-R6 - Roadworks Advice	7	20JUL05	26JUL05	17APR08	23APR08		PT212	1		1 1					1 1			
PT2130	TTMS CP Rd-KC S/B for CCR-R6 - Site Preparation	12	27JUL05	09AUG05	24APR08	08MAY08	DTO		P	T2130	1 1		1	1		<u> </u>	i	_	
PT2140	TTMS CP Rd-KC S/B for CCR-R6 - Implementation	239*	27JUL05	12MAY06	24APR08	23APR08	PT21						1			L_L			
PT2200	TTMS CP Rd-KC S/B for Paving -Prepare for Review	18	20JUL05	09AUG05	03MAY04	22MAY04		1	P	T2200					-				
PT2210	TTMS CP Rd-KC S/B for Paving - CRE Endorsement	6	21AUG05	26AUG05	22JAN06	27JAN06		1		1	P	T221	1						
PT2220	TTMS CP Rd-KC S/B for Paving - Roadworks Advice	7	27AUG05	02SEP05	28JAN06	03FEB06							PT2220	3 3					
PT2230	TTMS CP Rd-KC S/B for Paving - Site Preparation	6	03SEP05	09SEP05	04FEB06	10FEB06			_				F	T2230					
PT2300	TTMS CP Rd-KC N/B for 11NW-A/C66-Prep for Review	16	20JUL05	06AUG05	26APR08	15MAY08			PT2	300									
PT2310	TTMS CP Rd-KC N/B for 11NW-A/C66 - CRE Endorse	6	20JUL05	25JUL05	30DEC05	04JAN06	_	PT2310								6 11			
PT2320	TTMS CP Rd-KC N/B for 11NW-AC66 - Roadwks Advice	7	26JUL05	01AUG05	05JAN06	11JAN06		P	T2320				-	-					_
PT2330	TTMS CP Rd-KC N/B for 11NW-A/C66 - Site Prepare	6	02AUG05	08AUG05	12JAN06	18JAN06	-		- P	2330	1	1	1	1			-		i
PT2340	TTMS CP Rd-KC N/B for 11NW-A/C66 - Implement	246*	09AUG05	02JUN06	19JAN06	13NOV06		PI2	2340	1	1 1		-	1		- ři			
	& Slopeworks - 11NW-A/C26								1										
PE1010	Slope 11NW-A/C26 - Trim slope	12	04OCT05	18OCT05	11AUG06	24AUG06				į.			1						PE1010
PE1015	Slope 11NW-A/C26 - Platform for Soil Nailing	6	19OCT05	25OCT05	25AUG06	31AUG06		[P	E1015	
	& Slopeworks - 11NW-A/C66																	-	
PE2000	Slope 11NW-A/C66 - Hoardings / Fencing	18	09AUG05	29AUG05	19JAN06	11FEB06				1	1	PE2	000						
PE2010	Slope 11NW-A/C66 - Trim Slope	24	31AUG05	28SEP05	13FEB06	11MAR06							1		-	PE2	.010	_	_
PE2015	Slope 11NW-A/C66 - Platform for Soil Nailing	18	29SEP05	210CT05	13MAR06	01APR06							1					-	PE20
art Date lish Date ta Date	© Primavera Systems, Inc.		lighways D Ro	ute 8 - Lai nonth Rol	Chi Kok V	/iaduct amme		eet 18 o	of 19			r		E ales cubier		S	C		

