

# **Territory 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 -  
March 2004**

**April 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 –  
March 2004**

Checked in accordance with EML QP22 \_\_\_\_\_  
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 March 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, 7 and 12;
- Noise barrier construction for noise barrier No. 1 and noise barrier No. 4B;
- Box culvert extension of 1500 pipe;
- Underground drainage and water pipes at Lok Shun Path Roundabout; and
- Construction of staircases 10 and 11.

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 mud and sand at wheel washing bay and gullies at roundabout were cleared off. In addition, the disused diesel tanks were removed and construction waste near Noise Barrier No. 4C was covered by tarpaulin. Besides, stagnant water found on drip-tray and cover sheet at the valley under Bridge B was cleared off. Furthermore, the Wetsep pump sump was properly maintained.

In this month, however, it was noted that sand and black mud was found accumulated at Lok Shun Path Roundabout. Besides, watermain were found leaking near Retaining Wall No. 12. Furthermore, debris and rubbish were found exposed near Bridge B, site boundary near headwall and between Piers C1 and C2. The Contractor was reminded to clear off any sand and mud found at the roundabout. The Contractor was also asked to rectify the watermain leakage as soon as possible. Besides, the Contractor was reminded to cover the construction waste and debris with tarpaulin and remove the waste once the site access is reopened.

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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 March 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 contracts of key personnel.

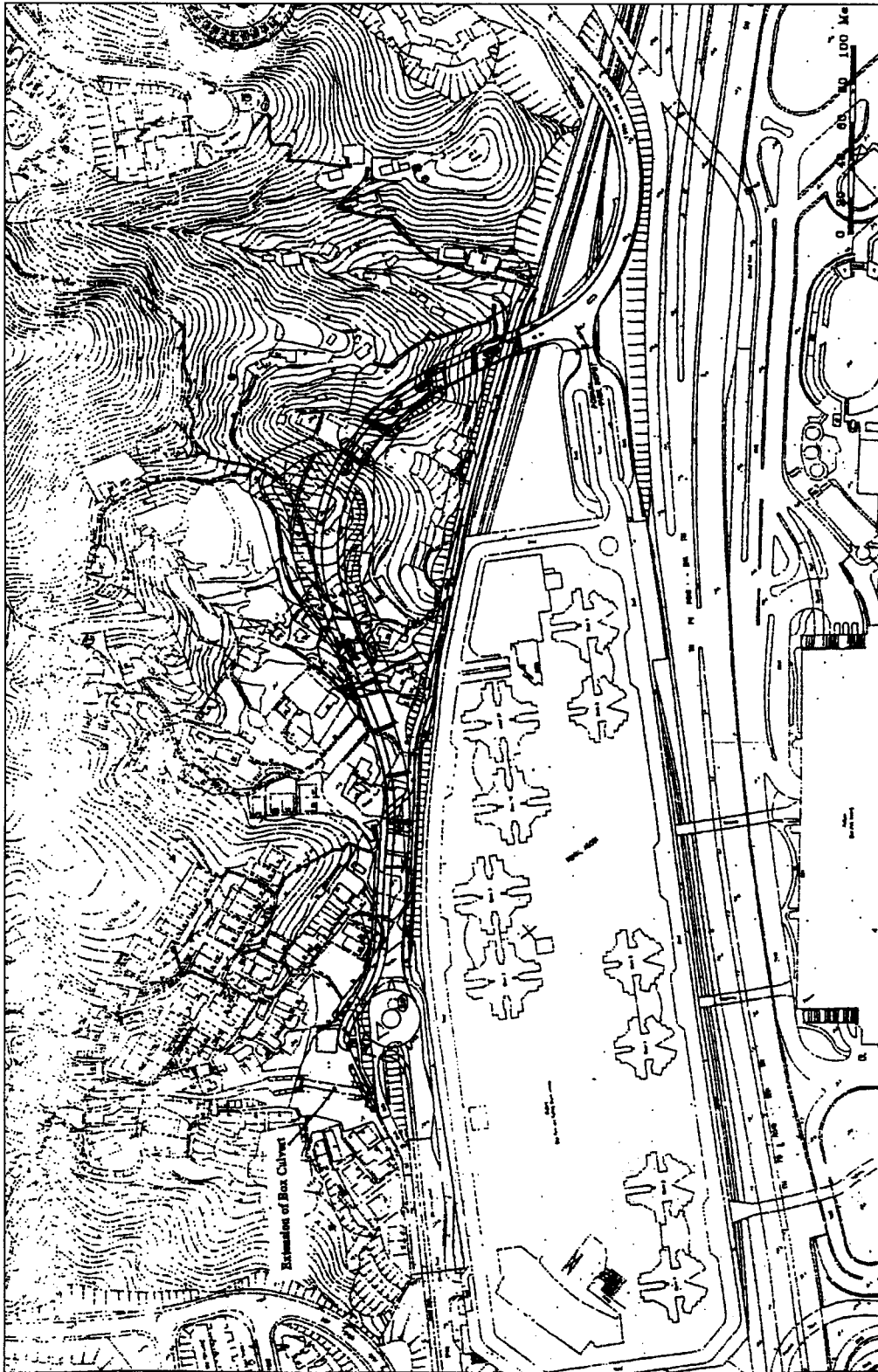


Figure 1.1 Project Area

## 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 March 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	103.4	62 – 134	0	0
	A2	111.6	82 – 154	0	0
	A3	114.2	92 – 123	0	0
1 – hour TSP	A1	204.2	104 – 308	0	0
	A2	211.5	117 – 288	0	0
	A3	202.8	123 – 300	0	0

From **Table 2.2** above, all measured 24-TSP and 1-hour TSP monitoring data were below the criteria as set out in the Action and Limit Levels in **Appendix A**.

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 and staircases. It was also observed that there were construction activities carried out on the 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 and 1-hour TSP levels at all stations were generally lower in this reporting month except the mean 24-hour TSP at Stations A2 and A3. The highest mean TSP level was recorded at Station A2 (1-hour TSP) with a value of  $211.5\mu\text{g}/\text{m}^3$  which was lower than the value of  $224.9\mu\text{g}/\text{m}^3$  recorded in February.





**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 March 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 (Leq)	N1	58.7 – 64.9	0	0
	N2	60.2 – 67.4	0	0
	N3	55.1 – 56.9	0	0
	N4	56.6 – 60.4	0	0
	N5	56.9 – 61.8	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**.

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 piling, excavating and breaking were presented 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 at all stations were generally lower. The highest level was recorded at Station N2 (67.4 dB(A)) and occurred in the morning of 5 March.

According to the field log, the major noise source at that time was sheet piling 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 six environmental issues were raised:

- Mud and sand accumulated at wheel washing bay should be cleared off.
- Gullies at roundabout should be constantly cleaned.
- Disused diesel tanks should be removed from site.
- Construction waste near Noise Barrier No. 4C should be covered with tarpaulin and removed once the site access is reopen.
- Stagnant water found on site, especially on drip-tray and cover sheet at the valley under Bridge B, should be cleared off.
- Wetsep pump sump should be maintained properly, for example, pump should function well and sandbag barriers should be packed tighter.

It was noted from site inspections that the mud and sand at wheel washing bay and gullies at roundabout were cleared off. In addition, the disused diesel tanks were removed and construction waste near Noise Barrier No. 4C was covered by tarpaulin. Besides, stagnant water found on drip-tray and cover sheet at the valley under Bridge B was cleared off. Furthermore, the Wetsep pump sump was properly maintained.

**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
4 March 2004 (Thursday)	Regular Site Inspection
11 March 2004 (Thursday)	Regular Site Inspection
17 March 2004 (Wednesday)	Regular Site Inspection
25 March 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, 7 and 12;
- Noise barrier construction for noise barrier No. 1 and noise barrier No. 4B;
- Box culvert extension of 1500 pipe;
- Underground drainage and water pipes at Lok Shun Path Roundabout; and
- Construction of staircases 10 and 11.

#### 3.2 Assessment of Environmental Monitoring Results

In this reporting month, there was no exceedance recorded for both impact air quality and noise monitoring. The monitoring results were discussed in Section 2 of this report and are summarised in **Table 3.2** 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	01/3/04 to 31/3/04	15	0	0
2	1 – hour TSP	01/3/04 to 31/3/04	51	0	0
3	30-minute Noise Measurement (Leq)	01/3/04 to 31/3/04	30	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 3.5 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	Installed and in operation.
	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	Installed at the existing channel.
Wastewater	Water reuse at wheel washing facility and site investigation drilling works.	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

Type	Mitigation Measure	Comments
	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

In this month, it was noted that sand and black mud was found accumulated at Lok Shun Path Roundabout. Besides, watermains were found leaking near Retaining Wall No. 12. Furthermore, debris and rubbish were found exposed near Bridge B, site boundary near headwall and between Piers C1 and C2. The Contractor was reminded to clear off any sand and mud found at the roundabout. The Contractor was also asked to rectify the watermains leakage as soon as possible. Besides, the Contractor was reminded to cover the construction waste and debris with tarpaulin and remove the waste once the site access is reopened..

