

SHA TIN NEW TOWN STAGE II CONTRACT NO. ST 86/2000 CONSTRUCTION OF ROAD T7 IN MA ON SHAN ENVIRONMENTAL MONITORING AND AUDIT

QUARTERLY EM&A SUMMARY REPORT

JULY 2003 TO SEPTEMBER 2003

Prepared For:

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Job No 23156

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2003

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ABBREVIATIONS AND ACRONYMS

AQO Air Quality Objectives

Arup Ove Arup & Partners Hong Kong Limited

ASR Area Sensitive Rating

BOD₅ Biochemical Oxygen Demand (5 days)

B&K Brüel & Kjær

CFM Cubic Feet per Minute

CHEC China Harbour Engineering Company

CNP Construction Noise Permit

CT Contractor

EA Environmental Auditor

EIA Environmental Impact Assessment
EM&A Environmental Monitoring and Audit

EP Environmental Permit

EPD Environmental Protection Department ER Engineer / Engineer's Representative

ET Environmental Team

HKSAR Hong Kong Special Administrative Region

HOKLAS The Hong Kong Laboratory Accreditation Scheme

HVS High Volume Sampler

IEC International Electrotechnical Commission Publications

K Degrees Kelvin

MCAL Maunsell Consultants Asia Limited

NAMAS National Measurement Accreditation Service

NSR Noise Sensitive Receiver

TDD NTE Territory Development Department New Territory East Office

TSP Total Suspended Particulates

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EXECUTIVE SUMMARY

This quarterly EM&A report summaries the site inspection findings, air quality and noise impact monitoring works for the period between July 2003 to September 2003.

For noise monitoring, $L_{eq(30min)}$ level was recorded once a week between the period of 0700 and 2300 at Ma On Shan Lutheran Primary School (NM2), Heng Shan House, Heng On Estate (NM3), Kam Yiu House, Kam Ying Court (NM4), Symphony Bay (NM6), Podium of block 15, Monte Vista (NM7) and Roof of block 15, Monte Vista (NM8).

Fourteen measurements were taken at each location during 0700-1900 and fourteen measurements were taken at NM3, NM4, NM6 and NM8 during 1900-2300 from July 2003 to September 2003. The recorded noise levels were in the range from 60.5 to 72.4 dB(A) during 0700-1900 and from 59.5 to 60.5 dB(A) during 1900-2300. All measurements were below the Limit Level of 70dB(A) at NM2 and 75dB(A) at other locations during 0700-1900, and below the Limited Level of 70 dB(A) during 1900-2300 for monitoring locations.

1-hour Total Suspended Particulate (TSP) was recorded three times per every six days between the period of 0700 and 1900, and 24-hour TSP was recorded once every six days from 0000 to 2400. Air quality monitoring was conducted at Ma On Shan Lutheran Primary School (AM2), Ma On Shan Joseph's Primary School (AM3), Villa Concerta, Symphony Bay (AM4) and Club House, Monte Vista (AM5) and Kam Yiu House, Kam Ying Court (AM6).

A total of fifteen 24-hour TSP monitoring were conducted at each location from July 2003 to September 2003. The recorded 24-hour TSP levels were in the range from 11.0 to 133.4 $\mu g/m^3$ and were below the Action and Limit Levels.

A total of forty-eight 1-hour TSP monitoring were conducted at each location from July 2003 to September 2003. The recorded 1-hour TSP levels were in the range from 104.3 to 259.7 $\mu \, g/m^3$ and were below the Action and Limit Levels.

A total of 16 loads of Construction and Demolition Waste (C&D waste) had been disposed of at NENT Landfill from July 2003 to September 2003. The total tonnage of the waste disposal from July 2003 to September 2003 was 133.83 tonnes.

A total of 2002 loads of rocks ($\phi > 400$ mm) have been disposed of at the follow government project sites from July 2003 to September 2003:

- Contract No. FL 26/01 River Training for Upper River Indus Completion of the Remaining Works between Man Kam To Road and KCRC Bridges, and
- Contract No. FL 27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai
- Contract No. HY/2001/18 Sai Sha Road Widening between Kam Ying Road and Future Truck Road T7 Junction

The total quantity of the disposed rocks was 14314.30 m³ from July 2003 to September 2003.

A total of 480 loads of inert material have been disposed of at Public Filling Area from July 2003 to September 2003. The total quantity of the disposed inert materials was 2880 m³ from July 2003 to September 2003.

ET was informed by the CT that EPD visited the site on 08/07/03, 10/07/03, 18/07/03, 29/07/03, 28/07/03 and 15/09/03.

A total of eight public complaints regarding construction noise were received on 21/08/03, 23/08/03 and 15/09/03 respectively through the District Councillor for Shatin District Board and the EPD. All complaints had been resolved.

1. INTRODUCTION

OAP was commissioned by the Territory Development Department New Territory East Office (TDD NTE) via Maunsell Consultant Asia Limited (MCAL) to conduct the Environmental Monitoring and Audit (EM&A) for the project "Shatin New Town, Stage II Contract No. ST 86/2000 Construction of Road 7 in Ma On Shan" with the contract commencement on 10 January 2000.

Truck Road T7 in Ma On Shan is constructed as part of the development of the Sha Tin New Town, Stage II, which is managed by the TDD NTE. The project was commenced in January 2001 and anticipated to be completed by the January 2004. The trunk road will connect the existing Ma On Shan Road and Sai Sha Road, allowing traffic destined for north Ma On Shan, Lok Wo Sha and Sai Kung to by-pass the busy Ma On Shan Town Centre.

The Environmental Impact Assessment (EIA) Report^[1] has identified the environmental impacts during various stages of the construction and operational stages. These include construction noise and fugitive dust during the construction stage, and the traffic noise and tunnel air quality during the operational stage. The monitoring of these environmental issues is required during the construction and operational stages and in accordance with the Brief for Environmental Monitoring and Audit^[2].

The Environmental Permit (EP)^[3] has been issued for the Road T7 project under the EIA Ordinance. The EM&A programme has commenced from January 2001 and is anticipated to be completed by the February 2005.

1.1 Purpose of the Report

The purpose of the quarterly EM&A report is to summarise the monitoring and audit results of the environmental issues, air quality and noise impacts due to the captioned road construction project for the period from July 2003 to September 2003.

1.2 Site Description

The site starts from the existing Ma On Shan Road (close to Heng On Estate), runs along the boundary of Ma On Shan Country Park, and terminates at Sai Sha Road (close to Symphony Bay). The site location plan is shown in Figure 1-1.

Figure 1-1 - Site location plan of construction of Road T7.



2. ENVIRONMENTAL STATUS

2.1 Construction Activities in the Quarter

The main construction activities in the period from July 2003 to September 2003 were slope formation and bridge construction. Construction works for the retaining wall were carried out near the casting yard. The rock excavation was still in progress at the slope behind Monte Vista. Construction works of tunnel were in progress at Portal D area near Cheung Muk Tau Village. Bridge construction works were in progress at TC bridge area. Backfilling slope between Monte Vista and Lee On Estate and bore piling at TD bridge area was in progress since end of May 2003.

2.2 Environmental Sensitive Receivers

Several residential buildings and schools close to the site have been identified as environmental sensitive receivers in the EIA Report. They included:

- Ma On Shan Lutheran Primary School;
- Ma On Shan St. Joseph's Primary School;
- Heng On Estate;
- Kam Ying Court;
- Monte Vista; and
- Villa Concerto, Symphony Bay.

Detailed locations of the environmental sensitive receivers are shown in Figure 2-1.

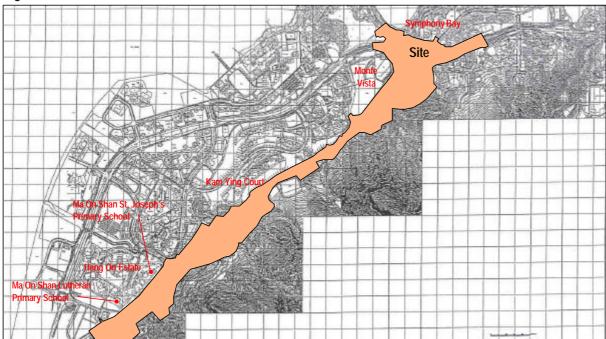


Figure 2-1 - Locations of construction site and environmental sensitive receivers.

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3. SUMMARY OF EM&A REQUIREMENTS

Constructions noise and air quality were significant environmental impacts identified for the construction period of the project. In accordance with the Brief for EM&A, air quality and noise impact monitoring shall be performed by an ET at all specified monitoring locations during this stage.

3.1 Construction Noise Monitoring

3.1.1 Monitoring Parameters

Construction noise monitoring shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{10} and L_{90} will also be recorded as supplementary reference information for data auditing.

3.1.2 Monitoring Frequency

Construction noise measurements were required to be taken on a weekly basis according to the Brief for EM&A. The monitoring time periods, monitoring parameters and frequency are specified in Table 3-1.

Table 3-1 - Construction noise monitoring parameters and frequency requirements.

Time Period (when construction activity is found)	Parameters	Monitoring Frequency	No. of measurements for each monitoring	
Between 0700-1900 hours on normal weekdays	L _{eq(30 min)}		1	
Between 1900-2300 hours on normal weekdays		Once per week		
Between 2300-0700 hours of next day	Leq(5 min)*	Office per week	3 (consecutive)	
Between 0700-1900 hours on holidays				

Remarks: The L_{eq(5 min)} will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

3.1.3 Monitoring Locations

A total of six monitoring locations were specified. They are given in Table 3-2 and shown in Figure 3-1. The measurements shall be taken away from any nearby reflective surface and at a position of 1.2m above ground. No façade correction is required.

Table 3-2 - Noise impact monitoring locations.

NSR No.	Location	Monitoring Point
NM2	Ma On Shan Lutheran Primary School	Roof-top of the school
NM3	Heng Shan House, Heng On Estate	Podium floor of Heng Shan House
NM4	Kam Yiu House, Kam Ying Court	Roof-top of Kam Yiu House
NM6	Villa Concerto, Symphony Bay	Roof-top of Block 1
NM7	Monte Vista, Block 15	Podium floor of Block 15
NM8	Monte Vista, Block 15	Roof of Block 15

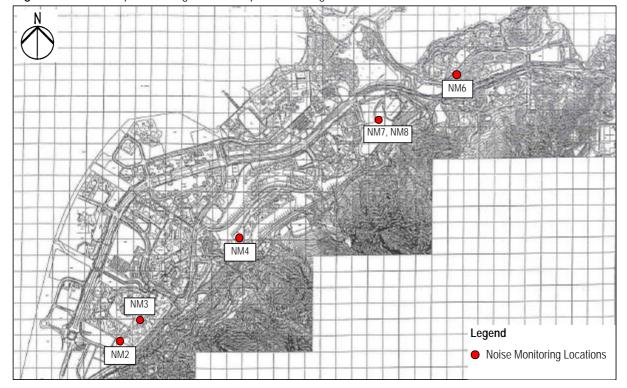


Figure 3-1 - Location plan showing the noise impact monitoring locations.

3.2 Air Quality Monitoring

3.2.1 Monitoring Parameters

Air monitoring shall be measured in terms of the TSP levels for both 24-hour and 1-hour periods.

3.2.2 Monitoring Frequency

24-hour TSP and 1-hour TSP levels shall be monitored during the course of construction according to the Brief for EM&A. The monitoring parameters and frequencies are specific in Table 3-3.

Table 3-3 - TSP monitoring parameters and frequency.

Parameters	Monitoring Frequency	Time Period	No. of measurement for each monitoring
24-hour TSP	Once every six days	0000 - 2400	1
1-hour TSP	Three times per every six days	0700 - 1900	1

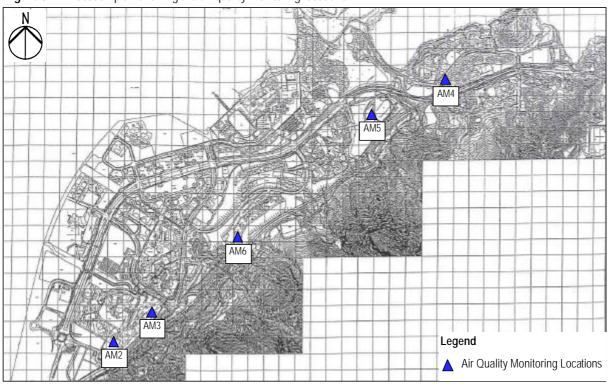
3.2.3 Monitoring Locations

Five monitoring locations nearest to the construction site were specified. They are tabulated in Table 3-4 and shown in Figure 3-2.

Table 3-4 - Air quality monitoring locations.

Sensitive Receptors No.	Location	Monitoring Point
AM2	Ma On Shan Lutheran Primary School	Roof-top of the school
AM3	Ma On Shan St. Joseph's Primary School	Roof-top of the school
AM4	Villa Concerto, Symphony Bay	Roof-top of Block 1
AM5	Monte Vista	Roof-top of Club House
AM6	Kam Ying Court	G/F. Kam Yiu House

Figure 3-2 - Location plan showing the air quality monitoring locations.



3.3 Performance Limits and Event-Action Plans

The monitoring results shall be checked against appropriate standards and requirements. A two-tier system performance limits has been established in the Project Specific EM&A Manual^[4]. The "Action Level" and the "Limit Level" are established according to the EPD requirements. Corresponding actions will be taken by ET, ER and CT in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

3.3.1 Construction Noise Impact

The action and limit levels for the construction noise have been established in Project Specific EM&A Manual^[4] and are tabulated in Table 3-5.

Table 3-5 - Action and limit levels for construction noise.

Time Period	Action Level	Limit Level dB(A)
0700 - 1900 hours on weekdays	ours on weekdays	
0700 - 2300 hours on General Holidays; &	When one documented	50 or 55** ⁽¹⁾
1900 - 2300 hours on all other days	complaint is received	65 or 70** ⁽²⁾
2300 - 0700 hours of next day		55 or 40** (1)
2300 - 0700 Hours of Hext day		50 or 55** ⁽²⁾

Remarks: *

- reduced to 70dB(A) for schools and 65dB(A) during school examination periods.
- to be selected based on Area Sensitivity Rating
- (1) for the SPME and prescribed works
- (2) for non-SPME and prescribed works

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.

Table 3-6a and Table 3-6b detail the actions required to be carried out by different parties in the case of an exceedance of performance limits being detected.

Table 3-6a - Event-action plan for construction noise (Action Level).

			Action		
	ET		ER		СТ
1. 2.	Notify ER and CT Carry out investigation	1.	Confirm receipt of notification of failure in writing	1.	Submit noise mitigation proposals to ET
3.	Report the result of investigation to ER	 3. 	Notify CT Require CT to propose remedial	2.	Implement noise mitigation proposals
4.	Increase monitoring frequency to check mitigation effectiveness		measures for the noise exceedance		
5.	Review the proposed remedial measures by CT and advise ER accordingly	4.	Ensure remedial measures are properly implemented		
6.	Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective				
7.	Supervise the implementation of remedial measures				
8.	If exceedance stops, cease additional monitoring				

Table 3-6b - Event-action plan for construction noise (Limit Level).

	Action				
	ET	ER		СТ	
1. 2. 3. 4. 5.	Notify ER and EPD Identify source Repeat measurement to confirm findings Increase monitoring frequency Discuss amongst ER and CT on the potential remedial actions Review CT's remedial actions whenever necessary to assure their effectiveness and advise ER	 Confirm receipt of notification of failure in writing Notify CT Require CT to propose remedial measures for the noise exceedance Ensure remedial measures are properly implemented If exceedance continues, consider what portion of the work is 	 1. 2. 3. 4. 5. 	further exceedance. Inform ET, ER and EPD of the actions taken for the exceedance. Submit proposals for remedial actions to ET within 3 working days of notification Implement the agreed proposals	
7.	alternative mitigation measures should the CT's proposal be found ineffective	responsible and instruct CT to stop that portion of work until the exceedance is abated	6.	Stop the relevant portion of works as determined by the ER until the exceedance is abated	
8.	Supervise the implementation of remedial measures				
9.	Inform ER and EPD of the causes for the exceedance				
10	Assess effectiveness of CT's remedial actions and keep EPD and ER informed of the results				
11	. If exceedance stops, cease additional monitoring				

3.3.2 Air Quality

The action and limit levels for air quality have been established in the Project Specific EM&A Manual^[4] and are tabulated in Table 3-7.

 Table 3-7 - Action and limit levels for air quality.

Parameters	Action Level	Limit Level
	 For baseline level < 108 μg/m³, Action Level = average of baseline level plus 30% and Limit Level 	
24 Hour TSP Level in μg/m ³	 For 108μg/m³ < baseline level < 154μg/m³, Action Level = 200μg/m³ 	260
	 For baseline level > 154 μg/m³, Action Level = 130% of baseline level 	
	• For baseline level < 154µg/m³, Action Level = average of baseline level plus 30% and Limit Level	
1 Hour TSP Level in μg/m ³	 For 154μg/m³ < baseline level < 269μg/m³, Action Level = 350μg/m³ 	500
	 For baseline level > 269 μg/m³, Action Level = 130% of baseline level 	

The baseline checking was conducted on 3 September 2003. There was no significant difference when comparing the baseline checking results of September 2003 with previous baseline checking results. Therefore, the current A/L levels for 24-hour TSP and 1-hour TSP monitoring are still representative and valid. In accordance with the Baseline Monitoring Report^[5] and Baseline Checking Results in March 2002, the action and limit levels for 24-hour TSP and 1-hour TSP at different locations were established and are tabulated in Table 3-8 and Table 3-9 respectively.

Table 3-8 - Action and limit levels for 24-hour TSP.

Monitoring Location	24-1	24-hour TSP Level in mg/m3			
Worldwing Location	Baseline Level *	Action Level	Limit Level		
Ma On Shan Lutheran Primary School	66.0	173			
Ma On Shan St. Joseph's Primary School	57.7	168			
Villa Concerto, Symphony Bay	60.8	170	260		
Club House, Monte Vista#	-	185			
Kam Yiu House, Kam Ying Court#	-	194			

Remarks: * Baseline levels were obtained from the Baseline Monitoring Report prepared by Manusell Consultant Asia Limited^[5].

* No baseline monitoring was conducted for Monte Vista (AM5) and Kam Ying Court (AM6) as these two locations were established after the commencement of the construction works. The Action Levels of AM5 and AM6 are established in accordance with the baseline checking results in March 2002.

Table 3-9 - Action and limit levels for 1-hour TSP.

Monitoring Location	1-hour TSP Level in mg/m ³					
Monitoring Education	Baseline Level *	Action Level #	Limit Level			
Ma On Shan Lutheran Primary School	274	350				
Ma On Shan St. Joseph's Primary School	274	350				
Villa Concerto, Symphony Bay	273	347	500			
Club House, Monte Vista	-	350				
Kam Yiu House, Kam Ying Court	-	349				

Remarks: * Baseline levels were obtained from the Baseline Monitoring Report prepared by Maunsell Consultant Asia Limited^[5].

- * The Action Levels of AM2, AM3 and AM4 have been revised in accordance with the baseline checking results in March 2002.
- * No baseline monitoring was conducted for Monte Vista (AM5) and Kam Ying Court (AM6) as these two locations were established after the commencement of the construction works. The Action Level of AM5 and AM6 are established in accordance with the baseline checking results in March 2002.

Table 3-10a and Table 3-10b detail the actions required to be carried out by different parties in case of an exceedance of performance limits being detected.

Table 3-10a - Event-action plan for air quality (Action Level).

			Action		
	ET		ER		СТ
Ac	tion Level 1 - Exceedance for one sar	nple			
1. 2. 3.	Identify source Inform ER Repeat measurement to confirm findings Review the proposed remedial measures by CT and advise ER accordingly	1. 2.	Notify CT Check monitoring data and CT's working methods	1. 2.	Rectify any unacceptable practice Amend working methods if appropriate
5.	Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective Supervise the implementation of				
	remedial measures				
/.	Increase monitoring frequency to demonstrate efficacy of remedial measures				
8.	If exceedance stops, cease additional monitoring				
Ac	tion Level 2 - Exceedance for two or m	ore	consecutive samples		
1. 2.	Identify source Inform ER	1. 2.	Confirm receipt of notification of failure in writing Notify CT	1.	Submit proposals for remedial actions to ER within 3 working days of notification
3.	Repeat measurement to confirm findings Review the proposed remedial	3.	Check monitoring data and CT's working methods	2.	Implement the agreed proposals Amend proposal if appropriate
4.	measures by CT and advise ER accordingly	4.	Discuss with Environmental Supervisor and CT on potential	0.	Timona proposar ii appropriate
5.	Discuss with ER for remedial actions required	5.	remedial actions Ensure remedial actions are		
6.	Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective		properly implemented		
7.	Supervise the implementation of remedial measures				
8.	Increase monitoring frequency to demonstrate efficacy of remedial measures				
9.	If exceedance continues, arrange meeting with ER				
10	additional monitoring		ntified as heing not works related no fi		

Note: If source of exceedance is clearly identified as being not works related no further action is necessary by any party.

Table 3-10b - Event-action plan for air quality (Limit Level).

			Action		
	ET		ER		СТ
Lin	nit Level 1 - Exceedance for one samp	ole			
2.3.4.5.6.7.	actions required	2.3.4.	Confirm receipt of notification of failure in writing Notify CT Check monitoring data and CT's working methods Discuss with ET and CT on potential remedial actions Ensure remedial actions are properly implemented	2.	Take immediate action to avoid further exceedance Submit proposals for remedial actions to ER within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate
Lin	nit Level 2 - Exceedance for two or mo	ore o	consecutive samples		
	Identify source Inform ER the causes and actions taken for the exceedance	2.	Confirm receipt of notification of failure in writing Notify CT	 2. 	further exceedance Submit proposals for remedial
	Repeat measurement to confirm findings Investigate the causes of	3.	Carry out analysis of CT's working procedures to determine possible mitigation to be implemented	3.	actions to ER within 3 working days of notification Implement the agreed proposals
	exceedance Arrange meeting with ER to discuss the remedial actions to be taken		Discuss amongst ET and CT on potential remedial actions Review CT's remedial actions whenever necessary to assure	l	Resubmit proposals if problem still not under control
6.	alternative mitigation measures should the CT's proposal be found ineffective	6.	their effectiveness If exceedance continues, consider what portion of the work is responsible and instruct CT to stop that portion of work until the		exceedance is abated
7.	Supervise the implementation of remedial measures		exceedance is abated		
	Increase monitoring frequency to demonstrate efficacy of remedial measures				
9.	If exceedance stops, cease additional monitoring				

Note: If source of exceedance is clearly identified as being not works related no further action is necessary by any party.