Activity	Activity	Orig.	Early	Early	Late	Late				1-STATE	121.29			200							
ID	Description	Durn.	Start	Finish	Start	Finish		25	1	8	AUG 15	22	29	5	SEP 12		26	3	10		24
Retaining W	Vall CCR-R5 (Pre-bored "H" Piles)						10	23	1	0	15	66	23	5	12	19	20	2	10	11	24
PW2040	Ret. Wall CCR-R5 - Stage 1 - Fill Behind Wall	48	20JUL05	13SEP05	19MAR08	15MAY08		10.100		11, 191	1000	10500		178-25	PW2	040					
PW2130	Ret. Wall CCR-R5 - Stage 2 - Install "H" Piles	18	20JUL05	09AUG05	11APR05	30APR05			1000	PW	2130										
PW2140	Ret. Wall CCR-R5 - Stage 2 - Fill Behind Wall	18	10AUG05	30AUG05	24JUL06	14AUG06		1			-	1	PV	V2140	1 1						ł.
PW2150	Ret. Wall CCR-R5 - R.C. Wall CCR-R5A	36	20JUL05	30AUG05	18MAR06	29APR06		-	1000	dit Serie	-	1.55	PV	V2150							
PW2200	Ret. Wall CCR-R5 - Excavate in Front of Ret Wall	12	14JUN05A	25JUL05	14JUN05A	19JAN06		PW	2200	1	1		1	1				1			
PW2220	Ret. Wall CCR-R5 - Coping & Facing to Ret Wall	75	20JUL05	180CT05	22FEB06	22MAY06		-	12010	1	-	10000	-					(×	PW	1222
PW2230	Ret. Wall CCR-R5 - Slope Works Behind Wall	75	31AUG05	29NOV05	15AUG06	13NOV06						PW22	30	at de Ros		-	-	-	×		-
Retaining W	Vall CCR-R6 (Pre-bored "H" Piles)																				
PW3000	Ret. Wall CCR-R6 - Hoardings	18	27JUL05	16AUG05	24APR08	15MAY08			100	12.1	PW	3000									
PW3030	Ret. Wall CCR-R6 -Temporary Pre-driling Platform	30	16DEC04A	25JUL05	16DEC04A	15MAY08		PW	3030												
PW3035	Ret. Wall CCR-R6 - Pre-boring for Piling	75	14JAN05A	12AUG05	14JAN05A	13MAY05				F	W303	5									
PW3037	Ret. Wall CCR-R6 -Temporary Piling Platform	50	13AUG05	13OCT05	14MAY05	13JUL05		ł.			1			1				-	P	/3037	t
PW3040	Ret. Wall CCR-R6 - Install "H" Piles Stage 1	50	14OCT05	10DEC05	14JUL05	09SEP05		1		i i	1		1		1 1			PW	3040		÷
Utilities & R	Roadworks		y					1			1	1	1				i.	l.			1
PR1110	CLP Slew 2No.132kva No.5 Behind Wall SSR-R5	18	14SEP05	13SEP05	16MAY08	15MAY08		1		į. –	1	1	i	1		1	-	Ē	R1110		

Start Date		23SEP03 P3 File	e : LU22	Sheet 19 of 19	ALC: NOT THE OWNER.	
Finish Date		15MAY08	Highways Department Contrac	No HV/2002/01		
Data Date		20JUL05				
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APPENDIX C MONITORING REQUIREMENTS

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1-hour TSP 24-hour TSP	3 times every 6 days Once every 6 days	AM2 (Lai Chi Kok Park Sports Centre)	• Rooftop facing the site area
	L _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week	NM2 (Lai Chi Kok Reception	 NM2 – Roadside (Façade measurement)
	L_{eq} , L_{90} & L_{10} at 5 minute intervals during (1900 to 2300) ⁽¹⁾	Once per week (include 3 consecutive 5-min measurements)	 Centre) ⁽²⁾ NM3 (Lai Chi Kok Hospital) ⁽³⁾ NM4 (Mei Foo Sun Chuen, 	 NM3 – Rooftop of Block L (Façade measurement) NM4 – Rooftop of Block 9
Noise	L_{eq} , L_{90} & L_{10} at 5 minute intervals during (2300 to 0700 of next day) ⁽¹⁾	Once per week (include 3 consecutive 5-min measurements)	Once per weekPhase 5)lude 3 consecutive in measurements)• NM8a (M/F of Nob Hill)Once per week• NM8b (3/F of Nob Hill)Once per week• NM9 (Hoi Lai Estate)	 (Façade measurement) NM8a – M/F of Nob Hill (Façade measurement) NM8b – 2/E of Nob Hill
	L_{eq} , L_{90} & L_{10} at 5 minute intervals during (0700 to 1900 on holidays) ⁽¹⁾	Once per week (include 3 consecutive 5-min measurements)		 NM8b – 3/F of Nob Hill (Façade measurement) NM9 – G/F of Hoi Fai House

⁽¹⁾ – Conduct noise monitoring only when construction work is carried out.

⁽²⁾ – Renovation work was undertaken at the Lai Chi Kok Reception Centre (NM2) and the centre was found vacated. The noise monitoring was suspended since December 2004. Approval for the change of EM&A Programme was granted by EPD on 30 December 2004.

⁽³⁾ - The Lai Chi Kok Hospital (NM3) was also found vacated and noise monitoring could not be conducted since January 05. EPD's approval for suspension of noise monitoring at this station was received on 15th March 2005.

