

# **Civil Engineering and Development Department**

**Contract No. ST 77/01**

**Sha Tin New Town, Stage II  
Road D15 Linking Lok Shun Path  
and Tai Po Road**

**Monthly Environmental Monitoring & Audit Report -  
June 2004**

**Sha Tin New Town, Stage II Road D15 Linking Lok Shun Path and  
Tai Po Road (Contract No. ST 77/01)**

**Monthly Environmental Monitoring & Audit Report –  
June 2004**

Checked in accordance with EML QA Procedure PQP-04 \_\_\_\_\_  
Environmental Team Leader

## **EXECUTIVE SUMMARY**

This impact environmental monitoring report has been prepared by Environmental Management Limited (EML) for Environmental Monitoring & Audit (EM&A) Services of Sha Tin New Town, Stage II Road D15 Linking Lok Shun Path and Tai Po Road. The EM&A services carried out in June 2004 are included in this report.

The environmental monitoring for this Project included both air quality and noise measurements. The parameters measured for air quality were 24-hour and 1-hour Total Suspended Particulate (TSP) and for noise monitoring were the A-weighted continuous sound pressure level ( $L_{eq}$ ) and percentile levels ( $L_{10}$  and  $L_{90}$ ).

Over the reporting period, all monitored 24-hour TSP, 1-hour TSP and noise ( $L_{eq}(5min)$ ) monitoring data were below the Action and Limit Levels and no remedial actions as listed in the Event and Action Plan (**Appendix G**) were required.

The major construction activities in this reporting period included:

- Construction of Bridges A, B and C, including bridge decks (Bridges A, B and C), installation of precast beams of Bridge A;
- Retaining walls 1, 2 and 7;
- Noise barrier construction for noise barrier No. 1, 4B, 4C and 5;
- Box culvert extension of 1500 pipe;
- Underground drainage and water pipes at Lok Shun Path Roundabout; and
- Landscaping.

Regular site inspection was conducted in this reporting month and the mitigation measures, as discussed in Section 3.4, were assessed.

In regard to the environmental issues in the last reporting month, it was noted from site inspections that the stagnant water near Lok Lo Ha Village House No. 97 was cleared. In addition, gullies at the Lok Lo Ha roundabout were provided with fabric mesh.

In this month, however, spots of stagnant water were observed near Contractor's Site Office, noise barrier NB1 and 4C, Bridge A1 and retaining wall RW1 which was prone to mosquito breeding. Also, rubbish was found near Bridge A and Contractor's Site Office.

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## 1. INTRODUCTION

### 1.1 Background

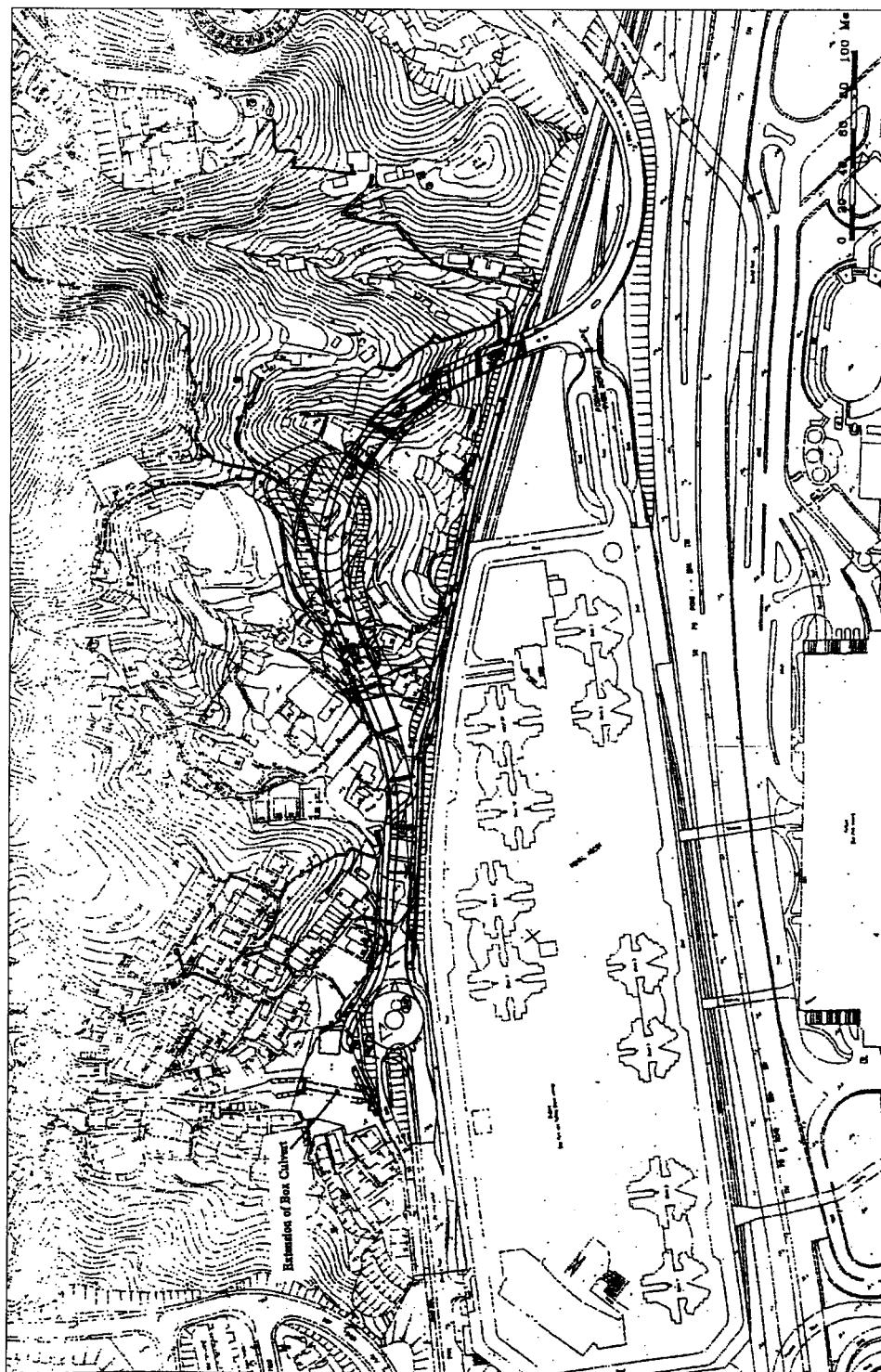
Environmental Management Limited (EML) was appointed by Maunsell Consultants Asia Ltd. as the Environmental Specialist for the project *Sha Tin New Town, Stage II Road Linking Lok Shun Path and Tai Po Road* (Contract No. ST 77/01).

The responsibilities of the Environmental Team are to:

- Monitor the noise and air quality data as required in the Environmental Monitoring and Audit (EM&A) Manual;
- Analyse the monitoring data and review the success of EM&A program to cost effectively confirm the adequacy of mitigatory measures implemented and validity of the Environmental Impact Assessment Study predictions and to identify any adverse environmental impacts arising;
- Carry out site inspection to investigate and audit the Contractor's site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and anticipate environmental issues for proactive action before problems arise;
- Review the proposal for mitigation measures submitted by Contractor in accordance with Event and Action Plans;
- Propose any improvement or other alternative mitigation measures should Contractor's proposal be found to be inadequate;
- Adhere to the procedures for carrying out complaint investigation;
- Audit and prepare EM&A reports on environmental monitoring data and site environmental conditions; and
- Report on EM&A results to Engineer, the ER and EPD.

This monthly EM&A report is for the monitoring period in June 2004. In this report, the results of the impact air quality and noise monitoring works in the reporting period as well as the environmental status and issues of Road D15 Construction Site are included. In addition, if required, any remedial/follow-up actions undertaken as a result of non-compliance with relevant environmental criteria or complaints related to Road D15 Construction Site would also be discussed.

The project area of Road D15 Construction Site is shown in **Figure 1.1**. **Appendix H** lists the project organization and contacts of key personnel.



**Figure 1.1 Project Area**

## 2. ENVIRONMENTAL STATUS

### 2.1 Air Quality

#### 2.1.1 *Monitoring Requirements*

In accordance with the EM&A Manual, air quality impact monitoring was conducted in terms of 1-hour and 24-hour TSP at the designated monitoring locations.

Continuous 24-hour TSP monitoring was performed once in every six days while 1-hour TSP monitoring was performed 3 times in every 6 days. The Action and Limit (AL) levels for air quality are included in **Appendix A**. The time schedule for the current reporting month and the tentative monitoring schedule for the next reporting month are attached in **Appendix B**.

#### 2.1.2 *Monitoring Locations*

The designated impact air quality monitoring stations are listed in **Table 2.1** and are shown in **Figure 2.1**.

**Table 2.1 Air Quality Monitoring Locations**

Monitoring Station	Location
A1	Village house at Lok Lo Ha Village
A2	Lok Lo Ha Village House No. 104
A3	Village House near Tsun King Road

#### 2.1.3 *Summary of Monitoring Results*

In this report, the results for the impact air quality monitoring conducted in June 2004 at the three designated locations were evaluated. **Table 2.2** summarises the ranges and mean of the 24-hour and 1-hour TSP monitoring results carried out in the reporting period. Detailed results, including graphical plots and relevant field logs, are presented in **Appendices C and D**. **Appendix F** shows the meteorological conditions during the monitoring days.

**Table 2.2 Summary of 24 and 1-hour TSP Monitoring Results**

Parameter	Monitoring Location	Mean TSP Levels ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	No. of Exceedance	
				Action Levels	Limit Levels
24 – hour TSP	A1	81.3	47 – 121	0	0
	A2	94.7	60 – 154	0	0
	A3	74.5	53 – 101	0	0
1 – hour TSP	A1	128.6	90 – 251	0	0
	A2	148.3	95 – 231	0	0
	A3	114.8	74 – 146	0	0

In **Table 2.2**, all the recorded air monitoring data were below the criteria as set out in the Action and Limit Levels in **Appendix A**. There was no exceedance of air monitoring results at all the monitoring stations during the month of June 2004

Over the reporting period, the local weather conditions during the monitoring were mainly fine or cloudy. From field logs, the major dust sources during samplings near the designated stations included road dusts, vehicle emissions from traffic in Lok Shun Path and construction works at Road D15 Site. The major construction works carried out at Road D15 Site over the reporting

period included construction of Bridges A, B and C, retaining walls, noise barrier, box culvert extension, underground drainage and water pipes. It was also observed that there were construction activities carried out on the other construction sites that were not related to this Project in the vicinity of the monitoring stations.

Comparing with the monitoring results from those of the last month, the calculated mean 24-hour TSP levels at all stations were slightly higher in this reporting month, while the calculated mean 1-hour TSP levels at all stations were lower. The highest mean TSP level was recorded at Station A2 (1-hour TSP) with a value of  $148.3\mu\text{g}/\text{m}^3$  which was lower than the value of  $170.3\mu\text{g}/\text{m}^3$  recorded in May.



**Figure 2.1 Air Quality Monitoring Locations**

## 2.2 Noise

### 2.2.1 Monitoring Requirements

Impact noise monitoring was conducted once in every six days at the five designated monitoring locations in accordance with the specifications in the EM&A Manual. The duration of sampling was 30 minutes. The Action and Limit levels for noise monitoring are attached in **Appendix A**. The time schedule for the current monitoring reporting month and the tentative monitoring schedule for the next reporting month are attached in **Appendix B**.

### 2.2.2 Monitoring Locations

The impact noise monitoring locations are presented in **Table 2.3** and are shown in **Figure 2.2**.