#### 4. FUTURE KEY ISSUE AND RECOMMENDATION

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

- Sand and black mud was found accumulated at Lok Shun Path Roundabout and should be cleared.
- Watermains leakage was found near Retaining Wall No. 12 and should be rectified immediately.
- Construction waste and debris near Bridge B, site boundary near headwall and between Piers C1 and C2 should be covered with tarpaulin and removed once the site access is reopened.

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 – March 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 March 2004

Mar-04	Day	Start Time	
		24-hr TSP	1-hr TSP
1	Mon	x	09:00,11:00
2	Tue	x	x
3	Wed	x	x
4	Thu	09:30	08:00
5	Fri	x	09:00,11:00
6	Sat	x	x
7	Sun	x	x
8	Mon	x	x
9	Tue	x	x
10	Wed	09:30	08:00
11	Thu	x	09:00,11:00
12	Fri	x	x
13	Sat	x	x
14	Sun	x	x
15	Mon	x	x
16	Tue	09:30	08:00
17	Wed	x	09:00,11:00
18	Thu	x	x
19	Fri	x	x
20	Sat	x	x
21	Sun	x	x
22	Mon	09:30	08:00
23	Tue	x	09:00,11:00
24	Wed	x	x
25	Thu	x	x
26	Fri	09:30	08:00
27	Sat	x	x
28	Sun	x	x
29	Mon	x	09:00,11:00
30	Tue	x	x
31	Wed	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 March 2004

Mar-02	Day	Start Time				
		N1	N2	N3	N4	N5
1	Wed	09:50	11:15	13:00	10:25	09:00
2	Thu	x	x	x	x	x
3	Fri	x	x	x	x	x
4	Sat	x	x	x	x	x
5	Sun	09:50	11:15	13:00	10:25	09:00
6	Mon	x	x	x	x	x
7	Tue	x	x	x	x	x
8	Wed	x	x	x	x	x
9	Thu	x	x	x	x	x
10	Fri	x	x	x	x	x
11	Sat	09:50	11:15	13:00	10:25	09:00
12	Sun	x	x	x	x	x
13	Mon	x	x	x	x	x
14	Tue	x	x	x	x	x
15	Wed	x	x	x	x	x
16	Thu	x	x	x	x	x
17	Fri	09:50	11:15	13:00	10:25	09:00
18	Sat	x	x	x	x	x
19	Sun	x	x	x	x	x
20	Mon	x	x	x	x	x
21	Tue	x	x	x	x	x
22	Wed	x	x	x	x	x
23	Thu	09:50	11:15	13:00	10:25	09:00
24	Fri	x	x	x	x	x
25	Sat	x	x	x	x	x
26	Sun	x	x	x	x	x
27	Mon	x	x	x	x	x
28	Tue	x	x	x	x	x
29	Wed	09:50	11:15	13:00	10:25	09:00
30	Thu	x	x	x	x	x
31	Fri	x	x	x	x	x

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

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

Contract No. ST77/01

Sha Tin New Town, Stage II

Road D15 Linking Lok Shun Path and Tai Po Road

Tentative Time Schedule for Constrction Phase Noise Monitoring for April 2004

Apr-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	x	x	x	x	x
8	Thu	09:50	11:15	13:00	10:25	09:00
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	x	x	x	x	x
14	Wed	09:50	11:15	13:00	10:25	09:00
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	x	x	x	x	x
20	Tue	09:50	11:15	13:00	10:25	09:00
21	Wed	x	x	x	x	x
22	Thu	x	x	x	x	x
23	Fri	x	x	x	x	x
24	Sat	x	x	x	x	x
25	Sun	x	x	x	x	x
26	Mon	09:50	11:15	13:00	10:25	09:00
27	Tue	x	x	x	x	x
28	Wed	x	x	x	x	x
29	Thu	x	x	x	x	x
30	Fri	09:50	11:15	13:00	10:25	09:00

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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		Total Sampling Time (min.)	Conc. (µg/m <sup>3</sup> )	Weather Condition
	Initial	Final	Initial	Final	Initial	Final			
4-Mar-04	2.8267	2.9931	1.11	1.11	12923.17	12947.17	1440	104	Fine
10-Mar-04	2.8399	3.0505	1.11	1.11	12950.17	12974.17	1440	132	Fine
16-Mar-04	2.9096	3.1236	1.11	1.11	12977.17	13001.17	1440	134	Cloudy
22-Mar-04	2.8734	3.0109	1.11	1.11	13004.17	13028.17	1440	85	Fine
26-Mar-04	2.8459	2.9446	1.11	1.11	13031.17	13055.17	1440	62	Cloudy
							Min	62	
							Max	134	
							Average	103.4	

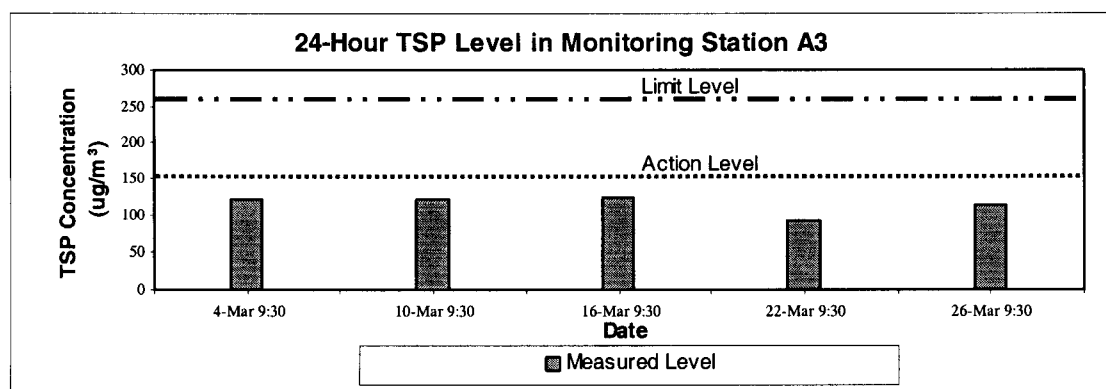
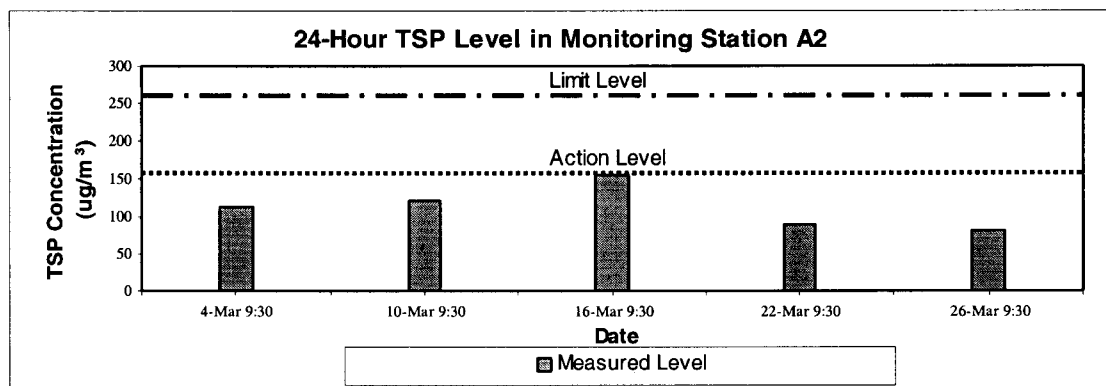
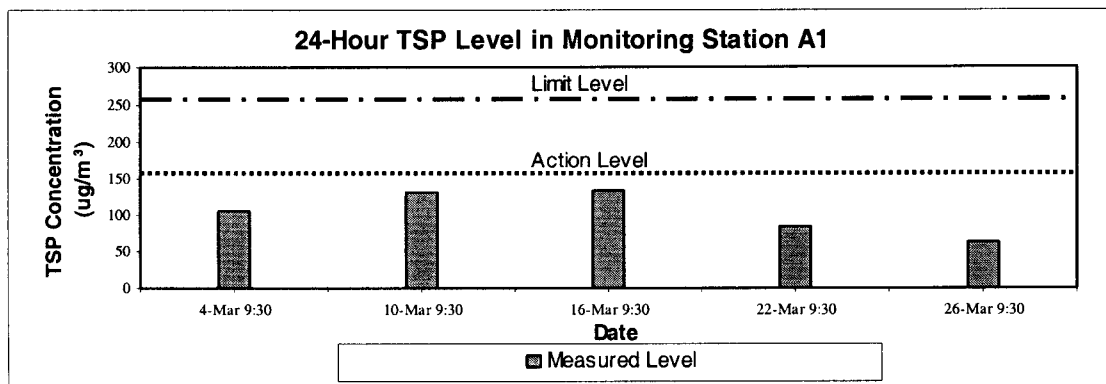
#### Monitoring Station A2 (Lok Lo Ha Village House No. 104)