4. CONSTRUCTION NOISE MONITORING

4.1 Monitoring Results

Fourteen measurements were taken at each location during 0700-1900 and fourteen measurements were taken at NM3, NM4, NM6 and NM8 respectively during 1900-2300 from July 2003 to September 2003. All the noise measurements were taken between 0700-2300 hours on normal weekdays during which the construction site was under normal operation. The construction daytime and evening time noise monitoring results in the period from July 2003 to September 2003are tabulated in Table 4-1 and Table 4-2 respectively. Detailed weather conditions and the monitoring period are given in Appendix 1. The trend of the noise levels at each monitoring location were plotted and presented in Figure 4-1 and Figure 4-2.

Table 4-1 - Construction noise monitoring results from July 2003 to September 2003.

Date of Monitoring	Monitoring	Monitoring Results, dB(A) (30 min)						
Date of Monitoring	Parameters	NM2	NM3	NM4	NM6	NM7	NM8	
	Leq	64.5	62.5	67.5	65.0	66.5	69.0	
02/07/03 (Wed)	L ₁₀	66.5	64.0	70.0	68.5	69.0	73.5	
	L ₉₀	60.5	59.0	63.0	61.0	62.0	63.5	
	L _{eq}	63.5	62.0	66.5	67.5	62.5	69.9	
09/07/03 (Wed)	L ₁₀	65.0	65.0	71.0	70.0	65.0	72.5	
	L ₉₀	60.5	58.0	63.0	62.5	58.0	65.5	
	L _{eq}	62.0	60.5	64.5	67.0	64.5	70.5	
16/07/03 (Wed)	L ₁₀	64.5	63.0	68.0	69.5	67.0	74.0	
	L ₉₀	58.0	57.0	60.0	61.5	59.5	62.0	
	Leq	65.0	63.0	66.4	64.5	65.0	70.0	
22/07/03 (Tue)	L ₁₀	68.0	66.5	68.0	67.0	69.5	72.5	
	L ₉₀	59.5	58.0	61.5	60.0	60.5	62.0	
	L _{eq}	62.5	60.5	66.0	67.5	64.0	69.0	
31/07/03 (Thu)	L ₁₀	65.0	64.0	69.5	72.0	67.5	73.5	
	L ₉₀	60.0	58.0	62.0	62.0	62.0	62.0	
	Leq	62.5	60.5	65.8	69.0	66.0	68.0	
06/08/03 (Wed)	L ₁₀	65.0	64.5	68.0	74.5	69.0	73.5	
	L ₉₀	60.5	58.0	62.0	63.0	60.5	61.5	
	L _{eq}	62.5	60.5	67.5	69.5	68.0	70.5	
12/08/03 (Tue)	L ₁₀	65.0	63.0	71.5	74.5	74.5	75.0	
	L90	60.0	57.5	62.5	63.0	62.0	62.5	
	L _{eq}	65.0	62.0	66.0	68.5	68.0	69.5	
20/08/03 (Wed)	L ₁₀	68.5	64.5	69.5	73.0	74.0	73.0	
	L ₉₀	61.0	60.5	60.5	63.0	62.0	61.5	
	L _{eq}	64.0	62.5	69.5	68.8	67.7	70.0	
27/08/03 (Wed)	L ₁₀	67.5	66.0	74.0	75.0	70.0	74.5	
	L ₉₀	59.0	60.0	61.0	63.0	62.0	63.5	

Date of Monitoring	Monitoring	Monitoring Results, dB(A) (30 min)						
Date of Monitoring	Parameters	NM2	NM3	NM4	NM6	NM7	NM8	
	L _{eq}	63.0	62.0	68.5	67.5	68.0	70.0	
05/09/03 (Fri)	L ₁₀	65.5	66.0	71.5	71.5	73.5	75.5	
	L ₉₀	60.5	60.0	62.0	61.5	62.5	63.0	
	L _{eq}	63.0	60.5	66.8	67.5	68.0	69.5	
11/09/03 (Thu)	L ₁₀	65.5	63.0	72.0	72.0	72.5	74.0	
	L ₉₀	60.5	58.0	61.5	60.5	62.0	63.0	
	L _{eq}	64.0	62.5	67.0	68.5	68.0	70.0	
19/09/03 (Fri)	L ₁₀	66.0	65.5	70.5	73.0	71.5	74.5	
	L ₉₀	61.0	60.0	62.0	62.5	62.0	63.0	
	Leq	65.0	63.0	68.5	67.0	65.8	67.5	
24/09/03 (Wed)	L ₁₀	68.0	65.5	74.0	71.5	70.0	70.5	
	L ₉₀	60.5	60.0	62.0	63.0	60.5	62.5	
	L _{eq}	69.5	68.5	70.0	68.7	71.0	72.4	
29/09/03 (Mon)	L ₁₀	72.5	73.0	72.0	71.0	74.0	75.5	
	L ₉₀	65.5	66.0	65.5	61.5	64.5	66.5	

Figure 4-1 - Trend of Noise Level for daytime monitoring from June 2003 to September 2003.

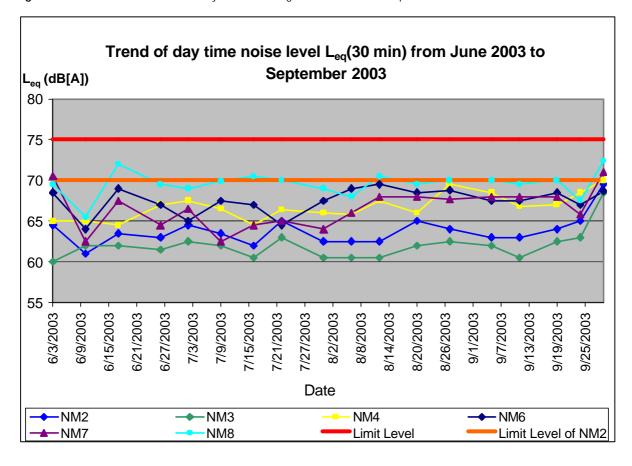


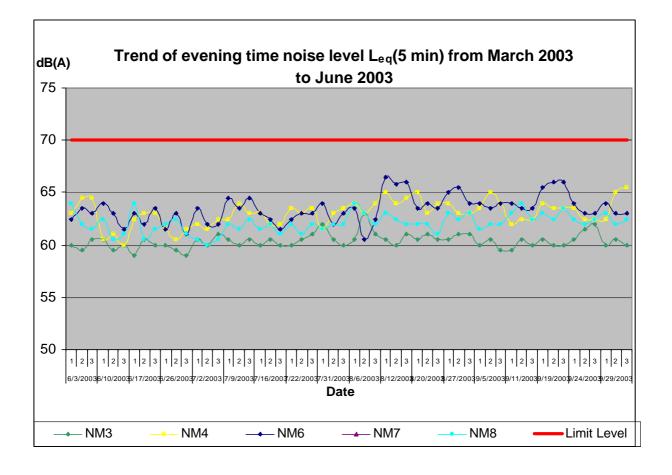
Table 4-2 - Construction evening time noise monitoring results from July 2003 to September 2003.

ate of Monitoring	Monitoring Results, L _{eq} dB(A) (5 min)								
ate of Monitoring	NM3	NM4	NM6	NM7*	NM8				
	60.5	62.0	63.5	-	60.5				
02/07/03 (Wed)	60.0	61.5	62.0	-	60.0				
	61.0	62.5	62.0	-	60.5				
	60.5	62.5	64.5	-	62.0				
09/07/03 (Wed)	60.0	64.0	63.5	-	61.5				
	60.5	63.0	64.5	-	62.5				
	60.0	63.0	63.0	-	61.5				
16/07/03 (Wed)	60.5	62.0	62.5	-	62.0				
	60.0	62.0	61.5	-	61.0				
	60.0	63.5	62.5	-	62.0				
22/07/03 (Tue)	60.5	63.0	63.0	-	61.0				
	61.0	63.5	63.0	-	62.0				
	62.0	61.5	64.0	-	61.5				
31/07/03 (Thu)	60.5	63.0	62.0	-	62.0				
	60.0	63.5	63.0	-	62.0				
	60.5	64.0	63.5	-	64.0				
06/08/03 (Wed)	63.0	63.0	60.5	-	63.0				
	61.0	64.0	62.5	-	62.0				
	60.5	65.0	66.5	-	63.0				
12/08/03 (Tue)	60.0	64.0	65.8	-	62.5				
	61.0	64.5	66.0	-	62.0				
	60.5	65.0	63.5	-	62.0				
20/08/03 (Wed)	61.0	63.0	64.0	-	62.0				
_	60.5	64.0	63.5	-	61.0				
	60.5	64.0	65.0	-	63.0				
27/08/03 (Wed)	61.0	63.0	65.5	-	62.5				
_	61.0	63.0	64.0	-	63.0				
	60.0	63.5	64.0	-	61.5				
05/09/03 (Fri)	60.5	65.0	63.5	-	62.0				
	59.5	64.0	64.0	-	63.5				
	59.5	62.0	64.0	-	63.5				
11/09/03 (Thu)	60.5	62.5	63.5	-	64.0				
	60.0	62.5	63.5	-	62.5				
	60.5	64.0	65.5	-	63.0				
19/09/03 (Fri)	60.0	63.5	66.0	-	62.5				
	60.0	63.5	66.0	-	63.5				
	60.5	63.5	64.0	-	62.5				
24/09/03 (Wed)	61.5	62.5	63.0	-	62.0				
` ′	62.0	62.5	63.0	_	62.5				

Date of Monitoring	Monitoring Results, L _{eq} dB(A) (5 min)								
Date of Monitoring	NM3	NM4	NM6	NM7*	NM8				
29/09/03 (Mon)	60.0	62.5	64.0	-	63.0				
	60.5	65.0	63.0	-	62.0				
	60.0	65.5	63.0	-	62.5				

Noted: * Evening time noise monitoring is not required at monitoring station NM7 as no construction works was conducted near this station.

Figure 4-2 - Trend of evening time noise monitoring level from June 2003 to September 2003.



5. AIR QUALITY MONITORING

5.1 24-hour TSP Monitoring Results

A total of fifteen 24-hour TSP monitoring were conducted at each location from July 2003 to September 2003. The 24-hour TSP monitoring results are tabulated in Table 5-1. Detailed monitoring data are given in Appendix 2. The trend of the 24-hours TSP levels at each monitoring location were plotted and presented in Figure 5-1.

Table 5-1 - 24-hour TSP monitoring results for July 2003 to September 2003.

Date of Manitoring		24-hour TS	SP Monitoring Res	ults,(µg/m³)	
Date of Monitoring	AM2	AM3	AM4	AM5	AM6
05/07/03 (Sat)	34.3	57.2	55.1	36.8	36.7
12/07/03 (Sat)	21.4	22.0	31.4	22.1	25.4
18/07/03 (Fri)	40.2	45.8	31.8	73.6	40.5
24/07/03 (Thu)	41.6	42.2	42.2	46.3	41.2
30/07/03 (Wed)	33.9	31.8	36.4	38.4	31.7
05/08/03 (Tue)	74.9	80.0	75.8	82.2	59.4
11/08/03 (Mon)	44.1	46.0	37.1	48.7	30.1
16/08/03 (Sat)	38.2	41.3	42.2	53.2	29.7
23/08/03 (Sat)	34.3	37.3	32.3	42.7	33.1
29/08/03 (Fri)	46.7	47.1	46.8	56.4	54.3
04/09/03 (Thu)	27.0	24.5	25.6	24.4	20.8
10/09/03 (Wed)	127.4	133.4	121.3	114.0	123.3
16/09/03 (Tue)	16.1	16.0	14.7	11.0	20.0
22/09/03 (Mon)	82.3	99.7	92.5	84.7	80.5
26/09/03 (Fri)	42.0	46.5	40.0	31.7	42.6

5.2 1-hour Monitoring Results

A total of forty-eight 1-hour TSP monitoring were conducted at each location from July 2003 to September 2003. The 1-hour TSP monitoring results are tabulated in Table 5-2 and the detailed monitoring data are given in Appendix 3. The trend of the 1-hour TSP levels at each monitoring location were plotted and presented in Figure 5-2.

Table 5-2 - 1-hour TSP monitoring results for July 2003 to September 2003.

Data of Manitorina		1-hour TSF	Monitoring Res	ults, (µg/m³)	
Date of Monitoring	AM2	AM3	AM4	AM5	AM6
	106.3	160.0	107.3	106.3	136.9
02/07/03 (Wed)	110.7	158.5	104.1	105.5	136.4
	126.3	176.0	137.6	137.7	160.8
	154.6	151.7	185.9	196.3	172.4
09/07/03 (Wed)	142.1	114.6	163.2	175.4	148.7
	146.8	127.6	164.1	175.9	152.8
	118.5	155.6	139.4	164.8	113.7
16/07/03 (Wed)	118.5	152.6	142.5	163.7	111.9
	123.7	155.7	140.4	163.9	120.5
	141.5	146.4	182.5	171.6	137.3
22/07/03 (Tue)	140.1	143.5	180.3	166.6	135.8
	129.9	137.7	175.1	165.3	157.6
	92.5	168.8	97.0	174.6	97.0
25/07/03 (Fri)	91.0	171.6	97.6	174.6	101.7
	133.5	182.6	136.1	184.6	131.2
	91.0	172.4	108.6	132.7	110.2
31/07/03 (Thu)	91.7	173.3	113.7	114.0	105.5
	108.9	176.9	124.2	137.3	121.2
	173.8	242.8	210.3	205.4	147.8
06/08/03 (Wed)	167.9	216.5	177.0	203.7	137.7
	169.8	221.9	184.9	236.1	138.9
	173.9	122.6	162.0	139.9	129.9
12/08/03 (Tue)	170.3	125.2	159.5	133.0	131.7
	172.2	140.2	155.2	136.0	126.6
	171.7	174.2	175.7	212.3	207.5
20/08/03 (Wed)	156.1	156.6	160.8	202.3	196.1
	141.1	139.9	145.8	193.6	187.2
	213.7	120.7	233.7	164.8	116.2
27/08/03 (Wed)	195.6	130.9	216.6	163.7	104.3
	187.9	157.0	207.8	163.9	132.7

Data of Manitorina		1-hour TSF	Monitoring Res	sults, (µg/m³)	
Date of Monitoring	AM2	AM3	AM4	AM5	AM6
	156.9	155.9	161.0	194.9	160.7
03/09/03 (Wed)	143.0	136.2	128.8	185.2	136.8
	137.3	130.5	132.0	184.8	135.8
	190.3	181.7	133.3	124.4	135.3
5/09/03 (Fri)	184.9	175.0	116.8	110.9	121.6
	182.7	176.3	116.6	100.5	118.9
	193.5	173.5	210.3	228.0	250.8
11/09/03 (Thu)	192.9	174.7	210.0	238.5	259.7
	199.6	182.4	216.4	235.3	247.7
	196.5	225.9	203.0	193.9	203.2
19/09/03 (Fri)	184.5	214.7	187.4	181.3	189.9
	165.7	197.0	170.8	159.6	174.2
	177.2	150.4	132.6	145.5	164.5
24/09/03 (Wed)	172.2	138.6	147.2	130.0	154.4
	169.8	136.5	163.0	128.1	155.9
	154.7	189.4	106.0	163.2	145.9
29/09/03 (Mon)	146.7	159.2	112.3	144.3	125.1
	147.3	182.7	131.8	149.3	129.6

Figure 5-1 - Trend of 24-hours TSP levels from June 2003 to September 2003.

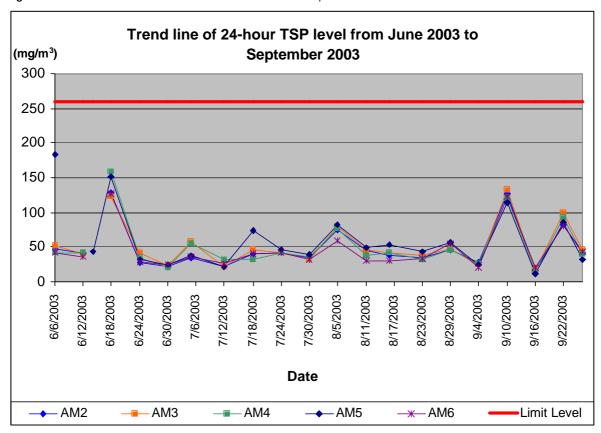
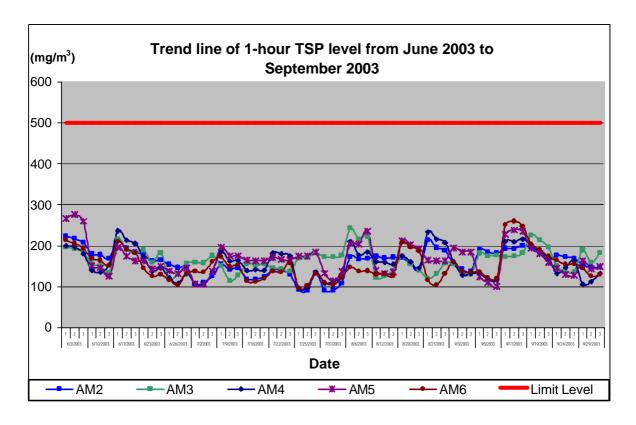


Figure 5-2 - Trend of 1-hour TSP levels from June 2003 to September 2003.



6. QUARTERLY SUMMARY, ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE RECORDS

6.1 Waste Disposal

A total of 16 loads of Construction and Demolition Waste (C&D Waste) had been disposed of at NENT Landfill from July 2003 to September 2003. The total tonnage of the waste disposal from July 2003 to September 2003 was 133.83 tonnes.

A total of 2002 loads of rocks ($\phi > 400$ mm) have been disposed of at the follow government project sites from July 2003 to September 2003:

- Contract No. FL 26/01 River Training for Upper River Indus Completion of the Remaining Works between Man Kam To Road and KCRC Bridges
- Contract No. FL27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai, and
- Contract No. CV/2002/05 Public Filling Barging Point at Kai Tak

The total quantity of the disposed rocks was 14314.3 m³ from July 2003 to September 2003.

A total of 480 loads of inert material have been disposed of at Public Filling Area from July 2003 to September 2003. The total quantity of the disposed inert materials was 2880.0 m³ from July 2003 to September 2003.

The total quantities of the waste disposal to Landfill and Public Fill are summarised in Table 6-1.

Table 6-1 - Waste Disposal Summary.

Month	Number of Loads to NENT	Total Disposed Tonnage (tonnes)	Number of Loads to others gov. designated project#	Total Disposed Quantity (m³)	Number of Loads to Public Filling Area	Total Disposed Quantity (m³)
May 2001	83	588.3	-	-	-	-
June 2001	48	326.1	-	-	-	-
July 2001	82	723.4	-	-	-	-
August 2001*	62	513.8	-	-	14	96.0
September 2001*	114	772.2	-	-	456	2,718.0
October 2001*	60	478.8	-	-	431	2,586.0
November 2001*	131	863.3	-	-	853	5,154.0
December 2001*	123	822.5	-	-	790	3,990.0
January 2002*	204	822.3	410	3,114.0	688	4,128.0
February 2002*	73	483.6	362	2,260.0	287	1,722.0
March 2002*	88	645.1	737	5,018.4	437	2,622.0
April 2002*	29	169.8	2,265	24,881.5	492	2,946.0
May 2002*	10	773.3	2,478	17,295.9	351	2,460.0
June 2002*	81	624.7	2,077	14,850.6	451	2,712.0
July 2002*	45	327.4	372	2,659.8	112	672.0

Month	Number of Loads to NENT	Total Disposed Tonnage (tonnes)	Number of Loads to others gov. designated project#	Total Disposed Quantity (m³)	Number of Loads to Public Filling Area	Total Disposed Quantity (m³)
August 2002*	-	-	548	3,390.6	63	372.0
September 2002	42	225.6	3,732	22,719.8	9	54.0
October 2002	48	378.0	2,989	18,740.2	69	414.0
November 2002	94	725.0	1,232	7,565.7	80	480.0
December 2002	21	147.3	3,035	21,668.1	66	396.0
January 2003	7	45.5	2,351	16,809.7	150	900.0
February 2003	7	77.9	1,929	13,792.4	56	336.0
March 2003	39	267.5	740	5,291.0	49	294.0
April 2003	9	38.4	613	4,383.0	152	912.0
May 2003*	14	141.7	835	5,970.3	286	1,716.0
June 2003*	29	238.7	1,738	11826.1	172	1,914.0
July 2003	30	184.8	1563	11175.5	114	684.0
August 2003	29	210.3	1708	12212.2	276	1656.0
September 2003	16	133.8	2002	14314.3	480	2880.0
Total	1618	11749.1	33716	239939.1	7384	44814.0

Note:

- -TDD Contract No. YL 46/99 Tin Shui Wai Further Development Road D3 and Constructed Wetland,
- -Contract No. FL 27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai
- -TDD Contract No. FL 26/01 River Training for Upper River Indus Completion of the Remaining Works between Man Kam To Road and KCRC Bridges and
- -CED Contract No. CV/99/10 Pak Shek Kok Reclamation for Public Filling, Remaining Works.
- HD Contract No. HY/2001/18 Sai Sha Road Widening between Kam Ying Road and Future Truck Road T7 Junction
- * The updated waste disposal data was provided by CT in September 2003

6.2 EPD Site Inspection

ET was informed by the CT that EPD visited the site on 08/07/03, 10/07/03, 18/07/03, 29/07/03, 28/08/03 and 15/09/03.

6.3 Complaint Record

A total of three public complaints regarding construction noise were received on 21/08/03, 23/08/03 and 15/09/03 respectively through the District Councillor for Shatin District Board and the EPD. All complaints had been resolved. The details of the complaint and the implemented mitigation measures are summarised in the memorandums of public complaints given in Appendix 4. A summary of the complaint record is tabulated in Table 6-2.