**Table 2.3 Noise Monitoring Locations**

Monitoring Location	Measurement	Location
N1	Façade	Lok Lo Ha Village House No. 3B
N2	Façade	Lok Lo Ha Village House No. 32A
N3	Façade	Royal Ascot Block 9, Flat C
N4	Façade	Lok Lo Ha Village House No. 97
N5	Façade	Village near Royal Ascot

### 2.2.3 Summary of Monitoring Results

In this report, the results for the impact noise monitoring conducted in June 2004 at the five designated locations were evaluated. The monitoring results obtained are summarised in **Table 2.4**. Detailed results, including graphical plots and relevant field logs, are presented in **Appendix E**. **Appendix F** shows the meteorological conditions during the monitoring days.

**Table 2.4 Summary of Noise Monitoring Results**

Parameter	Monitoring Location	Range of Results dB(A)	No. of Exceedance	
			Action Levels	Limit Levels
30-minute Noise Measurement (L <sub>eq</sub> )	N1	59.6 – 62.9	0	0
	N2	60.3 – 62.8	0	0
	N3	54.2 – 55.1	0	0
	N4	59.6 – 68.4	0	0
	N5	58.5 – 59.6	0	0

In **Table 2.4**, all the recorded noise monitoring data were below the criteria as set out in the Action and Limit Levels in **Appendix A**. There was no exceedance of noise level at all the monitoring stations during the month of June 2004.

Over the reporting period, the local weather conditions during the sampling were mainly fine or cloudy. All the monitoring was conducted with wind speeds of about 0.5 m/s. Traffic and construction activities were the major noise sources identified at the five monitoring locations. It was noted from field log that activities of excavating and breaking were present in the vicinity of the monitoring stations during the monitoring period.

Comparing with the monitoring results recorded in the last reporting period, the ranges of measured noise levels during this reporting month were not significantly different from those in May. The highest level was recorded at Station N4 (68.4 dB(A)) and occurred in the morning of 25 June. According to the field log, the major noise source at that time was excavation work as well as traffic noise.



**Figure 2.2 Noise Monitoring Locations**

### 3. ENVIRONMENTAL AUDIT

#### 3.1 General

In the last monthly EM&A report, the following two environmental issues were raised:

- Stagnant water near Lok Lo Ha Village House No. 97 shall be cleared.
- Gullies at the Lok Lo Ha roundabout shall be provided with fabric mesh.

It was noted from site inspections that the stagnant water near Lok Lo Ha Village House No. 97 was cleared. In addition, gullies at the Lok Lo Ha roundabout were provided with fabric mesh.

**Table 3.1** summarises the date and type of site inspections carried out during the reporting period.

**Table 3.1 Summary of Site Inspection during the Reporting Period**

Date	Type of Inspection
3 June 2004 (Thursday)	Regular Site Inspection
10 June 2004 (Thursday)	Regular Site Inspection
18 June 2004 (Friday)	Regular Site Inspection
24 June 2004 (Thursday)	Regular Site Inspection

Over the reporting period, the major construction work at the Site included:

- Construction of Bridges A, B and C, including bridge decks (Bridges A, B and C), installation of precast beams of Bridge A;
- Retaining walls 1, 2 and 7;
- Noise barrier construction for noise barrier No. 1, 4B, 4C and 5;
- Box culvert extension of 1500 pipe;
- Underground drainage and water pipes at Lok Shun Path Roundabout; and
- Landscaping.

#### 3.2 Assessment of Environmental Monitoring Results

In this reporting month, there was no incident where the monitoring results exceeded the Action Level specified in **Appendix A**. The monitoring results were discussed in Section 2 of this report and are summarised in **Table 3.2** and **Table 3.3** below.

**Table 3.2 Summary of Environmental Monitoring**

Item	Parameter	Monitoring Period	Total No. of Samples Taken (on all stations)	No. of Exceedance	
				Action Levels	Limit Levels
1	24 - hour TSP	01/6/04 to 30/6/04	18	0	0
2	1 - hour TSP	01/6/04 to 30/6/04	48	0	0
3	30-minute Noise Measurement (L <sub>eq</sub> )	01/6/04 to 30/6/04	25	0	0

### 3.3 Environmental Complaints

No environmental complaint was received by the Environmental Team against the construction site in this reporting month. **Table 3.3** shows the summary record for this reporting month. **Table 3.4** summarises the complaint statistics from the commencement of the Project to date. **Appendix I** lists details of all the received complaints relating to the activities carried out on the construction site.

**Table 3.3 Environmental Complaints / Enquiry Received in the Reporting Month**

Complaint No.	Received date & Time	Description (inc. location/nature of complaint)	Follow-up Action Taken	Recommended Mitigation Measures	Status/ Remarks
N/a	N/a	N/a	N/a	N/a	N/a

**Table 3.4 Summary of Total Number of Complaints Received to date**

Total No. of Complaints to date	No. of Complaints in this reporting period	No. of Active Complaints	No. of Inactive/Closed Complaints
2	0	N/a	2

### 3.4 Assessment of Mitigation Measures

**Table 3.5** presents the status of the major mitigation measures identified during site inspection.

**Table 3.6 Summary of Major Mitigation Measures at the Site**

Type	Mitigation Measure	Comments
Noise	Temporary purposed-built Noise Barrier	No longer required
Water	Wheel Washing Facility	New wheel washing bay being constructed at new location
	Sand/Silt Removal Facilities	No longer required
	Measures along stream-banks north-east of Lok Shun Path Roundabout	No longer required
	Diversion of Stream Course via drainage pipe	Sand trap was installed at downstream end of stream course
Wastewater	Water reuse at wheel washing facility and site investigation drilling works.	No longer implemented
Land Contamination	Metal trays are placed underneath stationary machines where there are potential of oil leakage	Implemented
Air	Provide plastic sheeting covers on exposed soils	Implemented
	Regular water spraying on areas where there is likely generation of dust	Implemented
	Impervious sheeting was placed around the working area near monitoring station A1	Implemented as necessary

In this month, however, spots of stagnant water were observed near Contractor's Site Office, noise barrier NB1 and 4C, Bridge A1 and retaining wall RW1 which was prone to mosquito breeding. Also, rubbish was found near Bridge A and Contractor's Site Office.

#### **4. FUTURE KEY ISSUE AND RECOMMENDATION**

There are two environmental issues that need to be addressed in the next reporting month:

- Stagnant water within the site, especially near Contractor's Site Office, noise barrier NB1 and 4C, Bridge A1 and retaining wall RW1, shall be removed or sprayed with larvicide;
- Construction debris within the site shall either be covered with tarpaulin or removed;

The updated work program for the following months is attached in **Appendix J**. The monitoring tentative schedule for the next reporting month is attached in **Appendix B**.

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**APPENDIX A:**

**Action and Limit Levels**

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**Action and Limit Levels for 24-hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
A1	156	260
A2	155	
A3	153	

**Action and Limit Levels for 1-hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
A1	371	500
A2	378	
A3	368	

**Action / Limit Levels for Construction Noise**

Time Period	Action Level	Limit Level
0700-1900 hours on normal weekdays	When one documented complaint is received	75* dB(A)
0700-2300 hours on holidays; and 1900-2300 hours on all other days		60/65/70** dB(A)
2300- 0700 hours of next day		45/50/55** dB(A)

\*\* to be selected based on Area Sensitivity Rating

Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

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**APPENDIX B:**

**Tentative Schedule for Impact  
Air Quality and Noise  
Monitoring**

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## **1. Time Schedule for the Current Reporting Month – June 2004**

Contract No. ST77/01  
Sha Tin New Town, Stage II  
Road D15 Linking Lok Shun Path and Tai Po Road

Time Schedule for Construction Phase Dust Monitoring for June 2004

Jun-04	Day	Start Time	
		24-hr TSP	1-hr TSP
1	Tue	x	x
2	Wed	09:30	08:00
3	Thu	x	09:50,11:00
4	Fri	x	x
5	Sat	x	x
6	Sun	x	x
7	Mon	x	x
8	Tue	09:30	08:00
9	Wed	x	09:50,11:00
10	Thu	x	x
11	Fri	x	x
12	Sat	x	x
13	Sun	x	x
14	Mon	09:30	08:00
15	Tue	x	09:50,11:00
16	Wed	x	x
17	Thu	x	x
18	Fri	09:30	08:00
19	Sat	x	x
20	Sun	x	x
21	Mon	X	09:00,11:00
22	Tue	X	x
23	Wed	X	x
24	Thu	09:30	08:00
25	Fri	X	09:50,11:00
26	Sat	X	x
27	Sun	X	x
28	Mon	X	x
29	Tue	X	x
30	Wed	09:30	08:00

Contract No. ST77/01  
 Sha Tin New Town, Stage II  
 Road D15 Linking Lok Shun Path and Tai Po Road  
 Time Schedule for Construction Phase Noise Monitoring for June 2004

Jun-04	Day	Start Time				
		N1	N2	N3	N4	N5
1	Tue	x	x	x	x	x
2	Wed	x	x	x	x	x
3	Thu	09:50	11:15	13:00	10:25	09:00
4	Fri	x	x	x	x	x
5	Sat	x	x	x	x	x
6	Sun	x	x	x	x	x
7	Mon	x	x	x	x	x
8	Tue	x	x	x	x	x
9	Wed	09:50	11:15	13:00	10:25	09:00
10	Thu	x	x	x	x	x
11	Fri	x	x	x	x	X
12	Sat	x	x	x	x	x
13	Sun	x	x	x	x	X
14	Mon	x	x	x	x	x
15	Tue	09:50	11:15	13:00	10:25	09:00
16	Wed	x	x	x	x	X
17	Thu	x	x	x	x	X
18	Fri	x	x	x	x	x
19	Sat	x	x	x	x	X
20	Sun	x	x	x	x	X
21	Mon	09:50	11:15	13:00	10:25	09:00
22	Tue	x	x	x	x	X
23	Wed	x	x	x	x	X
24	Thu	x	x	x	x	x
25	Fri	09:50	11:15	13:00	10:25	09:00
26	Sat	x	x	x	x	X
27	Sun	x	x	x	x	X
28	Mon	x	x	x	x	x
29	Tue	x	x	x	x	X
30	Wed	x	x	x	x	X

## **2. Tentative Schedule for the Next Reporting Month – July 2004**

Contract No. ST77/01

Sha Tin New Town, Stage II

Road D15 Linking Lok Shun Path and Tai Po Road

Tentative Time Schedule for Construction Phase Dust Monitoring for July 2004

Jul-04	Day	Start Time	
		24-hr TSP	1-hr TSP
1	Thu	x	x
2	Fri	X	09:00,11:00
3	Sat	x	x
4	Sun	x	x
5	Mon	x	x
6	Tue	09:30	08:00
7	Wed	x	09:50,11:00
8	Thu	x	x
9	Fri	x	x
10	Sat	x	x
11	Sun	x	x
12	Mon	09:30	08:00
13	Tue	x	09:50,11:00
14	Wed	x	x
15	Thu	x	x
16	Fri	09:30	08:00
17	Sat	x	x
18	Sun	x	x
19	Mon	x	09:00,11:00
20	Tue	x	x
21	Wed	x	x
22	Thu	09:30	08:00
23	Fri	x	09:50,11:00
24	Sat	x	x
25	Sun	x	x
26	Mon	x	x
27	Tue	x	x
28	Wed	09:30	08:00
29	Thu	x	09:50,11:00
30	Fri	x	x
31	Sat	x	x