APPENDIX D ENVIRONMENTAL QUALITY PERFORMANCE (ACTION/LIMIT) LEVELS

Appendix D - Action and Limit Levels (LCKV)

1-Hour TSP

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

24-Hour TSP

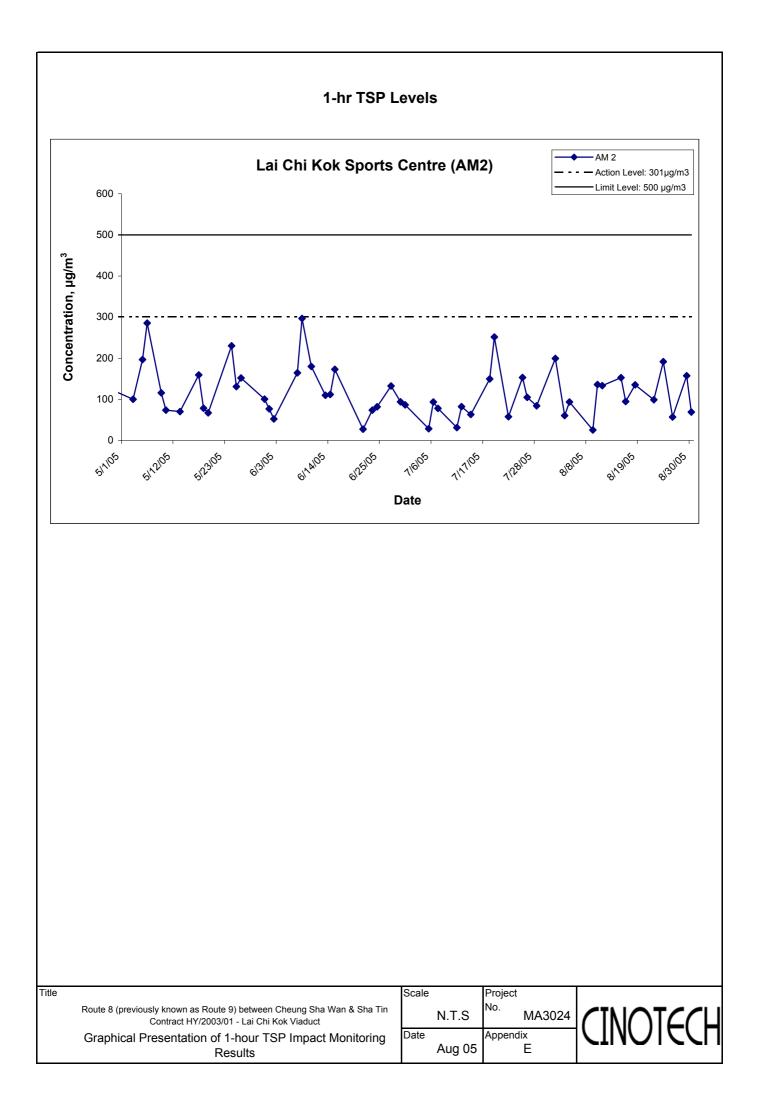
Location	Action Level, µg/m ³	Limit Level, µg/m ³
AM2	177	260

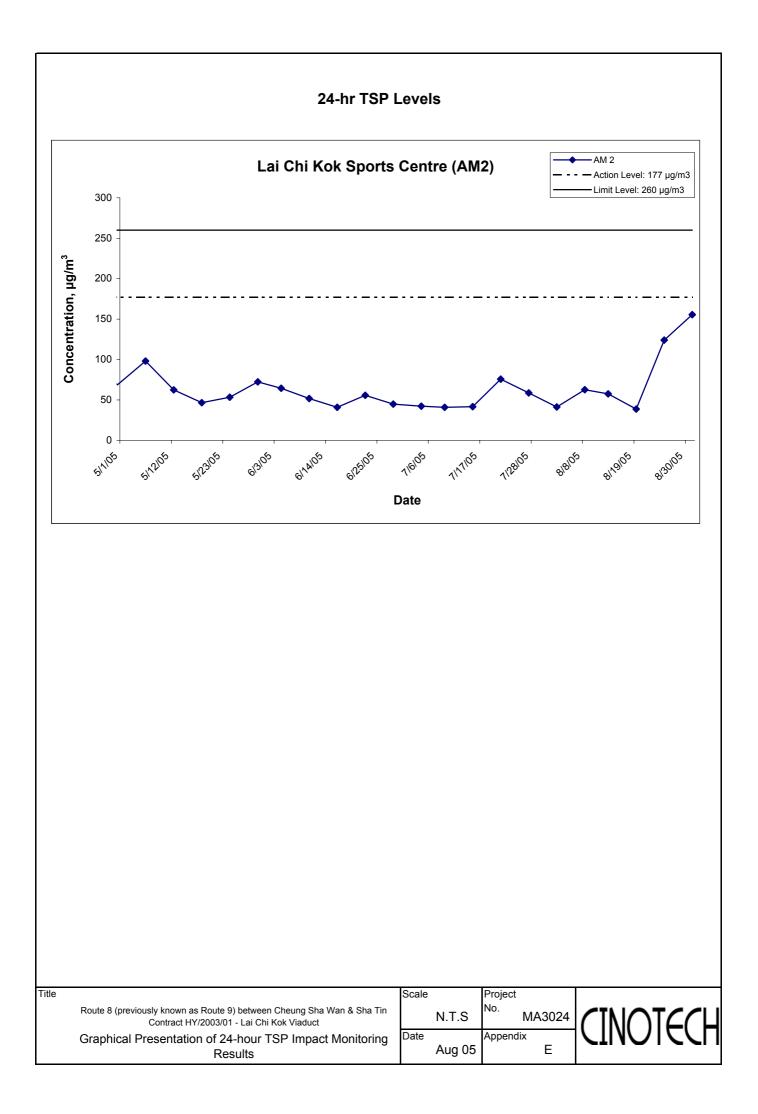
Construction Noise

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		55* dB(A)