 Table 6-2 - Compliant Record Summary.

Date Received	Source of Complaint	Complaint Issue	Status
15/03/01	Public (Kam Ying Court)	Noise Resolved	
30/03/01	Public (Kam Ying Court)	Noise Resolve	
26/04/01	Public (Kam Ying Court)	Noise	Resolved
26,27,28 /04/01	Public (Kam Ying Court) Noise		Resolved
21/06/01	Public (District Councillor for Shatin District Board)	Water	Resolved
12/07/01	Public (District Councillor for Shatin District Board)	Noise	Resolved
20/10/01	Public (Monte Vista) Noise		Resolved
23/10/01	Public (Monte Vista)	Noise	Resolved
27/10/01	Public (Monte Vista)	Noise	Resolved
30/10/01	Public (Kam Ying Court)	Noise Resolve	
14/11/01	-	Noise	-
15/11/01	-	Noise	-
18/11/01	Public (Kam Ying Court)	Noise	Resolved
20/11/01	Public (Lee On Estate)	Noise	Resolved
26/11/01	Public (Monte Vista)	Dust	Resolved
02/12/01	Public (Kam Ying Court)	Noise	Resolved
03/12/01	Public (Kam Ying Court)	Dust, Noise	Resolved
07/12/01	Public (Heng On Estate)	Noise	Resolved
14/12/01	Public (Kam Ying Court)	Dust, Noise	Resolved
08/01/02	Public (Monte Vista, Kam Ying Court)	Dust, Noise	Resolved
09/01/02	Public (Kam Ying Court)	Noise	Resolved
10/01/02	Public (Monte Vista)	Noise	Resolved
16/01/02	Public (Kam Ying Court)	Noise	Resolved
22/01/02	Public (Lok Wo Sha)	Dust, Waste	Resolved
01/02/02	Public (Monte Vista)	Noise	Resolved
20/03/02	Public (Kam Ying Court)	Noise	Resolved
26/03/02	Public (Monte Vista)	Dust	Resolved
16/04/02	Public (Monte Vista)	Dust	Resolved
13/05/02	Public (Lee On Estate)	Water	Resolved
26/06/02	Public (Monte Vista)	Noise	Resolved
10/09/02	Public (Cheung Muk Tau Village)	Noise	Resolved
30/09/02	Public (Monte Vista)	Dust	Resolved
23/10/02	Public (Monte Vista)	Noise	Resolved
05/11/02	Public (Lee On Estate)	Noise	Resolved
23/11/02	Public (Heng On Estate)	Noise	Resolved
30/11/02	Public (Kam Ying Court)	Noise	Resolved

Date Received	Source of Complaint	Complaint Issue	Status
16/12/02	Public (Kam Ying Court)	Noise	Resolved
27/12/02	Public (Kam Ying Court)	Noise	Resolved
09/01/03	Public (Kam Ying Court)	Noise	Resolved
13/01/03	Public (Kam Ying Court) Noise		Resolved
18/01/03	Public (Monte Vista)	Noise	Resolved
20/01/03	Public (Cheung Muk Tau Village)	Noise	Resolved
06/02/03	Public (Monte Vista)	Noise	Resolved
06/04/03	Public (Ridge Garden) Nois		Resolved
24/04/03	Public (Monte Vista)	Noise	Resolved
30/05/03	Public (District Councillor for Shatin District Board)	Water	Resolved
16/06/03	Public (Monte Vista)	Noise	Resolved
23/06/03	Public (Monte Vista)	Noise	Resolved
23/06/03	Public (Monte Vista)	Dust, Noise	Resolved
27/06/03	Public (Lee On Estate)	Noise	Resolved
27/06/03	Public (Kam Ying Court) Noise		Resolved
21/08/03	Monte Vista Noise		Resolved
23/08/03	Kam Ying Noi		Resolved
15/09/03	15/09/03 Monte Vista		Resolved

6.4 Non-compliance Record

There was no exceedance recorded in the period from July 2003 to September 2003. The compliance percentage of noise, 24-hours TSP and 1-hour TSP monitoring are summarised in Table 6-3 to Table 6-5 respectively.

Table 6-3 - The Summary of Compliance Percentage of Noise Monitoring from February 2001 to September 2003.

Period	Noise Monitoring			
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)	
February 2001	3	3	100	
March 2002	5	5	100	
April 2001	4	4	100	
May 2001	5	5	100	
June 2001	4	4	100	
July 2001	5	5	100	
August 2001	4	4	100	
September 2001	4	4	100	
October 2001	5	4	100	
November 2001	4	4	100	

Period		Noise Monitoring	
Periou	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
December 2001	4	4	100
January 2002	5	5	100
February 2002	4	4	100
March 2002	4	4	100
April 2002	4	4	100
April 2003	5	5	100
June 2002	4	4	100
July 2002	5	5	100
August 2002	4	4	100
September 2002	5	5	100
October 2002	4	4	100
November 2002	4	4	100
December 2002	5	5	100
January 2003	4	4	100
February 2003	4	4	100
March 2003	4	4	100
April 2003	5	5	100
May 2003	4	4	100
June 2003	4	4	100
July 2003	5	5	100
August 2003	4	4	100
September 2003	5	5	100

Table 6-4 - The Summary of Compliance Percentage of 24-hours TSP monitoring from February 2001 to September 2003.

Period		24-hours TSP Monitoring	
renou	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
February 2001	-	-	-
March 2002	5	5	100
April 2001	5	5	100
May 2001	5	5	100
June 2001	5	5	100
July 2001	5	5	100
August 2001	5	5	100
September 2001	5	5	100
October 2001	5	5	100
November 2001	5	5	100

Period		24-hours TSP Monitoring	
Period	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
December 2001	5	4*	80
January 2002	5	4*	80
February 2002	5	5	100
March 2002	5	5	100
April 2002	6	5*	83.3
April 2003	5	5	100
June 2002	5	5	100
July 2002	5	5	100
August 2002	5	5	100
September 2002	5	5	100
October 2002	5	5	100
November 2002	5	5	100
December 2002	5	5	100
January 2003	5	5	100
February 2003	5	5	100
March 2003	5	5	100
April 2003	5	5	100
May 2003	6	6	100
June 2003	5	5	100
July 2003	5	5	100
August 2003	5	5	100
September 2003	5	5	100

Note: The 24-hours TSP monitoring was commenced in March 2001.

Table 6-5 - The Summary of Compliance Percentage of 1-hour TSP monitoring from February 2001 to September 2003.

Period		1-hour TSP Monitoring	
renou	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
February 2001	-	-	-
March 2002	3	3	100
April 2001	15	15	100
May 2001	18	18	100
June 2001	15	15	100
July 2001	15	15	100
August 2001	15	15	100
September 2001	15	15	100

^{*} The exceedances of 24-hour TSP level at AM2 in December 2001, January 2002 and April 2002 were due to the waterproofing works at the roof level as confirmed by the Principal of Ma On Shan Lutheran Primary School.

Period		1-hour TSP Monitoring	
Periou	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
October 2001	15	15	100
November 2001	15	15	100
December 2001	15	15	100
January 2002	15	15	100
February 2002	15	15	100
March 2002	15	15	100
April 2002	15	15	100
April 2003	15	15	100
June 2002	15	15	100
July 2002	18	18	100
August 2002	15	15	100
September 2002	15	15	100
October 2002	15	15	100
November 2002	15	15	100
December 2002	15	15	100
January 2003	15	15	100
February 2003	15	15	100
March 2003	15	15	100
April 2003	15	15	100
May 2003	15	15	100
June 2003	15	15	100
July 2003	18	18	100
August 2003	12	12	100
September 2003	18	18	100

Note: The 1-hour TSP monitoring was commenced in March 2001.

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7. REFERENCES

- [1] Truck Road T7 in Ma On Shan Environmental Impact Assessment Study, Final Assessment Report, Maunsell Consultants Asia Limited.
- [2] Brief for Environmental Monitoring and Audit for the Sha Tin New Town, stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan, Maunsell Consultants Asia Limited.
- [3] Environmental Permit No. EP-057/2000 for the Designated Project "Truck Road T7 in Ma On Shan", Environmental Protection Department, HKSAR.
- [4] Trunk Road T7 in Ma On Shan Environmental Monitoring and Audit Manual, Maunsell Consultant Asia Limited, HKSAR.
- [5] Sha Tin New Town, Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Baseline Monitoring Report, Maunsell Consultants Asia Ltd.

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APPENDIX 1

Noise Impact Monitoring Results for July 2003 to September 2003

Details of Day Time Noise Impact Monitoring

	l	NSR	Time	eriods	Weather	Avg. wind	No	ise Level dE	3(A)
Month	Date	No.	Start	Finish	condition	speed (m/s)	L,q	L ₁₀	L ₉₀
Jul-03	2-Jul-03	NM2	11:30	12:00	Sunny	0.5	64.5	66.5	60.5
Jul-03	2-Jul-03	NM3	10:45	11:15	Sunny	0.4	62.5	64.0	59.0
Jul-03	2-Jul-03	NM4	10:00	10:30	Sunny	0.5	67.5	70.0	63.0
Jul-03	2-Jul-03	NM6	8:00	8:30	Sunny	0.5	65.0	68.5	61.0
Jul-03	2-Jul-03	NM7	8:45	9:15	Sunny	0.4	66.5	69.0	62.0
Jul-03	2-Jul-03	NM8	9:20	9:50	Sunny	0.6	69.0	73.5	63.5
Jul-03	9-Jul-03	NM2	10:40	11:10	Sunny	0.5	63.5	65.0	60.5
Jul-03	9-Jul-03	NM3	11:20	11:50	Sunny	0.4	62.0	65.0	58.0
Jul-03	9-Jul-03	NM4	10:00	10:30	Sunny	0.5	66.5	71.0	63.0
Jul-03	9-Jul-03	NM6	9:15	9:45	Sunny	0.5	67.5	70.0	62.5
Jul-03	9-Jul-03	NM7	14:58	15:28	Sunny	0.7	62.5	65.0	58.0
Jul-03	9-Jul-03	NM8	14:20	14:50	Sunny	0.5	69.9	72.5	65.5
Jul-03	16-Jul-03	NM2	13:00	13:30	Sunny	0.5	62.0	64.5	58.0
Jul-03	16-Jul-03	NM3	11:00	11:30	Sunny	0.4	60.5	63.0	57.0
Jul-03	16-Jul-03	NM4	10:05	10:35	Sunny	0.4	64.5	68.0	60.0
Jul-03	16-Jul-03	NM6	8:05	8:35	Sunny	0.5	67.0	69.5	61.5
Jul-03	16-Jul-03	NM7	8:45	9:15	Sunny	0.5	64.5	67.0	59.5
Jul-03	16-Jul-03	NM8	9:20	9:50	Sunny	0.5	70.5	74.0	62.0
Jul-03	22-Jul-03	NM2	11:30	12:00	sunny	0.5	65.0	68.0	59.5
Jul-03	22-Jul-03	NM3	10:45	11:15	sunny	0.4	63.0	66.5	58.0
Jul-03	22-Jul-03	NM4	10:00	10:30	sunny	0.5	66.4	68.0	61.5
Jul-03	22-Jul-03	NM6	8:00	8:30	sunny	0.4	64.5	67.0	60.0
Jul-03	22-Jul-03	NM7	8:50	9:20	sunny	0.6	65.0	69.5	60.5
Jul-03	22-Jul-03	NM8	9:25	9:55	sunny	0.5	70.0	72.5	62.0
Jul-03	31-Jul-03	NM2	8:00	8:30	sunny	0.6	62.5	65.0	60.0 i
Jul-03	31-Jul-03	NM3	13:00	13:30	sunny	0.5	60.5	64.0	58.0
Jul-03	31-Jul-03	NM4	8:50	9:20	sunny	0.6	66.0	69.5	62.0
Jul-03	31-Jul-03	NM6	9:40	10:10	sunny	0.7	67.5	72.0	62.0
Jul-03	31-Jul-03	NM7	10:20	10:50	sunny	0.8	64.0	67.5	62.0
Jul-03	31-Jul-03	NM8	11:00	11:30	sunny	0.5	69.0	73.5	62.0
Aug-03	6-Aug-03	NM2	8:10	8:40	sunny	0.4	62.5	65.0	60 5
Aug-03	6-Aug-03	NM3	9:10	9:40	sunny	0.5	60.5	64.5	58.0
Aug-03	6-Aug-03	NM4	9:55	10:25	sunny	0.6	65.8	68.0	62.0
Aug-03	6-Aug-03	NM6	10:50	11:20	sunny	0.7	69.0	74.5	63.0
Aug-03	6-Aug-03	NM7	13:20	13:50	sunny	0.6	66.0	69.0	60.5
Aug-03	6-Aug-03	NM8	13:55	14:25	sunny	0.8	68.0	73.5	61.5
Aug-03	12-Aug-03	NM2	9:00	9:30	sunny	0.5	62.5	65.0	60.0
Aug-03	12-Aug-03	NM3	8:15	8·45	sunny	0.4	60.5	63.0	57.5
Aug-03	12-Aug-03	NM4	9:50	10:20	sunny	0.5	67.5	71.5	62.5
Aug-03	12-Aug-03	NM6	13:00	13:30	sunny	0.5	69.5	74.5	63.0
Aug-03	12-Aug-03	NM7	10:30	11:00	sunny	0.6	68.0	74.5	62.0
Aug-03	12-Aug-03	NM8	11:10	11:40	sunny	0.5	70.5	75.0	62.5
Aug-03	20-Aug-03	NM2	13:50	14:20	sunny	0.5	65.0	68.5	61.0
Aug-03	20-Aug-03	NM3	13:00	13:30	sunny	0.5	62.0	64.5	60.5
Aug-03	20-Aug-03	NM4	11:30	12:00	sunny	0.5	66.0	69.5	60.5
Aug-03	20-Aug-03	NM6	10:40	11:10	รบกทร	0.4	68.5	73.0	63.0
Aug-03	20-Aug-03	NM7	9:00	9:30	sunny	0.5	68.0	74.0	62.0
Aug-03	20-Aug-03	NM8	9:40	10:10	sunny	0.6	69.5	73.0	61.5
Aug-03	27-Aug-03	NM2	11:30	12:00	sunny	0.5	64.0	67.5	59.0
Aug-03	27-Aug-03	NM3	10:55	11:25	sunny	0.4	62.5	66.0	60.0
Aug-03	27-Aug-03	NM4	10:20	10:50	sunny	0.6	69.5	74.0	61.0
Aug-03	27-Aug-03	NM6	9:45	10:15	sunny	0.6	68.8	75.0	63.0
Aug-03	27-Aug-03	NM7	9:00	9:30	sunny	0.6	67.7	70.0	62.0
Aug-03	27-Aug-03	NM8	8:15	8:45	sunny	0.6	70.0	74.5	63.5

Details of Day Time Noise Impact Monitoring

		NSR	Time p	erlods	Weather	Avg. wind	No	ise Level dE	3(A)
Month	Date	No.	Start	Finish	condition	speed (m/s)	Leq	L ₁₀	L ₉₀
Sep-03	5-Sep-03	NM2	10:45	11:15	Fine	0.4	63.0	65.5	60.5
Sep-03	5-Sep-03	NM3	11:30	12:00	Fine	0.3	62.0	66.0	60.0
Sep-03	5-Sep-03	NM4	10:10	10:40	Fine	0.6	68.5	71.5	62.0
Sep-03	5-Sep-03	NM6	9:25	9:55	Fine	0.7	67.5	71.5	61.5
Sep-03	5-Sep-03	NM7	8:40	9:10	Fine	0.5	68.0	73.5	62.5
Sep-03	5-Sep-03	NM8	8:00	8:30	Fine	0.6	70.0	75.5	63.0
Sep-03	11-Sep-03	NM2	13:00	13:30	Sunny	0.5	63.0	65.5	60.5
Sep-03	11-Sep-03	NM3	11:00	11:30	Sunny	0.4	60.5	63.0	58.0
Sep-03	11-Sep-03	NM4	10:20	10:50	Sunny	0.5	66.8	72.0	61.5
Sep-03	11-Sep-03	NM6	9:35	10:05	Sunny	0.6	67.5	72.0	60.5
Sep-03	11-Sep-03	NM7	8:00	8:30	Sunny	0.7	68.0	72.5	62.0
Sep-03	11-Sep-03	NM8	8:45	9:15	Sunny	0.7	69.5	74.0	63.0
Sep-03	19-Sep-03	NM2	9:00	9:30	Sunny	0.4	64.0	66.0	61.0
Sep-03	19-Sep-03	NM3	9:15	9:45	Sunny	0.3	62.5	65.5	60.0
Sep-03	19-Sep-03	NM4	9:50	10:20	Sunny	0.6	67.0	70.5	62.0
Sep-03	19-Sep-03	NM6	13:00	13:30	Sunny	0.5	68.5	73.0	62.5
Sep-03	19-Sep-03	NM7	10:40	11:10	Sunny	0.6	68.0	71.5	62.0
Sep-03	19-Sep-03	NM8	11:30	12:00	Sunny	0.5	70.0	74.5	63.0
Sep-03	24-Sep-03	NM2	13:00	13:30	sunny	0.4	65.0	68.0	60.5
Sep-03	24-Sep-03	NM3	11:25	11:55	sunny	0.5	63.0	65.5	60.0
Sep-03	24-Sep-03	NM4	10:50	11:20	sunny	0.5	68.5	74.0	62.0
Sep-03	24-Sep-03	NM6	10:00	10:30	sunny	0.6	67.0	71.5	63.0
Sep-03	24-Sep-03	NM7	9:15	9:45	sunny	0.5	65.8	70.0	60.5
Sep-03	24-Sep-03	NM8	8.30	9:00	sunny	0.6	67.5	70.5	62.5
Sep-03	29-Sep-03	NM2	11:00	11:30	sunny	0.5	69.5	72.5	65.5
Sep-03	29-Sep-03	NM3	11:15	11:45	sunny	0.6	68.5	73.0	66.0
Sep-03	29-Sep-03	NM4	10:00	10:30	sunny	0.5	70.0	72.0	65.5
Sep-03	29-Sep-03	NM6	10:10	10:40	sunny	0.6	68.7	71.0	61.5
Sep-03	29-Sep-03	NM7	9:00	9:30	sunny	0.6	71.0	74.0	64.5
Sep-03	29-Sep-03	NM8	9:10	9:40	sunny	0.5	72.4	75.5	66.5

Details of Evening time Noise Impact Monitoring

			NSR	Time p	eriods	Weather	Avg. wind	Noi	se Level dB	(A)
Month	Date	Set No.	No.	Start	Finish	condition	speed (m/s)	L _{eq}	L ₁₀	L ₉₀
Jul-03	2-Jul-03	1	NM3	20:30	20:35	fine	0.3	60.5	62.0	57.5
Jul-03	2-Jul-03	2	NM3	20:35	20:40	fine	0.3	60.0	61.5	58.0
Jul-03	2-Jul-03	3	NM3	20:40	20:45	fine	0.3	61.0	62.5	59.0
Jul-03	2-Jul-03	1 1	NM4	20:00	20:05	fine	0.5	62.0	64.5	59.0
Jul-03	2-Jul-03	2	NM4	20:05	20:10	fine !	0.5	61.5	64.5	59.0
Jul-03	2-Jul-03	3	NM4	20:10	20:15	fine	0.5	62.5	65.0	60.0
Jul-03	2-Jul-03] 1	NM6	19:00	19:05	fine	0.4	63.5	65 0	60.5
Jul-03	2-Jul-03	2	NM6	19:05	19:10	fine	0.4	62.0	64.5	60.0
Jul-03	2-Jul-03	3	NM6	19:10	19:15	fine	0.4	62.0	64.0	59.0
Jul-03	2-Jul-03	1	NM8	19:30	19:35	fine	0.4	60.5	63.0	57.5
Jul-03	2-Jul-03	2	NM8	19:35	19:40	fine	0.4	60.0	62.5	58.0
Jul-03	2-Jul-03	3	NM8	19:40	19:45	fine	0.4	60.5	63.0	58.5
Jul-03	9-Jul-03	1	NM3	20:35	20:40	fine	0.5	60.5	62.0	58.0
Jul-03	9-Jul-03	2	NM3	20:40	20:45	fine	0.5	60.0	62.5	57.5
Jul-03	9-Jul-03	3	NM3	20:45	20:50	fine	0.5	60.5	63.0	58.0 59.0
Jul-03	9-Jul-03	1	NM4	20:00	20:05	fine	0.4	62.5	65.0	59.0 60.5
Jul-03	9-Jul-03	2	NM4	20:05	20.10	fine	0.4	64.0	66.0	
Jul-03	9-Jul-03	3	NM4	20:10	20:15	fine	0.4 0.4	63.0 64.5	65.5 66.0	60.0 60.5
Jul-03	9-Jul-03	1	NM6	19:00	19:05	fine		64.5 63.5	65.5	60.0
Jul-03 Jul-03	9-Jul-03 9-Jul-03	2 3	NM6 NM6	19:05 19:10	19:10 19:15	fine fine	0.4 0.4	63.5 64.5	66.5	61.0
Jul-03 Jul-03	9-Jul-03 9-Jul-03	1	NM8	19:10	19:13	fine	0.4	62.0	64.0	60.5
Jul-03 Jul-03	9-Jul-03 9-Jul-03	2	NM8	19:23	19:35	fine	0.4	61.5	64.0	59.5
Jul-03	9-Jul-03	3	NM8	19:35	19:40	fine	0.4	62.5	65.0	60.0
Jul-03 Jul-03	16-Jul-03	1 1	NM3	21:00	21:05	fine	0.5	60.0	62.0	57.5
Jul-03	16-Jul-03	2	NM3	21:05	21:10	fine	0.5	60.5	63.0	58.0
Jul-03	16-Jul-03	3	NM3	21:03	21:15	fine	0.5	60.0	63.0	58.0
Jul-03	16-Jul-03	1	NM4	20:15	20:20	fine	0.5	63.0	65.0	60.0
Jul-03	16-Jul-03	2	NM4	20:20	20:25	fine	0.5	62.0	64.5	60.0
Jul-03	16-Jul-03	3	NM4	20:25	20:30	fine	0.5	62.0	65.0	59.0
Jul-03	16-Jul-03	1	NM6	19:00	19:05	fine	0.4	63.0	66.0	60.5
Jul-03	16-Jul-03	2	NM6	19:05	19:10	fine	0.4	62.5	65.0	60.0
Jul-03	16-Jul-03	3	NM6	19:10	19:15	fine	0.4	61.5	64.5	60.0
Jul-03	16-Jul-03	1	NM8	19:30	19:35	fine	0.5	61.5	64.0	59.5
Jul-03	16-Jul-03	2	NM8	19:35	19:40	fine	0.5	62.0	65.0	59.5
Jul-03	16-Jul-03	3	NM8	19:40	19:45	fine	0.5	61.0	64.0	60.0
Jul-03	22-Jul-03	1	NM3	19:00	19:05	fine	0.5	60.0	62.0	58.0
Jul-03	22-Jul-03	2	NM3	19:05	19:10	fine	0.5	60.5	63.0	58.0
Jul-03	22-Jul-03	3	NM3	19:10	19:15	fine	0.5	61.0	63.0	59.0
Jul-03	22-Jul-03	1	NM4	19:45	19:50	fine	0.5	63.5	66.0	60.5
Jul-03	22-Jul-03	2	NM4	19:50	19:55	fine	0.5	63.0	66.0	60.5
Jul-03	22-Jul-03	3	NM4	19:55	20:00	fine	0.5	63.5	66.5	60.0
Jul-03	22-Jul-03	1	NM6	21:30	21:35	fine	0.5	62.5	64.5	60.0
Jul-03	22-Jul-03	2	NM6	21:35	21:40	fine	0.5	63.0	66.0	60.5
Jul-03	22-Jul-03	3	NM6	21:40	21:45	fine	0.5	63.0	65.0	60.5
Jul-03	22-Jul-03	1	NM8	20:30	20:35	fine	0.5	62.0	65.0	58.0
Jul-03 Jul-03	22-Jul-03	2	NM8	20:35	20:40	fine	0.5	61.0	64.0 64.0	58.0 58.5
Jul-03 Jul-03	. 22-Jul-03 31-Jul-03	3 1	NM8 NM3	20:40 10:00	20:45 10:05	fine	0.5	62.0 62.0	64.0 64.5	58.5 60.0
Jul-03 Jul-03	31-Jul-03 31-Jul-03	2	NM3	10:00	10:05	fine fine	0.5 0.5	60.5	62.0	58.0
Jul-03	31-Jul-03	3	NM3	10:03	10:10	fine	0.5	60.0	62.5	59.0
Jul-03	31-Jul-03	1	NM4	9:30	9:35	fine	0.5	61.5	63.0	60.0
Jul-03	31-Jul-03	2	NM4	9:35	9:40	fine	0.5	63.0	64.5	60.5
Jul-03	31-Jul-03	3	NM4	9:40	9:45	fine	0.5	63.5	65.0	61.0
Jul-03	31-Jul-03	1	NM6	8:40	8:45	fine	0.5	64.0	66.5	60.0
Jul-03	31-Jul-03	2	NM6	8:45	8:50	fine	0.5	62.0	64.0	60.0
Jul-03	31-Jul-03	3	NM6	8:50	8:55	fine	0.5	63.0	65.5	61.0
Jul-03	31-Jul-03	1	NM8	8:00	8.05	fine	0.5	61.5	64.5	60.0
Jul-03	31-Jul-03	2	NM8	8:05	8:10	fine	0.5	62.0	65.0	60.0
	2 1-2u1-02		1 110,00						VV. V	