Contract No. ST77/01

Sha Tin New Town, Stage II

Road D15 Linking Lok Shun Path and Tai Po Road

Tentative Time Schedule for Construction Phase Noise Monitoring for Jul 2004

Jul-04	Day	Start Time				
		N1	N2	N3	N4	N5
1	Thu	x	x	x	x	x
2	Fri	09:50	11:15	13:00	10:25	09:00
3	Sat	x	x	x	x	x
4	Sun	x	x	x	x	x
5	Mon	x	x	x	x	x
6	Tue	x	x	x	x	x
7	Wed	09:50	11:15	13:00	10:25	09:00
8	Thu	x	x	x	x	x
9	Fri	x	x	x	x	x
10	Sat	x	x	x	x	x
11	Sun	x	x	x	x	x
12	Mon	x	x	x	x	x
13	Tue	09:50	11:15	13:00	10:25	09:00
14	Wed	x	x	x	x	x
15	Thu	x	x	x	x	x
16	Fri	x	x	x	x	x
17	Sat	x	x	x	x	x
18	Sun	x	x	x	x	x
19	Mon	09:50	11:15	13:00	10:25	09:00
20	Tue	x	x	x	x	x
21	Wed	x	x	x	x	x
22	Thu	x	x	x	x	x
23	Fri	09:50	11:15	13:00	10:25	09:00
24	Sat	x	x	x	x	x
25	Sun	x	x	x	x	x
26	Mon	x	x	x	x	x
27	Tue	x	x	x	x	x
28	Wed	x	x	x	x	x
29	Thu	09:50	11:15	13:00	10:25	09:00
30	Fri	x	x	x	x	x
31	Sat	x	x	x	x	x

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**APPENDIX C:**

**24-Hour TSP Impact  
Monitoring Results and Plots**

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## 1. 24-hour TSP Monitoring Results

**Monitoring Station A1 (Lok Lo Ha Village House No. 3B)**

Date	Filter Weight (g)		Flow Rate (m <sup>3</sup> /min.)		Elapse Time Initial	Elapse Time Final	Total Sampling Time (min.)	Conc. (µg/m <sup>3</sup> )	Weather Condition
	Initial	Final	Initial	Final					
02-Jun-04	2.8622	2.9669	1.11	1.11	13355.17	13379.17	1440	66	Fine
08-Jun-04	2.8456	2.9607	1.11	1.11	13382.17	13406.17	1440	72	Cloudy
14-Jun-04	2.9125	3.0865	1.11	1.11	13409.17	13433.17	1440	109	Fine
18-Jun-04	2.9256	3.0417	1.11	1.11	13436.17	13460.17	1440	73	Fine
24-Jun-04	2.8775	2.9523	1.11	1.11	13463.17	13487.17	1440	47	Fine
30-Jun-04	2.8683	3.0612	1.11	1.11	13490.17	13514.17	1440	121	Fine
			Min			47			
			Max			121			
			Average			81.3			

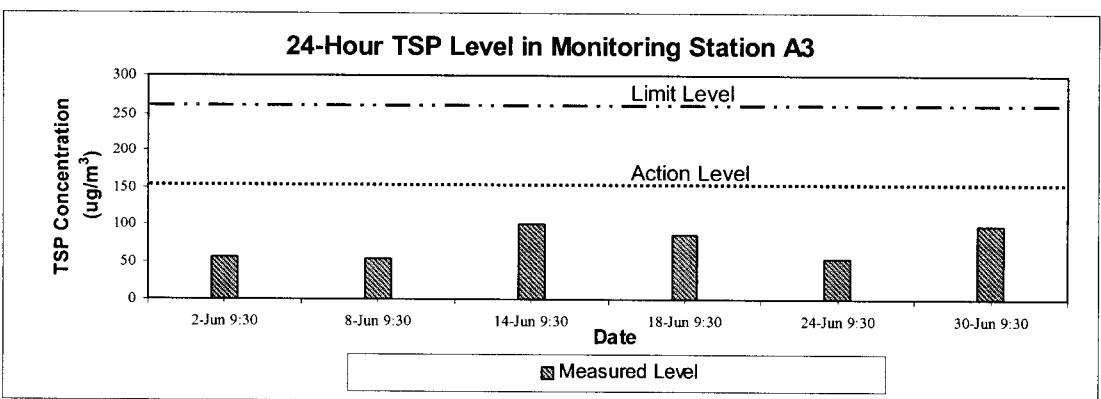
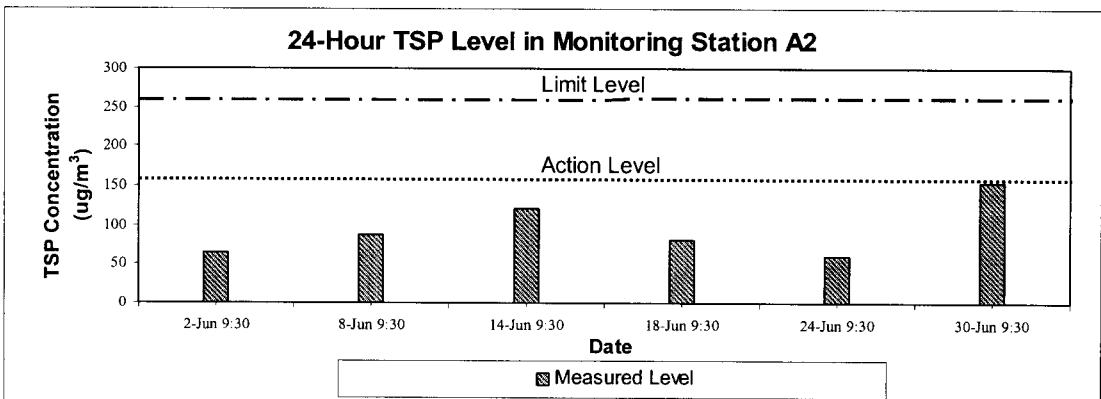
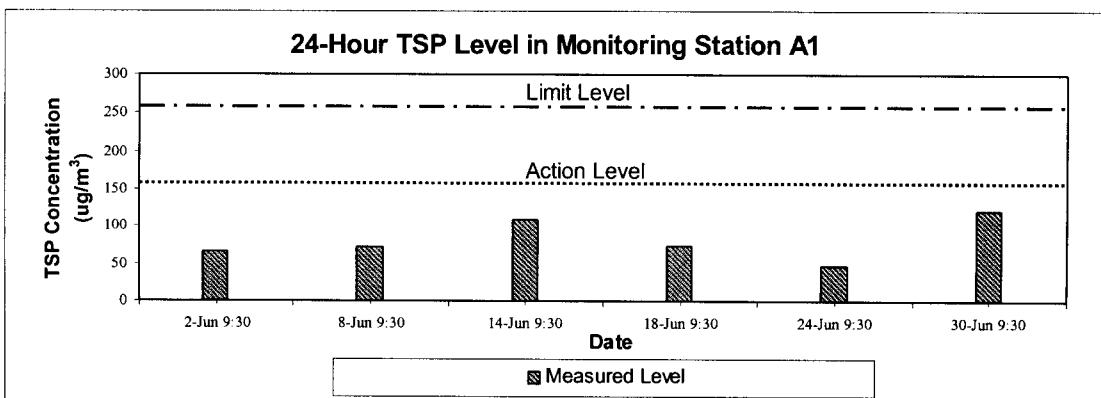
**Monitoring Station A2 (Lok Lo Ha Village House No. 104)**

Date	Filter Weight (g)		Flow Rate (m <sup>3</sup> /min.)		Elapse Time Initial	Elapse Time Final	Total Sampling Time (min.)	Conc. (µg/m <sup>3</sup> )	Weather Condition
	Initial	Final	Initial	Final					
02-June-04	2.8617	2.9633	1.11	1.11	4028.75	4052.75	1440	64	Fine
08-June-04	2.8377	2.9760	1.11	1.11	4055.75	4079.75	1440	87	Cloudy
14-June-04	2.9330	3.1259	1.11	1.11	4082.75	4106.75	1440	121	Fine
18-June-04	2.9249	3.0558	1.11	1.11	4109.75	4133.75	1440	82	Fine
24-June-04	2.9529	3.0212	1.11	1.11	4136.75	4160.75	1440	60	Fine
30-Jun-04	2.8519	3.0977	1.11	1.11	4163.75	4187.75	1440	154	Fine
			Min			60			
			Max			154			
			Average			94.7			

**Monitoring Station A3 (Village House near Tsun King Road)**

Date	Filter Weight (g)		Flow Rate (m <sup>3</sup> /min.)		Elapse Time		Total Sampling Time (min.)	Cone. (µg/m <sup>3</sup> )	Weather Condition
	Initial	Final	Initial	Final	Initial	Final			
02-June-04	2.8428	2.9315	1.11	1.11	1543.07	1567.07	1440	55	Fine
08-June-04	2.8459	2.9322	1.11	1.11	1570.07	1594.07	1440	54	Cloudy
14-June-04	2.8951	3.0560	1.11	1.11	1597.07	1621.07	1440	101	Fine
18-June-04	2.9626	3.1012	1.11	1.11	1624.07	1648.07	1440	86	Fine
24-June-04	2.8911	2.9755	1.11	1.11	1651.07	1675.07	1440	53	Fine
30-June-04	2.8702	3.0261	1.11	1.11	1678.07	1702.07	1440	98	Fine
							Min	53	
							Max	101	
							Average	74.5	

## 2. Plots for 24-hour Monitoring Results



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**APPENDIX D:**

**1-Hour TSP Impact  
Monitoring Results and Plots**

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## 1. 1-hour TSP Monitoring Results

### Station A1 (Lok Lo Ha Village House No. 3B)

Date	Time of sampling	Concentration, $\mu\text{g}/\text{m}^3$
02-Jun-04	0800 – 0900	110
03-Jun-04	0950 – 1050	117
03-Jun-04	1100 – 1200	122
08-Jun-04	0800 – 0900	90
09-Jun-04	0950 – 1050	180
09-Jun-04	1100 – 1200	188
14-Jun-04	0800 – 0900	129
15-Jun-04	0950 – 1050	251
15-Jun-04	1100 – 1200	105
18-Jun-04	0800 – 0900	98
21-Jun-04	0900 – 1000	110
21-Jun-04	1100 – 1200	90
24-Jun-04	0800 – 0900	107
25-Jun-04	0950 – 1050	110
25-Jun-04	1100 – 1200	131
30-Jun-04	0800 – 0900	119
Average		128.6
Min		90
Max		251

### Station A2 (Lok Lo Ha Village House No. 104)

Date	Time of sampling	Concentration, $\mu\text{g}/\text{m}^3$
02-Jun-04	0800 – 0900	120
03-Jun-04	0950 – 1050	129
03-Jun-04	1100 – 1200	138
08-Jun-04	0800 – 0900	164
09-Jun-04	0950 – 1050	188
09-Jun-04	1100 – 1200	219
14-Jun-04	0800 – 0900	134
15-Jun-04	0950 – 1050	231
15-Jun-04	1100 – 1200	186
18-Jun-04	0800 – 0900	176
21-Jun-04	0900 – 1000	95
21-Jun-04	1100 – 1200	96
24-Jun-04	0800 – 0900	122
25-Jun-04	0950 – 1050	104
25-Jun-04	1100 – 1200	122
30-Jun-04	0800 – 0900	149
Average		148.3
Min		95
Max		231

**Station A3 (Village House near Tsun King Road)**

Date	Time of sampling	Concentration, $\mu\text{g}/\text{m}^3$
02-Jun-04	0800 – 0900	105
03-Jun-04	0950 – 1050	114
03-Jun-04	1100 – 1200	138
08-Jun-04	0800 – 0900	74
09-Jun-04	0950 – 1050	119
09-Jun-04	1100 – 1200	146
14-Jun-04	0800 – 0900	122
15-Jun-04	0950 – 1050	95
15-Jun-04	1100 – 1200	125
18-Jun-04	0800 – 0900	135
21-Jun-04	0900 – 1000	134
21-Jun-04	1100 – 1200	126
24-Jun-04	0800 – 0900	95
25-Jun-04	0950 – 1050	89
25-Jun-04	1100 – 1200	117
30-Jun-04	0800 – 0900	102
Average		114.8
Min		74
Max		146