Date	Filter Weight (g)		Flow Rate (m <sup>3</sup> /min.)		Elapse Time		Total Sampling Time (min.)	Conc. (µg/m <sup>3</sup> )	Weather Condition
	Initial	Final	Initial	Final	Initial	Final			
4-Mar-04	2.8038	2.9835	1.11	1.11	3596.75	3620.75	1440	112	Fine
10-Mar-04	2.8187	3.0103	1.11	1.11	3623.75	3647.75	1440	120	Fine
16-Mar-04	2.9160	3.1626	1.11	1.11	3650.75	3674.75	1440	154	Cloudy
22-Mar-04	2.8897	3.0339	1.11	1.11	3677.75	3701.75	1440	90	Fine
26-Mar-04	2.8421	2.9725	1.11	1.11	3704.75	3728.75	1440	82	Cloudy
							Min	82	
							Max	154	
							Average	111.6	

**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.)	Conc. (µg/m <sup>3</sup> )	Weather Condition
	Initial	Final	Initial	Final	Initial	Final			
4-Mar-04	2.7585	2.9501	1.11	1.11	12111.07	1235.07	1440	120	Fine
10-Mar-04	2.8310	3.0260	1.11	1.11	12138.07	12162.07	1440	122	Fine
16-Mar-04	2.8871	3.0830	1.11	1.11	12165.07	12189.07	1440	123	Cloudy
22-Mar-04	2.9171	3.0643	1.11	1.11	12192.07	12216.07	1440	92	Fine
26-Mar-04	2.8622	3.0440	1.11	1.11	12219.07	12243.07	1440	114	Cloudy
							Min	92	
							Max	123	
							Average	114.2	

## 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, $\mu\text{g}/\text{m}^3$
1-Mar-04	9000 – 1000	144
1-Mar-04	1100 – 1200	233
4-Mar-04	0800 – 0900	212
5-Mar-04	0950 – 1050	179
5-Mar-04	1100 – 1200	174
10-Mar-04	0800 – 0900	200
11-Mar-04	0950 – 1050	299
11-Mar-04	1100 – 1200	308
16-Mar-04	0800 – 0900	287
17-Mar-04	0950 – 1050	284
17-Mar-04	1100 – 1200	291
22-Mar-04	0800 – 0900	122
23-Mar-04	0950 – 1050	137
23-Mar-04	1100 – 1200	149
26-Mar-04	0800 – 0900	219
29-Mar-04	0950 – 1050	104
29-Mar-04	1110 – 1210	129
	Average	204.2
	Min	104
	Max	308

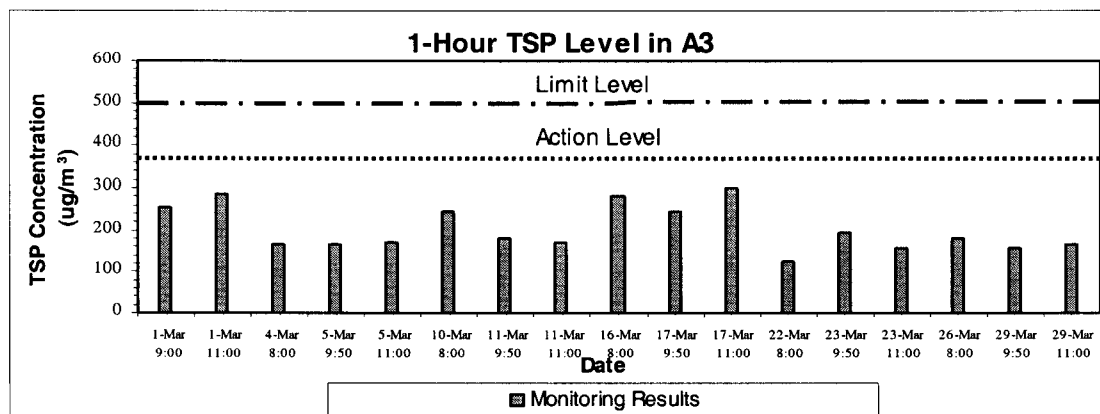
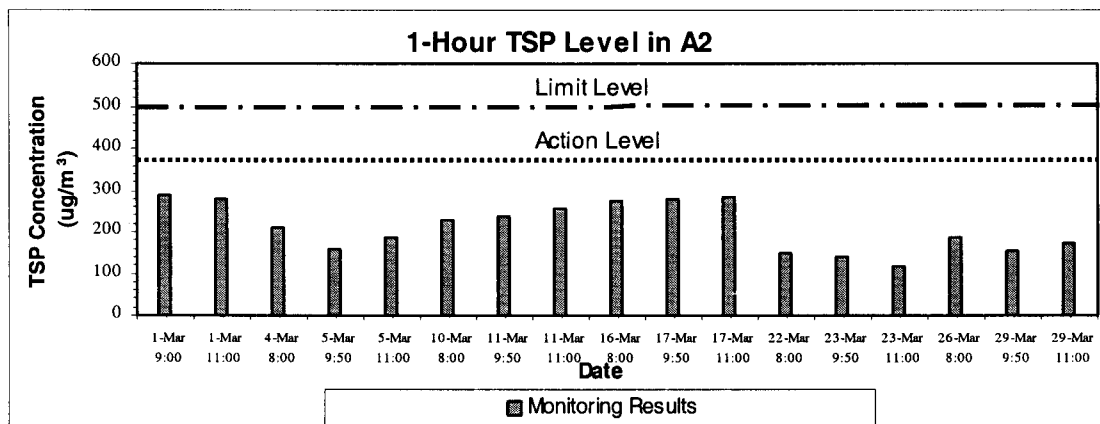
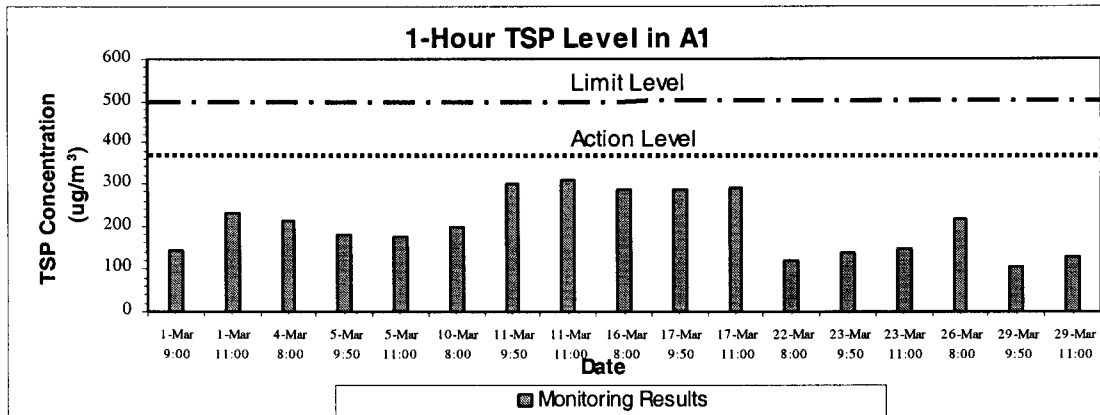
### Station A2 (Lok Lo Ha Village House No. 104)

Date	Time of sampling	Concentration, $\mu\text{g}/\text{m}^3$
1-Mar-04	9000 – 1000	288
1-Mar-04	1100 – 1200	281
4-Mar-04	0800 – 0900	209
5-Mar-04	0950 – 1050	156
5-Mar-04	1100 – 1200	185
10-Mar-04	0800 – 0900	228
11-Mar-04	0950 – 1050	237
11-Mar-04	1100 – 1200	255
16-Mar-04	0800 – 0900	275
17-Mar-04	0950 – 1050	279
17-Mar-04	1100 – 1200	285
22-Mar-04	0800 – 0900	147
23-Mar-04	0950 – 1050	140
23-Mar-04	1100 – 1200	117
26-Mar-04	0800 – 0900	188
29-Mar-04	0950 – 1050	152
29-Mar-04	1110 – 1210	174
	Average	211.5
	Min	117
	Max	288