Details of Evening time Noise Impact Monitoring

			NSR	Time	periods	Weather	Avg. wind	No	ise Level di	3(A)
Month	Date	Set No.	No.	Start	Finish	condition	speed (m/s)	Leq	L ₁₀	L ₉₀
Aug-03	6-Aug-03	1	NM3	19:00	19:05	fine	0.3	60.5	64.0	58.0
Aug-03	6-Aug-03	2	NM3	19:05	19:10	fine	0.3	63.0	65.5	59.0
Aug-03	6-Aug-03	3	NM3	19:10	19:15	fine	0.3	61.0	63.0	58.0
Aug-03	6-Aug-03	1	NM4	20:00	20:05	fine	0.4	64.0	67.0	60.5
Aug-03	6-Aug-03	2	NM4	20:05	20:10	fine	0.4	63.0	66.5	60.0
Aug-03	6-Aug-03	3	NM4	20:10	20:15	fine	0.4	64.0	66.5	61.0
Aug-03	6-Aug-03	1	NM6	21:50	21:55	fine	0.6	63.5	67.0	61.0
Aug-03	6-Aug-03	2	NM6	21:55	22:00	fine	0.6	60 5	64.0	58.0
Aug-03	6-Aug-03	3	NM6	22:00	22:05	fine	0.6	62.5	65 5	60.5
Aug-03	6-Aug-03	1	NM8	21:00	21:05	fine	0.5	64.0	66.0	60.5
Aug-03	6-Aug-03	2	NM8	21:05	21:10	fine	0.5	63.0	65.5	61.0
Aug-03	6-Aug-03	3	NM8	21:10	21:15	fine	0.5	62.0	65.5	60.0
Aug-03	12-Aug-03	1	NM3	21:00	21:05	fine	0.5	60.5	61.5	57.0
Aug-03	12-Aug-03	2	NM3	21:05	21:10	fine	0.5	60.0	62.5	58.0
Aug-03	12-Aug-03	3	NM3	21:10	21:15	fine	0.5	61.0	63.0	58.0
Aug-03	12-Aug-03	1	NM4	20:30	20:35	fine	0.6	65.0	68.0	60.5
Aug-03	12-Aug-03	2	NM4	20:35	20:40	fine	0.6	64.0	68.5	61.0
Aug-03	12-Aug-03	3	NM4	20:40	20:45	fine	0.6	64.5	68.0	60.5
Aug-03	12-Aug-03	1	NM6	19:00	19:05	fine	0.5	66.5	68.0	62.0
Aug-03	12-Aug-03	2	NM6	19:05	19:10	fine	0.5	65.8	68.0	62.5
Aug-03	12-Aug-03	3	NM6	19:10	19:15	fine	0.5	66.0	68.5	62.0
Aug-03	12-Aug-03	1	NM8	19:50	19:15	fine	0.6	63.0	65.5	60.0
Aug-03	12-Aug-03	2	NM8	19:55	20:00	fine	0.6	62.5	65.5	58.0
Aug-03	12-Aug-03	3	NM8	20:00	20:05	line line	0.6	62.0	65.0	58.5
Aug-03	20-Aug-03	1	NM3	21:30	20:05	fine	0.5	60.5	63.5	
Aug-03	20-Aug-03	2	NM3	21:35	21:40	fine	0.5	61.0	64.5	58.0 60.0
Aug-03	20-Aug-03	3	NM3	21:40	21:40	fine	0.5	60.5		
Aug-03	20-Aug-03	1	NM4	20:50	20:55		06		64.0	59.0
Aug-03	20-Aug-03	2	NM4	20:50	20.55	fine		65.0	67.5	61.0
Aug-03	20-Aug-03	3	NM4	20.55	21:05	fine	0.6	63.0	66.5	61.0
Aug-03 Aug-03	20-Aug-03 20-Aug-03	1	NM6	19:00	19:05	fine	0.6	64.0	67.0	61.5
Aug-03 Aug-03	20-Aug-03	2	NM6	19:00		fine	0.4	63.5	66.0	60.5
Aug-03 Aug-03	20-Aug-03 20-Aug-03	3	NM6		19:10	fine	0.4	64.0	67.5	61.0
Aug-03 Aug-03	20-Aug-03 20-Aug-03	1	NM8	19:10 19:50	19:15 19:55	fine	0.4	63.5	67.0	61.0
Aug-03	20-Aug-03 20-Aug-03	2	NM8	19:55	20:00	fine	0.5	62.0	64.5	60.5
Aug-03 Aug-03	20-Aug-03 20-Aug-03	3	NM8	20:00	1	fine	0.5	62.0	65.0	60.0
Aug-03 Aug-03	27-Aug-03	1		1	20:05	fine	0.5	61.0	64.5	59.0
Aug-03 Aug-03	27-Aug-03 27-Aug-03	2	NM3 NM3	19:00	19:05	fine	0.4	60.5	63.0	58.0
Aug-03	27-Aug-03 27-Aug-03	3		19:05	19:10	fine	0.4	61.0	64.0	58.0
Aug-03 Aug-03		1	NM3	19:10	19:15	fine	0.4	61.0	63.5	58.5
Aug-03 Aug-03	27-Aug-03 27-Aug-03	2	NM4	19:50	19:55	fine	0.5	64.0	66.5	60.5
Aug-03 Aug-03	27-Aug-03 27-Aug-03	3	NM4	19:55	20:00	fine	0.5	63.0	66.0	60.0
-			NM4	20:00	20:05	fine	0.5	63.0	66.5	60.5
Aug-03 Aug-03	27-Aug-03	1	NM6	20:45	20:50	fine	0.5	65.0	68.5	60.5
Aug-03 Aug-03	27-Aug-03	2	NM6	20:50	20:55	fine	0.5	65.5	69.0	62.0
	27-Aug-03	1 - 1	NM6	20:55	21:00	fine	0.5	64.0	68.5	61.0
Aug-03	27-Aug-03	1	NM8	21:45	21:50	fine	0.6	63.0	66.5	60.0
Aug-03	27-Aug-03	2	NM8	21:50	21:55	fine	0.6	62.5	65.0	59.0
Aug-03	27-Aug-03	3	8MN	21:55	22:00	fine	0.6	63.0	65.5	59.0

Details of Evening time Noise Impact Monitoring

			NSR	Time p	perlods	Weather	Avg. wind	No	ise Level dE	3(A)
Month	<u>D</u> ate	Set No.	No.	Start	Finish	condition	speed (m/s)	Leq	L ₁₀	L ₉₀
Sep-03	5-Sep-03	1	NM3	19:00	19:05	fine	0.5	60.0	63.0	57.5
Sep-03	5-Sep-03	2	NM3	19:05	19:10	line	0.5	60.5	63.5	58.0
Sep-03	5-Sep-03	3	NM3	19:10	19:15	fine	0 5	59.5	63.0	57.5
Sep-03	5-Sep-03	1	NM4	19 55	20:00	fine	0.5	63.5	66.0	60.0
Sep-03	5-Sep-03	2	NM4	20:00	20:05	fine	0.5	65.0	67.5	61.0
Sep-03	5-Sep-03	3	NM4	20:05	20:10	fine	0.5	64.0	66.5	60.5
Sep-03	5-Sep-03	1	NM6	21:50	21:55	fine	0.5	64.0	66.5	60.5
Sep-03	5-Sep-03	2	NM6	21.55	22:00	fine	0.5	63.5	67.0	61.0
Sep-03 Sep-03	5-Sep-03 5-Sep-03	3 1	NM6 NM8	22:00 21:00	22:05 21:05	fine C	0.5	64.0 61.5	67.0	61.5
Sep-03	5-Sep-03	2	NM8	l .	1	fine	0.5 0.5		65.0	60.0
Sep-03	5-Sep-03	3	NM8	21:05 21:10	21:10 21:15	line fine	0.5	62.0 62.0	63.5 65.0	59.0 59.0
Sep-03	11-Sep-03	1	NM3	19:00	19:05	fine	0.4	59.5	61.5	58.0
Sep-03	11-Sep-03	2	NM3	19:05	19:10	fine	0.4	60.5	62.0	58.5
Sep-03	11-Sep-03	3	NM3	19:10	19:15	fine	0.4	60.0	62.0	58.0
Sep-03	11-Sep-03	1	NM4	19:50	19:55	fine	0.5	62.0	65.0	59.5
Sep-03	11-Sep-03	2	NM4	19:55	20:00	fine	0.5	62.5	65.5	60.0
Sep-03	11-Sep-03	3	NM4	20:00	20:05	fine	0.5	62.5	66.0	60.0
Sep-03	11-Sep-03	1	NM6	20:40	20:45	fine	0.6	64.0	67.5	61.0
Sep-03	11-Sep-03	2	NM6	20:45	20:50	fine	0.6	63.5	67.0	60.5
Sep-03	11-Sep-03	3	NM6	20:50	20:55	fine	0.6	63.5	67.0	62.0
Sep-03	11-Sep-03	1	NM8	21:30	21:35	fine	0.5	63.0	65.0	60.5
Sep-03	11-Sep-03	2	NM8	21:35	21:40	fine	0.5	64.0	66.5	61.0
Sep-03	11-Sep-03	3	NM8	21:40	21:45	fine	0.5	62.5	65.5	60.0
Sep-03	19-Sep-03	1	NM3	19:00	19:05	fine	0.4	60.5	64.0	58.0
Sep-03	19-Sep-03	2	NM3	19:05	19:10	fine	0.4	60.0	63.5	58.0
Sep-03	19-Sep-03	3	NM3	19:10	19:15	fine	0.4	60.0	64.0	59.0
Sep-03	19-Sep-03	1	NM4	19:40	19:45	fine	0.6	64.0	67.0	60.5
Sep-03	19-Sep-03	2	NM4	19:45	19:50	fine	0.6	63.5	67.0	61.0
Sep-03	19-Sep-03	3	NM4	19:50	19:55	fine	0.6	63.5	67.0	60.0
Sep-03	19-Sep-03	1	NM6	20:30	20:35	fine	0.6	65.5	67.5	61.5
Sep-03	19-Sep-03	2	NM6	20:35	20:40	fine	0.6	66.0	68.0	60.5
Sep-03	19-Sep-03	3	NM6	20:40	20:45	fine	0.6	66.0	68.5	61.0
Sep-03	19-Sep-03	1	NM8	21.00	21:05	fine	0.5	63.0	65.5	60.5
Sep-03	19-Sep-03	2	NM8	21:05	21:10	fine	0.5	62.5	66.0	60.5
Sep-03	19-Sep-03	3	NM8	21:10	21:15	fine	0.5	63.5	66.0	61.0
Sep-03 Sep-03	24-Sep-03 24-Sep-03	1	NM3	21:20	21:25	fine	0.4	60.5	63.0	58.0
Sep-03	24-Sep-03 24-Sep-03	2	NM3	21:25	21:30	fine	0.4	61.5	64.0	59.0
Sep-03	24-Sep-03 24-Sep-03	3 1	NM3 NM4	21:30 20:40	21:35 20:45	fine	0.4 0.4	62.0	64.0	59.0
Sep-03	24-Sep-03	2	NM4	20:40	20:45	fine		63.5	66.0	60.5
Sep-03 Sep-03	24-Sep-03 24-Sep-03	3	NM4 NM4	20:45	20:50	fine fine	0.4 0.4	62.5 62.5	65.5 66.0	60.0 59.0
Sep-03	24-Sep-03	1	NM6	19:00	19:05	fine	0.5	64.0	66.5	60.5
Sep-03	24-Sep-03	2	NM6	19:05	19:10	fine	0.5	63.0	66.0	60.0
Sep-03	24-Sep-03	3	NM6	19:10	19:15	fine	0.5	63.0	65.5	59.0
Sep-03	24-Sep-03	1 1	NM8	19:50	19:55	fine	0.6	62.5	65.0	59.0
Sep-03	24-Sep-03	2	NM8	19:55	20:00	fine	0.6	62.0	65.0	58.5
Sep-03	24-Sep-03	3	NM8	20:00	20:05	fine	0.6	62.5	64.0	60.0
Sep-03	29-Sep-03	1	NM3	19:00	19:05	fine	0.3	60.0	63.0	57.0
Sep-03	29-Sep-03	2	NM3	19:05	19:10	fine	0.3	60.5	64.0	57.5
Sep-03	29-Sep-03	3	NM3	19:10	19:15	fine	0.3	60.0	63.0	57.5
Sep-03	29-Sep-03	1	NM4	19:45	19:50	fine	0.5	62.5	65.0	60.0
Sep-03	29-Sep-03	2	NM4	19:50	19:55	fine	0.5	65.0	67.5	62.0
Sep-03	29-Sep-03	3	NM4	19:55	20:00	fine	0.5	65.5	68.0	62.0
Sep-03	29-Sep-03	1	NM6	21:40	21:45	fine	0.6	64.0	66.5	61.0
Sep-03	29-Sep-03	2	NM6	21:45	21:50	fine	0.6	63.0	67.0	60.5
Sep-03	29-Sep-03	3	NM6	21:50	21:55	fine	0.6	63.0	66.5	61.0
Sep-03	29-Sep-03	1	NM8	20:50	20:55	fine	0.5	63.0	65.5	61.0
Sep-03	29-Sep-03	2	NM8	20:55	21:00	fine	0.5	62.0	65.0	60.5
Sep-03	29-Sep-03	3	NM8	21:00	21:05	fine	0.5	62.5	65.0	60.0