## 1. Noise Monitoring Results

### Monitoring Station N1 (Lok Lo Ha Village House No.3B)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
03-Jun-04	0911 – 0941	59.6	62.2	57.5
09-Jun-04	0910 – 0940	60.9	63.5	58.4
15-Jun-04	1005 – 1035	60.7	62.9	57.7
21-Jun-04	0945 – 1015	62.6	65.1	60.4
25-Jun-04	0912 – 0942	62.9	65.2	59.8

Min                    59.6                    62.2                    57.5  
 Max                    62.9                    65.2                    60.4

### Monitoring Station N2 (Lok Lo Ha Village House No.32A)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
03-Jun-04	1040 – 1110	62.8	64.8	60.8
09-Jun-04	1040 – 1110	60.3	62.9	57.9
15-Jun-04	1300 – 1330	61.1	63.5	58.5
21-Jun-04	1042 – 1112	60.6	63.1	58.0
25-Jun-04	1040 – 1110	61.8	64.1	58.7

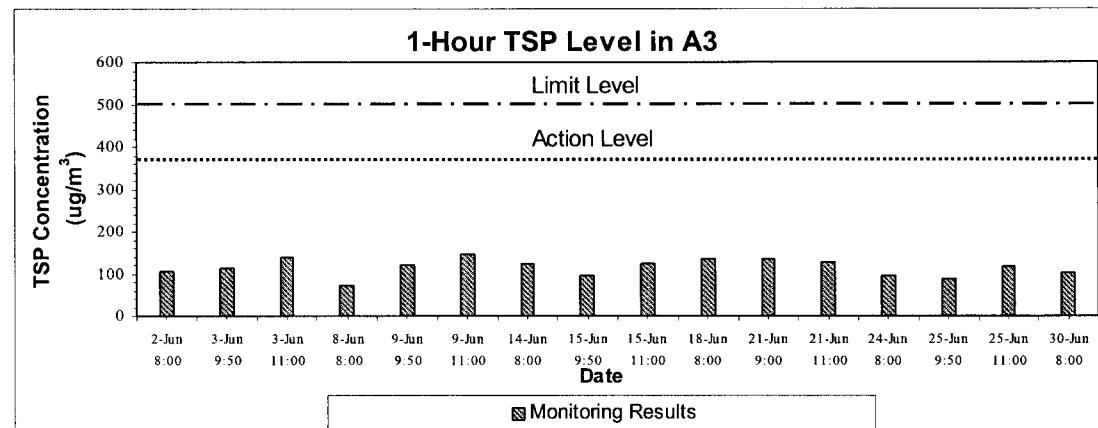
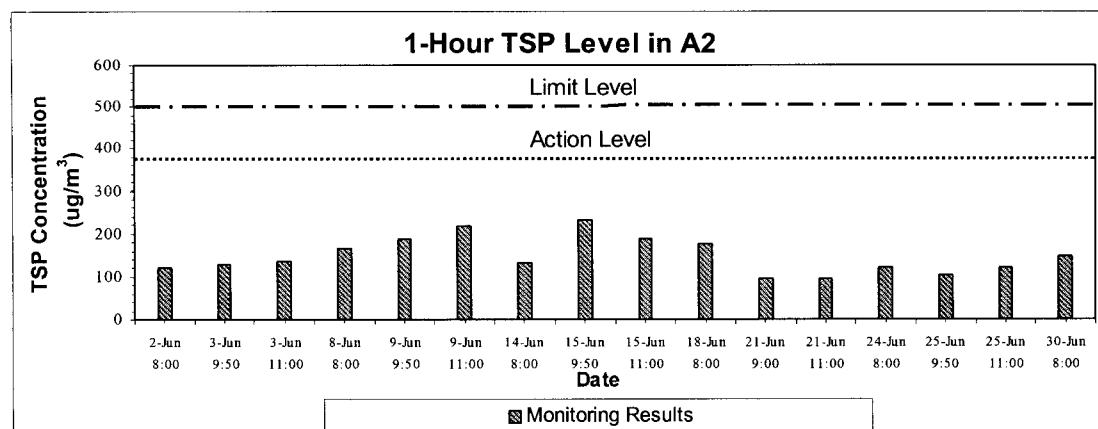
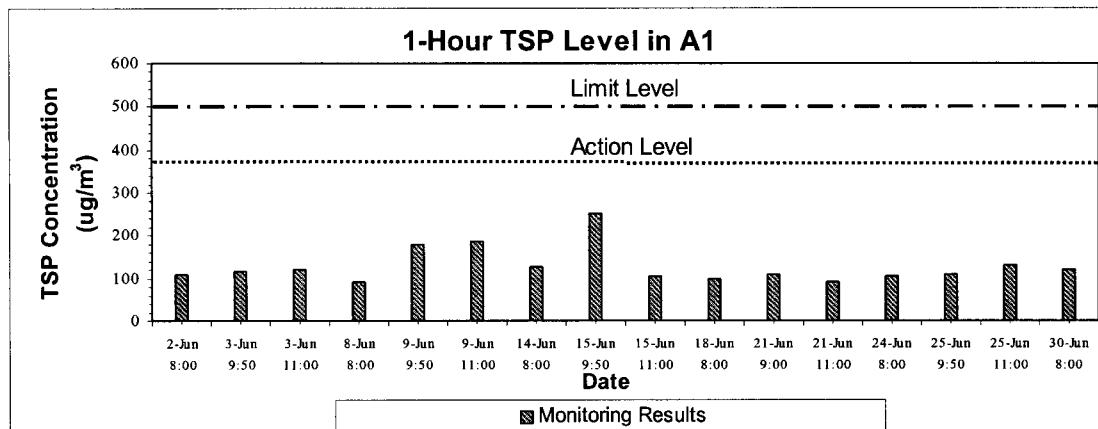
Min                    60.3                    62.9                    57.9  
 Max                    62.8                    64.8                    60.8

### Monitoring Station N3 (Royal Ascot Block 9, Flat C)

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
03-Jun-04	1127 – 1157	55.1	56.9	52.5
09-Jun-04	1127 – 1157	55.1	57.0	52.1
15-Jun-04	1342 – 1412	55.0	57.0	51.9
21-Jun-04	1127 – 1157	54.8	56.7	51.7
25-Jun-04	1127 – 1157	54.2	56.1	52.0

Min                    54.2                    56.1                    51.7  
 Max                    55.1                    57.0                    52.5

## 2. Plots of 1-hour TSP Monitoring Results



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**APPENDIX E:**

**Daytime 07:00 -19:00Hrs  
Impact Noise Monitoring  
Results and Plots**

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**Monitoring Station N4 (Lok Lo Ha Village House No.97)**

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
03-Jun-04	1002 – 1032	60.5	62.6	57.8
09-Jun-04	1002 – 1032	59.6	62.3	57.4
15-Jun-04	1115 – 1145	60.7	63.3	58.0
21-Jun-04	0907 – 0937	59.9	62.0	56.8
25-Jun-04	1002 – 1032	68.4	70.2	66.6

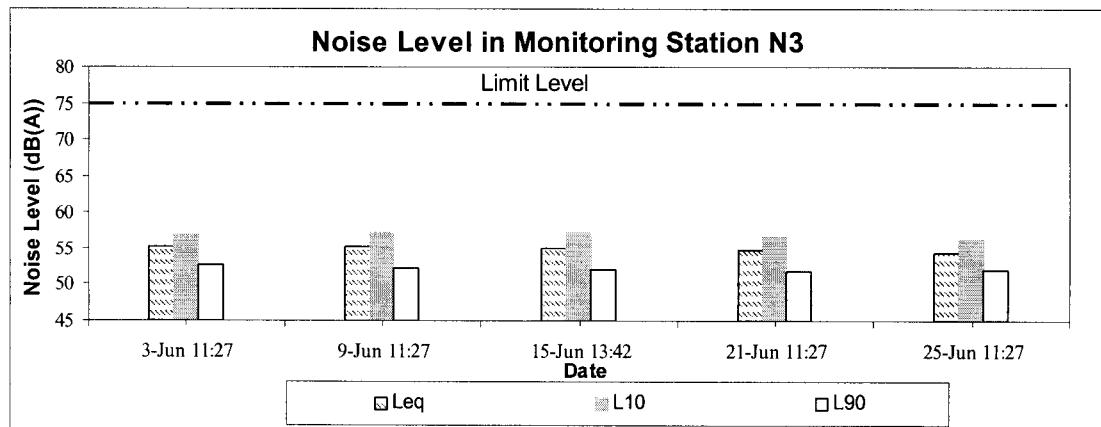
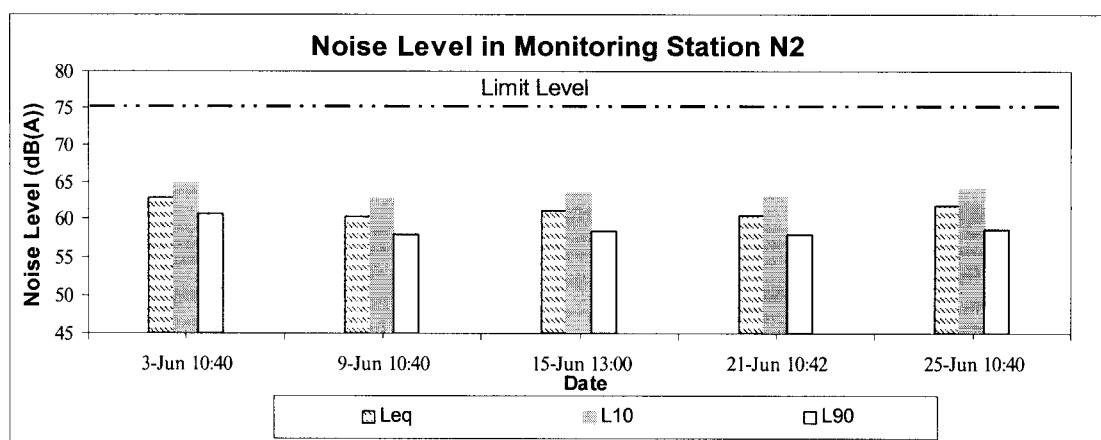
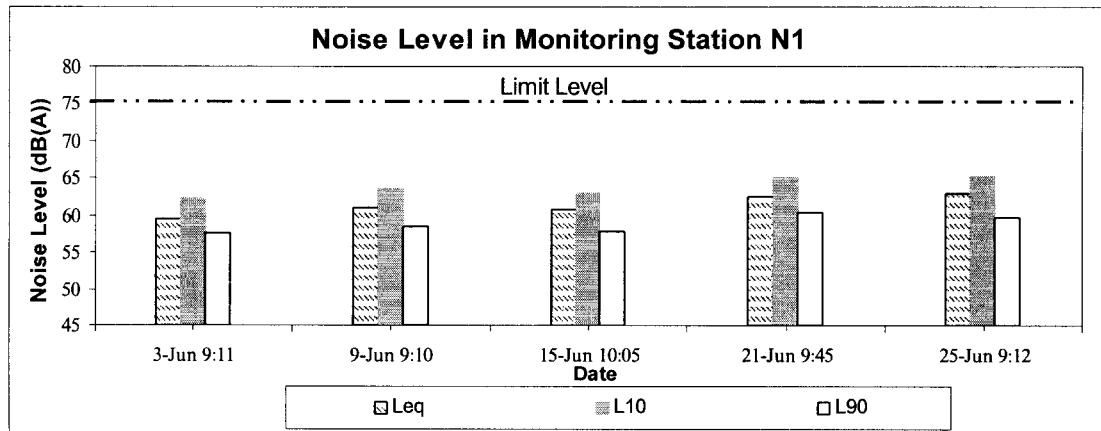
Min	59.6	62.0	56.8
Max	68.4	70.2	66.6