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

<b>Date</b>	<b>Time of sampling</b>	<b>Concentration, <math>\mu\text{g}/\text{m}^3</math></b>
1-Mar-04	9000 – 1000	255
1-Mar-04	1100 – 1200	284
4-Mar-04	0800 – 0900	167
5-Mar-04	0950 – 1050	164
5-Mar-04	1100 – 1200	170
10-Mar-04	0800 – 0900	245
11-Mar-04	0950 – 1050	182
11-Mar-04	1100 – 1200	171
16-Mar-04	0800 – 0900	282
17-Mar-04	0950 – 1050	246
17-Mar-04	1100 – 1200	300
22-Mar-04	0800 – 0900	123
23-Mar-04	0950 – 1050	195
23-Mar-04	1100 – 1200	158
26-Mar-04	0800 – 0900	182
29-Mar-04	0950 – 1050	159
29-Mar-04	1110 – 1210	164
	Average	202.8
	Min	123
	Max	300

## 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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## 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>
1-Mar-04	0942 – 1012	58.7	61.7	55.6
5-Mar-04	0910 – 0940	60.4	63.6	57.6
11-Mar-04	0915 – 0945	59.9	62.8	56.7
17-Mar-04	0912 – 0942	60.3	62.0	56.9
23-Mar-04	0912 – 0942	59.5	61.7	56.7
29-Mar-04	0912 – 0942	64.9	66.9	61.9

Min	58.7	61.7	55.6
Max	64.9	66.9	61.9

### 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>
1-Mar-04	1030 – 1100	60.8	63.2	57.6
5-Mar-04	1031 – 1101	67.4	69.5	65.1
11-Mar-04	1041 – 1111	64.2	66.7	58.5
17-Mar-04	1051 – 1121	60.2	62.2	56.8
23-Mar-04	1036 – 1106	65.9	67.6	63.3
29-Mar-04	1024 – 1054	61.4	63.0	58.6

Min	60.2	62.2	56.8
Max	67.4	69.5	65.1

### 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>
1-Mar-04	1117 – 1147	56.3	58.3	54.3
5-Mar-04	1126 – 1156	55.8	57.5	53.2
11-Mar-04	1127 – 1157	56.2	58.4	53.7
17-Mar-04	1130 – 1200	56.4	58.8	54.5
23-Mar-04	1122 – 1152	55.1	57.4	51.6
29-Mar-04	1109 – 1139	56.9	58.9	55.3

Min	55.1	57.4	51.6
Max	56.9	58.9	55.3

**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>
1 -Mar-04	0905 – 0935	56.6	58.6	54.4
5-Mar-04	0954 – 1024	58.1	61.2	56.3
11-Mar-04	1002 – 1032	60.1	62.6	56.8
17-Mar-04	1013 – 1043	58.1	60.1	56.2
23-Mar-04	1002 – 1032	58.6	61.1	56.4
29-Mar-04	0950 – 1020	60.4	62.6	58.3

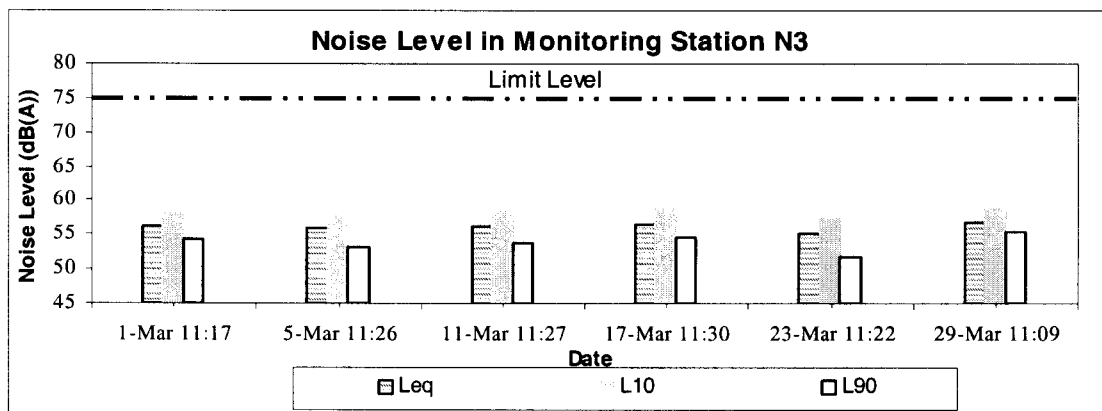
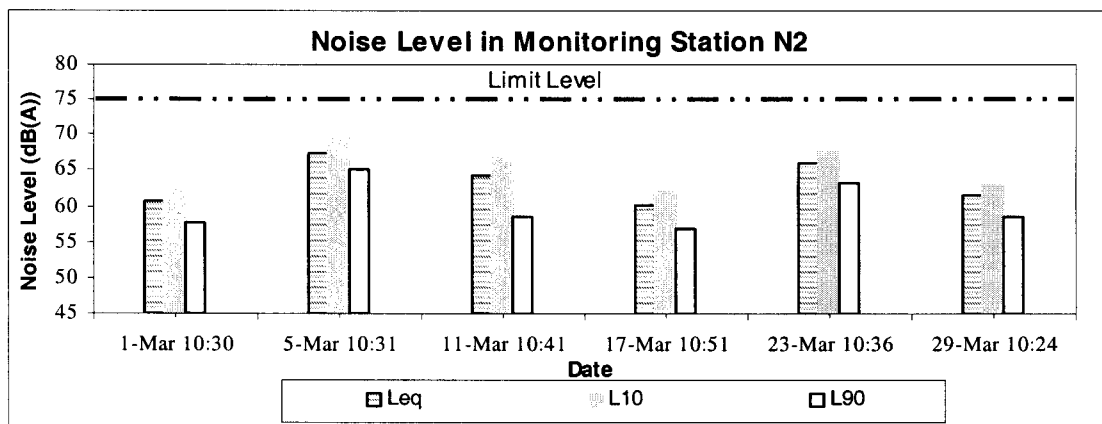
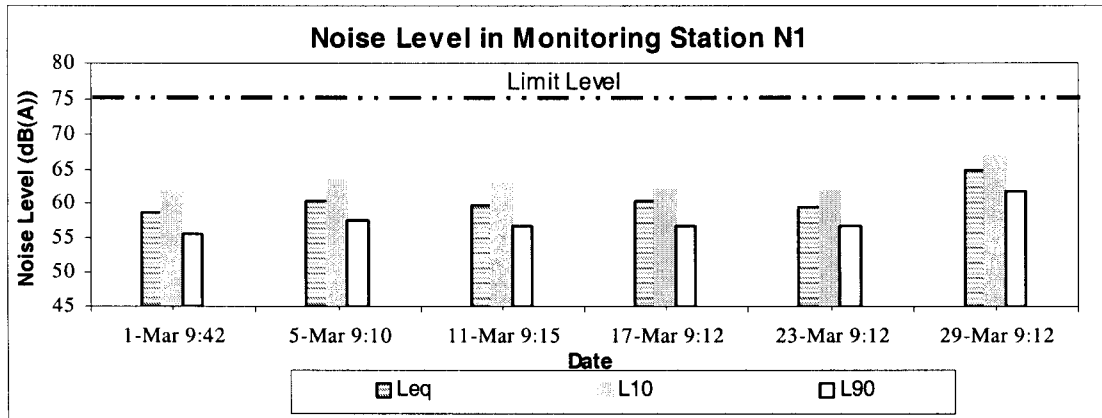
Min                    56.6                    58.6                    54.4  
Max                    60.4                    62.6                    58.3