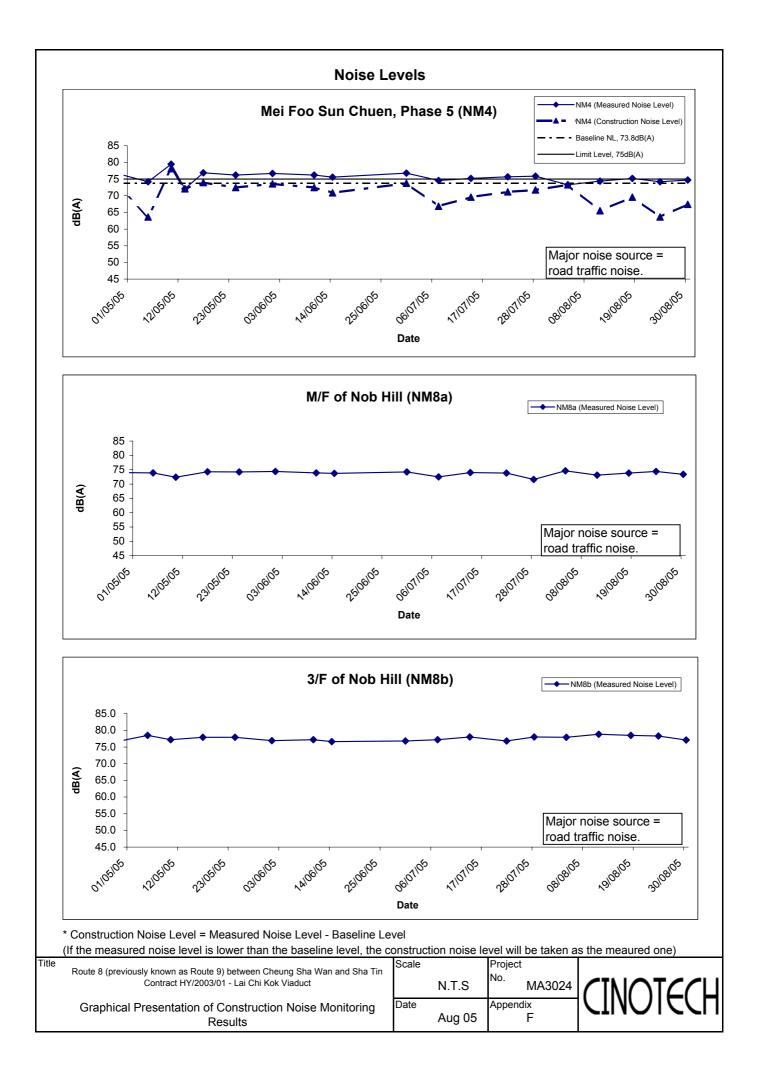
(*) The Area Sensitivity Rating for the noise monitoring stations (NM3, NM4, NM8a, NM8b and NM9) is taken as C, according to Table 1 of EPD's Technical Memorandum on Noise from Construction Work other than Percussive Piling.