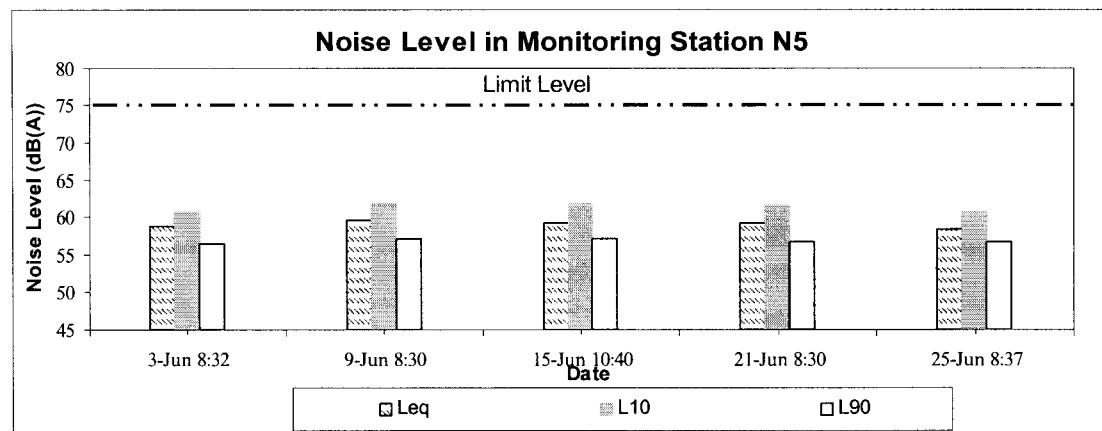
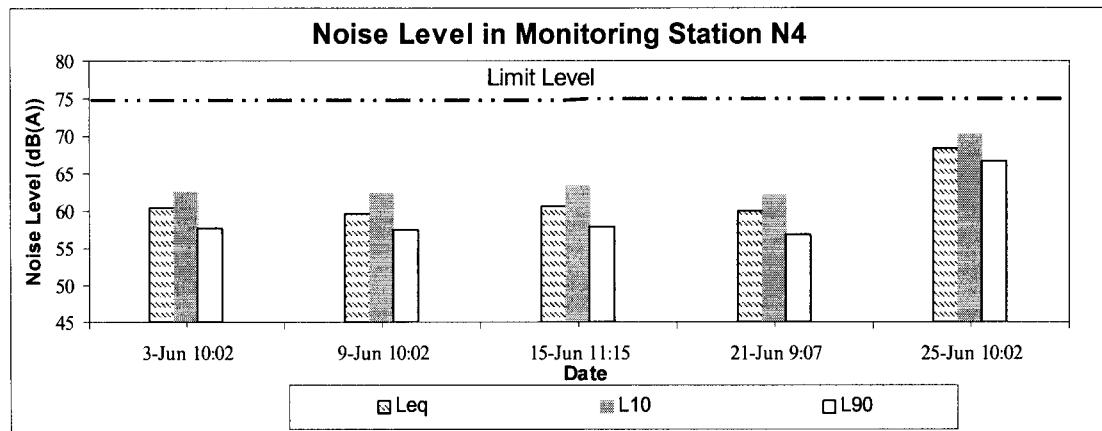
**Monitoring Station N5 (Village House near Royal Ascot)**

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
03-Jun-04	0832 – 0902	58.9	60.7	56.6
09-Jun-04	0830 – 0900	59.6	61.8	57.1
15-Jun-04	1040 – 1110	59.2	61.7	57.1
21-Jun-04	0830 – 0900	59.3	61.6	56.8
25-Jun-04	0837 – 0907	58.5	60.7	56.7

Min	58.5	60.7	56.6
Max	59.6	61.8	57.1

## 2. Plots of Noise Monitoring Results





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**APPENDIX F:**

**Weather Conditions During  
Monitoring Periods**

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**Weather Condition during Monitoring Period  
(From 1 to 30 June 2004)**

Date	Weather	Mean Air Temperature (°C)	Wind Speed (m/s)	Mean Relative Humidity (%)
02-Jun-04	Fine	27.9	0 - 0.5	84
03-Jun-04	Fine	28.1	0 - 0.5	82
08-Jun-04	Cloudy	27.1	0	78
09-Jun-04	Sunny	27.9	0 - 0.5	77
14-Jun-04	Fine	27.6	0	74
15-Jun-04	Rainy	27.0	0	88
18-Jun-04	Fine	29.1	0	79
21-Jun-04	Cloudy	28.6	0	85
24-Jun-04	Fine	30.2	0	76
25-Jun-04	Fine	30.2	0 - 0.5	75
30-Jun-04	Fine	30.4	0	81

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**APPENDIX G:**

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**Event and Action Plan for Air  
Quality and Noise**

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## Event / Action Plan for Air Quality

EVENT	ACTION		
	ET	Engineer	CONTRACTOR
ACTION LEVEL			
1. Exceedance for one sample	1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Notify Contractor; and 2. Check monitoring data and Contractor's working methods.	1. Rectify any unacceptable practice, if any; and 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily. 5. Discuss with Engineer for remedial actions required; 6. If exceedance continues, arrange meeting with the engineer; and 7. If exceedance stops, cease additional monitoring.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Check monitoring data and Contractor's working methods; 4. Discuss with ET and Contractor on potential remedial actions; and 5. Ensure remedial measures properly implemented.	1. Submit proposals for mitigation measures to the Engineer within 3 working days of notification; 2. Implement the agreed proposals; and 3. Amend proposal if appropriate.
LIMIT LEVEL			
1. Exceedance for one sample	1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep EPD and the Engineer informed of results.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Check monitoring data and Contractor's working methods; 4. Discuss with ET and Contractor on potential remedial actions; and 5. Ensure remedial action properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the Engineer within 3 working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform the Engineer and Contractor; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily. 5. Investigate the causes of exceedance; 6. Arrange meeting with EPD and the Engineer to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep EPD and the Engineer informed of the results; and 8. If exceedance stops, cease additional monitoring	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 4. Discuss among ET and Contractor on potential remedial actions; 5. Review Contractor's remedial action whenever necessary to assure their effectiveness; and 6. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the Engineer within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the Engineer until the exceedance is abated.

## Event / Action Plan for Construction Noise

EVENT	ACTION	
	ET	Contractor
Action Level	<ol style="list-style-type: none"> <li>1. Notify the Engineer and Contractor;</li> <li>2. Analyze investigation;</li> <li>3. Require Contractor to propose measures for the analyzed noise problem; and</li> <li>4. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to Environmental Team and the Engineer; and</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol style="list-style-type: none"> <li>1. Notify the Engineer and Contractor;</li> <li>2. Notify EPD; and</li> <li>3. Require Contractor to implement mitigation measures; and increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Implement mitigation measures; and</li> <li>2. Prove to Environmental Team and the Engineer effectiveness of measures applied.</li> </ol>

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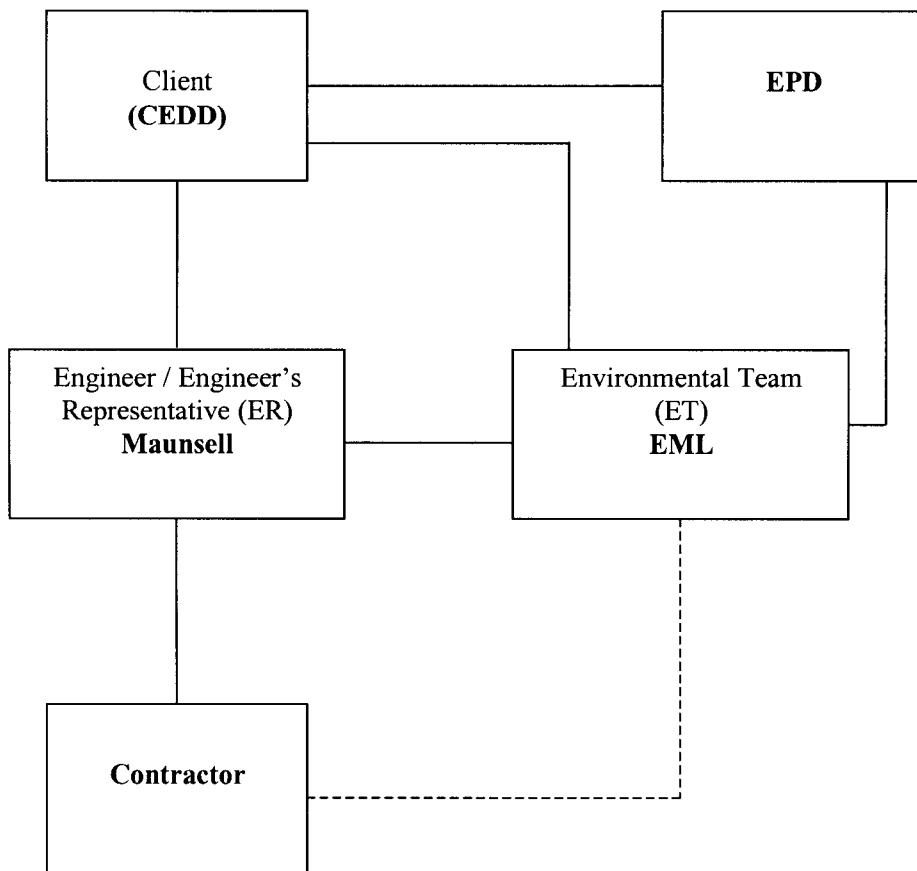
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**APPENDIX H:**

**Project Organization and  
Contacts of Key Personnel**

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**Figure H.1: Project Management Structure**



**Contacts of Key Personnel:**

Organisation	Nature of Duty	Contact Personnel	Contact Number	
			Telephone	Fax
Civil Engineering and Development Department (CEDD)	Client	Mr. K.K. Law	2301-1397	2739-0076
Maunsell Consultants Asia Ltd. (MCAL)	Engineer	Mr. Conrad Ng	2685-6107	2691-2649
Environmental Management Ltd. (EML)	Environmental Team	Mr. W. K. Ng	2839-2800	2890-6901

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**APPENDIX I:**

**Summary Records of  
Complaints Received**

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Complaint No.	Received date & Time	Description (inc. location/ nature of complaint)	Follow-up Action Taken	Recommended Measures	Mitigation	Status/ Remarks
C02-N1	Morning, 29/7/2002	Around 9:30am on 29/7/02, police came on site to investigate a complaint of noise pollution emitted during rock breaking which carried out by the Contractor near the Site Office (near the box culvert and north Lok Shun Path Roundabout). The Contractor immediately halted the activity in response to police's advice	<ul style="list-style-type: none"> <li>• Ad hoc site inspection was carried out on 31/7/02, jointly with the Engineer and Contractor</li> </ul>	Mitigation actions:	<ul style="list-style-type: none"> <li>• Excavator-mounted breaker shall not be carried out within 125m from any nearby noise sensitive receivers and;</li> </ul>	The complaint was considered as ad hoc rather than continuous. It was therefore considered not necessary to increase the noise monitoring frequency
			<ul style="list-style-type: none"> <li>• The complaint log sheet, the investigation findings and recommendations on mitigation measures were submitted to the Engineer and Contractor.</li> </ul>		<ul style="list-style-type: none"> <li>• Temporary purposed built barrier should be installed whenever there are high noise level construction activities.</li> </ul>	File Closed.
C02-N2	Night-time, 7 April, 2002	Nearby residents complained to police that a generator in Road D15 Site was operating in night-time near Lok Lo Ha Village.	<ul style="list-style-type: none"> <li>• Ad hoc site inspection was carried out on 8 April 02, jointly with the Engineer and Contractor and ET.</li> </ul>	Mitigation actions:	<ul style="list-style-type: none"> <li>• Under the Noise Control Ordinance, the carrying out of general construction work using powered mechanical equipment (including generators) during the restricted hours (between 7 p.m. and 7 a.m. or at any time on a general holiday (including Sunday) is prohibited unless a valid Construction Noise Permit is in force;</li> </ul>	File Closed.
			<ul style="list-style-type: none"> <li>• Police came to the site to investigate the complaint and inform watchmen to turn off the operating generator at around 8:30pm.</li> </ul>		<ul style="list-style-type: none"> <li>• A letter in both English and Chinese, addressing to the complainant, had been sent to the police.</li> </ul>	
			<ul style="list-style-type: none"> <li>• The complaint was valid as it concerned with construction noise during the restricted hours.</li> </ul>		<ul style="list-style-type: none"> <li>• A watchmen or site staff should be employed to check daily that all generators and plats are switched off after the permissible working hours.</li> </ul>	