APPENDIX 2

24-hour TSP Monitoring Results for July 2003 to September 2003

Filtre Moorh Controller Controller				Receptor	Weather	Site	Filter We	eight (g)	TSP	Flow Rate (m³/min)	(m³/min)	Average Flow	Elapse	Elapse Time	Sampling	Total	24-hour TSP
υн.03 5.λ. με, σ. λ.	_	Month	Date	No.	condition	condition	Initial	Final	weight (g)	Initial	Final	Rate (m³/mln)	Start	Finish	Time (mins.)	vol, (m³)	Level (ug/m³)
July 3 5-λuly 3 AMM Sumy Tomain contract to part and a second of the contract of t	_	Jul-03	5-Jul-03	AM2	Sunny	normal operation	3.4554	3.5188	0.0634	1.2849	1.2824	1.2837	3675.64	3699.64	1440.00	1848.46	34.3
July 13 5-July 23 AMM Sumy normal operation of 4869 3.554 of 100		Jul-03	5-Jul-03	AM3	Sunny	normal operation	3.4750	3.5726	0.0976	1.1859	1.1828	1.1844	3620.89	3644.89	1440.00	1705.46	57.2
United AMS Sumy normal operation 3.556-6 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4258 1.4410 0.00 1.4410 0.00 1.4258 1.4258 1.4410 0.00 1.4410 0.00 1.4258 1.4258 1.4258 1.4410 0.00 1.4410 0.00 1.4410 0.00 1.4410 0.00 1.4410 0.00	_	Jul-03	5-Jul-03	AM4	Sunny	normal operation	3.4546	3.5513	0.0967	1.2194	1.2164	1.2179	3658.22	3682.22	1440.00	1753.78	55.1
Uulc3 12-Jul-03 AMA Sumy normal operation 34549 35239 1.0056 1.3057 1.1367 1.3070 1.1367 1.4440 0 1882 08 Jul-03 12-Jul-03 AMA Sumy normal operation 3.4549 3.5239 1.0068 1.2497 1.2567 3.6448 3678 68 1.4400 1.8812.08 Jul-03 12-Jul-03 AMA Sumy normal operation 3.475 0.0461 1.4428 1.2441 1.6400 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0 1.84140 0	E114	Jul-03	5-Jul-03	AM5	Sunny	normal operation	3,4609	3.5364	0.0755	1.4268	1.4202	1.4235	3360.84	3384.84	1440.00	2049.84	36.8
U-U-03 AMA Summy rormal operation 34987 3.5372 0.0366 1.2567 1.2617 364.48 366.88 4 140.00 1.788 1.261 1.2617 366.48 366.88 4 140.00 1.788 1.788 1.261 366.88 4 140.00 1.788 1.789 1.261 1.462 1.261 1.462 1.261 1.462 1.261 1.462 1.261 1.462 1.261 1.462 1.261 1.462 1.261 1.463 1.461 366.88 66.88 1.463 1.461 36.88 4.461 0.00 2.00 1.462 1.261 1.261 1.461 36.88 36.88 4.461 0.00 2.00 36.88	E115	Jul-03	5-Jul-03	AM6	Sunny	normal operation	3.4548	3.5239	0.0691	1.3087	1.3053	1.3070	1792.45	1816.45	1440.00	1882.08	36.7
July 30 NAMA Surmy Formation persistion 34476 3.537 0.0366 1.2489 1.2469 3662 22 3776 27 1.440.00 1.840.00 1.246.00 3662 22 3776 27 1.440.00 2.862.20 1.447.00 3682 22 3776 27 1.440.00 1.440.00 1.440.00 1.440.00 1.447.00 1.440.00	E163	Jul-03	12-Jul-03	AM2	Sunny	normal operation	3.4987	3.5372	0.0385	1.2469	1.2507	1.2488	3699.64	3723.64	1440.00	1798.27	21.4
Using the state of t	E164	Jul-03	12-Jul-03	AM3	Sunny	normal operation	3.4976	3.5372	0.0396	1.2493	1.2541	1.2517	3644.89	3668.88	1439.40	1801.70	22.0
UH-03 12-UH-03 AMB Sunny normal operation 34796 3.5577 O.G46 1.4422 1.4474 3384 84 4.068 PH 140.00 120-12 JUH-03 12-UH-03 AMB Sunny normal operation 3.4716 3.1477 0.0723 1.2807 1.2807 3.776.21 4.0400 185.22 3.4940 0.0723 1.2807 1.2824 3.766.31 3.706.21 4.0400 185.22 3.4940 0.0723 1.2807 1.2847 3.706.21 4.0400 1.707.23 4.0400 1.707.23 1.2807 3.706.21 3.706.22 4.0400 1.707.23 1.2807 1.2847 3.706.22 3.706.22 4.0400 0.0723 1.2807 1.2847 3.706.22 3.707.22 4.0400 1.707.23 4.0400 0.0802 3.707.22 3.707.22 4.0400 1.707.23 4.0400 0.0802 3.747.63 3.747.63 4.440.00 1.757.24 4.0400 1.757.24 4.0400 1.757.24 4.0400 1.757.24 4.0400 1.757.24 4.0400	_	Jul-03	12-Jul-03	AM4	Sunny	normal operation	3.4846	3.5362	0.0516	1.1380	1.1420	1.1400	3682.22	3706.21	1439.40	1640.92	31.4
Juli-03 12-Juli-03 AMB Sunny normal operation 3-4716 3-5187 0-0473 17286 17286 186-64 180-02 180-18 Juli-03 18-Juli-03 AM3 Sunny normal operation 3-4278 3-5188 0.0723 1.2542 1.2560 180-28 374-00 180-28 Juli-03 18-Juli-03 AM4 Sunny normal operation 3-428 0.0438 1.0891 1.2540 370-26 370-26 1.377-36 Juli-03 18-Juli-03 AM4 Sunny normal operation 3-427 0.0438 1.2240 1.2546 170-24 1.7540 1.756		Jul-03	12-Jul-03	AM5	Sunny	normal operation	3.4796	3.5257	0.0461	1.4425	1.4523	1.4474	3384.84	3408.84	1440.00	2084.26	22.1
Jub Col 18-Jub Col AMA Sunny normal operation 3.422g 1.2867 1.2267 1.2242 1.2243 1.2242 1.2243 1.2242 1.2243 1.2242 1.2243	_	Jul-03	12-Jul-03	AM6	Sunny	normal operation	3.4716	3.5187	0.0471	1.2839	1.2881	1.2860	1816.45	1840.45	1440.00	1851.84	25.4
Juli-O3 H-Juli-O3 AMA Sunny normal operation 3-436 3-5136 0.0807 1 2242 1 26242 3668 B 9628 B 1440.00 1772.85 Juli-O3 H-Juli-O3 AMA Sunny normal operation 3-457 0.0438 0.0494 0.0957 1370.22 1440.00 1772.04 Juli-O3 H-Juli-O3 AMA Sunny normal operation 3-467 0.0787 1374 1374 1370.22 1440.00 1750.44 Juli-O3 H-Juli-O3 AMA Sunny normal operation 3-457 0.0787 1374 1374 3-776.84 1440.00 1750.44 Juli-O3 24-Juli-O3 AMA Sunny normal operation 3-452 0.0787 1374 1249 1750.44 1440.00 1750.44 Juli-O3 24-Juli-O3 AMA Sunny normal operation 3-452 0.0787 1374 1249 1750.48 1440.00 1750.44 Juli-O3 24-Juli-O3 AMA Sunny	_	Jul-03	18-Jul-03	AM2	Sunny	normal operation	3.4225	3.4948	0.0723	1.2507	1.2507	1.2507	3723.64	3747.63	1439.40	1800.26	40.2
Ubility R-Juli 03 AM4 Sumny normal operation 3,4219 3,455 0,0438 1,081 0,9861 3709,22 1,40,00 1,373,36 Juli-03 18-Juli-03 AMM5 Sumny normal operation 3,4219 0,048 1,018 1,440 1,440,00 1,82,88 Juli-03 18-Juli-03 AMM5 Sumny normal operation 3,456 0,0743 1,249 1,248 1,440,00 1,82,88 Juli-03 24-Juli-03 AMM3 Sumny normal operation 3,399 3,465 0,0743 1,2267 1,248 1,748 1,440,00 1,789 Juli-03 24-Juli-03 AMM3 Sumny normal operation 3,457 3,482 0,078 1,259 1,248 1,748 1,440,00 1,789,17 Juli-03 24-Juli-03 AMM3 Sumny normal operation 3,412 3,514 1,089 1,248 1,440,00 1,789,17 Juli-03 24-Juli-03 AMM3 Sumny normal operation		Jul-03	18-Jul-03	AM3	Sunny	normal operation	3.4328	3.5135	0.0807	1.2242	1.2242	1.2242	3668.88	3692.88	1440.00	1762.85	45.8
Jul-03 18-Jul-03 AM5 Sunny normal operation 3.456 3.5119 0.0822 0.8035 3.408.84 4342.84 1440.00 1157.04 Jul-03 18-Jul-03 AM5 Sunny normal operation 3.5119 0.0787 1.3145 1.3145 1.3145 1.3145 1.440.00 1.440.00 1.799.14 Jul-03 24-Jul-03 AM6 Sunny normal operation 3.3909 3.4652 0.0743 1.2507 1.2196 1.2202 377.68 1.440.00 1760.41 Jul-03 24-Jul-03 AMA Sunny normal operation 3.4652 0.0743 1.2242 1.2196 1.2202 377.68 1.440.00 1760.41 Jul-03 24-Jul-03 AMA Sunny normal operation 3.452 0.040 1.2509 1.3509 1.440.00 1.5504 1.440.00 1.5504 1.440.00 1.560 1.440.00 1.560 1.440.00 1.560 1.440.00 1.560 1.440.00 1.560 1.440.00 1.440		Jul-03	18-Jul-03	AM4	Sunny	normal operation	3.4219	3,4657	0.0438	1.0181	0.8941	0.9561	3706.21	3730.22	1440.60	1377.36	31.8
Jui-03 14-Jui-03 AM6 Sunny normal operation 34406 35173 0.0748 1.3145 1.3145 184464 184400 1.92471 1.3446 1.440.00 1.940.00 1.2471 1.2489 1.746.64 1.440.00 1.789.11 Jui-03 24-Jui-03 AM3 Sunny normal operation 3.3699 3.4657 0.0748 1.2240 1.2499 3.716.64 1440.00 1.799.11 Jui-03 24-Jui-03 AM3 Sunny normal operation 3.8657 0.0650 1.0800 1.0768 1.3593 3776.82 1440.00 1.557.72 Jui-03 24-Jui-03 AM6 Sunny normal operation 3.4757 3.060 0.0800 1.3599 1.3599 1.440.00 1.557.72 1.440.00 1.557.72 1.440.00 1.557.72 1.440.00 1.597.41 1.440.00 1.597.41 1.440.00 1.759.44 1.440.00 1.759.44 1.440.00 1.759.44 1.440.00 1.759.44 1.440.00 1.759.44 1.440.00 <td< td=""><td></td><td>Jul-03</td><td>18-Jul-03</td><td>AM5</td><td>Sunny</td><td>normal operation</td><td>3.4267</td><td>3.5119</td><td>0.0852</td><td>0.8035</td><td>0.8035</td><td>0.8035</td><td>3408.84</td><td>3432.84</td><td>1440.00</td><td>1157.04</td><td>73.6</td></td<>		Jul-03	18-Jul-03	AM5	Sunny	normal operation	3.4267	3.5119	0.0852	0.8035	0.8035	0.8035	3408.84	3432.84	1440.00	1157.04	73.6
Uu-03 24-Jui-03 AMZ Sunny normal operation 3.3909 3.4657 0.0748 1.2247 1.2280 3747.63 3771.64 1440.60 1769.41 Jui-03 24-Jui-03 AMA Sunny normal operation 3.3909 3.4657 0.0743 1.2242 1.7220 376.82 1440.60 1760.41 Jui-03 24-Jui-03 AMA Sunny normal operation 3.4157 3.506 0.0903 1.3596 1.3599 3730.22 375.22 1440.00 1951.56 Jui-03 24-Jui-03 AMA Sunny normal operation 3.4157 3.506 0.0903 1.3599 1.3599 1.3599 1.440.00 1951.56 Jui-03 24-Jui-03 AMA Sunny normal operation 3.5722 0.0610 1.2471 1.3599 1.440.00 1757.44 Jui-03 30-Jui-03 AMA Sunny normal operation 3.5496 3.656 3.589 1.2600 1.2471 1.2499 1.440.00 1759.44		Jul-03	18-Jul-03	AM6	Sunny	normal operation	3.4406	3.5173	0.0767	1.3145	1,3145	1.3145	1840,45	1864.45	1440.00	1892.88	40.5
Jui-03 24-Jui-03 AMA Sunny normal operation 3.3909 3.465Z 0.0743 1.2242 1.2220 3692.88 3716.89 1740.60 1760.41 Jui-03 24-Jui-03 AMA Sunny normal operation 3.348Z 0.0655 1.0800 1.3553 3.552.82 1440.00 1951.56 Jui-03 24-Jui-03 AMA Sunny normal operation 3.4212 3.504 0.0650 1.389 1.252 1.356.8 377.64 1.060 1.247 1.249 1.268 4.56.84 1440.00 1797.41 Jui-03 24-Jui-03 AMA Sunny normal operation 3.672 3.570 1.249 1.249 1.240 1.756.84 1440.00 1797.41 Jui-03 24-Jui-03 AMA Sunny normal operation 3.572 3.500 1.209 1.249 1.740 1.758.46 1440.00 1796.41 Jui-03 30-Jui-03 AMA Sunny normal operation 3.558 3.589		Jul-03	24-Jul-03	AM2	Sunny	normal operation	3.3909	3,4657	0.0748	1.2507	1.2471	1 2489	3747.63	3771.64	1440.60	1799.17	41.6
Jui-03 24-Jui-03 AM4 Sunny nomal operation 33827 3 4422 6 10783 3730.22 3754.22 1440.00 155.75 345.83 345.84 345.84 345.86 345.86 4 140.00 155.75 1440.00 155.75 Jui-03 24-Jui-03 AM5 Sunny nomal operation 3.4157 3.506 0.0602 1.349 1.359 1.359 1.440.00 195.75 Jui-03 24-Jui-03 AM6 Sunny nomal operation 3.572 3.573 0.060 1.2471 1.2482 3771.64 376.64 1440.00 1759.41 Jui-03 30-Jui-03 AM4 Sunny nomal operation 3.5263 3.589 0.060 1.209 1.2482 377.64 1440.00 1752.80 Jui-03 30-Jui-03 AM4 Sunny nomal operation 3.589 0.060 1.209 1.2482 377.64 1440.00 1752.80 Jui-03 30-Jui-03 AM5 Sunny nomal operation 3.589		Jul-03	24-Jul-03	AM3	Sunny	normal operation	3.3909	3,4652	0.0743	1.2242	1.2198	1.2220	3692.88	3716.89	1440.60	1760.41	42.2
Jui-03 AM5 Sumny normal operation 3.4157 3.506 0.0903 1.3596 1.3503 3432.68 1440.00 1951.56 Jui-03 24-Jui-03 AM6 Sumny normal operation 3.512 0.0610 1.2315 1.3892 1.3519 1884.45 1886.45 1440.00 1951.56 Jui-03 30-Jui-03 AM8 Sumny normal operation 3.5204 0.0610 1.2016 1.2212 3776.82 1440.00 1759.80 Jui-03 30-Jui-03 AM4 Sumny normal operation 3.586 0.0610 1.2025 1.2013 3740.89 1440.00 1759.80 Jui-03 30-Jui-03 AM4 Sumny normal operation 3.596 0.0610 1.2025 1.2013 3740.89 1440.00 1759.80 Jui-03 30-Jui-03 AM5 Sumny normal operation 3.599 0.0610 1.2203 1.2013 3740.89 1440.00 1759.80 Jui-03 Sumny normal operation		Jul-03	24-Jul-03	AM4	Sunny	normal operation	3.3827	3.4482	0.0655	1.0800	1.0766	1.0783	3730.22	3754.22	1440.00	1552.75	42.2
Jul-03 AM6 Sunny normal operation 3.4212 3.5014 0.0802 1.3145 1.3892 1.3519 1864-45 1888-45 1440.00 1946.66 Jul-03 3.0-Jul-03 AM2 Sunny normal operation 3.5243 3.5803 0.0560 1.2193 1.2212 3740.89 1440.00 1729.40 Jul-03 30-Jul-03 AM3 Sunny normal operation 3.5863 0.0560 1.2005 1.2012 3740.89 1440.00 1729.80 Jul-03 30-Jul-03 AM5 Sunny normal operation 3.5863 0.0560 1.2006 1.2013 374.82 1440.00 1729.80 Jul-03 30-Jul-03 AM5 Sunny normal operation 3.596 0.0530 1.2006 1.3563 1.400 1.729.80 1.729.80 Jul-03 30-Jul-03 AM5 Sunny normal operation 3.414 3.5620 0.0630 1.2015 1.2012 3778.22 1740.00 1795.41 Jul-03	-	Jul-03	24-Jul-03	AM5	Sunny	normal operation	3.4157	3.5060	0.0903	1.3596	1,3509	1.3553	3432.84	3456.84	1440.00	1951.56	46.3
Jul-03 30-Jul-03 AMZ Sunny normal operation 35122 35732 0.0610 1.2471 1.2493 12482 377.64 3795.64 1440.00 1797.41 Jul-03 30-Jul-03 AMA Sunny normal operation 3.5243 3.5896 0.0630 1.2015 1.2212 3778.22 3778.22 1440.00 1797.41 Jul-03 30-Jul-03 AMA Sunny normal operation 3.5266 3.6980 0.0630 1.2005 1.2012 3778.22 3778.22 1440.00 1729.80 Jul-03 30-Jul-03 AMA Sunny normal operation 3.589 0.0611 1.3104 1.3656 1.2475 3778.22 3778.22 1740.00 1797.41 Aug-03 S-Aug-03 AMA Sunny normal operation 3.499 0.0611 1.3166 1.2475 3778.23 1440.00 1795.42 Aug-03 S-Aug-03 AMA Sunny normal operation 3.4402 3.6003 0.1601 1.2465	_	Jul-03	24-Jul-03	AM6	Sunny	normal operation	3.4212	3.5014	0.0802	1.3145	1.3892	1.3519	1864.45	1888.45	1440.00	1946.66	41.2
Jul-03 AM3 Sunny normal operation 3.5243 3.5803 0.0560 1.2122 3716.89 3740.89 1440.00 1758.46 Jul-03 30-Jul-03 AM4 Sunny normal operation 3.5266 3.5896 0.0530 1.2025 1.2013 3742.25 1440.00 1729.80 Jul-03 30-Jul-03 AM5 Sunny normal operation 3.5696 0.0530 1.2025 1.2013 3754.25 1440.00 1949.18 Jul-03 30-Jul-03 AM6 Sunny normal operation 3.5960 0.0630 1.2025 1.2013 3754.25 1440.00 1752.25 Jul-03 30-Jul-03 AM6 Sunny normal operation 3.4146 3.5491 0.1406 1.2457 1.2475 1.2475 1440.00 1756.40 Aug-03 5-Aug-03 AM5 Sunny normal operation 3.4293 3.5537 0.1244 1.1406 1.387 3778.22 1440.00 1756.40 Aug-03 5-Aug-03		Jul-03	30-Jul-03	AM2	Sunny	normal operation	3.5122	3.5732	0.0610	1.2471	1.2493	1.2482	3771.64	3795.64	1440.00	1797,41	33.9
Jul-03 30-Jul-03 AM4 Sunny normal operation 3.5266 3.5896 0.0630 1.2005 1.2013 3754.22 3778.22 1440.00 1729.80 Jul-03 30-Jul-03 AM5 Sunny normal operation 3.5406 3.6154 0.0748 1.3569 1.3569 1.3569 1.3569 1.3659 1.3659 1.3659 1.3659 1.460.00 1729.80 1796.40 Jul-03 3.0-Jul-03 AM6 Sunny normal operation 3.5406 3.6154 0.04146 1.3659 1.2457 1.2457 1.2475 1.2475 1.2475 1.2475 1.2475 1.2475 1.2467 1.440.00 1796.40 Aug-03 5-Aug-03 AM5 Sunny normal operation 3.402 3.6003 0.1614 1.2040 1.2058 376.48 1440.00 1795.23 Aug-03 5-Aug-03 AM5 Sunny normal operation 3.402 3.6003 0.1614 1.2040 1.2049 1.2465 1.2465 1.246		Jul-03	30-Jul-03	AM3	Sunny	normal operation	3.5243	3.5803	0.0560	1.2198	1.2225	1.2212	3716.89	3740.89	1440.00	1758.46	31.8
Jul-03 30-Jul-03 AM5 Sunny normal operation 3.5406 3.6154 0.0748 1.3569 1.3568 1.3566 1.3568 1.3568 1.3568 1.3568 1.3569 1.3569 1.3569 1.3569 1.3569 1.3569 1.3569 1.3569 1.3569 1.3668 1.3668 1.368 1.440.00 1926.72 Aug-03 5-Aug-03 AM2 Sunny normal operation 3.4746 3.5620 0.1406 1.2225 1.2475 3778.22 3819.64 1440.00 1796.40 Aug-03 5-Aug-03 AM4 Sunny normal operation 3.4224 3.5620 0.1406 1.2457 1.2475 3778.22 38140.00 1757.23 Aug-03 5-Aug-03 AM6 Sunny normal operation 3.4022 0.1601 1.2457 1.2475 1.2475 1.2485 1440.00 1756.51 Aug-03 5-Aug-03 AM6 Sunny normal operation 3.3496 0.1601 1.2475 1.2485 1.2471 <t< td=""><td></td><td>Jul-03</td><td>30-Jul-03</td><td>AM4</td><td>Sunny</td><td>normal operation</td><td>3.5266</td><td>3.5896</td><td>0.0630</td><td>1.2000</td><td>1,2025</td><td>1.2013</td><td>3754.22</td><td>3778.22</td><td>1440.00</td><td>1729.80</td><td>36.4</td></t<>		Jul-03	30-Jul-03	AM4	Sunny	normal operation	3.5266	3.5896	0.0630	1.2000	1,2025	1.2013	3754.22	3778.22	1440.00	1729.80	36.4
Jul-03 30-Jul-103 AM6 Sunny normal operation 3.5369 3.5890 0.0611 1.3104 1.3856 1.3850 188.45 1912.45 1440.00 1926.72 Aug-03 5-Aug-03 AM2 Sunny normal operation 3.4146 3.5491 0.1345 1.2457 1.2475 3795.64 3819.64 1440.00 1796.40 Aug-03 5-Aug-03 AM3 Sunny normal operation 3.4146 3.5637 0.1244 1.1406 1.2457 1.2475 376.489 1440.00 1796.40 Aug-03 5-Aug-03 AM5 Sunny normal operation 3.4296 0.1601 1.2457 1.2457 1.2457 1.440.00 1796.40 Aug-03 5-Aug-03 AM6 Sunny normal operation 3.4722 0.1601 1.2457 1.2457 1.2485 1.440.00 1796.60 Aug-03 11-Aug-03 AM4 Sunny normal operation 3.373 0.1601 1.2457 1.2486 1.2486 1.2486		Jul-03	30-Jul-03	AM5	Sunny	normal operation	3.5406	3.6154	0.0748	1.3509	1.3563	1.3536	3456.84	3480.84	1440.00	1949.18	38.4
Aug-03 5-Aug-03 AM2 Sunny normal operation 3.4146 3.5491 0 1345 1.2457 1.2457 1.2457 1.2457 1.2455 1.2455 1.2455 1.2457 1.2455 1.2455 1.2457 1.2457 1.2456 3819.64 1440.00 1757.23 Aug-03 5-Aug-03 AM3 Sunny normal operation 3.4293 3.5537 0.1244 1.1406 1.1368 1.1387 3778.22 3802.23 1440.00 1757.23 Aug-03 5-Aug-03 AM5 Sunny normal operation 3.4293 0.1601 1.2457 1.2465 1.2471 3819.64 1440.00 1757.23 Aug-03 5-Aug-03 Sunny normal operation 3.3396 3.4722 0.0792 1.2457 1.2485 1.2471 3819.64 1440.00 1756.51 Aug-03 11-Aug-03 AM8 Sunny normal operation 3.339 3.4722 0.0792 1.2457 1.2485 1.2471 381.348 376.489 1440.00		Jul-03	30-Jul-03	AM6	Sunny	normal operation	3.5369	3.5980	0.0611	1.3104	1.3656	1.3380	1888.45	1912.45	1440.00	1926.72	31.7
Aug-03 5-Aug-03 AM3 Sunny normal operation 3.4214 3.5620 0.1406 1.2225 1.2181 1.2203 3740.89 3764.89 1440.00 1757.23 Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 AM4 Sunny normal operation 3.4293 3.5537 0.1244 1.1406 1.368 1.3679 3778.22 3802.23 1440.60 1640.41 Aug-03 5-Aug-03 AM5 Sunny normal operation 3.3965 0.1601 1.3653 1.2457 1.2485 1.2471 3819.64 380.23 1440.00 1756.51 Aug-03 11-Aug-03 AM5 Sunny normal operation 3.339 3.4722 0.0792 1.2457 1.2485 1.2471 3843.64 1440.00 1756.51 Aug-03 11-Aug-03 AM4 Sunny normal operation 3.3731 3.4782 0.0641 1.2485 1.2016 1.208 3764.89 1440.00 1756.51 Aug-03 11-Aug-03		4ug-03	5-Aug-03	AM2	Sunny	normal operation	3,4146	3.5491	0 1345	1.2493	1.2457	1.2475	3795.64	3819.64	1440,00	1796.40	74.9
Aug-03 5-Aug-03 1.1406 1.1368 1.1387 3778.22 3802.23 1440.60 1640.41 Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 1.2457 1.2076 1.2058 1912.45 1936.45 1440.00 1756.51 Aug-03 11-Aug-03 AM2 Sunny normal operation 3.3330 3.4722 0.0792 1.2457 1.2485 1.2471 381.64.89 1440.00 1756.51 Aug-03 11-Aug-03 AM3 Sunny normal operation 3.3731 3.4782 0.0641 1.2485 1.2471 381.89 1440.00 1756.51 Aug-03 11-Aug-03 AM4 Sunny normal operation 3.3784 0.0641 1.366 1.2455 1.2471 381.28 1440.00 1793.45 Aug-03 <		4ug-03	5-Aug-03	AM3	Sunny	normal operation	3.4214	3.5620	0.1406	1.2225	1.2181	1.2203	3740.89	3764.89	1440.00	1757.23	80.0
Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 1.3563 1.3563 1.3519 3480.84 3504.85 1440.60 1947.55 Aug-03 5-Aug-03 5-Aug-03 5-Aug-03 11-Aug-03 11-2058 1912.45 1912.45 1940.00 1736.35 Aug-03 11-Aug-03 AM2 Sunny normal operation 3.3930 3.4722 0.0792 1.2457 1.2485 1.2471 3843.64 1440.00 1756.51 Aug-03 11-Aug-03 AM3 Sunny normal operation 3.3731 3.4782 0.0641 1.218 1.2015 3764.89 3764.89 1440.00 1756.51 Aug-03 11-Aug-03 AM4 Sunny normal operation 3.3731 3.4782 0.0641 1.3452 1.3509 356.485 1440.00 1728.00 Aug-03 11-Aug-03 AM5 Sunny normal operation 3.3784 0.0641 1.3486 1.340.0 1360.45 1440.00 1793.45 Aug-03 </td <td></td> <td>4ug-03</td> <td>5-Aug-03</td> <td>AM4</td> <td>Sunny</td> <td>normal operation</td> <td>3.4293</td> <td>3.5537</td> <td>0.1244</td> <td>1.1406</td> <td>1.1368</td> <td>1.1387</td> <td>3778.22</td> <td>3802.23</td> <td>1440.60</td> <td>1640.41</td> <td>75.8</td>		4ug-03	5-Aug-03	AM4	Sunny	normal operation	3.4293	3.5537	0.1244	1.1406	1.1368	1.1387	3778.22	3802.23	1440.60	1640.41	75.8
Aug-03 5-Aug-03 AM6 Sunny normal operation 3.3965 3.4996 0.1031 1.2076 1.2076 1.2058 1912.45 1912.45 1440.00 1736.35 Aug-03 11-Aug-03 Am2 Sunny normal operation 3.3930 3.4722 0.0792 1.2457 1.2485 1.2471 3819.64 3843.64 1440.00 1756.51 Aug-03 11-Aug-03 AM3 Sunny normal operation 3.3731 3.4782 0.0641 1.216 1.2015 1.2000 3802.23 3826.23 1440.00 1728.00 Aug-03 11-Aug-03 AM4 Sunny normal operation 3.3734 3.4782 0.0641 1.316 1.3509 350.485 1440.00 1728.00 Aug-03 11-Aug-03 AM6 Sunny normal operation 3.3926 0.0948 1.3478 1.3120 1.3104 1936.45 1440.00 1793.45 Aug-03 11-Aug-03 AM6 Sunny normal operation 3.3795 0.0688		4ug-03	5-Aug-03	AM5	Sunny	normal operation	3.4402	3.6003	0.1601	1.3563	1.3475	1.3519	3480.84	3504.85	1440.60	1947.55	82.2
Aug-03 11-Aug-03 AM2 Sunny normal operation 3.3930 3.4722 0.0792 1.2457 1.2485 1.2471 3819.64 3843.64 1440.00 1795.82 Aug-03 11-Aug-03 AM4 Sunny normal operation 3.3731 3.4782 0.0641 1.216 1.2015 1.2198 3764.89 3764.89 1440.00 1756.51 Aug-03 11-Aug-03 AM4 Sunny normal operation 3.3734 3.4782 0.0641 1.368 1.2015 1.2000 3802.23 3826.23 1440.00 1728.00 Aug-03 11-Aug-03 AM5 Sunny normal operation 3.3834 3.4782 0.0948 1.3472 1.369 350.485 1440.00 1886.98 Aug-03 11-Aug-03 AM6 Sunny normal operation 3.3795 3.4480 0.0685 1.2424 1.2425 3843.64 1440.00 1793.45		Aug-03	5-Aug-03	AM6	Sunny	normal operation	3.3965	3.4996	0.1031	1.2076	1.2040	1.2058	1912.45	1936.45	1440.00	1736.35	59.4
Aug-03 11-Aug-03 AMA Sunny normal operation poperation 3.3981 3.4789 0.0808 1.2181 1.215 1.2198 3764.89 3764.89 1440.00 1756.51 Aug-03 11-Aug-03 AMA Sunny normal operation operation operation 3.3784 0.0848 1.2181 1.2015 1.2016 3802.23 386.23 1440.00 1728.00 Aug-03 11-Aug-03 AMA Sunny normal operation operation 3.3834 0.0948 1.3486 1.3120 1.3104 1936.45 1440.00 1886.98 Aug-03 11-Aug-03 AMB Sunny normal operation 3.3795 0.0688 1.2485 1.2425 3843.64 1440.00 1793.45		4ng-03]	11-Aug-03	AM2	Sunny	normal operation	3.3930	3.4722	0.0792	1.2457	1.2485	1.2471	3819.64	3843.64	1440.00	1795.82	1.4
Aug-03 11-Aug-03 AM4 Sunny normal operation poperation 3.3731 3.4782 0.0641 1.1985 1.2015 1.2000 3802.23 3826.23 1440.00 1728.00 Aug-03 11-Aug-03 AM5 Sunny normal operation 3.3834 3.4782 0.0948 1.3775 1.3542 1.3569 3504.85 1440.00 1945.22 Aug-03 11-Aug-03 AM6 Sunny normal operation 3.3795 3.4480 0.0685 1.2485 1.2424 1.2455 3843.64 3867.64 1440.00 1793.45		4ug-03	11-Aug-03	AM3	Sunny	normal operation	3.3981	3.4789	0.0808	1.2181	1.2215	1.2198	3764.89	3788.89	1440.00	1756.51	46.0
Aug-03 11-Aug-03 AM5 Sunny normal operation 3.3834 3.4782 0.0948 1.3472 1.3542 1.3569 3504.85 3528.85 1440.00 1945.22 Aug-03 11-Aug-03 AM6 Sunny normal operation 3.3795 3.4480 0.0685 1.2485 1.2424 1.2455 3843.64 3867.64 1440.00 1793.45		4ug-03	11-Aug-03	AM4	Sunny	normal operation	3.3731	3.4372	0.0641	1.1985	1.2015	1.2000	3802.23	3826.23	1440.00	1728.00	37.1
Aug-03 11-Aug-03 AM6 Sunny normal operation 3.3926 3.4484 0.0568 1.3088 1.3120 1.3104 1936.45 1940.00 1440.00 1886.98 Aug-03 16-Aug-03 AM2 Sunny normal operation 3.3795 3.4480 0.0685 1.2485 1.2424 1.2455 3843.64 3867.64 1440.00 1793.45		4ug-03	11-Aug-03	AM5	Sunny	normal operation	3.3834	3.4782	0.0948	1.3475	1.3542	1.3509	3504.85	3528.85	1440.00	1945.22	48.7
Aug-03 16-Aug-03 AM2 Sunny normal operation 3.3795 3.4480 0.0685 1.2485 1.2424 1.2455 3843.64 3867.64 1440.00 1793.45		4ug-03	11-Aug-03	AM6	Sunny	normal operation	3.3926	3.4494	0.0568	1.3088	1.3120	1.3104	1936.45	1960.45	1440.00	1886.98	30.1
		4ug-03	16-Aug-03	AM2	Sunny	normal operation	3.3795	3.4480	0.0685	1.2485	1.2424	1.2455	3843.64	3867.64	1440.00	1793.45	38.2