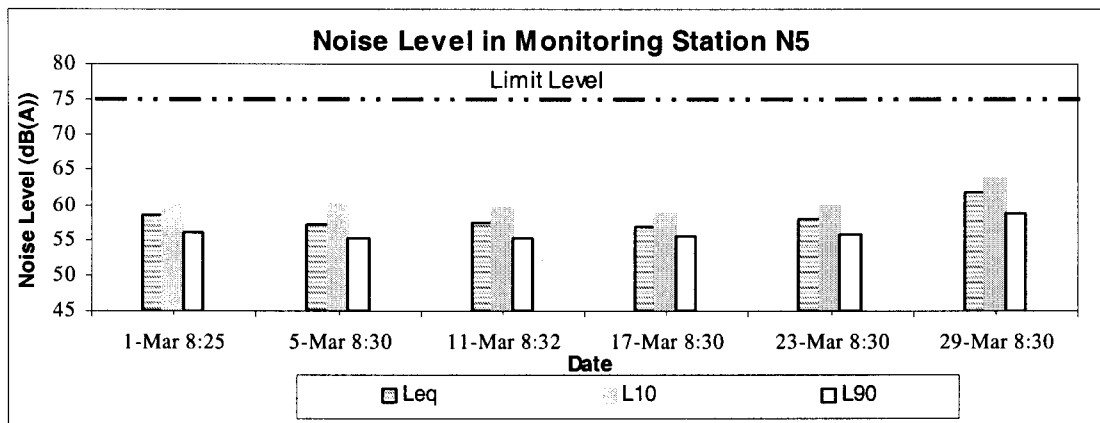
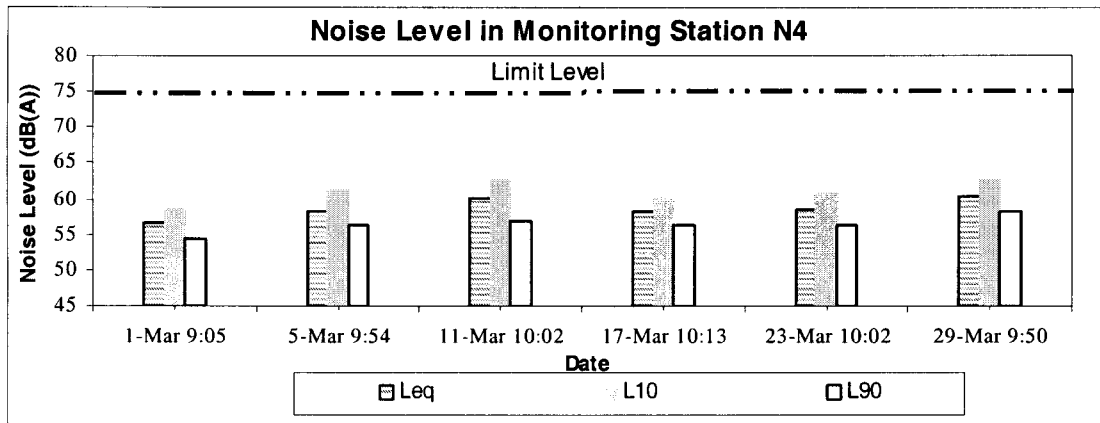
**Monitoring Station N5 (Village House near Royal Ascot)**

Date	Noise Level for 30 min, dB(A)			
	Time of Sampling	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>
1 -Mar-04	0825 – 0855	58.5	61.0	55.9
5-Mar-04	0830 – 0900	57.1	60.1	55.2
11-Mar-04	0832 – 0902	57.3	59.6	55.3
17-Mar-04	0830 – 0900	56.9	58.9	55.4
23-Mar-04	0830 – 0900	57.9	60.0	55.7
29-Mar-04	0830 – 0900	61.8	63.8	58.7

Min                    56.9                    58.9                    55.2  
Max                    61.8                    63.8                    58.7

## 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 31 March 2004)**

<b>Date</b>	<b>Weather</b>	<b>Mean Air Temperature (°C)</b>	<b>Wind Speed (m/s)</b>	<b>Mean Relative Humidity (%)</b>
1-Mar-04	Cloudy	24.2	0.5	83
4-Mar-04	Fine	15.5	0.5	58
5-Mar-04	Fine	17.8	0.5	70
10-Mar-04	Fine	20.1	0.5	79
11-Mar-04	Sunny	22.5	0.5	76
16-Mar-04	Cloudy	20.2	0.5	84
17-Mar-04	Cloudy	22.3	0.5	91
22-Mar-04	Fine	19.8	0.5	74
23-Mar-04	Cloudy	18.8	0.5	81
26-Mar-04	Cloudy	16.7	0.5	91
29-Mar-04	Cloudy	18.4	0.5	94

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**APPENDIX G:**

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

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### Event / Action Plan for Air Quality

EVENT	ACTION		
	ET	Engineer	CONTRACTOR
<b>ACTION LEVEL</b>			
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform the Engineer and Contractor;</li> <li>3. Repeat measurement to confirm finding; and</li> <li>4. Increase monitoring frequency to daily.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor; and</li> <li>2. Check monitoring data and Contractor's working methods.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice, if any; and</li> <li>2. Amend working methods if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform the Engineer and Contractor;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Discuss with Engineer for remedial actions required;</li> <li>6. If exceedance continues, arrange meeting with the engineer; and</li> <li>7. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Check monitoring data and Contractor's working methods;</li> <li>4. Discuss with ET and Contractor on potential remedial actions; and</li> <li>5. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for mitigation measures to the Engineer within 3 working days of notification;</li> <li>2. Implement the agreed proposals; and</li> <li>3. Amend proposal if appropriate.</li> </ol>
<b>LIMIT LEVEL</b>			
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform the Engineer and Contractor;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep EPD and the Engineer informed of results.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Check monitoring data and Contractor's working methods;</li> <li>4. Discuss with ET and Contractor on potential remedial actions; and</li> <li>5. Ensure remedial action properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to the Engineer within 3 working days of notification;</li> <li>3. Implement the agreed proposals; and</li> <li>4. Amend proposal if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform the Engineer and Contractor;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Investigate the causes of exceedance;</li> <li>6. Arrange meeting with EPD and the Engineer to discuss the remedial actions to be taken;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep EPD and the Engineer informed of the results; and</li> <li>8. If exceedance stops, cease additional monitoring</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>4. Discuss among ET and Contractor on potential remedial actions;</li> <li>5. Review Contractor's remedial action whenever necessary to assure their effectiveness; and</li> <li>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.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to the Engineer within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the Engineer until the exceedance is abated.</li> </ol>



**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>

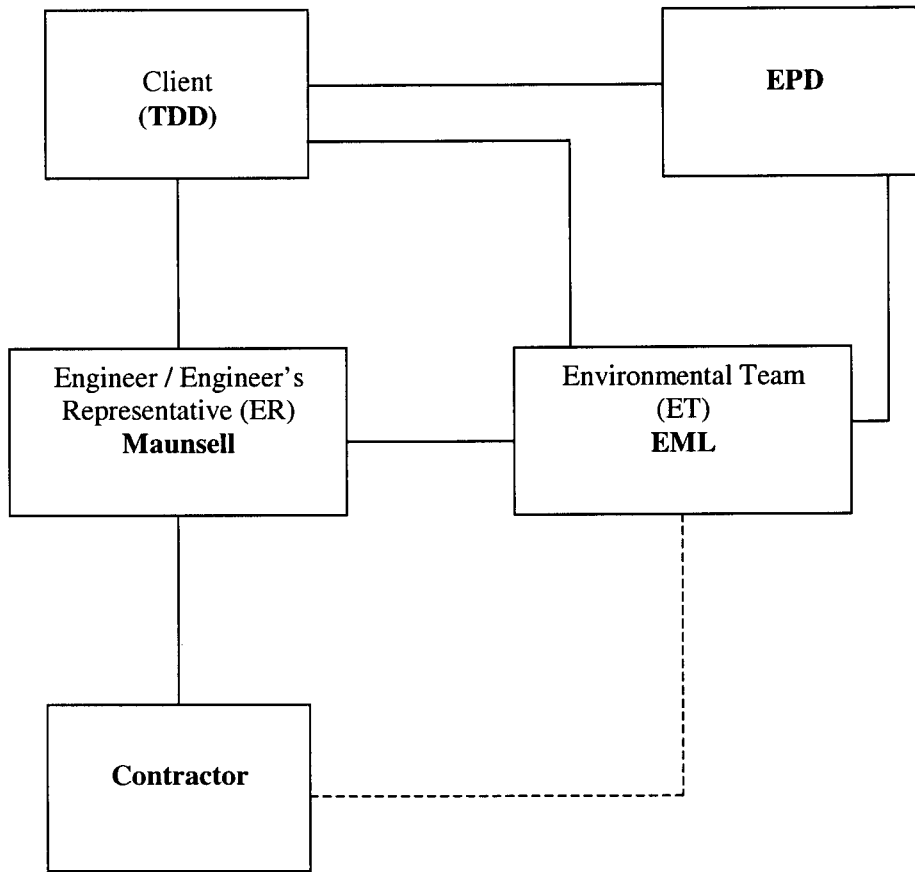
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**APPENDIX H:**

**Project Organisation 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
Territory Development Department (TDD)	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	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> <li>The complaint log sheet, the investigation findings and recommendations on mitigation measures were submitted to the Engineer and Contractor.</li> <li>A letter, addressing to the complainant, had been sent to the police.</li> </ul>	<p>Mitigation actions:</p> <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> <li>Temporary purposed built barrier should be installed whenever there are high noise level construction activities.</li> </ul>	The complaint was considered as ad hoc rather than continuous. It was therefore considered not necessary to increase the noise monitoring frequency  File Closed.
C02-N2	Night-time, 7 March, 2002	<ul style="list-style-type: none"> <li>Nearby residents complained to police that a generator in Road D15 Site was operating in night-time near Lok Lo Ha Village.</li> <li>Police came to the site to investigate the complaint and inform watchmen to turn off the operating generator at around 8:30pm.</li> <li>The complaint was valid as it concerned with construction noise during the restricted hours.</li> </ul>	<ul style="list-style-type: none"> <li>Ad hoc site inspection was carried out on 8 March 02, jointly with the Engineer and Contractor and ET.</li> <li>The complaint log sheet, the investigation findings and recommendations on mitigation measures were submitted to the Engineer and Contractor.</li> <li>A letter in both English and Chinese, addressing to the complainant, had been sent to the police.</li> </ul>	<p>Mitigation actions:</p> <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> <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>	File Closed.