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**APPENDIX J:**

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**Updated Construction  
Program**

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# MASTER PROGRAMME (ST77/01/MP/13B)

Sha Tin New Town Stage II Contract No. ST77/01, Road D15 Linking Lok Shun Path and Tai Po Road

2005  
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan

ID	Task Name	Duration	Start	Finish	2004 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
0	<b>Road D15 Master Programme</b>	1326 days	Wed 12/12/01	Fri 02/06/03	
1	1.0 Original Contract Period	1187 days*	Wed 12/12/01	Sat 12/03/03	
2	1.1 Works in Section I (345 days)	345 days	Wed 12/12/01	Thu 21/11/02	
3	1.2 Works in Section IA (475 Days)	475 days	Wed 12/12/01	Mon 31/03/03	
4	1.3 Works in Section II (822 days)	822 days	Wed 12/12/01	Fri 12/03/04	
5	1.4 Landscape Work in Section III (187 Days)	187 days	Wed 12/12/01	Sat 12/03/05	
6	2.0 Anticipated Dates	1289 days	Fri 22/11/02	Fri 02/06/05	
7	2.1 Anticipated EOT for Section I	249.5 days	Fri 22/11/02	Tue 29/07/03	
8	2.2 Anticipated Completion Date for Section IA	0 days	Mon 31/03/03	Mon 31/03/03	
9	2.3 Anticipated Completion Date for Section II	141 days	Thu 13/01/05	Thu 02/06/05	
10	2.4 Anticipated Completion Date for Section III	365 days	Fri 03/04/05	Fri 02/06/06	
11	3 Preliminary & Site Establishment	689 days*	Wed 12/12/01	Tue 06/04/04	06 April 2004
29	4 Earthworks	473 days*	Fri 10/05/02	Fri 05/12/03	ember 2003
35	5 Equipment Works (Section I & II)	455 days*	Wed 12/12/01	Thu 26/06/03	
45	6 Bridge A & General	1007 days*	Wed 12/12/01	Fri 06/05/05	
46	6.1 Design Submission of Alternative Design (I Beam)	180 days	Wed 12/12/01	Wed 24/07/02	
47	6.2 Procurement, manufacturing and testing of bridge boring	63.2 days	Thu 25/07/02	Tue 08/10/02	
48	6.3 Engineer's Approval of Off Site Casting Yard	180 days	Sat 19/01/02	Wed 28/08/02	
49	6.4 Fabrication of Precast beams	150 days	Thu 29/08/02	Thu 27/02/03	
50	6.5 Fabrication PC panel permanent formwork	200 days	Fri 29/08/02	Fri 02/05/03	
51	6.6 Ground Investigation	62 days	Wed 12/12/01	Thu 28/02/02	
52	6.7 Piling Works at A1 to A5	121 days	Wed 12/12/01	Mon 13/05/02	
58	6.8 Pile Caps Construction A1 to A5	546 days*	Sat 16/05/02	Tue 13/01/04	13 January 2004
59	6.8.1 A1 Pile Cap	50 days	Mon 25/03/02	Mon 27/05/02	
60	6.8.2 A2 Pile Cap	24 days	Sat 16/03/02	Tue 16/04/02	
61	6.8.3 A3 Pile Cap	22 days	Wed 08/05/02	Mon 03/06/02	
62	6.8.4 A4 Pile Cap	24 days	Fri 19/04/02	Fri 17/05/02	
63	6.8.5 A5 Pile Cap	247 days*	Mon 17/03/03	Tue 13/01/04	13 January 2004
64	6.8.5.1 A5 Pile Cap (1st Portion)	110 days	Mon 17/03/03	Thu 31/07/03	
65	6.8.5.2 A5 Pile Cap (2nd Portion)	22 days	Tue 16/12/03	Tue 13/01/04	13 January 2004
66	6.9 Abutment Wall A1 to A5	547 days*	Wed 17/04/02	Sat 14/02/04	14 February 2004
67	6.9.1 A1 Abutment Wall	427 days*	Tue 28/05/02	Wed 29/10/03	
68	6.9.1.2 A1 (1st portion to allow site access to C2)	30 days	Tue 28/05/02	Wed 03/07/02	
69	6.9.1.2 A1 (Upper Portion)	55 days	Mon 25/08/03	Wed 29/10/03	
70	6.9.2 A2 Pier & Cross Head	434 days*	Wed 17/04/02	Sat 27/09/03	
71	6.9.2.1 Pier only to allow access to C2	22 days	Wed 17/04/02	Mon 13/05/02	
72	6.9.2.2 A2 Crosshead	29 days	Mon 25/08/03	Sat 27/09/03	
73	6.9.3 A3 Pier & Cross Head	30 days	Tue 04/06/02	Wed 10/07/02	
74	6.9.4 A4 Pier & Cross Head	12 days	Thu 11/07/02	Wed 24/07/02	
75	6.9.5 A5 Abutment Wall	148 days	Mon 18/08/03	Sat 14/02/04	14 February 2004
76	6.9.5.1 A5 Abutment wall (Portion 1 to allow site access)	50 days	Mon 18/08/03	Thu 16/10/03	
77	6.9.5.2 A5 Abutment wall (Portion 2)	25 days	Wed 14/01/04	Sat 14/02/04	
78	6.10 Install bridge bearings A1 to A5	474 days*	Mon 29/07/02	Fri 27/02/04	27 February 2004
79	6.10.1 A1 - A2 Bridge Bearings	6 days	Wed 05/11/03	Wed 12/11/03	2003
80	6.10.2 A2 - A3 Bridge Bearings	6 days	Wed 05/11/03	Wed 12/11/03	2003
81	6.10.3 A3 - A4 Bridge Bearings	6 days	Mon 29/07/02	Mon 05/08/02	
82	6.10.4 A4 - A5 Bridge Bearings	6 days	Fri 20/02/04	Fri 27/02/04	Bridge-Bearing
83	6.11 Install Precast Beams A1 to A5	352 days	Thu 20/11/03	Wed 26/01/05	27 February 2004
84	6.11.1 A1 to A2 PC Beams	6 days	Thu 27/11/03	Thu 27/11/03	ber 2003



Date: 18/10/2003

Task Progress

Critical Task

Milestone

Summary

Page 1

Project Summary

External Tasks

# MASTER PROGRAMME (ST77/01/MP/13B)

Sha Tin New Town Stage II Contract No. ST77/01, Read D15, linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration		Start	Finish	2004												2005	
		Jan	Feb			Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan			
85	6.11.2 A2 to A3 PC Beams	3 days	Mon 24/01/05	Wed 26/01/05	Mon 01/02/05	Wed 03/02/05	Mon 01/03/05	Wed 03/03/05	Mon 01/04/05	Thu 03/01/05	Mon 01/05/05	Wed 03/05/05	Mon 01/06/05	Thu 03/06/05	Mon 01/07/05	Thu 03/07/05	Mon 01/08/05	6.11.2 A2 to A3 RC Beams	
86	6.11.3 A3 to A4 PC Beams	3 days	Mon 01/03/05	Wed 03/03/05	Mon 01/04/05	Thu 03/04/05	Mon 01/05/05	Thu 03/05/05	Mon 01/06/05	Thu 03/06/05	Mon 01/07/05	Thu 03/07/05	Mon 01/08/05	Thu 03/08/05	Mon 01/09/05	Thu 03/09/05	Mon 01/10/05	6.11.3 A3 to A4 PC Beams (Storage on Span 1 to A4)	
87	6.11.4 A4 to A5 PC Beams (Storage on Span A3 to A4)	6 days	Mon 01/05/05	Thu 03/01/05	Mon 01/06/05	Thu 03/02/05	Mon 01/07/05	Thu 03/03/05	Mon 01/08/05	Thu 03/04/05	Mon 01/09/05	Thu 03/05/05	Mon 01/10/05	Thu 03/06/05	Mon 01/11/05	Thu 03/07/05	Mon 01/12/05	6.11.4 A4 to A5 PC Beams (Storage on Span 1 to A4)	
88	6.12 Bridge Deck Construction A1 to A5	392 days	Fri 28/11/03	Thu 05/02/04	Fri 28/11/03	6.12.1 A1 to A2 Bridge Deck													
89	6.12.1 A1 to A2 Bridge Deck	50 days	Fri 28/11/03	Thu 05/02/04	Fri 28/11/03	6.12.2 A2 to A3 Bridge Deck													
90	6.12.2 A2 to A3 Bridge Deck	32 days	Thu 27/11/03	Fri 11/03/05	Thu 27/11/03	6.12.3 A3 to A4 Bridge Deck													
91	6.12.3 A3 to A4 Bridge Deck	95 days	Thu 16/03/05	Fri 04/04/05	Thu 16/03/05	6.12.4 A4 to A5 Bridge Deck													
92	6.12.4 A4 to A5 Bridge Deck	50 days	Mon 17/01/05	Fri 25/03/05	Mon 17/01/05	6.12.4 A4 to A5 Bridge Deck													
93	6.13 Bridge Deck Drainage	355 days	Fri 20/02/04	Wed 04/05/05	Fri 20/02/04	6.13.1 A1 to A2 Drainage Pipe, M/H Cover & Gully													
94	6.13.1 A1 to A2 Drainage Pipe, M/H Cover & Gully	18 days	Wed 23/02/05	Fri 18/03/05	Wed 23/02/05	6.13.2 A2 to A3 Drainage Pipe, M/H Cover & Gully													
95	6.13.2 A2 to A3 Drainage Pipe, M/H Cover & Gully	18 days	Thu 29/07/04	Mon 23/08/04	Thu 29/07/04	6.13.3 A3 to A4 Drainage Pipe, M/H Cover & Gully													
96	6.13.3 A3 to A4 Drainage Pipe, M/H Cover & Gully	18 days	Mon 11/04/05	Wed 04/05/05	Mon 11/04/05	6.13.4 A4 to A5 Drainage Pipe													
97	6.13.4 A4 to A5 Drainage Pipe, M/H Cover & Gully	369 days	Fri 06/02/04	Fri 06/05/05	Fri 06/02/04	6.14.1 A1 to A2 Parapet & Curb													
98	6.14.1 A1 to A2 Parapet & Curb	30 days	Fri 06/02/04	Thu 13/03/05	Fri 06/02/04	6.14.2 A2 to A3 Parapet & Curb													
99	6.14.2 A2 to A3 Parapet & Curb	27 days	Mon 14/03/05	Tue 19/04/05	Mon 14/03/05	6.14.3 A3 to A4 Parapet & Curb													
100	6.14.3 A3 to A4 Parapet & Curb	60 days	Thu 23/09/04	Wed 15/10/04	Thu 23/09/04	6.14.4 A4 to A5 Parapet & Curb													
101	6.14.4 A4 to A5 Parapet & Curb	30 days	Mon 28/03/05	Fri 06/05/05	Mon 28/03/05	6.14.5 A4 to A5 Parapet & Curb													
102	6.14.5 A4 to A5 Parapet & Curb	749 days	Wed 12/11/01	Mon 21/11/05	Wed 12/11/01	7 Bridge B													
103	7.1 Ground Investigation	36 days	Fri 01/03/02	Mon 15/04/02	Fri 01/03/02	7.1 Ground Investigation													
104	7.2 Pre Bore H-Piles	431 days	Tue 16/04/02	Fri 20/09/03	Tue 16/04/02	7.2 Pre Bore H-Piles													
105	7.2.1 B1 H-Piles	20 days	Mon 11/08/03	Wed 10/09/03	Mon 11/08/03	7.2.1 B1 H-Piles													
106	7.2.2 B2 H-Piles	27 days	Mon 11/09/03	Wed 23/09/03	Mon 11/09/03	7.2.2 B2 H-Piles													
107	7.2.3 Loading test on Pile	12 days	Tue 09/09/03	Thu 23/09/03	Tue 09/09/03	7.2.3 Loading test on Pile													
108	7.3 Pile Cap & Abutment Wall B1 & B2	51 days	Wed 22/11/03	Mon 23/09/03	Wed 22/11/03	7.3 Pile Cap & Abutment Wall B1 & B2													
109	7.3.1 Temp works for B1 Pile Cap	35 days	Wed 24/09/03	Tue 24/09/03	Wed 24/09/03	7.3.1 Temp works for B1 Pile Cap													
110	7.3.2 Construct B1 Pile Cap	16 days	Wed 05/11/03	Scd 22/11/03	Wed 05/11/03	7.3.2 Construct B1 Pile Cap													
111	7.3.3 B1 Abutment	19 days	Mon 24/11/03	Mon 15/12/03	Mon 24/11/03	7.3.3 B1 Abutment													
112	Remove temp work and backfilling of B1 Abutment	10 days	Tue 16/12/03	Mon 29/12/03	Tue 16/12/03	Remove temp work and backfilling of B1 Abutment													
113	7.3.4 Temp. works for B2 Pile Cap	619 days	Wed 12/12/01	Scd 01/01/04	Wed 12/12/01	7.3.4 Temp. works for B2 Pile Cap													
114	7.4 Install Bridge Bearings	6 days	Fri 06/02/04	Thu 12/02/04	Fri 06/02/04	7.4 Install Bridge Bearings													
115	7.4.1 B1 bridge Bearings	6 days	Fri 06/02/04	Thu 12/02/04	Fri 06/02/04	7.4.1 B1 bridge Bearings													
116	7.4.2 B2 bridge Bearings	6 days	Fri 06/02/04	Thu 12/02/04	Fri 06/02/04	7.4.2 B2 bridge Bearings													
117	7.5 Install Precast Beams B1 to B2	6 days	Wed 18/02/04	Tue 24/02/04	Wed 18/02/04	7.5 Install Precast Beams B1 to B2													
118	7.6 Bridge Deck Construction B1 to B2	50 days	Wed 25/02/04	Scd 21/03/04	Wed 25/02/04	7.6 Bridge Deck Construction B1 to B2													
119	7.7 Bridge Deck Drilling B1 to B2	25 days	Wed 28/02/04	Scd 27/03/04	Wed 28/02/04	7.7 Bridge Deck Drilling B1 to B2													
120	7.8 Bridge Deck Parapet & Curb B1 to B2	20 days	Scd 29/05/04	Mon 21/06/04	Scd 29/05/04	7.8 Bridge Deck Parapet & Curb B1 to B2													
121	7.9 Remove Temp Platform(Underneath Bridge Deck)																		