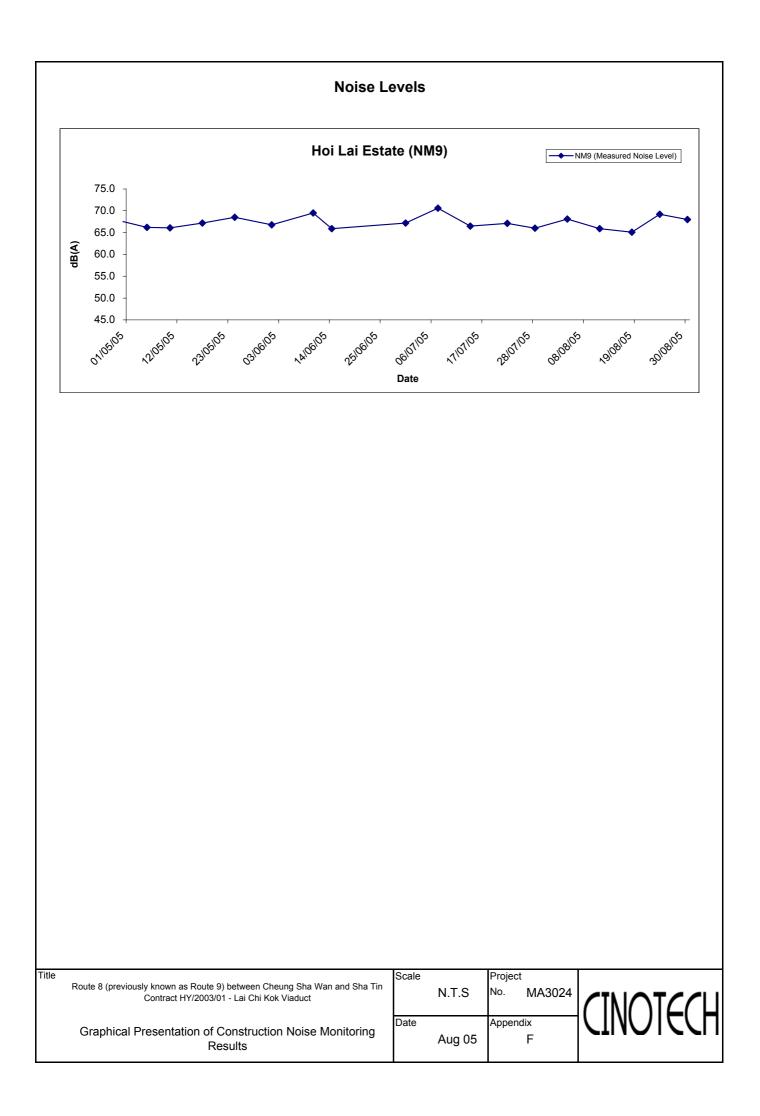
APPENDIX E GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING RESULTS

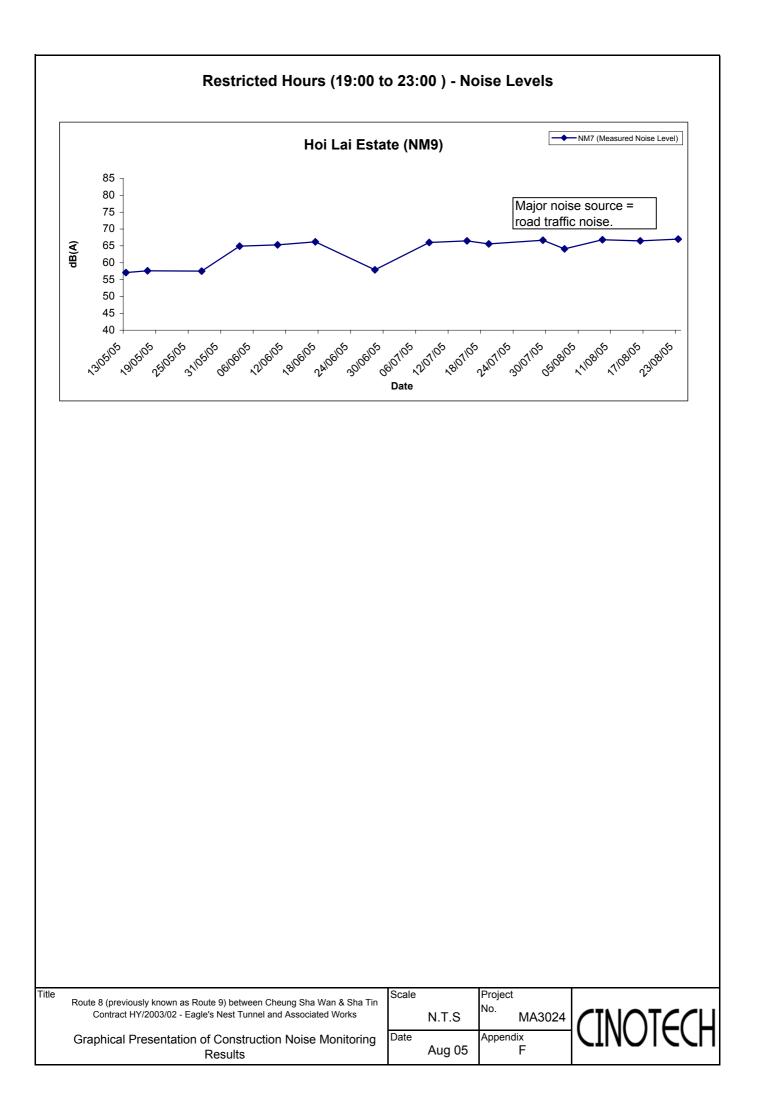




APPENDIX F GRAPHICAL PRESENTATION OF NOISE MONITORING RESULTS







APPENDIX G IMPLEMENTATION SCEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

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.	^
	 Vehicle washing facilities should be provided at every exit point. 	^
	• 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.	^
	• 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.	^
Construction Noise	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.	^
	• Mobile plant should be sited as far away from NSRs as possible.	^
	• 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	^