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**APPENDIX J:**

**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																	
ID	Task Name	Duration	Start	Finish	2004							2005					
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
0	<b>Road D15 Master Programme</b> 1.0 Original Contract Period	1328 days	Wed 12/12/01	Fri 02/06/06													
1	1.1 Works in Section I (345 days)	1187 days	Wed 12/12/01	Sat 12/03/05													
2	1.2 Works in Section IA (475 Days)	345 days	Wed 12/12/01	Thu 21/11/02													
3	1.3 Works in Section II (822 days)	475 days	Wed 12/12/01	Mon 31/03/03													
4	1.4 Landscape Work in Section III (1187 Days)	822 days	Wed 12/12/01	Fri 12/03/04													
5	2.0 Anticipated Dates	1187 days	Wed 12/12/01	Sat 12/03/05													
6	2.1 Anticipated EOT for Section I	1289 days	Fri 22/11/02	Fri 02/06/06													
7	2.2 Anticipated Completion Date for Section IA	249.5 days	Fri 22/11/02	Tue 29/07/03													
8	2.3 Anticipated Completion Date for Section II	0 days	Mon 31/03/03	Mon 31/03/03													
9	2.4 Anticipated Completion Date for Section III	141 days	Thu 13/01/05	Thu 02/06/05													
10	3 Preliminary & Site Establishment	365 days	Fri 03/06/05	Fri 02/06/06													
11	4 Earthworks	689 days	Wed 12/12/01	Tue 06/04/04													
29	5 Entrustment Works (Section I & 1A)	473 days	Fri 10/05/02	Fri 05/12/03													
35	6 Bridge A & General	455 days	Wed 12/12/01	Thu 26/06/03													
45	6.1 Design Submission of Alternative Design (I Beam)	1007 days	Wed 12/12/01	Fri 06/05/05													
46	6.2 Procurement, manufacturing and testing of bridge bearing	180 days	Wed 12/12/01	Wed 24/07/02													
47	6.3 Engineer's Approval of Off Site Casting Yard	63.2 days	Thu 25/07/02	Tue 08/10/02													
48	6.4 Fabrication of precast beams	180 days	Sat 19/01/02	Wed 28/08/02													
49	6.5 Fabrication PC panel permanent formwork	150 days	Thu 29/08/02	Thu 27/02/03													
50	6.6 Ground Investigation	200 days	Thu 29/08/02	Fri 02/05/03													
51	6.7 Piling Works at A1 to A5	62 days	Wed 12/12/01	Thu 28/02/02													
52	6.8 Pile Caps Construction A1 to A5	121 days	Wed 12/12/01	Mon 13/05/02													
58	6.8.1 A1 Pile Cap	546 days	Sat 16/03/02	Tue 13/01/04													
59	6.8.2 A2 Pile Cap	50 days	Mon 25/03/02	Mon 27/05/02													
60	6.8.3 A3 Pile Cap	24 days	Sat 16/03/02	Tue 16/04/02													
61	6.8.4 A4 Pile Cap	22 days	Wed 08/05/02	Mon 03/06/02													
62	6.8.5 A5 Pile Cap	24 days	Fri 19/04/02	Fri 17/05/02													
63	6.8.5.1 A5 Pile Cap (1st Portion)	247 days	Mon 17/03/03	Tue 13/01/04													
64	6.8.5.2 A5 Pile Cap (2nd Portion)	110 days	Mon 17/03/03	Thu 31/07/03													
65	6.9 Abutment Wall A1 to A5	22 days	Tue 16/12/03	Tue 13/01/04													
66	6.9.1 A1 Abutment Wall	547 days	Wed 17/04/02	Sat 14/02/04													
67	6.9.1.2 A1 (1st portion to allow site access to C2)	427 days	Tue 28/05/02	Wed 29/10/03													
68	6.9.1.2 A1 (upper Portion)	55 days	Mon 25/08/03	Wed 29/10/03													
69	6.9.2 A2 Pier & Cross Head	434 days	Wed 17/04/02	Sat 27/09/03													
70	6.9.2.1 Pier only to allow access to C2	22 days	Wed 17/04/02	Mon 13/05/02													
71	6.9.2.2 A2 Crosshead	29 days	Mon 25/08/03	Sat 27/09/03													
72	6.9.3 A3 Pier & Cross Head	30 days	Tue 04/06/02	Wed 10/07/02													
73	6.9.4 A4 Pier & Cross Head	12 days	Thu 11/07/02	Wed 24/07/02													
74	6.9.5 A5 Abutment Wall	148 days	Mon 18/08/03	Sat 14/02/04													
75	6.9.5.1 A5 Abutment wall (Portion 1 to allow site access)	50 days	Mon 18/08/03	Thu 16/10/03													
76	6.9.5.2 A5 Abutment wall (Portion 2)	25 days	Wed 14/01/04	Sat 14/02/04													
77	6.10 Install bridge bearings A1 to A5	474 days	Mon 29/07/02	Fri 27/02/04													
78	6.10.1 A1 - A2 Bridge Bearings	6 days	Wed 05/11/03	Wed 12/11/03													
79	6.10.2 A2 - A3 Bridge Bearings	6 days	Wed 05/11/03	Wed 12/11/03													
80	6.10.3 A3 - A4 Bridge Bearings	6 days	Mon 29/07/02	Mon 05/08/02													
81	6.10.4 A4 - A5 Bridge Bearings	6 days	Fri 20/02/04	Fri 27/02/04													
82	6.11 Install Precast Beams A1 to A5	352 days	Thu 20/11/03	Wed 26/01/05													
83	6.11.1 A1 to A2 PC Beams	6 days	Thu 20/11/03	Thu 27/11/03													

Date: 18/10/2003

Task Progress:

Task Critical Task:

Milestone:

Summary:

Critical Task Progress:

Task Progress:

Task Critical Task:

Milestone:

Summary:

Rolled Up Progress:

Rolled Up Critical Task:

Rolled Up Milestone:

Project Summary:

Split:

External Tasks:

MASTER PROGRAMME (ST7701/MP/13B)

Sha Tin New Town Stage II Contract No. ST7701, Road D15 Linking Lok Shun Path and Tai Po Road