# MASTER PROGRAMME (ST77/01/MP/13B)

Sha Tin New Town Stage II Contract No. ST77/01, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	Finish	2004												2005	
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
206	8.3.2 C1 Abutment Wall	25 days	Fri 14/11/03	Fri 12/12/03														
206	d) Erect outer formwork	5 days	Fri 14/11/03	Wed 19/11/03														
207	b) Fix steel rebar	5 days	Fri 14/11/03	Tue 25/11/03														
208	c) Erect inner formwork	6 days	Thu 20/11/03	Tue 26/11/03														
209	d) Checking	1 day	Wed 03/12/03	Wed 03/12/03														
210	e) Concreting	1 day	Thu 04/12/03	Thu 04/12/03														
211	f) Curing & Remove formwork	7 days	Fri 05/12/03	Fri 12/12/03														
212	Remove temp work and backfilling of Abutment C1	20 days	Sat 13/12/03	Thu 08/01/04														
213	8.3.3 C2 Pile Cap & Pier	50 days	Tue 24/09/02	Fri 22/11/02														
214	<b>8.4 Install Bridge Bearings</b>	<b>356.8 days</b>	<b>Fri 17/10/02</b>	<b>Fri 19/12/03</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>December 2003</b>	<b>January 2004</b>
215	8.4.1 C1 Bridge Bearings	6 days	Sat 13/12/03	Fri 19/12/03														
216	8.4.2 C2 Bridge Bearings	6 days	Wed 27/11/02	Tue 03/12/02														
217	8.4.3 C3 Bridge Bearings	234.8 days	Fri 11/10/02	Mon 28/07/03														
218	8.5 Install Precast Beams C1 to C2	125 days	Tue 29/07/03	Tue 23/12/03														
219	8.5.1 C1 to C2 PC Beams	3 days	Sat 20/12/03	Tue 23/12/03														
220	8.5.2 C2 to C3 PC Beams	3 days	Tue 29/07/03	Thu 31/07/03														
221	<b>8.6 Bridge Deck Construction C1 to C3</b>	<b>219 days</b>	<b>Fri 01/08/03</b>	<b>Mon 26/04/04</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>	<b>26 April 2004</b>
222	<b>8.6.1 C1 to C2 Bridge Deck (1st portion)</b>	<b>32 days</b>	<b>Wed 24/12/03</b>	<b>Thu 05/02/04</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>
229	8.6.2 C1 to C2 Bridge Deck (2nd portion)	65 days	Fri 06/02/04	Mon 26/04/04														
238	8.6.3 C2 to C3 Bridge Deck (1st portion)	66 days	Fri 01/08/03	Sat 18/10/03														
239	8.6.3 C2 to C3 Bridge Deck (2nd portion)	40 days	Mon 20/10/03	Thu 04/12/03														
240	<b>8.7 Bridge deck Drainage C1 to C3</b>	<b>36 days</b>	<b>Fri 06/02/04</b>	<b>Thu 18/03/04</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>	<b>18 March 2004</b>
241	8.7.1 C1 to C2 Drainage Pipe, M/H cover & Gully	18 days	Fri 06/02/04	Thu 26/02/04														
242	8.7.2 C2 to C3 Drainage Pipe, M/H cover & Gully	18 days	Fri 27/02/04	Thu 18/03/04														
243	<b>8.8 Bridge Deck Parapet &amp; Curb C1 to C3</b>	<b>137 days</b>	<b>Fri 05/12/03</b>	<b>Tue 25/05/04</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>	<b>25 May 2004</b>
244	8.8.1 C1 to C2 Parapet & Curb	24 days	Tue 27/04/04	Tue 25/05/04														
245	8.8.2 C2 to C3 Parapet & Curb	24 days	Fri 05/12/03	Mon 05/01/04														
246	8.9 Bridge A, B & C Movement Joints installation (10 nos)	13 days	Fri 29/04/05	Sat 14/05/05														
247	<b>9 Road works, Pavement &amp; Cycle Track</b>	<b>110 days</b>	<b>Sat 06/01/05</b>	<b>Thu 26/05/05</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>	<b>26 May 2004</b>
248	9.1 Drainage to on Grade Road	40 days	Sat 06/01/05	Sat 26/02/05														
249	9.2 Utilities off on Grade Road	40 days	Thu 20/01/05	Thu 10/03/05														
250	<b>9.3 Carriageway Flexible Pavement</b>	<b>57 days</b>	<b>Fri 11/03/05</b>	<b>Mon 24/05/05</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>	<b>24 May 2004</b>
251	9.3.1 Sub base & DBM Course	30 days	Fri 11/03/05	Tue 19/04/05														
252	9.3.2 Bituminous Base Course	30 days	Wed 23/03/05	Sat 30/04/05														
253	9.3.3 Wearing Course to On grade road	20 days	Wed 30/03/05	Tue 26/04/05														
254	9.3.4 Base Course & Wearing Course to Bridges A, B & C	6 days	Tue 17/05/05	Mon 23/05/05														
255	9.4 Road Marking & road furniture	3 days	Tue 24/05/05	Thu 26/05/05														
256	9.5 Foot path	30 days	Wed 30/03/05	Mon 09/05/05														
257	9.6 Cycle Track	30 days	Thu 20/01/05	Sat 02/04/05														
258	9.7 Light Poles	40 days	Fri 25/03/05	Tue 17/05/05														
259	9.8 Road Work Finishing	21 days	Thu 21/04/05	Tue 17/05/05														
260	<b>10 Retaining Walls</b>	<b>920 days</b>	<b>Wed 12/12/01</b>	<b>Wed 26/01/05</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>	<b>26 January 2004</b>
261	<b>10.1 RW1</b>	<b>50 days</b>	<b>Wed 06/11/02</b>	<b>Mon 19/07/04</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>	<b>19 July 2004</b>
262	10.1 Temp. diversion of 150mm dia water main	30 days	Fri 01/08/03	Thu 04/09/03														
263	10.1.1 RW1 Bay 1	310 days	Wed 06/11/02	Sat 22/11/03														
274	10.1.2 RW1 Bay 2	51 days	Tue 21/10/03	Thu 16/12/03														
285	10.1.3 RW1 Bay 3	21 days	Sat 28/11/03	Wed 22/01/05														
296	10.1.4 RW1 Bay 4	29 days	Fri 07/11/03	Wed 16/12/03														
308	10.1.5 RW1 Bay 5	30 days	Wed 19/11/03	Mon 19/07/04														
309	10.1.6 RW1 Bay 6	19 days	Fri 25/08/04	Sat 17/07/04														
Date: 18/10/2003		Task Progress	Critical Task	Milestone	Summary	Rolloved Up Task												Project Summary
						Rolloved Up Critical Task												Split
						Rolloved Up Milestone												External Tasks