<u> </u>	Receptor	Weather	Site	Filter We	elght (g)	TSP	Flow Rate	Flow Rate (m³/min)	Average Flow	Elaps	Elapse Time	Sampling	Total	24-hour TSP
No.		condition	condition	Initial	Final	weight (g)	Initial	Final	Rate (m³/min)	Start	Flnish	Time (mlns.)	vol. (m³)	Level (µg/m³)
AM3	3	Sunny	normal operation	3.3902	3.4627	0.0725	1.2215	1.2141	1.2178	3788.89	3812.89	1440.00	1753.63	41.3
AM4	4		normal operation	3.3855	3.4639	0.0784	1.3252	1 2561	1.2907	3826.23	3850.23	1440.00	1858,54	42.2
AM5	5	Sunny	normal operation	3.3768	3.4800	0.1032	1.3542	1.3394	1.3468	3528.85	3552.85	1440.00	1939.39	53.2
AM6	9	Sunny	normal operation	3.3775	3.4329	0.0554	1.3120	1.2790	1.2955	1960.45	1984 45	1440.00	1865.52	29.7
AM2	2	Sunny	normal operation	3.3911	3.4527	0.0616	1.2438	1,2505	1.2472	3867.64	3891.64	1440.00	1795.90	34.3
AM3	<u></u>	Sunny	normal operation	3.3827	3.4482	0.0655	1.2158	1.2239	1.2199	3812.89	3836.89	1440.00	1756.58	37.3
AM4	4	Sunny	normal operation	3.3537	3.4066	0.0529	1.1349	1.1418	1.1384	3850.23	3874.23	1440.00	1639.22	32.3
AM5	15	Sunny	normal operation	3.3798	3.4628	0.0830	1.3428	1.3591	1.3510	3552.85	3576.85	1440.00	1945.37	42.7
AM6	9		normal operation	3.3843	3,4492	0.0649	1.3590	1.3669	1.3630	1984.45	2008.45	1440.00	1962.65	33.1
AM2	2	_	normal operation	3.5628	3.6468	0.0840	1.2505	1.2501	1.2503	3891.64	3915.64	1440.00	1800.43	46.7
AM3	43	Cloudy	normal operation	3.5397	3.6227	0.0830	1.2239	1.2235	1.2237	3836.89	3860.89	1440.00	1762.13	47.1
₹	AM4	Cloudy	normal operation	3,5543	3.6416	0.0873	1.2967	1,2963	1.2965	3874.23	3898.23	1440.00	1866.96	46.8
₹	AM5	Cloudy	normal operation	3.4015	3.5119	0.1104	1.3591	1.3583	1.3587	3576.85	3600.85	1440.00	1956.53	56.4
₹	AM6	Cloudy r	normal operation	3.3776	3.4763	0.0987	1.2615	1.2611	1.2613	2008.45	2032.45	1440.00	1816.27	£.3
¥	M2		normal operation	3.3867	3.4354	0.0487	1.2501	1.2505	1.2503	3915.64	3939.64	1440.00	1800.43	27.0
AM3	<u>n</u>		normal operation	3.4186	3.4617	0.0431	1.2235	1.2239	1,2237	3860.89	3884.89	1440.00	1762.13	24.5
¥	AM4		normal operation	3.4186	3.4676	0.0490	1.3272	1.3277	1.3275	3898.23	3922.22	1439.40	1910.73	25.6
₹	AM5	Fine	normal operation	3.4162	3.4640	0.0478	1.3583	1.3591	1.3587	3600.85	3624.85	1440.00	1956.53	24.4
₹	AM6	Fine	normal operation	3,4185	3.4571	0.0386	1.2875	1.2879	1.2877	2032.45	2056.45	1440.00	1854.29	20.8
7	AM2	Cloudy	normal operation	3.3616	3.5961	0.2345	1.2749	1.2810	1.2780	3963.64	3987.64	1440.00	1840.25	127.4
AM3	43		normal operation	3.3724	3.6000	0.2276	1.1805	1.1886	1.1846	3908.89	3932.89	1440.00	1705.75	133.4
₹	AM4		normal operation	3.4145	3.6547	0.2402	1.3705	1.3792	1.3749	3946.22	3970.22	1440.00	1979.78	121.3
₹	AM5		normal operation	3.3741	3.6347	0.2606	1.5798	1.5949	1.5874	3648.85	3672.85	1440.00	2285.78	114.0
₹	AM6		normal operation	3.3794	3.6030	0.2236	1.2551	1.2632	1.2592	2080.45	2104.45	1440.00	1813.18	123.3
₹	AM2	_	normal operation	3.4042	3.4349	0.0307	1.3243	1 3207	1.3225	3987.64	4011.64	1440.00	1904.40	16.1
⋖	AM3		normal operation	3.4072	3,4345	0.0273	1.1886	1.1841	1.1864	3932.89	3956.89	1440.00	1708.34	16.0
⋖	AM4	_	normal operation	3.3962	3.4242	0.0280	1.3246	1.3201	1.3224	3970.22	3994.22	1440.00	1904.18	14.7
⋖.	AM5		normal operation	3.4059	3.4275	0.0216	1.3631	1.3559	1.3595	3672.85	3696.85	1440.00	1957.68	11.0
-	AM6	Sunny	normal operation	3.4056	3.4419	0.0363	1.2632	1.2587	1.2610	2104.45	2128.45	1440.00	1815.77	20.0
Q.	AM2	Sunny	normal operation	3.5078	3.6645	0.1567	1.3207	1.3246	1.3227	4011.64	4035.64	1440.00	1904.62	82.3
Q.	AM3	Sunny	normal operation	3,4661	3.6364	0.1703	1,1841	1.1890	1.1866	3956.89	3980.89	1440.00	1708.63	7.66
ď	AM4	Sunny	normal operation	3.4768	3.6531	0.1763	1.3201	1.3250	1.3226	3994.22	4018.23	1440.60	1905.27	92.5
_	AM5	Sunny	normal operation	3.4966	3.6860	0.1894	1.5480	1.5569	1.5525	3696.85	3720.85	1440.00	2235.53	84.7
•	AM6	Sunny	normal operation	3.5006	3.6531	0.1525	1.3122	1.3174	1.3148	2128.45	2152.47	1441.20	1894.89	80.5
	AM2	Sunny	normal operation	3.4941	3.5741	0.0800	1.3246	1.3187	1.3217	4035.64	4059.64	1440.00	1903.18	42.0
	AM3	Sunny	normal operation	3,4863	3.5657	0.0794	1.1890	1.1817	1 1854	3980.89	4004.89	1440.00	1706 90	46.5

	_	_	_	
24-hour TSP	Level (ua/m³)	40.0	317	42.6
Total	vol. (m³)	1863.50	2176.99	1852.92
Sampling	Time (mins.)	1440.00	1440.00	1440.00
Elapse Time	Finish	4018.23 4042.23	3744.85	2152.47 2176.47
	Start	4018.23	3720.85	2152.47
Average Flow	Rate (m³/min)	1.2941	1.5118	1.2868
Flow Rate (m³/min)	Final	1,2905	1.5053	1.2830
Flow Rate	Initial	1.2977	1.5183	1.2905
TSP	weight (g)	0.0745	0.0690	0.0789
/eight (g)	Final	3.5827	3,5839	3.4515
Filter W	InItial	3.5082	3.5149	3.3726
Site	condition	Sunny normal operation 3.5082	normal operation 3.5149	Sunny Normal operation 3.3726
Receptor Weather	condition	Sunny	Sunny	Sunny
Receptor	No.	AM4	AM5	AM6
	Date	EP54 Sep-03 26-Sep-03	Sep-03 26-Sep-03	Sep-03 26-Sep-03
	Month	Sep-03	Sep-03	Sep-03
	Filter No. Month	EP54	EP55	EP56

APPENDIX 3

1-hour TSP Monitoring Results for July 2003 to September 2003

		Receptor		Time r	eriods	Weather	Site	Temp.	Pressure	1-hour TSP
Month	Date	No.	Set No.	Start	Finish	condition	condition	(°C)	(mmHg)	Level (μg/g ³)
Jul-03	2-Jul-03	AM2	1	8:50	9:50	Sunny	normal operation	31.0	761.0	106.3
Jul-03	2-Jul-03	AM2	2	9:10	10:10	Sunny	normal operation	31.0	761.0	110.7
Jul-03	2-Jul-03	AM2	3	10:50	11:50	Sunny	normal operation	31.0	761.0	126.3
Jul-03	2-Jul-03	AM3	1	8:12	9:12	Sunny	normal operation	31.0	761.0	160.0
Jul-03	2-Jul-03	AM3	2	9:12	10:12	Sunny	normal operation	31.0	761.0	158.5
Jul-03 Jul-03	2-Jul-03 2-Jul-03	AM3 AM4	3 1	10: 1 2 8:16	11:12 9:16	Sunny	normal operation	31.0	761.0	176.0
Jul-03 Jul-03	2-Jul-03 2-Jul-03	AM4	2	9:16	10:16	Sunny Sunny	normal operation	31.0 31.0	761.0 761.0	107.3 104.1
Jul-03	2-Jul-03	AM4	3	10: 1 6	11:16	Sunny	normal operation	31.0	761.0	137.6
Jul-03	2-Jul-03	AM5	1	8:19	9:19	Sunny	normal operation	31.0	761.0	106.3
Jul-03	2-Jul-03	AM5	2	9:19	10:19	Sunny	normal operation	31.0	761.0	105.5
Jul-03	2-Jul-03	AM5	3	10:19	11:19	Sunny	normal operation	31.0	761.0	137.7
Jul-03	2-Jul-03	AM6	1	8:17	9:17	Sunny	normal operation	31.0	761.0	136.9
Jul-03	2-Jul-03	AM6	2	9:17	10:17	Sunny	normal operation	31.0	761.0	136.4
Jul-03	2-Jul-03	AM6	3	10:17	11:17	Sunny	normal operation	31.0	761.0	160.8
Jul-03	9-Jul-03	AM2	1	9:02	10:02	Sunny	normal operation	32.0	758.0	154.6
Jul-03	9-Jul-03	AM2	2	10:02	11:02	Sunny	normal operation	32.0	758.0	142.1
Jul-03	9-Jul-03	AM2	3	11:02	12:02	Sunny	normal operation	32.0	758.0	146.8
Jul-03	9-Jul-03	AM3	1	9:07	10:07	Sunny	normal operation	32.0	758.0	151.7
Jul-03	9-Jul-03	AM3	2	10:07	11:07	Sunny	normal operation	32.0	758.0	114.6
Jul-03 Jul-03	9-Jul-03 9-Jul-03	AM3	. 3 1	11:07	12:07	Sunny	normal operation	32.0	758.0	127.6
Jul-03 Jul-03	9-Jul-03 9-Jul-03	AM4 AM4	2	8:53 9:53	9:53 10:53	Sunny Sunny	normal operation	32.0 32.0	758.0 758.0	185.9 163.2
Jul-03	9-Jul-03	AM4	3	10:53	11:53	Sunny	normal operation	32.0	758.0	164.1
Jul-03	9-Jul-03	AM5	1	9:06	10:06	Sunny	normal operation	32.0	758.0	196.3
Jul-03	9-Jul-03	AM5	2	10:06	11:06	Sunny	normal operation	32.0	758.0	175.4
Jul-03	9-Jul-03	AM5	3	11:06	12:06	Sunny	normal operation	32.0	758.0	175.9
Jul-03	9-Jul-03	AM6	1	8:58	9:58	Sunny	normal operation	32.0	758.0	172.4
Jul-03	9-Jul-03	AM6	2	9:58	10:58	Sunny	normal operation	32.0	758.0	148.7
Jul-03	9-Jul-03	AM6	3	10:58	11:58	Sunny	normal operation	32.0	758.0	152.8
Jul-03	16-Jul-03	AM2	1	8:22	9:22	Sunny	normal operation	30.0	760.0	118.5
Jul-03	16-Jul-03	AM2	2	9:22	10:22	Sunny	normal operation	30.0	760.0	118.5
Jul-03	16-Jul-03	AM2	3	10:22	11:22	Sunny	normal operation	30.0	760.0	123.7
Jul-03	16-Jul-03	AM3	1	8:22	9:22	Sunny	normal operation	30.0	760.0	155.6
Jul-03 Jul-03	16-Jนl-03 16-Jul-03	AM3 AM3	2 3	9:22 10:22	10:22 11:22	Sunny	normal operation	30.0	760.0	152.6
Jul-03	16-Jul-03	AM4	1	8:21	9:21	Sunny Sunny	normal operation normal operation	30.0 30.0	760.0 760.0	155.7 139.4
Jul-03	16-Jul-03	AM4	2	9:21	10:21	Sunny	normal operation	30.0	760.0	142.5
Jul-03	16-Jul-03	AM4	3	10:21	11:21	Sunny	normal operation	30.0	760.0	140.4
Jul-03	16-Jul-03	AM5	1	8:13	9:13	Sunny	normal operation	30.0	760.0	164.8
Jul-03	16-Jul-03	AM5	2	9:13	10:13	Sunny	normal operation	30.0	760.0	163.7
Jul-03	16-Jul-03	AM5	3	10:13	11:13	Sunny	normal operation	30.0	760.0	163.9
Jul-03	16-Jul-03	AM6	1	8:15	9:15	Sunny	normal operation	30.0	760.0	113.7
Jul-03	16-Jul-03	AM6	2	9:15	10:15	Sunny	normal operation	30.0	760.0	111.9
Jul-03	16-Jul-03	AM6	3	10:15	11:15	Sunny	normal operation	30.0	760.0	120.5
Jul-03	22-Jul-03	AM2	1	8:17	9:17	Sunny	normal operation	30.0	760.0	141.5
Jul-03	22-Jul-03	AM2	2	9:17	10:17	Sunny	normal operation	30.0	760.0	140.1
Jul-03 Jul-03	22-Jul-03 22-Jul-03	AM2 AM3	3 1	10:17 8:25	11:17 0:25	Sunny	normal operation	30.0	760.0	129.9
Jul-03 Jul-03	22-Jul-03 22-Jul-03	AM3	2	9:25	9:25 10:25	Sunny Sunny	normal operation normal operation	30.0 30.0	760.0 760.0	146.4 143.5
Jul-03	22-Jul-03 22-Jul-03	AM3	3	9.25 10:25	11:25	Sunny	normal operation	30.0	760.0 760.0	143.5
Jul-03	22-Jul-03	AM4	1	8:06	9:06	Sunny	normal operation	30.0	760.0 760.0	182.5
Jul-03	22-Jul-03	AM4	2	9:06	10:06	Sunny	normal operation	30.0	760.0	180.3
Jul-03	22-Jul-03	AM4	3	10:06	11:06	Sunny	normal operation	30.0	760.0	175.1
Jul-03	22-Jul-03	AM5	1	8:21	9:21	Sunny	normal operation	30.0	760.0	171.6
Jul-03	22-Jul-03	AM5	2	9:21	10:21	Sunny	normal operation	30.0	760.0	166.6
Jul-03	22-Jul-03	AM5	3	10:21	11.21	Sunny	normal operation	30.0	760.0	165.3
Jul-03	22-Jul-03	AM6	1	8:42	9:42	Sunny	normal operation	30.0	760.0	137.3
Jul-03	22-Jul-03	AM6	2	9:42	10:42	Sunny	normal operation	30.0	760.0	135.8
Jul-03 Jul-03	22-Jul-03	AM6	3	10:42	11:42	Sunny	normal operation	30.0	760.0	157.6
Jul-03 Jul-03	25-Jul-03 25-Jul-03	AM2 AM2	1 2	8:17 9:17	9:17 10:17	Sunny	normal operation	30.0	760.0	92.5
Jul-03 Jul-03	25-Jul-03	AM2	3	9:17 10:17	11:17	Sunny Sunny	normal operation normal operation	30.0 30.0	760.0 760.0	91.0 133.5
Jul-03	25-Jul-03	AM3	1	7:22	8:22	Sunny	normal operation	30.0	760.0	168.8
Jul-03	25-Jul-03	AM3	2	8:22	9:22	Sunny	normal operation	30.0	760.0	171.6