Appendix G - Summary of Environmental Mitigation Implementation Schedule

Types of Impacts	Mitigation Measures	Status
	Reduce the number of plant operating in critical areas close NSRs.	^
	Construct temporary and movable noise barriers	^
Water Quality	Construction Runoff and Drainage	
	• Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow.	^
	• 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.	^
	• 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.	^
	• 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.	٨
	• 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	1
	• 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

Types of Impacts	Mitigation Measures	Status
•	• 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
	General Construction Activities	
	• Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts.	^
	• 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	
	• 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.	^
	• 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 waste 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.	^
	• Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers.	^
	• 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.	^
	 Maintain records of the quantities of wastes generated, recycled and disposed. 	^

Types of Impacts	Mitigation Measures	Status
	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	
	 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.	^
	 Containers used for the storage of chemical wastes should: a. Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; 	
	 b. Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; c. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. 	^
	 The storage area for chemical wastes should: a. Be clearly labelled and used solely for the storage of chemical waste; 	
	 b. Be enclosed on at least 3 sides; 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; d. Have adequate ventilation; 	^
	e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary);	
	 f. Be arranged so that incompatible materials are adequately separated. 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	

Types of Impacts	Mitigation Measures	Status
	• 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.	N/A
	• A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza.	N/A
	• Conduct a tree survey before commencement of the construction work.	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.	N/A
	• Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately.	N/A
	• Wild and uncontrolled fire shall be strictly prohibited	^
	• 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. 	N/A
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 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. 	N/A
	 Measurement of vibration would also be carried out on a need basis during the piling work 	N/A

Remarks:	^	Compliance of mitigation measure;	Х	Non-compliance of mitigation measure;
	N/A	Not Applicable;	•	Non-compliance but rectified by the contractor

APPENDIX H SUMMARY OF ENVIRONMENTAL LICENCES AND PERMITS

Appendix H - Summary of Environmental Licensing and Permit Status (LCKV)

Permit No.	Valid	Period	Details	Status
refinit No.	From	То	Details	Status
Environmental Permi	t (EP)			L
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; (c) 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
Registration of Chemi	ical Waste Pro	ducer		
WPN 5213-261-N2413-04	17/11/03	N/A	N/A	Valid
Water Discharge Lise EP482/260/251/1	nce 05/12/03	31/12/08	Discharge of industrial trade effluent arising from the	Valid
EI 482/200/231/1	03/12/03	51/12/08	construction site at Route 9 – Lai Po Road Section of Lai Chi Kok Viaduct (Contract HY/2003/01).	v anu
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
Construction Noise Pe	ermit (CNP)			
GW-RW0109-05	02/03/05	01/10/05	<i>Location</i> : Butterfly Valley (P16-P18) <i>Time Period</i> : General holidays (including Sundays) between 0700-1900 hours and any other days between 1900-2300 hours	Valid
GW-RW0110-05	02/03/05	01/09/05	<i>Location</i> : Ching Cheung Road near Mei Foo Sun Chuen <i>Time Period</i> : General holidays (including Sundays) between 0700-1900 hours and any other days between 1900-2300 hours	Expired
GW-RW0130-05	16/03/05	15/09/05	<i>Location</i> : Castle Peak Road (R6) <i>Time Period</i> : Any day not being a general holiday between 2300-0700 hours	Valid
GW-RW0169-05	29/03/05	28/09/05	<i>Location</i> : Kom Tsun Street near LCK Interchange <i>Time Period</i> : Any day not being a general holiday between 2100-0700 hours	Valid
GW-RW0176-05	25/03/05	19/09/05	<i>Location</i> : Ching Cheung Road near Nob Hill <i>Time Period</i> : General holidays (including Sundays) between 0700-1900 hours	Valid