ID	Task Name	Duration	2004												2005			
			Start	Finish	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														
86	6.11.3 A3 to A4 PC Beams	3 days	Mon 01/03/04	Wed 03/03/04														
87	6.11.4a A4 to A5 PC Beams (Storage on Span A3 to A4)	6 days	Thu 30/12/04	Wed 06/01/05														
88	6.11.4 A4 to A5 PC Beams	6 days	Fri 07/01/05	Fri 14/01/05														
89	6.12 Bridge Deck Construction A1 to A5	592 days	Fri 28/11/03	Fri 25/03/05														
90	6.12.1 A1 to A2 Bridge Deck	50 days	Fri 28/11/03	Thu 05/02/04														
91	6.12.2 A2 to A3 Bridge Deck	32 days	Thu 27/01/05	Fri 11/03/05														
92	6.12.3 A3 to A4 Bridge Deck	95 days	Thu 04/03/04	Wed 14/07/04														
93	6.12.4 A4 to A5 Bridge Deck	50 days	Mon 17/01/05	Fri 25/03/05														
94	6.13 Bridge Deck Drainage	355 days	Fri 20/02/04	Wed 04/05/05														
95	6.13.1 A1 to A2 Drainage Pipe, M/H cover & Gully	18 days	Fri 20/02/04	Tue 16/03/04														
96	6.13.2 A2 to A3 Drainage Pipe, M/H cover & Gully	18 days	Wed 23/02/05	Fri 18/03/05														
97	6.13.3 A3 to A4 Drainage Pipe, M/H cover & Gully	18 days	Thu 29/07/04	Mon 23/08/04														
98	6.13.4 A4 to A5 Drainage Pipe, M/H cover & Gully	18 days	Mon 11/04/05	Wed 04/05/05														
99	6.14 Bridge deck Parapet & Curb	369 days	Fri 06/02/04	Fri 06/05/05														
100	6.14.1 A1 to A2 Parapet & Curb	30 days	Fri 05/02/04	Thu 18/03/04														
101	6.14.2 A2 to A3 Parapet & Curb	27 days	Mon 14/03/05	Tue 19/04/05														
102	6.14.3 A3 to A4 Parapet & Curb	60 days	Thu 23/09/04	Wed 15/12/04														
103	6.14.4 A4 to A5 Parapet & Curb	30 days	Mon 28/03/05	Fri 06/05/05														
104	7 Bridge B	748 days	Wed 12/12/01	Mon 15/04/02														
106	7.1 Ground Investigation	36 days	Fri 01/03/02	Mon 15/04/02														
106	7.2 Pre Bore H-Piles	431 days	Tue 16/04/02	Tue 23/09/03														
107	7.2.1 B1 H Piles	29 days	Tue 16/04/02	Tue 21/05/02														
108	7.2.2 B2 H Piles	27 days	Mon 11/08/03	Wed 10/09/03														
109	7.2.3 Loading test on Pile	12 days	Tue 09/09/03	Tue 23/09/03														
110	7.3 Pile Cap & Abutment Wall B1 & B2	51 days	Wed 24/09/03	Sat 22/11/03														
111	7.3.1 Temp. works for B1 Pile Cap	35 days	Wed 24/09/03	Tue 04/11/03														
118	7.3.2 Construct B1 Pile Cap	16 days	Wed 05/11/03	Sat 22/11/03														
127																		
128	7.3.3 B1 Abutment	19 days	Mon 24/11/03	Mon 15/12/03														
135	Remove temp work and backfilling at B1 Abutment	10 days	Tue 16/12/03	Mon 29/12/03														
136																		
137	7.3.4 Temp. works for B2 Pile Cap	619 days	Wed 12/12/01	Sat 10/01/04														
159																		
168	7.4 Install Bridge Bearings	6 days	Fri 06/02/04	Thu 12/02/04														
169	7.4.1 B1 bridge Bearings	6 days	Fri 05/02/04	Thu 12/02/04														
170	7.4.2 B2 bridge Bearings	6 days	Fri 05/02/04	Thu 12/02/04														
171	7.5 Install Precast Beams B1 to B2	6 days	Wed 18/02/04	Tue 24/02/04														
172	7.6 Bridge Deck Construction B1 to B2	50 days	Wed 25/02/04	Tue 27/04/04														
173	7.7 Bridge deck Drainage B1 to B2	25 days	Wed 28/04/04	Fri 28/05/04														
174	7.8 Bridge Deck Parapet & Curb B1 to B2	20 days	Sat 29/05/04	Mon 21/06/04														
175	7.9 Remove Temp Platform(Underneath Bridge Deck)	30 days	Wed 28/04/04	Thu 03/06/04														
176	7.10 Reinstate Exg Valley	60 days	Sat 27/03/04	Thu 10/06/04														
177	8 Bridge C	1014 days	Wed 12/12/01	Sat 14/05/05														
178	8.1 Ground Investigation	62 days	Wed 12/12/01	Thu 28/02/02														
179	8.2 Pre Bore H-Piles	321 days	Thu 25/07/02	Wed 20/08/03														
180	8.2.1 C1 H Piles	35 days	Fri 11/07/03	Wed 20/08/03														
181	8.2.2 C2 H Piles	52 days	Thu 25/07/02	Mon 23/09/02														
182	8.3 Pile Cap & Abutment Wall C1 & C2	385 days	Tue 24/09/02	Thu 08/01/04														
183	8.3.1 Temp. works and Construct C1 Pile Cap	39 days	Mon 29/09/03	Thu 13/11/03														

Date: 18/10/2003	Task	Task Progress	Critical Task Progress	Rollled Up Task	Rollled Up Progress	Project Summary
	Task Progress	Milestone	Milestone	Rollled Up Critical Task	Split	
	Critical Task	Summary	Summary	Rollled Up Milestone	External Tasks	

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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

ID	Task Name	Duration	Start	Finish	2004	2005												
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
205	8.3.2 C1 Abutment Wall	25 days	Fri 14/11/03	Fri 12/12/03														
206	o)Erect outer formwork	5 days	Fri 14/11/03	Wed 19/11/03														
207	b)Fix steel rebar	5 days	Thu 20/11/03	Tue 25/11/03														
208	c)Erect inner formwork	6 days	Wed 26/11/03	Tue 02/12/03														
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 at 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	6.4 Install Bridge Bearings	356.8 days	Fri 11/10/02	Fri 19/12/03														
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	8.8 Bridge Deck Construction C1 to C3	219 days	Fri 01/08/03	Mon 28/04/04														
222	8.6.1 C1 to C2 Bridge Deck (1st portion)	32 days	Wed 24/12/03	Thu 05/02/04														
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	8.7 Bridge Deck Drainage C1 to C3	38 days	Fri 06/02/04	Thu 18/03/04														
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	8.8 Bridge Deck Parapet & Curb C1 to C3	137 days	Fri 05/12/03	Tue 25/05/04														
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	9 Road works, Pavement & Cycle Track	110 days	Sat 08/01/05	Thu 28/05/05														
248	9.1 Drainage to on Grade Road	40 days	Sat 08/01/05	Sat 26/02/05														
249	9.2 Utilities at on Grade Road	40 days	Thu 20/01/05	Thu 10/03/05														
250	9.3 Carriageway Flexible Pavement	57 days	Fri 11/03/05	Mon 23/05/05														
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	60 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 Finishings	21 days	Thu 21/04/05	Tue 17/05/05														
260	10 Retaining Walls	928 days	Wed 12/12/01	Wed 26/01/05														
261	10.1 RW1	504 days	Wed 06/11/02	Mon 19/07/04														
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	313 days	Wed 06/11/02	Sat 22/11/03														
274	10.1.2 RW1 Bay 2	51 days	Tue 21/10/03	Thu 18/12/03														
285	10.1.3 RW1 Bay 3	21 days	Sat 28/12/02	Wed 22/01/03														
296	10.1.4 RW1 Bay 4	29 days	Fri 07/11/03	Wed 10/12/03														
308	10.1.5 RW1 Bay 5	50 days	Wed 19/05/04	Mon 19/07/04														
309	10.1.6 RW1 Bay 6	19 days	Fri 25/06/04	Sat 17/07/04														

Date: 18/10/2003

Task Progress:

Critical Task Progress:

Milestone:

Summary:

Task:

Task Progress:

Critical Task:

Rollled Up Task:

Rollled Up Critical Task:

Rollled Up Milestone:

Rollled Up Progress:

Split:

External Tasks:

Project Summary:

**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
320	10.2 RW2	928 days	Wed 12/12/01	Wed 26/01/05
321	10.2.1 RW2 Bay 1	60 days	Wed 10/09/03	Thu 20/11/03
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
355	10.2.4 RW2 Bay 4	23 days	Tue 04/11/03	Sat 20/11/03
366	10.2.5 RW2 Bay 5	20 days	Wed 12/12/01	Sat 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 RWS	545 days	Wed 12/12/01	Mon 13/10/03
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	10.5 RW6	48 days	Sat 13/12/03	Fri 13/02/04
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 Backfill 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 06/06/02	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 bored pile (21nos)	544 days	Fri 30/08/02	Tue 29/06/04
413	10.7.3.0 Completed Bore Piles	183 days	Fri 30/08/02	Fri 28/02/03
414	10.7.3.1 B4 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 18/08/03	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 05/04/02
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 05/12/03
432	10.10.1 RW12 Bay 1	20 days	Wed 14/01/04	Mon 09/02/04
433	10.10.2 RW12 Bay 2	20 days	Wed 24/12/03	Mon 19/01/04
434	10.10.3 RW12 Bay 3	35 days	Mon 21/07/03	Fri 29/08/03
435	10.10.4 Drainage works in vicinity of pier C2 of Bridge C	25 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	1028 days	Wed 12/12/01	Thu 02/06/05
440	11.1 Temporary Work Submission & Approval	300 days	Wed 12/12/01	Fri 13/12/02
441	11.2 Noise Barrier Structures	738 days	Wed 12/12/01	Sat 05/06/04
442	11.2.1 Noise Barrier No. 1	688 days	Wed 12/12/01	Tue 09/03/04
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 21/05/03	Wed 21/05/03
445	11.2.1.3 Demolish Extg Retaining 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 22/06/03	Thu 29/06/03
447	11.2.1.5 Bore Piles SP1 to SP4	35 days	Fri 30/05/03	Thu 17/07/03