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		Receptor	<u> </u>	Time r	periods	Weather	Site	Temp.	Pressure	1-hour TSP
Month	Date	No.	Set No.	Start	Finish	condition	condition	(°C)	(mmHg)	Level (μg/g³)
Jul-03	25-Jul-03	AM3	3	9:22	10:22	Sunny	normal operation	30.0	760.0	182.6
Jul-03	25-Jul-03	AM4	1	7:42	8:42	Sunny	normal operation	30.0	760.0	97.0
Jul-03 Jul-03	25-Jul-03 25-Jul-03	AM4 AM4	2 3	8:42 9:42	9:42 10:42	Sunny Sunny	normal operation normal operation	30.0 30.0	760.0 760.0	97.6 136.1
Jul-03	25-Jul-03 25-Jul-03	AM5	1	9.42 7:30	8:30	Sunny	normal operation	30.0	760.0 760.0	174.6
Jul-03	25-Jul-03	AM5	2	8:30	9:30	Sunny	normal operation	30.0	760.0	174.6
Jul-03	25-Jul-03	AM5	3	9:30	10:30	Sunny	normal operation	30.0	760.0	184.6
Jul-03	25-Jul-03	AM6	1	7:37	8:37	Sunny	normal operation	30.0	760.0	97.0
Jul-03	25-Jul-03	AM6	2	8:37	9:37	Sunny	normal operation	30.0	760.0	101.7
Jul-03	25-Jul-03	AM6	3	9:37	10:37	Sunny	normal operation	30.0	760.0	131.2
Jul-03	31-Jul-03	AM2	1	8:23	9:23	Sunny	normal operation	31.0	760.0	91.0
Jul-03 Jul-03	31-Jul-03 31-Jul-03	AM2 AM2	2	9:23 10:23	10:23 11:23	Sunny Sunny	normal operation normal operation	31.0 31.0	760.0 760.0	91.7 108.9
Jul-03	31-Jul-03	AM3	1	8:16	9:16	Sunny	normal operation	31.0	760.0	172.4
Jul-03	31-Jul-03	AM3	2	9:16	10:16	Sunny	normal operation	31.0	760.0	173.3
Jul-03	31-Jul-03	AM3	3	10:16	11:16	Sunny	normal operation	31.0	760.0	176.9
Jul-03	31-Jul-03	AM4	1	8:25	9:25	Sunny	normal operation	31.0	760.0	108.6
Jul-03	31-Jul-03	AM4	2	9:25	10:25	Sunny	normal operation	31.0	760.0	113.7
Jul-03	31-Jul-03	AM4	3	10:25	11:25	Sunny	normal operation	31.0	760.0	124.2
Jul-03	31-Jul-03	AM5	1	8:20	9:20	Sunny	normal operation	31.0	760.0	132.7
Jul-03	31-Jul-03	AM5	2	9:20	10:20	Sunny	normal operation	31.0	760.0	114.0
Jul-03 Jul-03	31-Jul-03 31-Jul-03	AM5 AM6	3	10:20 8:36	11:20 9:36	Sunny	normal operation normal operation	31.0 31.0	760.0 760.0	137.3 110.2
Jul-03	31-Jul-03	AM6	2	9:36	10:36	Sunny Sunny	normal operation	31.0	760.0	10.2 105.5
Jul-03	31-Jul-03	AM6	3	10:36	11:36	Sunny	normal operation	31.0	760.0	121.2
Aug-03	6-Aug-03	AM2	1	8:02	9:02	Sunny	normal operation	32.0	756.0	173.8
Aug-03	6-Aug-03	AM2	2	9:02	10:02	Sunny	normal operation	32.0	756.0	167.9
Aug-03	6-Aug-03	AM2	3	10:02	11:02	Sunny	normal operation	32.0	756.0	169.8
Aug-03	6-Aug-03	AM3	1 1	8:47	9:47	Sunny	normal operation	32.0	756.0	242.8
Aug-03	6-Aug-03	AM3	2	9:47	10:47	Sunny	normal operation	32.0	756.0	216.5
Aug-03	6-Aug-03	AM3	3	10:47	11:47	Sunny	normal operation	32.0	756.0	221.9
Aug-03 Aug-03	6-Aug-03 6-Aug-03	AM4 AM4	1 2	8:31 9:31	9:31 10:31	Sunny	normal operation	32.0 32.0	756.0 756.0	210.3 177.0
Aug-03	6-Aug-03	AM4	3	10:31	11:31	Sunny Sunny	normal operation normal operation	32.0	756.0 756.0	184.9
Aug-03	6-Aug-03	AM5	1	8:49	9:49	Sunny	normal operation	32.0	756.0	205.4
Aug-03	6-Aug-03	AM5	2	9:49	10:49	Sunny	normal operation	32.0	756.0	203.7
Aug-03	6-Aug-03	AM5	3	10:49	11:49	Sunny	normal operation	32.0	756.0	236.1
Aug-03	6-Aug-03	AM6	1	8:03	9:03	Sunny	normal operation	32.0	756.0	147.8
Aug-03	6-Aug-03	AM6	2	9:03	10:03	Sunny	normal operation	32.0	756.0	137.7
Aug-03	6-Aug-03	AM6	3	10:03	11:03	Sunny	normal operation	32.0	756.0	138.9
Aug-03 Aug-03	12-Aug-03 12-Aug-03	AM2	1	8:04	9:04	Sunny	normal operation	30.0	756.0	173.9
Aug-03	12-Aug-03 12-Aug-03	AM2 AM2	2 3	9:04 10:04	10:04 11:04	Sunny Sunny	normal operation normal operation	30.0 30.0	756.0 756.0	170.3 172.2
Aug-03	12-Aug-03	AM3	1	8:19	9:19	Sunny	normal operation	30.0	756.0	122.6
Aug-03	12-Aug-03	AM3	2	9:24	10:24	Sunny	normal operation	30.0	756.0	125.2
Aug-03	12-Aug-03	АМ3	3	10:24	11:24	Sunny	normal operation	30.0	756.0	140.2
Aug-03	12-Aug-03	AM4	1	8:05	9:05	Sunny	normal operation	30.0	756.0	162.0
Aug-03	12-Aug-03	AM4	2	9:05	10:05	Sunny	normal operation	30.0	756.0	159.5
Aug-03	12-Aug-03	AM4	3	10:05	11:05	Sunny	normal operation	30.0	756.0	155.2
Aug-03 Aug-03	12-Aug-03 12-Aug-03	AM5 AM5	1	8:26	9:26	Sunny	normal operation	30.0	756.0	139.9
Aug-03	12-Aug-03 12-Aug-03	AM5 AM5	2 3	9:26 10:31	10:26 11:31	Sunny Sunny	normal operation normal operation	30.0 30.0	756.0 756.0	133.0 136.0
Aug-03	12-Aug-03	AM6	1	8:21	9:21	Sunny	normal operation	30.0	756.0 756.0	129.9
Aug-03	12-Aug-03	AM6	2	9:21	10:21	Sunny	normal operation	30.0	756.0	131.7
Aug-03	12-Aug-03	AM6	3	10:21	11:21	Sunny	normal operation	30.0	756.0	126.6
Aug-03	20-Aug-03	AM2	1	8:22	9:22	Sunny	normal operation	32.0	750.0	171.7
Aug-03	20-Aug-03	AM2	2	9:22	10:22	Sunny	normal operation	32.0	750.0	156.1
Aug-03	20-Aug-03	AM2	3	10:22	11:22	Sunny	normal operation	32.0	750.0	141.1
Aug-03	20-Aug-03	AM3	1	8:14	9:14	Sunny	normal operation	32.0	750.0	174.2
Aug-03 Aug-03	20-Aug-03 . 20-Aug-03 .	AM3 AM3	2 3	9:14 10:14	10:14	Sunny	normal operation	32.0	750.0	156.6
Aug-03	20-Aug-03 20-Aug-03	AM4	1	8:16	11:14 9:16	Sunny Sunny	normal operation normal operation	32.0 32.0	750.0 750.0	139.9 175.7
Aug-03	20-Aug-03	AM4	2	9:16	10:16	Sunny	normal operation	32.0	750.0 750.0	160.8
Aug-03	20-Aug-03	AM4	3	10:16	11:16	Sunny	normal operation	32.0	750.0	145.8
Aug-03	20-Aug-03	AM5	1	8:21	9:21	Sunny	normal operation	32.0	750.0	212.3

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		Receptor	·	Time p	eriods	Weather	Site	Temp.	Pressure	1-hour TSP
Month	Date	No.	Set No.	Start	Finish	condition	condition	(°C)	(mmHg)	Level (μg/g³)
Aug-03	20-Aug-03	AM5	2	9:21	10:21	Sunny	normal operation	32.0	750.0	202.3
Aug-03	20-Aug-03	AM5	3	10:21	11:21	Sunny	normal operation	32.0	750.0	193.6
Aug-03 Aug-03	20-Aug-03 20-Aug-03	AM6 AM6	1	8:06	9:06	Sunny	normal operation	32.0	750.0	207.5
Aug-03 Aug-03	20-Aug-03 20-Aug-03	AM6	2 3	9:06 10:06	10:06 11:06	Sunny Sunny	normal operation	32.0 32.0	750.0 750.0	196.1 187.2
Aug-03	27-Aug-03	AM2	1	8:39	9:39	Sunny	normal operation	29.0	750.0 757.0	213.7
Aug-03	27-Aug-03	AM2	2	9:39	10:39	Sunny	normal operation	29.0	757.0	195.6
Aug-03	27-Aug-03	AM2	3	10:39	11:39	Sunny	normal operation	29.0	757.0	187.9
Aug-03	27-Aug-03	AM3	1	8:38	9:38	Sunny	normal operation	29.0	757.0	120.7
Aug-03	27-Aug-03	AM3	2	9:38	10:38	Sunny	normal operation	29.0	757.0	130.9
Aug-03	27-Aug-03	AM3	3	10:38	11:38	Sunny	normal operation	29.0	757.0	157.0
Aug-03	27-Aug-03	AM4	1	8:44	9:44	Sunny	normal operation	29.0	757.0	233.7
Aug-03	27-Aug-03	AM4	2	9:44	10:44	Sunny	normal operation	29.0	757.0	216.6
Aug-03	27-Aug-03	AM4	3	10:44	11:44	Sunny	normal operation	29.0	757.0	207.8
Aug-03	27-Aug-03	AM5	1	8:13	9:13	Sunny	normal operation	29.0	757.0	164.8
Aug-03 Aug-03	27-Aug-03 27-Aug-03	AM5 AM5	2 3	9:13 10:13	10:13	Sunny	normal operation	29.0	757.0	163.7
Aug-03	27-Aug-03 27-Aug-03	AM6	1 1	8:27	11:13 9:27	Sunny Sunny	normal operation normal operation	29.0 29.0	757.0 757.0	163.9 116.2
Aug-03	27-Aug-03 27-Aug-03	AM6	2	9:27	10:27	Sunny	normal operation	29.0 29.0	757.0 757.0	104.3
Aug-03	27-Aug-03	AM6	3	10:27	11:27	Sunny	normal operation	29.0	757.0	132.7
Sep-03	3-Sep-03	AM2	1	13:03	14:03	Cloudy	normal operation	28.0	754.0	156.9
Sep-03	3-Sep-03	AM2	2	14:03	15:03	Cloudy	normal operation	28.0	754.0	143.0
Sep-03	3-Sep-03	AM2	3	15:03	16:03	Cloudy	normal operation	28.0	754.0	137.3
Sep-03	3-Sep-03	AM3	1	13:01	14:01	Cloudy	normal operation	28.0	754.0	155.9
Sep-03	3-Sep-03	AM3	2	14:01	15:01	Cloudy	normal operation	28.0	754.0	136.2
Sep-03	3-Sep-03	AM3	3	15:01	16:01	Cloudy	normal operation	28.0	754.0	130.5
Sep-03	3-Sep-03	AM4	1	13:05	14:05	Cloudy	normal operation	28.0	754.0	161.0
Sep-03 Sep-03	3-Sep-03 3-Sep-03	AM4 AM4	2 3	14:05	15:05	Cloudy	normal operation	28.0	754.0	128.8
Sep-03	3-Sep-03	AM5	1	15:05 13:03	16:05 14:03	Cloudy Cloudy	normal operation normal operation	28.0 28.0	754.0 754.0	132.0 194.9
Sep-03	3-Sep-03	AM5	2	14:03	15:03	Cloudy	normal operation	28.0	754.0 754.0	185.2
Sep-03	3-Sep-03	AM5	3	15:03	16:03	Cloudy	normal operation	28.0	754.0 754.0	184.8
Sep-03	3-Sep-03	AM6	1	13:05	14:05	Cloudy	normal operation	28.0	754.0	160.7
Sep-03	3-Sep-03	AM6	2	14:05	15:05	Cloudy	normal operation	28.0	754.0	136.8
Sep-03	3-Sep-03	AM6	3	15:05	16:05	Cloudy	normal operation	28.0	754.0	135.8
Sep-03	5-Sep-03	AM2	1	8:10	9:10	fine	normal operation	29.0	757.0	190.3
Sep-03	5-Sep-03	AM2	2	9:10	10:10	fine	normal operation	29.0	757.0	184.9
Sep-03	5-Sep-03	AM2	3	10:10	11:10	fine	normal operation	29.0	757.0	182.7
Sep-03 : Sep-03 :	5-Sep-03 5-Sep-03	AM3	1 1	8:05	9:05	fine	normal operation	29.0	757.0	181.7
Sep-03	5-Sep-03 5-Sep-03	AM3 AM3	2 3	9:05 10:05	10:05 11:05	fine fine	normal operation	29.0 29.0	757.0 757.0	175.0 176.3
Sep-03	5-Sep-03	AM4	1	8:25	9:25	fine	normal operation	29.0 29.0	757.0 757.0	133.3
Sep-03	5-Sep-03	AM4	2	9:25	10:25	fine	normal operation	29.0	757.0	116.8
Sep-03	5-Sep-03	AM4	3	10:25	11:25	fine	normal operation	29.0	757.0	116.6
Sep-03	5-Sep-03	AM5	1	8:04	9:04	fine	normal operation	29.0	757.0	124.4
Sep-03	5-Sep-03	AM5	2	9:04	10:04	fine	normal operation	29.0	757.0	110.9
Sep-03	5-Sep-03	AM5	3	10:04	11:04	fine	normal operation	29.0	757.0	100.5
Sep-03	5-Sep-03	AM6	1	8:11	9:11	fine	normal operation	29.0	757.0	135.3
Sep-03	5-Sep-03	AM6	2	9:11	10:11	fine	normal operation	29.0	757.0	121.6
Sep-03 Sep-03	5-Sep-03 11-Sep-03	AM6 AM2	3	10:11	11:11	fine	normal operation	29.0	757.0	118.9
Sep-03	11-Sep-03	AM2 AM2	1 2	8:58 9:58	9:58 10:58	fine fine	normal operation normal operation	30.0 30.0	756.0 756.0	193.5 192.9
Sep-03	11-Sep-03	AM2	3	10:58	11:58	fine	normal operation	30.0	756.0 756.0	192.9
Sep-03	11-Sep-03	AM3	1	8:59	9:59	fine	normal operation	30.0	756.0	173.5
Sep-03	11-Sep-03	AM3	2	9:59	10:59	fine	normal operation	30.0	756.0	174.7
Sep-03	11-Sep-03	АМЗ	3	10:59	11:59	fine	normal operation	30.0	756.0	182.4
Sep-03	11-Sep-03	AM4	1	8:57	9:57	fine	normal operation	30.0	756.0	210.3
Sep-03	11-Sep-03	AM4	2	9:57	10:57	fine	normal operation	30.0	756.0	210.0
Sep-03	11-Sep-03	AM4	3	10:57	11:57	fine	normal operation	30.0	756.0	216.4
Sep-03	11-Sep-03	AM5	1	13:01	14:01	fine	normal operation	30.0	756.0	228.0
Sep-03	11-Sep-03	AM5	2	14:01	15:01	fine	normal operation	30.0	756.0	238.5
Sep-03 Sep-03	11-Sep-03 11-Sep-03	AM5 AM6	3	15:01	16:01	fine	normal operation	30.0	756.0	235.3
Sep-03	11-Sep-03	AM6	2	13:01 14:01	14:01 15:01	fine fine	normal operation normal operation	30.0 30.0	756.0 756.0	250.8 259.7
Sep-03	11-Sep-03	AM6	3	15:01	16:01	fine	normal operation	30.0	756.0	259.7 247.7
	ect\23156\env				. 0.01			J. U.	, 50.0	F-11.1

G:\env\project\23156\env_data\dust\Dust 1-hr TSP Data\Data

Month Date Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM2 AM3 AM3 AM3 AM4 AM4 AM4 AM4 AM5	Set No. 1 2 3 1 2 3 1 2 3 1 2 3 1	8:31 9:31 10:31 8:15 9:15 10:15 8:27 9:27 10:27	9:31 10:31 11:31 9:15 10:15 11:15 9:27 10:27	condition Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	condition normal operation	(°C) 30.0 30.0 30.0 30.0 30.0 30.0	(mmHg) 756.5 756.5 756.5 756.5 756.5 756.5	196.5 184.5 165.7 225.9 214.7
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM2 AM3 AM3 AM3 AM4 AM4 AM4 AM4 AM5	2 3 1 2 3 1 2 3 1 2	9:31 10:31 8:15 9:15 10:15 8:27 9:27	10:31 11:31 9:15 10:15 11:15 9:27	Sunny Sunny Sunny Sunny Sunny	normal operation normal operation normal operation normal operation	30.0 30.0 30.0 30.0	756.5 756.5 756.5 756.5	184.5 165.7 225.9
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM2 AM3 AM3 AM4 AM4 AM4 AM5 AM5	3 1 2 3 1 2 3 1	10:31 8:15 9:15 10:15 8:27 9:27	11:31 9:15 10:15 11:15 9:27	Sunny Sunny Sunny Sunny	normal operation normal operation normal operation	30.0 30.0 30.0	756.5 756.5 756.5	165.7 225.9
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM3 AM3 AM4 AM4 AM4 AM4 AM5	1 2 3 1 2 3 1	8:15 9:15 10:15 8:27 9:27	9:15 10:15 11:15 9:27	Sunny Sunny Sunny	normal operation normal operation	30.0 30.0	756.5 756.5	225.9
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM3 AM3 AM4 AM4 AM4 AM5	2 3 1 2 3 1	9:15 10:15 8:27 9:27	10:15 11:15 9:27	Sunny Sunny	normal operation	30.0	756.5	
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM3 AM4 AM4 AM4 AM5 AM5	3 1 2 3 1	10:15 8:27 9:27	11:15 9:27	Sunny				214.7
Sep-03	AM4 AM4 AM4 AM5 AM5	1 2 3 1	8:27 9:27	9:27	,	normal operation	30 N	1 756 5	
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM4 AM4 AM5 AM5	2 3 1	9:27		l Sunnv				197.0
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM4 AM5 AM5	3 1		L 10:27	,	normal operation	30.0	756.5	203.0
Sep-03 19-Sep-03 Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM5 AM5	1	10:27		Sunny	normal operation	30.0	756.5	187.4
Sep-03 19-Sep-03 Sep-03 19-Sep-03	AM5			11:27	Sunny	normal operation	30.0	756.5	170.8
Sep-03 19-Sep-03			8:44	9:44	Sunny	normal operation	30.0	756.5	193.9
	I AIVIO	2 3	9:44	10:44	Sunny	normal operation	30.0	756.5	181.3
Sep-03 19-Sep-03	AM6	1	10:44 8:21	11:44 9:21	Sunny	normal operation	30.0	756.5	159.6
Sep-03 19-Sep-03		2	9:21	10:21	Sunny Sunny	normal operation	30.0	756.5 756.5	203.2 189.9
Sep-03 19-Sep-03		3	10:21	11:21	Sunny	normal operation normal operation	30.0 30.0	756.5 756.5	174.2
Sep-03 24-Sep-03		1 1	8:52	9:52	Sunny	normal operation	26.0	758.0	174.2
Sep-03 24-Sep-03	AM2	2	9:52	10:52	Sunny	normal operation	26.0	758.0	172.2
Sep-03 24-Sep-03	AM2	3	10:52	11:52	Sunny	normal operation	26.0	758.0	169.8
Sep-03 24-Sep-03		l ĭ	8:47	9:47	Sunny	normal operation	26.0	758.0	150.4
Sep-03 24-Sep-03		2	9:47	10:47	Sunny	normal operation	26.0	758.0	138.6
Sep-03 24-Sep-03		3	10:47	11:47	Sunny	normal operation	26.0	758.0	136.5
Sep-03 24-Sep-03	AM4	1	8:49	9:49	Sunny	normal operation	26.0	758.0	132.6
Sep-03 24-Sep-03	AM4	2	9:49	10:49	Sunny	normal operation	26.0	758.0	147.2
Sep-03 24-Sep-03	AM4	3	10:49	11:49	Sunny	normal operation	26.0	758.0	163.0
Sep-03 24-Sep-03	AM5	1 1	8:49	9:49	Sunny	normal operation	26.0	758.0	145.5
Sep-03 24-Sep-03	AM5	2	9:49	10:49	Sunny	normal operation	26.0	758.0	130.0
Sep-03 24-Sep-03	AM5	3	10:49	11:49	Sunny	normal operation	26.0	758.0	128. 1
Sep-03 24-Sep-03	AM6	1	8:40	9:40	Sunny	normal operation	26.0	758.0	164.5
Sep-03 24-Sep-03	AM6	2	9:40	10:40	Sunny	normal operation	26.0	758.0	154.4
Sep-03 24-Sep-03	AM6	3	10:40	11:40	Sunny	normal operation	26.0	758.0	155.9
Sep-03 29-Sep-03	AM2	1	8:38	9:38	Sunny	normal operation	30.0	756.0	154.7
Sep-03 29-Sep-03	AM2	2	9:38	10:38	Sunny	normal operation	30.0	756.0	146.7
Sep-03 29-Sep-03	AM2	3	10:38	11:38	Sunny	normal operation	30.0	756.0	147.3
Sep-03 29-Sep-03	AM3	1	8:37	9:37	Sunny	normal operation	30.0	756.0	189.4
Sep-03 29-Sep-03 Sep-03 29-Sep-03	AM3	2	9:37	10:37	Sunny	normal operation	30.0	756.0	159.2
Sep-03 29-Sep-03 Sep-03 29-Sep-03	AM3 AM4	3	10:37	11:37	Sunny	normal operation	30.0	756.0	182.7
Sep-03 29-Sep-03 Sep-03 29-Sep-03	AM4	1 2	8:26	9:26	Sunny	normal operation	30.0	756.0	106.0
Sep-03 29-Sep-03	AM4	3	9:26 10:26	10:26 11:26	Sunny	normal operation	30.0	756.0	112.3
Sep-03 29-Sep-03	AM5	1	8:53	9:53	Sunny Sunny	normal operation normal operation	30.0 30.0	756.0 756.0	131.8 163,2
Sep-03 29-Sep-03	AM5	2	9:53	9.53 10:53	Sunny	normal operation	30.0	756.0 756.0	163.2
Sep-03 29-Sep-03		3	10:53	11:53	Sunny	normal operation	30.0	756.0 756.0	144.3
Sep-03 29-Sep-03		1	8:56	9:56	Sunny	normal operation	30.0	756.0	149.3
Sep-03 29-Sep-03	AM6	2	9:56	10:56	Sunny	normal operation	30.0	756.0	125.1
Sep-03 29-Sep-03	AM6	3	10:56	11:56	Sunny	normal operation	30.0	756.0	129.6

APPENDIX 4 Correspondences of the Public Complaints from July 2003 to September 2003

EP 580/E6/3/9 OUR REF:

來函檔記 YOUR REF: TEL, NO.