**MASTER PROGRAMME (ST77/01/MF/13B)**

Sha Tin New Town Stage II Contract No. ST77/01, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	Finish	2004												2005
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
320	10.2 RW2	929 days	Wed 12/12/01	Wed 26/01/05													
321	10.2.1 RW2 Bay 1	60 days	Wed 10/09/03	Thu 21/11/03													
333	10.2.2 RW2 Bay 2	28 days	Mon 10/11/03	Thu 11/12/03													
344	10.2.3 RW2 Bay 3	17 days	Sat 01/11/03	Thu 20/11/03													
356	10.2.4 RW2 Bay 4	23 days	Tue 04/11/03	Sa 29/11/03													
366	10.2.5 RW2 Bay 5	20 days	Wed 12/12/01	Sa 09/02/02													
367	10.2.6 RW2 Bay 6	605 days	Wed 15/01/03	Wed 26/01/05													
378	10.2.7 RW2 Bay 7	374 days	Sat 25/10/03	Wed 26/01/05													
390	10.3 RW3	545 days	Wed 12/12/01	Mon 13/01/03													
397	10.4 RW4	100 days	Wed 12/12/01	Wed 17/04/02													
401	10.5 RW5	115 days	Fri 01/08/03	Mon 15/12/03													
402	10.6 RW6	48 days	Sat 13/12/03	Fri 13/01/04													
403	10.6.1 Install temporary work	3 days	Sat 13/12/03	Tue 16/12/03													
404	10.6.2 Excavation to +16.5	5 days	Wed 17/12/03	Mon 22/12/03													
405	10.6.3 Bay 1	24 days	Tue 23/12/03	Mon 26/01/04													
406	10.6.4 Bay 2	24 days	Mon 05/01/04	Wed 04/02/04													
407	10.6.5 Borefill to +22	6 days	Thu 05/02/04	Wed 11/02/04													
408	10.6.6 Remove temporary work	2 days	Thu 12/02/04	Fri 13/02/04													
409	10.7 RW7	615 days	Thu 06/05/02	Tue 29/06/04													
410	10.7.1 Pre-drill holes (21 nos)	47 days	Thu 06/06/02	Thu 01/08/02													
411	10.7.2 Forming working platform	24 days	Fri 02/08/02	Thu 29/08/02													
412	10.7.3 Install bore pile (21 nos)	544 days	Fri 30/08/02	Tue 28/06/04													
413	10.7.3.0 Completed Bore Piles	183 days	Fri 30/08/02	Fri 28/02/03													
414	10.7.3.1 Bore Pile	6 days	Mon 14/04/03	Wed 23/04/03													
415	10.7.3.2 B10.B11.B13.B14	61 days	Mon 31/03/03	Tue 17/06/03													
416	10.7.4 Bore Pile Sonic Test	14 days	Mon 18/06/03	Tue 02/09/03													
417	10.7.5 Bore Pile Core Test	28 days	Wed 03/09/03	Tue 07/10/03													
418	10.7.5 Construct lagging/concrete decorative wall	30 days	Sat 14/02/04	Fri 19/03/04													
419	10.7.6 Construct extension section above bored pile	56 days	Sat 20/03/04	Mon 31/05/04													
420	10.7.7 Construct Capping Beam	24 days	Tue 01/06/04	Tue 29/06/04													
421	10.8 RW8	218 days	Tue 08/10/02	Fri 04/07/03													
427	10.9 RW11	190 days	Wed 12/12/01	Mon 05/08/02													
430	10.10 RW12	220 days	Mon 21/07/03	Mon 12/04/04													
431	Temp. diversion of 150mm dia water main	107 days	Fri 01/08/03	Fri 15/12/03													
432	10.10.1 RW12 Bay 1	20 days	Wed 14/01/04	Mon 09/02/04													
433	10.10.2 RW12 Bay 2	35 days	Wed 24/12/03	Mon 19/01/04													
434	10.10.3 RW12 Bay 3	25 days	Mon 21/07/03	Fri 29/08/03													
435	10.10.4 Drainage works in vicinity of pier C2 of Bridge C	30 days	Tue 10/02/04	Tue 09/03/04													
436	10.10.5 Water works in vicinity of RW 12	30 days	Wed 24/12/03	Tue 03/02/04													
437	10.10.6 Laying new utilities	30 days	Wed 04/02/04	Tue 09/03/04													
438	10.10.7 Drainage & Roadworks	28 days	Wed 10/03/04	Mon 12/04/04													
439	11.0 Noise Barriers Preliminary	1029 days	Wed 12/12/01	Thu 03/06/05													
440	11.1 Temporary Work Submission & Approval	300 days	Wed 12/12/01	Fri 13/12/01													
441	11.2 Noise Barrier Structures	736 days	Wed 12/12/01	Sat 05/06/04													
442	11.2.1 Noise Barrier No. 1	666 days	Wed 12/12/01	Tue 09/06/04													
443	11.2.1.1 Site investigation	30 days	Wed 12/12/01	Tue 22/01/02													
444	11.2.1.2 Traffic Diversion at Lok Shun Path	1 day	Wed 21/06/03	Wed 21/05/03													
445	11.2.1.3 Demolish Existing Wall/Footing	60 days	Mon 17/02/03	Fri 09/05/03													
446	11.2.1.4 Temporary earth platform for Bore Pile Equipment	6 days	Thu 22/05/03	Thu 29/05/03													
447	11.2.1.5 Bore Piles SP1 to SP4	35 days	Fri 30/05/03	Thu 17/07/03													
	Task Progress																
	Critical Task																
	Milestone																
	Summary																

Rolled Up Progress [ ] Split External Tasks [ ]

Project Summary [ ]

# MASTER PROGRAMME (ST77/01/M/P/13B)

Sha Tin New Town Stage II Contract No. ST77/01, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	Finish	2004												2005													
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
448	11.2.1.6 Bore Piles Coring Test (4nos)	10 days	Fri 22/08/03	Thu 04/09/03																										
449	11.2.1.8 RW Panel 1	80 days	Thu 27/11/03	Fri 05/03/04																										
457	11.2.1.9 RW Panel 2	80 days	Mon 01/12/03	Tue 09/03/04																										
469	11.2.1.10 RW Panel 3	34 days	Sat 28/11/03	Sat 10/12/03																										
484	11.2.1.11 RW Panel 4	65 days	Fri 10/12/03	Wed 24/12/03																										
500	11.2.1.12 RW Panel 5	49 days	Mon 28/09/03	Tue 26/11/03																										
515	11.2.1.13 RW Panel 6	49 days	Tue 28/10/03	Tue 23/12/03																										
530	11.2.1.14 RW Panel 7	46 days	Wed 27/08/03	Tue 21/10/03																										
545	11.2.2 Additional Bore Piles	70 days	Thu 06/07/03	Tue 30/09/03																										
546	11.2.2.1 Mobilisation of RCD	9 days	Thu 10/07/03	Sat 19/07/03																										
547	11.2.2.1 ABP1	11 days	Mon 21/07/03	Fri 01/08/03																										
559	11.2.2.2 ABP2	17 days	Sa 02/08/03	Thu 21/08/03																										
571	11.2.2.3 Bore Piles Test	12 days	Wed 17/08/03	Tue 30/08/03																										
572	11.2.2.3.1 Sonic Test	1 day	Wed 17/09/03	Wed 17/09/03																										
573	11.2.2.3.2 Core Test (2nos)	7 days	Sat 20/09/03	Sat 27/09/03																										
574	11.2.2.3 Grouting Sonic Tubes and core holes	2 days	Mon 29/09/03	Tue 30/09/03																										
575	11.2.3 Noise Barrier No. 4B	120 days	Thu 08/01/04	Sa 05/04/04																										
581	11.2.3a Concrete Footing for Noise Barrier 4C	45 days	Wed 15/05/02	Wed 15/06/02																										
582	11.2.4 Noise Barrier No. 5	69 days	Thu 16/05/02	Wed 07/06/02																										
583	11.2.4.1 Excavation	12 days	Thu 16/05/02	Thu 30/05/02																										
584	11.2.4.2 Construct Footing and Walls	45 days	Fri 31/05/02	Wed 24/07/02																										
585	11.2.4.3 Backfill to Foundation of Noise Barrier No. 5	12 days	Thu 25/07/02	Wed 07/08/02																										
586	11.3 Noise Barrier Steel Posts & Panels	1029 days	Wed 12/12/01	Thu 02/06/05																										
587	11.3.1 Procurement and Fabrication of Noise Barrier	150 days	Wed 12/12/01	Tue 18/06/02																										
588	11.4.1 Design, Submission for approval	250 days	Wed 19/06/02	Wed 16/04/03																										
589	11.4.2 Fabrication and Delivery	200 days	Thu 17/04/03	Tue 18/12/03																										
590	11.4.3 Noise Barrier Installation	363 days	Wed 10/03/04	Thu 02/06/05																										
591	11.4.3.1 Noise Barrier No. 1	60 days	Wed 10/03/04	Mon 24/05/04																										
592	11.4.3.2 Noise Barrier No. 2	40 days	Mon 07/03/05	Tue 26/04/05																										
593	11.4.3.3 Noise Barrier No. 3	40 days	Mon 11/04/05	Thu 02/06/05																										
594	11.4.3.4 Noise Barrier No. 4A	18 days	Fri 20/04/05	Sat 21/05/05																										
595	11.4.3.5 Noise Barrier No. 4B	30 days	Mon 07/06/04	Tue 13/07/04																										
596	11.4.3.6 Noise Barrier No. 4B of Bridge A, A2 to A3	10 days	Wed 20/04/05	Sat 30/04/05																										
597	11.4.3.6 Noise Barrier No. 4C	30 days	Mon 03/05/04	Mon 07/06/04																										
598	11.4.3.7 Noise Barrier No. 5	40 days	Tue 08/06/04	Mon 26/07/04																										
599	12 Box Culvert Extension	745 days	Wed 12/12/01	Wed 16/08/04																										
600	12.1 Remove existing inlet, water diversion	158 days	Wed 12/12/01	Thu 27/06/02																										
601	12.2 Box culvert	156 days	Mon 31/12/01	Fri 12/07/02																										
602	12.3 Flood Wall	29 days	Thu 30/05/02	Thu 04/07/02																										
603	12.4 Construct 1400 box culvert (5 bays)	166 days	Thu 04/07/02	Wed 21/12/03																										
604	12.5 Construct 1500 pipe	188 days	Tue 10/04/03	Wed 26/06/04																										
605	12.5.1 Construct 1500 pipe CH 0 to CH 30 (MHA4 to MH31)	100 days	Tue 28/10/03	Fri 27/12/03																										
606	12.5.2 Construct 1500 pipe CH 30 to CH 32	44 days	Sat 28/02/04	Fri 23/04/04																										
607	12.5.3 Construct 1500 pipe CH 30 to CH 32	44 days	Sat 24/04/04	Wed 16/06/04																										
608	12.6 Construct CP15 (Delayed)	0 days	Sat 15/03/03	Sat 15/03/03																										
609	12.7 Construct M/H31	60 days	Mon 22/03/03	Mon 01/12/03																										
610	12.8 Construct 1400 Box Culvert Extension (bay A, B & manhole )	90 days	Mon 14/04/03	Mon 04/08/03																										
611																														
612	13.0 Underground Drainage & Utilities	655 days	Wed 15/01/03	Tue 26/03/05																										
613	13.1 Drainage & Roadworks at Lok Ha Lo roundabout	651 days	Wed 15/10/03	Thu 24/03/05																										
Date: 18/10/2003		Task Progress		Critical Task Progress		Rolled Up Task		Milestone		Critical Task		Rolled Up Critical Task		Split		External Tasks		Project Summary												

MASTER PROGRAMME (ST77/01/MP/13B)

Shin Path and Tin Da Road (S-101) (W-13B)

**MASTER PROGRAMME (ST77/01/MP/13B)**

Sha Tin New Town Stage II Contract No. ST77/01, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	Start	Finish	2004	2005											
664	18.4 Section III Completion	0 days	Wed 12/12/01	Wed 12/12/01	Wed 12/12/01	.	.	.	.	.	.	.	.	.	.	.	.

Date: 18/10/2003	Task Progress	<input type="checkbox"/>	Critical Task Progress	<input checked="" type="checkbox"/>	Rolled Up Task	<input type="checkbox"/>	Rolled Up Progress	<input type="checkbox"/>	Project Summary
	Critical Task	<input type="checkbox"/>	Milestone	<input checked="" type="checkbox"/>	Rolled Up Critical Task	<input type="checkbox"/>	Split	<input type="checkbox"/>	.
		<input type="checkbox"/>	Summary	<input type="checkbox"/>	Rolled Up Milestone	<input type="checkbox"/>	External Tasks	<input type="checkbox"/>	.