Date: 18/10/2003

**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	
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 29/11/03	Sat 10/01/04														
484	11.2.1.11 RW Panel 4	65 days	Fri 10/10/03	Wed 24/12/03														
500	11.2.1.12 RW Panel 5	49 days	Mon 29/09/03	Tue 25/11/03														
515	11.2.1.13 RW Panel 6	49 days	Tue 29/10/03	Tue 23/12/03														
530	11.2.1.14 RW Panel 7	48 days	Wed 27/09/03	Tue 21/10/03														
545	11.2.2 Additional Bore Piles	70 days	Thu 10/07/03	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	Sat 02/08/03	Thu 21/08/03														
571	11.2.2.3 Bore Piles Tests	12 days	Wed 17/09/03	Tue 30/09/03														
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	11.2.2.3.3 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	Sat 05/06/04														
581	11.2.3a Concrete Footing for Noise Barrier 4C	45 days	Wed 20/03/02	Wed 15/05/02														
582	11.2.4 Noise Barrier No. 5	69 days	Thu 16/05/02	Wed 07/08/02														
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 Post & 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 16/12/03														
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 29/04/05	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 at 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 16/06/04														
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 10/04/03	Wed 12/11/03														
604	12.5 Construct 1500 pipe	188 days	Tue 28/10/03	Wed 16/06/04														
605	12.5.1 Construct 1500 pipe CH 0 to CH 30 (MHA64 to MH31)	100 days	Tue 28/10/03	Fri 27/02/04														
606	12.5.2 Construct 1500 pipe CH 30 to CH 60	44 days	Sat 28/02/04	Fri 23/04/04														
607	12.5.3 Construct 1500 pipe CH 60 to CH 82	44 days	Sat 24/04/04	Wed 16/03/04														
608	12.6 Construct CPI15 (Deleted)	0 days	Sat 15/03/03	Sat 15/03/03														
609	12.7 Construct M/H31	60 days	Mon 22/09/03	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 24/03/05														
613	13.1 Drainage & Roadworks at Lok He Lo roundabout	651 days	Wed 15/01/03	Thu 24/03/05														

Date: 18/10/2003

Task Progress Summary

Task Progress

Critical Task

Task

Critical Task Progress

Milestone

Summary

Rollled Up Task

Rollled Up Critical Task

Rollled Up Milestone

Rollled Up Progress

Split

External Tasks

Project Summary

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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

ID	Task Name	Duration	2004												2005				
			Start	Finish	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
614	13.1.1 Drainage & roadworks at stage 2 & 2A of ITM	263 days	Wed 15/01/03	Mon 01/12/03															
615	13.1.2 Drainage and roadworks at stage 2b of ITM	95 days	Tue 02/12/03	Mon 29/03/04															
616	13.1.3 Drainage and roadworks at stage 4 of ITM(Deleted)	0 days	Mon 29/03/04	Mon 29/03/04															
617	13.1.3 Drainage and roadworks at stage 5 of ITM	54 days	Tue 30/03/04	Sat 05/06/04															
618	13.1.4 Drainage and roadworks at stage 6 of ITM	46 days	Thu 27/01/05	Thu 24/03/05															
619	<b>13.2 New Utilities and Drainage Near Noise Barrier NO 1</b>	<b>128 days</b>	<b>Wed 22/10/03</b>	<b>Fri 26/03/04</b>															
620	13.2.1 Construct M/H24 pipe 225 dia and MH10 at stage 2b ITM	19 days	Wed 22/10/03	Wed 12/11/03															
621	13.2.2 Construct M/H 12 & 2nd portion pipe 450 dia of stage 2b of ITM	19 days	Wed 22/10/03	Wed 12/11/03															
622	13.2.1 PC&W -At Stage 2b ITM Lay cable duct near Noise Barrier No 1 Panel 7 & 6	7 days	Thu 13/11/03	Thu 20/11/03															
623	13.2.2 CABLE IV -At Stage 2b ITM Lay cable duct near Noise Barrier No 6 & 7	7 days	Fri 21/11/03	Fri 28/11/03															
624	13.2.3 CABLE IV -After Completion of Noise Barrier No 1 panel 1-5	14 days	Wed 10/03/04	Fri 26/03/04															
625	<b>13.3 Water pipes and associated Works</b>	<b>482 days</b>	<b>Sat 16/06/03</b>	<b>Tue 29/05/05</b>															
626	13.3.1 Water Mains for irrigation system	120 days	Fri 14/11/03	Fri 09/04/04															
627	13.3.2 Fire Service Pipe & Hydrant	50 days	Thu 27/01/05	Tue 29/03/05															
628	13.3.3 Water Main Diversion(1400 Box Culvert)	45 days	Tue 11/11/03	Mon 05/01/04															
629	13.3.4 Along stair 8	25 days	Sat 16/08/03	Mon 15/09/03															
630	13.4 Telephone Ducts	40 days	Thu 21/08/03	Wed 08/10/03															
631	<b>13.5 Existing Utilities Diversion</b>	<b>161 days</b>	<b>Sat 06/09/03</b>	<b>Sat 20/03/04</b>															
632	13.5.1 RW1, RW2 and 1400 Box Culvert	90 days	Mon 01/12/03	Sat 20/03/04															
633	13.5.2 Abutment A1 to RW11	130 days	Sat 06/09/03	Fri 13/02/04															
634	13.5.3 RW11 to C2	100 days	Wed 10/09/03	Fri 09/01/04															
635	13.5.4 At Lok King Street	100 days	Wed 10/09/03	Fri 09/01/04															
636	<b>14 Staircases</b>	<b>782 days</b>	<b>Wed 12/12/01</b>	<b>Sat 31/07/04</b>															
637	14.1 Stair 1(NB 4C)	12 days	Fri 09/04/04	Mon 26/04/04															
638	14.2 Stair 2 (RW8)	50 days	Thu 13/03/03	Fri 16/05/03															
639	14.3 Stair 3 (RW3)	90 days	Thu 24/04/03	Fri 15/08/03															
640	14.4 Stair 4 (RW11)	117 days	Thu 04/06/03	Tue 27/01/04															
641	14.4.1 Stair 4 Boy 1 (to allow access Bridge C PC beams)	24 days	Thu 04/09/03	Fri 03/10/03															
642	14.4.2 Stair 4 Boy 2	24 days	Wed 24/12/03	Tue 27/01/04															
643	14.5 Stair 5 (RW5)	69 days	Fri 01/08/03	Wed 22/10/03															
644	14.6 Stair 6 (Abutment B1)	24 days	Wed 28/04/04	Thu 27/05/04															
645	14.7 Stair 7 (RW7)	24 days	Mon 05/07/04	Sat 31/07/04															
646	14.8 Stair 8 (Level +3)	50 days	Tue 16/09/03	Thu 13/11/03															
647	14.9 Stair 9 (CH300) (deleted)	12 days	Wed 28/01/04	Tue 10/02/04															
648	14.10 Stair 10 (RW12)	20 days	Tue 10/02/04	Wed 03/03/04															
649	14.11 Stair 11 (Abutment A5)	20 days	Fri 20/02/04	Sat 13/03/04															
650	14.12 Stair 12 (House 102)	18 days	Tue 13/04/04	Fri 14/05/04															
651	14.13 Stair 13 (Slope CH350 - 400)	45 days	Wed 12/12/01	Fri 04/01/02															
652	15 Standard Refuse Collection Point	60 days	Mon 28/02/05	Mon 25/04/05															
653	16 Rain Shelter no.1&2	328 days	Tue 25/11/03	Mon 09/02/04															
654	<b>17 Landscaping</b>	<b>42 days</b>	<b>Tue 13/04/04</b>	<b>Thu 26/05/05</b>															
655	17.1 Tree Planting	42 days	Wed 23/03/05	Tue 17/05/05															
656	17.2 Turfing	42 days	Fri 01/04/05	Thu 26/05/05															
657	17.3 Tree Planting in the vicinity of RW 12	25 days	Tue 13/04/04	Sat 15/05/04															
658	17.4 Turfing in the vicinity of RW12	15 days	Mon 17/05/04	Thu 03/06/04															
659	17.5 Hard Landscaping	50 days	Tue 13/04/04	Tue 15/06/04															
660	<b>18 Project Completion &amp; Handover</b>	<b>1288 days</b>	<b>Wed 12/12/01</b>	<b>Thu 02/08/05</b>															
661	18.1 Section I Completion	0 days	Tue 04/02/03	Tue 04/02/03															
662	18.2 Section IA Completion	0 days	Thu 26/06/03	Thu 26/06/03															
663	18.3 Section II Completion	0 days	Thu 02/06/05	Thu 02/06/05															

Date: 18/10/2003

Project Summary

Task

Task Progress

Critical Task

Critical Task Progress

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Spill

External Tasks

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**MASTER PROGRAMME (ST77/01/MP/13B)**  
 Sha Tin New Town Stage II Contract No. ST77/01. Road D1's 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
664	18.4 Section III Completion	0 days	Wed 12/12/01	Wed 12/12/01														

Task		Critical Task Progress		Rolled Up Task		Rolled Up Progress		Project Summary	
Task Progress		Milestone		Rolled Up Critical Task		Split			
Critical Task		Summary		Rolled Up Milestone		External Tasks			

Date: 18/10/2003