Permit No.		Period	Details	Status
I CI IIII I NO.	From	То	Details	Status
GW-RW0211-05	07/04/05	06/10/05	<i>Location</i> : Junction of Ching Cheung Road and Castle Peak Road <i>Time Period</i> : General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours	Valid
GW-RW0226-05	14/04/05	13/10/05	<i>Location</i> : Butterfly Valley Road near Kwai Chung Road <i>Time Period</i> : General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours	Valid
GW-RW0251-05	21/04/05	20/10/05	<i>Location</i> : Butterfly Valley <i>Time Period</i> : General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours	Valid
GW-RW0296-05	09/05/05	08/11/05	<i>Location</i> : Butterfly Valley near Kwai Chung Road <i>Time Period</i> : Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid
GW-RW0301-05	10/05/05	08/11/05	<i>Location</i> : Butterfly Valley Road near LCK Reception Centre <i>Time Period</i> : Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid
GW-RW0310-05	17/05/05	16/11/05	<i>Location</i> : Lai Po Road (Pier B3) <i>Time Period</i> : Any day not being a general holiday between 2100-0700 hours	Valid
GW-RW0354-05	08/06/05	05/11/05	<i>Location</i> : Lai Po Road (P1/L segment erection) <i>Time Period</i> : Any day not being a general holiday between 2100-0700 hours	Valid
GW-RW0401-05	27/06/05	22/12/05	<i>Location</i> : Butterfly Valley Road near LCK Interchange <i>Time Period</i> : Any day not being a general holiday between 2100-0700 hours	Valid
GW-RW0402-05	27/06/05	23/12/05	<i>Location</i> : Butterfly Valley Road near LCK Fire Station <i>Time Period</i> : Any day not being a general holiday between 2100-0700 hours	Valid
GW-RW0416-05	29/06/05	28/12/05	<i>Location</i> : Lai Po Road near Hoi Lai Estate <i>Time Period</i> : General holidays (including Sundays) between 0700-2300 hours and any other days between 1900-2300 hours	Valid
GW-RW0445-05	08/07/05	07/01/06	<i>Location</i> : Carriageway (east bound) of Kwai Chung Road near LCK Fire Station <i>Time Period</i> : General holidays (including Sundays) between 0700-2100 hours and any other days between 1900-2100 hours	Valid
GW-RW0465-05	23/7/05	20/01/06	<i>Location</i> : Butterfly Valley near LCK Reception Center <i>Time Period</i> : Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid

Permit No.	Valid	Period	Details	Status	
refinit No.	From To		Details	Status	
GW-RW0501-05	03/08/05	02/02/06	<i>Location</i> : Hing Wah Street West (Jetty Area) <i>Time Period</i> : Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid	
GW-RW0502-05	06/08/05	03/02/06	<i>Location</i> : Yuet Lun Street and Kwai Chung Road <i>Time Period</i> : Any day not being a general holiday between 2100-0700 hours	Valid	
GW-RW0519-05	13/08/05	12/02/06	<i>Location</i> : Butterfly Valley Road near LCK Reception Center <i>Time Period</i> : Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid	
GW-RW0526-05	14/08/05	05/02/06	<i>Location</i> : Cheung Sha Wan Road near Butterfly Valley Road <i>Time Period</i> : General holidays (including Sundays) between 0900-2300 hours	Valid	
GW-RW0527-05	13/08/05	12/02/06	<i>Location</i> : Butterfly Valley near LCK Reception Center <i>Time Period</i> : Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid	
GW-RW0534-05	17/08/05	16/02/06	<i>Location</i> : Lai Po Road near Yuet Lun Street <i>Time Period</i> : Whole day of general holidays (including Sundays) and any other days between 1900-0700 hours on next day	Valid	
GW-RW0535-05	17/08/05	15/02/06	<i>Location</i> : Butterfly Valley Road and Kom Tsun Street <i>Time Period</i> : Any day not being a general holiday between 2100-0700 hours	Valid	

APPENDIX I COMPLAINT LOGS

Appendix I - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
Ref. 40318	Nob Hill	18 March 2004	Kwai Tsing District Officer (KTDO)recently received a public noisecomplaint about construction noisegenerated from the Route 8 – Lai ChiKok Viaduct (R8-LCKV) Project, nearNob Hill, Lai Chi Kok. KTDO referredthe complaint to the HighwaysDepartment (HyD) on the same day.HyD subsequently referred thecomplaint to the Environmental Team(ET) Leader of the Project on 18 March2004.The complaint was raised by theCitybase Property Management Ltd.(the management company of NobHill) and the Secretarty of Nob HillOwners Committee (Mr. Kevin Tse)about construction noise generated	 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: Item 1 – Breaking off existing planter and excavate trial trench to expose underground utilities (using one to two backhoes) Item 2 – Erect rock fall fence & forming platform for predrilling (using one backhoe and occasionally one crane lorry) Item 4 – Excavate further to expose all underground utilities (using hand tools) Item 5 – Pre-drilling works (using one drilling rig) 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 	Closed
			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 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 residents living in the vicinity.	 after the issue date of this complaint, so this activity was not considered in this report. 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. 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 	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				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).	
				 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: To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site. 	
				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	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
40330	Site Areas near Nob Hill	30 March 2004	 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. 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. 	 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. 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: To space out noisy equipment and position it as far away as possible from the sensitive receivers; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site. 	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	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				 Road in front of Nob Hill. 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 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). 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 To space out noisy equipment and position it as far away as possible from the sensitive receivers; To avoid concurrent uses of noisy equipment near the sensitive area; To ensure the equipment are maintaining in good operation condition; and To turned off any idle equipment on site. 	
40710	Pier P7 in Portion E1	10 July 2004	A public complaint was raised on 30 th 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 rd July 2004 and subsequently referred to the ET Leader of the Project on 10 th July 2004.	 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 5th July 2004. During ET's weekly environmental site inspection on 14th July 2004, no serious water quality nuisance induced by the Project works was observed at the construction sites near Pier P7. It was 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			The complaint was raised by Mr. Chan, regarding the washout of muddy water from the works area of the R8-LCKV	also noted that the back of profile barriers along the site boundary had been sealed up by cement as preventive measures. During ET's weekly environmental site inspections on 17, 24 &	
			Project onto Lai Chi Kok Road. The washout caused nuisance to the drivers utilizing the road, and may also cause danger to the motorbikes.	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.	
				 Nevertheless, the Contractor was recommended to adopt the following measures to avoid re-occurrence of similar incidents: to enhance surface runoff control measures along the site boundary; to provide adequate training to the frontline workers; and to regularly inspect temporary water supply equipment, such as hose pipe to make sure the equipment is in good condition. 	
40809	Ching Cheung Road area near Nob Hill	22-Jul-04 (by EPD) 09-Aug-04 (by ET Leader)	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. 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:	 Information Provided by RSS 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. Area A: Item 1 – Drainage works by using 1 x backhoe; 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; Item 3 – Trial trench excavation by man power; Item 4 – Gas main diversion by 1 x backhoe (performed by TGC's Contractor) Area B: No construction activity was undertaken in the concerned period. 	Closed
			1. Area A: Works area between Nob	Review of Environmental Monitoring Results	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			 Hill and Lai Chi Kok Park Swimming Pool Area B: Works area between Ching Cheung Road and Mei Lai Road / Lai Wan Road opposite to Mei Foo Sun Cheung (Phase 5) and Lai Chi Kok Public Library. 	concerned works areas, include: <u>Noise Monitoring</u> NM4: R/F of Mei Foo Sun Chuen (Phase 5) NM8a: M/F of Nob Hill	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50215	Mei Foo Sun Chuen, Phase 5 (Retaining Wall CC-R3)	15-Feb-05 (by ET Leader)	A public complaint was raised on 8 th Feb 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 on 14 th Feb 2005 and subsequently referred to the ET Leader of the Project on 15 th 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.		Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50322	Seung Lai House, Wah Lai Estate (Slope S1)	11-Mar-05 (by EPD) 22-Mar-05 (by ET Leader)	Environmental Protection Department (EPD) received a public noise complaint on 11 Mar 05 about daytime construction noise generation from R8- LCKV. EPD subsequently referred the 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.	 Construction Activities As advised by the RSS, the major construction work during 25 Feb 05 to 11 Mar 05 (2 weeks before the date of complaint) in the vicinity of Wah Lai Estate included excavation work, soil nail work and installation of u-channel and manholes. The major powered mechanical equipment included excavators, drilling machine and air compressor. 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. Environmental Monitoring Ad-hoc noise measurement was conducted at Seung Lai House on 30th 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. Conclusion 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. 	Closed

Log Ref. Location	n Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50330, 50331, 50404 & 50407 Wah Lai Es	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 referred by the Resident Site Staff to the Environmental Team (ET) Leader on 30 th , 31 st March, 4 th and 7 th April 2005, respectively.	 Construction Activities 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. Environmental Monitoring Ad-hoc noise measurement was conducted at Seung Lai House on 30th Mar 05 and 7th 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). 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50404- v2	Mei Foo Sun Chuen	4-Apr-05 (by ET Leader via RSS)	A public complaint was raised on 1 st 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 th April 2005.	 Construction Activities 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. 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. 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50613 M	ei 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. The complainant was particularly concerned about the fugitive dust emission during rock / concrete breaking 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. <i>Observations</i>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50/21	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. 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.	 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. <i>Noise Measurement</i> Ad-hoc measurements were carried out on the roof of Hei Lai House on 25 July 2005. The results show that the measured noise level is well below the noise criterion of 75 dB(A). The construction noise level (with reduction of background noise) is expected to be even lower. <i>Conclusion</i> Since the noise measurement results at Wah Lai Estate were below 75 dB(A), the complaint was considered not justifiable. Nevertheless, noise mitigation measures have been implemented by the Contractor to minimize the noise impact arising from the breaking activities: Employment of silenced-type breakers; Temporary noise barriers, attached with sound adsorption materials, were erected to screen the site of breaking from sensitive receivers While the permitted hours for construction works are 7am to 7pm on non-holidays, the Contractor has commenced the rock breaking activity after 8:30am. 	Closed

APPENDIX J SUMMARY OF EXCEEDANCES

Summary of Exceedances Recorded in the Reporting Quarter

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

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

c) Exceedance Report for Construction Noise

- One action level exceedances for noise monitoring was triggered by a public noise complaint received by the ET Leader on 21 July 2005. The details of the complaint can refer to Appendix I.
- No limit level exceedance was recorded.