2158 5823 冒文沙真 FAX NO.: 2685 1155 忠子郵件

E MAIL. 27]

ifomepage: http://www.info.gov.hk/epd/

Environmental Protection Department Local Control Office/Territory North

10/F, Sha Tin Government Offices, No. 1 Shoung Wo Che Road, Sha Tin, New Territories, Hong Kong.



環境保護署 污染管制辦事處 (新界北)

香港新界沙田 上禾童路~"驶 沙田政府合署 10 樓

21 August 2003

Ove Arup & Partners Hong Kong Limited Level 5 Festival Walk. 80 Tat Chee Avenue. Kowloon Tong, Kowloon,

(Attn: Mr. Sam Tsoi)

Hong Kong

By Fax Only fax: 2865 6493)

Total 2 pages & cultiquel

Dear Sir.

Sha Tin New Town Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find particulars of a public complaint made on the date shown in the . enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the action to us within 2 weeks.

Yours faithfully,

(Jack KAN)

Environmental Protection Officer for Director of Environmental Protection

Encl.

c.c. (all w/e)

TDD Maunsell CHEC

(Attn: Mr. Felix Yung (Attn: Mr. Albert Lam

(Attn: Mr. Chan Man

Fax.: 2721 8630) Fax: 2643 3559)

Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : EPIC Ref:	N01/TN/00012313	3-03			
CASE DETAILS					
(1) Incident Date/Tir	nc: 21/08/2003				
(2) Incident Location	1: Monte Vista, Sha Tin		地址: 翠耀	華蹇,	
(3) TPU:	7 57				
(4) Description:	COMPLAINT OF NO NEAR MONTE VIST	ISE NUISANCE FROM <u>DOG</u> A, SHA TIN	BARKING FROM	A CONSTRUCTION SITE OF	T7 ROAD
(5) Nature		(6) Affected Party		(7) Pollution Pattern	
N79-Other noise nuisa in "Remarks"	ince, please specify	DMS-Domestic Premises		C-Continuous, N-Night Tin	ne, A-Daily
(8) Priority class:	C - Routine	i.e. si	ibstantive reply t	o be made on or before	11/09/2003
DETAILS OF THE S	SUSPECTED POLL			o o o made on or belone	11/0//2003
(1) Premises Name:			姓名: 中國海	灣建築公司	
(2) Premises Address	:		地址:		
(3) Business Type:	511 - Construction	site except renovation			
COMPLAINT CASE	(S) NEAR INCIDEN	T LOCATION			
Complaint Ref. N01/TN/000/	Cpt. Received Dr	ate Sub. Reply Date	Nature Code N66	Nature Description General construction	
N01/TN/000°	·		N66	General construction	
N01/TN/0006			N66 N66	General construction General construction	-
COMPLAINANT			1100	General Constituentor,	-
(1) Name:			(2) Tel. No. : 1	Day :	
				Night ; Mobile:	
(3) Address:			地址:		
(4) Email Address:					
CHANNEL OF COM	PLAINT				
Source channel:	- 10	Phone			
Source code : Remarks :	P 生投訴在T7工程 強烈要求環保署的	Public 程的地盤,有多隻屬於地盤 可事跟進	主的狗於晚上吠,	發出強烈的嗓音,滋擾霧霧	華庭的居民,
ACTION OFFICERS					
	Nature Code	SEPO	EPO	CI	
Coordinator	N79	S[TN]2		CI[TN]2	

INFORMATION INPUTTED BY

Name: TNTELE

Date: 21/08/2003 Time: 10:52

Maunsell Consultants Asia Ltd

茂盛(亞洲)工程顧問有限公司

b 8/F., Grand Central Plaza, Tower 2

138 Shatin Rural Committee Road

Chief Resident Engineer's Office

Trunk Road T7

7 Lok Wo Sha Lane, Ma On Shan

Telephone: 2643 9020 Fax: 2643 3559

E-mail: t7cso@netvigator.com

Your Ref.:

Our Ref.: T7(ST86/2000)/M05/412(0222)

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in I PL

新城市中央廣場第2座8樓
Tel (852) 2605 6262
Fax (852) 2691 2649

www.maunsell.com.hk

香港新界沙田鄉事會路 138 號

Sha Tin, N.T., Hong Kong

22 August 2003

The Agent China Harbour Engineering Company (Group) 9 Lok Wo Sha Lane Ma On Shan, NT

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-65
Public Complaint- Dog Barking

I attach for your attention and necessary action a copy of a letter from EPD-Ref. EP580/E6/3/9 dated 21 August 2003, regarding a complaint of noise nuisance due to dog barking from the construction site of Road T7 near Monte Vista on 21 August 2003.

Will you please give me a response before 1 September 2003.

Yours faithfully,

Senior Resident Engineer

AP:li

Encl.

cc : MCAL } w/encl OAP } w/encl

SIOW1 | w/encl (Please investigate)

CHEC - HO } w/encl





OUR REF: EP 580/E6/3/9

∜et NO⊸

2158 5823 置文傳真 FAX NO: 2685 1155

電子郵件 E-MAIL: · 1

Homepaga: http://www.info.gov.hk/apd/

CHAlloumentol Latesday poborquene Local Control Office/Territory North

> 10/F, Sha Tin Government Offices, No. 1 Sheung Wo Che Road, Sha Tin, New Territories, Hong Kong.



58.0× M-88.00 污染管制辦事處 (新界北) 香港新界沙田 上不闲路一號 沙阴政府合资 10 概



21 August 2003

Ove Arup & Partners Hong Kong Limited Level 5 Festival Walk, 80 Tat Chee Avenue, Kowloon Tong Kowloon, Hong Kong

(Attn: Mr. Sam Tsoi)

By Fax Only (Fax: 2865 6493) Total 2 pages

New Town Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the action to us within 2 weeks.

Yours faithfully,

(Jack KAN)

Environmental Protection Officer for Director of Environmental Protection

Encl.

c.c. (all w/e)

TDD

(Attn: Mr. Felix Yung (Attn: Mr. Albert Lam Fax.: 2721 8630)

Fax.: 2643 3559)

Maunsell CHEC

(Attn: Mr. Chan Man

Fax.: 2492 3701)

51-401 - 5067 11.12

Tang 5200 1700

NOTICE OF COMPLAINT

Complaint Ref.:

N01/TN/00012313-03

EPIC Ref:

CASE DETAILS

(I) Incident Date/Time: 21/08/2003

(2) Incident Location: Monte Vista,

地址: 翌羅華庭,

Sha Tin

(3) TPU:

757

(4) Description:

COMPLAINT OF NOISE NUISANCE FROM DOG BARKING FROM A CONSTRUCTION SITE OF T7 ROAD

地址:

NEAR MONTE VISTA, SHA TIN

(5) Nature

(6) Affected Party

(7) Pollution Pattern

N79-Other noise nuisance, please specify

DMS-Domestic Premises

C-Continuous, N-Night Time, A-Daily

in "Remarks"

(8) Priority class: C - Routine

i.e. substantive reply to be made on or before

11/09/2003

DETAILS OF THE SUSPECTED POLLUTER

(I) Premises Name:

(2) Premises Address:

姓名:中國海灣建築公司

(3) Business Type:

511 - Construction site except renovation

COMPLAINT CASE(S) NEAR INCIDENT LOCATION

Nature Description Nature Code Cpt. Received Date Sub. Reply Date Complaint Ref. General construction N66 N01/TN/0000 General construction N66 N01/TN/000 ٠. General construction N66 N01/TN/000 General construction. N66 N01/TN/000C

COMPLAINANT

Name :

(2) Td. No.: Day:

Night:

Mobile:

(3) Address:

地址:

(4) Email Address:

CHANNEL OF COMPLAINT

Source channel:

01

Phone

Source code:

- Public

Remarks:

先生投訴在17工程的地盤,有多要屬於地盤的狗於晚上吠,發出強烈的噪音,滋擾罩雍華庭的居民,

強烈要求冠保罗的同事跟進

ACTION OFFICERS

 Nature Code
 SEPO
 EPO
 CI

 Coordinator
 N79
 S[TN]2
 CI[TN]2

INFORMATION INPUTTED BY

Name :

TNTELE

Date:

21/08/2003

Time:

10:52

HEG

中國港灣建設(集團)總公司

香港代表: 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY (GROUP) HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date:

22 August 2003

Our Ref.: T7/02.03/O/06777

Environmental Protection Department, Local Control Office (Territory North) 10/F, Sha Tin Government Offices, No. 1 Sheung Wo Che Road, Shatin, N.T.

Attn.: The Environmental Protection Officer

Dear Sir,

Contract No. ST86/2000 Sha Tin New Town, Stage II Construction of Road T7 in Ma On Shan Public complaint – Dog barking near Monte Vista on 21 August 2003

We refer to your letter dated 21 August 2003 regarding the captioned complaint.

We would like to clarify that the dogs straying in our construction site were not belong to us or our subcontractors. We have already sought the assistance from AFCD in catching the straying dogs and regular patrol has been arranged by AFCD for our construction site. So we would like to draw your attention in the efforts we put and your further assistance in the issue would be greatly appreciated.

Thank you very much for your kind attention.

Yours faithfully, For and on behalf of China Harbour Engineering Co. (Group)

Chan Man

Project Manager

CMCLPWOR

c.c. MCAL - H.O.

CHEC - H.O.(w/o)

OAP - Mr. Fredrick Leong (F: 2268 3950)

TDD - Mr. Felix Yung (F: 2721 8630)

MCAL - Mr. Albert Lam

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II III

М

Maunsell Consultants Asia Ltd.

茂盛(亞洲)工程顧問有限公司

Chief Resident Engineer's Office

Trunk Road T7

7 Lok Wo Sha Lane, Ma On Shan

Telephone: 2643 9020 Fax: 2643 3559

E-mail: t7cso@netvigator.com

Your Ref.: EP 580/E6/3/9

Our Ref. : T7(ST86/2000)/M05/412(0226)

8/F., Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Sha Tin, N.T., Hong Kong

> 香港斯界沙田鄉電會路 138 號 新城市中央廣場第2座8樓

> > Tel (852) 2605 6262 Fax (852) 2691 2649 www.maunsell.com.hk

28 August 2003

23156

J 7468

Environmental Protection Department Local Control Office/ Territory North

10/F, Sha Tin Government Offices, No.1 Sheung Wo Che Road, Sha Tin, New Territories, Hong Kong.

Attn: Mr. Jack KAN

Dear Sirs.

Shatin New Town Stage II Contract No. ST86/2000

Construction of Road T7 in Ma On Shan

Environmental Complaint EC-65 Public Complaint - Dog Barking

I refer to your letter of 21 August 2003, concerning the complaint of noise nuisance from dog barking from the captioned site near Monte Vista.

The complaint was brought to the attention of the Contractor on 22 August 2003 who confirmed later in the day that the dogs straying within the site did not belong to the Contractor or the subcontractors. Assistance from AFCD had been requested to catch the straying dogs and arrange a regular patrol to the site.

We will continue to monitor the situation and carry out necessary actions in order to prevent similar nuisance to the nearby residents.

Yours faithfully,

Senior Resident Engineer

AP:li

cc: PM/NTE, TDD - Attn: Mr. Felix Yung OAP

- Attn: Mr. Fredrick Leong

MCAL

CHEC-HO



CHAIRMAN IF STIBONG MANAGING DIRECTOR - DISTOILE EXECUTIVE DIRECTORS, RITGARRETE, PICNISM, RID MASOR MIXICAL DESCRIPTION OF STRUCTURE O



中國港灣建設(集團)總公司

香港代表: 振筝工程有限公司

CHINA HARBOUR ENGINEERING COMPANY (GROUP) HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date

: 1 September 2003

Your Ref

: T7/(ST86/2000)/M05/412(0226)

Our Ref.

: T7/01.01/O/08070

Maunsell Consultants Asia Ltd. 7 Lok Wo Sha Lane, Ma On Shan, N.T.

2315

Attention: Mr. K.H. Cheng - CRE

Dear Sir.

Contract No. ST86/2000 Sha Tin New Town, Stage II Construction of Road T7 in Ma On Shan Environmental Complaint EC-65 – Dog barking ST FL Sheng RL ST / Sheng RC

We refer to your letter dated 22 August 2003 regarding the captioned complaint.

We would like to clarify that the straying dogs were not belong to us or our subcontractors. We have already sought the assistance from AFCD in catching the straying dogs and regular patrol has been arranged by AFCD for our construction site. We had also sought the help from EPD after receiving the complaint and enclosed please find the letter for your information.

Thank you very much for your kind attention.

Yours faithfully, For and on behalf of China Harbour Engineering Co. (Group)

Chan Man

Project Manager

CM/CLPL/CT/fc

c.c. MC.

MCAL - H.O.

CHEC-H.O.

OAP - Mr. Fredrick Leong (F: 2268 3950)

TDD - Mr. Felix Yung (F: 2721 8630)



中國港灣建設(集團)總公司

香港代表: 被華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY (GROUP) HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LTD.

Date:

22 August 2003

Our Ref.: T7/02.03/O/06777

Environmental Protection Department, Local Control Office (Territory North) 10/F, Sha Tin Government Offices, No. 1 Sheung Wo Che Road, Shatin, N.T.

Attn.: The Environmental Protection Officer

Dear Sir.

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Public complaint - Dog barking near Monte Vista on 21 August 2003

We refer to your letter dated 21 August 2003 regarding the captioned complaint.

We would like to clarify that the dogs straying in our construction site were not belong to us or our subcontractors. We have already sought the assistance from AFCD in catching the straying dogs and regular patrol has been arranged by AFCD for our construction site. So we would like to draw your attention in the efforts we put and your further assistance in the issue would be greatly appreciated.

Thank you very much for your kind attention.

Yours faithfully,
For and on behalf of
China Harbour Engineering Co. (Group)

Chan Man

Project Manager

CM/CL/HWOG

c.c. MCAL - H.O.

CHEC - H.O.(w/o)

OAP - Mr. Fredrick Leong (F: 2268 3950)

TDD - Mr. Felix Yung (F: 2721 8630)

MCAL - Mr. Albert Larn

本界位號 OUR REF: EP 580/E6/3/9

來函檔號 YOUR REF: 電 話 TEL. NO.:

网文學章 2158 5823 FAX NO.: 2685 1155

電子郵作 E-MAIL: 網 流

Homepage: http://www.info.gov.hk/epd/

Environmental Protection Department Local Control Office/Territory North

> 10/F, Sha Tin Government Offices, No. 1 Sheung Wo Che Road, Sha Tin, New Territories, Hong Kong.



環境保護署 污染管制辦事處 (新界北) 香港新界沙田 上禾崙路一號 沙田政府合将10 經

25 August 2003

Ove Arup & Partners Hong Kong Limited Level 5 Festival Walk, 80 Tat Chee Avenue, Kowloon Tong, Kowloon, Hong Kong

(Attn: Mr. Sam Tsoi)

By Fax Only (Fax : 2865 6493) Total 2 pages

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the action to us within 2 weeks.

dus

2315

Yours faithfully,

St on legge to

E FL RL

(Jack KAN)
Environmental Protection Officer
for Director of Environmental Protection

1 1 My

Encl.

c.c. (all w/e)

TDD

Maunsell

CHEC

(Attn. Mr. Felix Yung

(Attn: Mr. Albert Lam

(Attn: Mr. Chan Man

Fax.: 2721 8630)

Fax.: 2643 3559)

Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00012495-03 EPIC Ref-CASE DETAILS (1) Incident Date/Time: 23/08/2003 10:57 (2) Incident Location: Kam Ying Court, Kam Ying Road, 地址: 鋁英路 錦英苑, Sha Tin (3) TPU: 757 (4) Description: COMPLAINT OF NIGHT TIME AND SUNDAY CONSTRUCTION FROM THE CONSTRUCTION SITE NEAR KAM LEUNG HOUSE . KAM YING COURT , SHA TIN. (5) Nature (6) Affected Party (7) Pollution Pattern N66-General construction noise except DMS-Domestic Premises renovation (8) Priority class: C - Routine i.e. substantive reply to be made on or before 16/09/2003 DETAILS OF THE SUSPECTED POLLUTER (1) Premises Name: UNKNOWN 姓名: 不知名 (2) Premises Address: 地址: (3) Business Type: 511 - Construction site except renovation COMPLAINT CASE(S) NEAR INCIDENT LOCATION Complaint Ref. Cpt. Received Date Sub. Reply Date Nature Code Nature Description N01/TN/006 N66 COMPLAINANT (1) Name: (2) Tel. No.: Day; Night: Mobile: (3) Address: 地址: (4) Email Address: CHANNEL OF COMPLAINT Source channel: 01 Phone Source code: Public Remarks: 投訴在錦良閱對出的T7公路的地盤於平日愛展4:00及星期日有工程進行,發出強烈的喚音,要求 跟進 HAS MADE THE COMPLAINT BEFORE, REF NO.: NOI/TN/0000 **ACTION OFFICERS** Nature Code SEPO **EPO** ĊΙ Coordinator N66 S[TN]2

INFORMATION INPUTTED BY

Name:

HAUE4

Date:

23/08/2003

Time:

CIJTN]2

11:09

Maunsell Consultants Asia Ltd

茂盛(亞洲)工程顧問有限公司

Chief Resident Engineer's Office

Trunk Road T7

7 Lok Wo Sha Lane, Ma On Shan

Telephone: 2643 9020

Fax: 2643 3559

E-mail: t7cso@nctvigator.com

Your Ref :

Our Ref.: T7/(ST86/2000)/M05/412(0225)

8/F., Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Sha Tin, N.T., Hong Kong

> 香港新界沙田鄉華會路 138 號 新城市中央展場第2座8樓

> > Tel (852) 2605 6262 Fax (852) 2691 2649 www.maunsell.com.hk

27 August 2003

The Agent

China Harbour Engineering Company (Group)

9 Lok Wo Sha Lane

Ma On Shan, NT

Dear Sirs,

Shatin New Town Stage II Contract No. ST86/2000 Construction of Road T7 in Ma On Shan

Environmental Complaint EC-66

Public Complaint - Working during Nighttime and Sundays

I attach for your attention and necessary action a copy of a letter from EPD -Ref. EP 580/E6/3/9 dated 25 August 2003, regarding a complaint of construction activities during nighttime (4:00 am) and Sundays by a resident of Kam Ying Court on 23 August 2003.

Will you please give me a response before 7 September 2003.

Yours faithfully,

Allan Poor

Senior Resident Engineer

AP:it

Encl.

cc: MCAL (w/e)

OAP - w/e (by fax only)

SIOW I - w/e (note: please investigate)

CHEC - HO (w/e)
CHAIRMAN : FS Y BONG MANAGING ORECIDITY OF EXECUTIVE DIRECTORS : R I GARRETT, P C N YM, R D TAYLOR, M R CTAL D CSTEC Y (PIDICOT), C W T WONG, E R H CHAN, EH YNG, AKWU, MCPSARSON, SARGBINSON, KYWONT, ES KYAN, KEWONG, SHRSHAM, HICPANU, DIS SUU, AY RWOX. CONSULTANTS : A HAMRION, PILLEBANG, JOM ORM, ASSOCIATES I L'STEE, PIK YUNG, A SPOUN, PICANSON, CIA KHINSON, WIKIH ORAN, CITT SU, FY ERMS, CICIWING, TIKIS TANG, EISICIMA, KIKIR ISSANG, KIJ MOCKELL.

OFFICES : AUSTRALIA, CANADA, CHINA DENMARK, EGYPT, GAZA, CREECE, INDINGKONG, DIDIA, INDIONESIA, IR9 AND, ISRAEL, MALAYSIA, NEITHERLAMPA, CHINA, PHILIFFINES, FOLAND, PUERTO RICTO. romania, gatar, sincapore, south korla, tharland, united aray bairajes, united kincaga, united states of america, vilinam.

MALINSFIT GROUP - HONG KONG / CHINA / SINGAPORE CHRI EXECUTIVE TICK SHIIM

AN AECOM COMPANY



ACCHK

ひいみ みたに 灰面模號 YOUR REF:

TEL NO.: 配文例文

2158 5823

FAX NO. 2685 1155 等子都件

E-MAIL!

Homepage: http://www.info.gov.hk/epd/

Local Control Office/Territory North

10/F, Sha Tin Government Offices, No. 1 Shoung Wo-Che Road, She Tin, New Territories, Hong Kong.



污染管制辦事處 上來發路一號 沙阴政府合竖 10 個

25 August 2003

27Y) Ove Arup & Parmers Hong Kong Limited Level 5 Festival Walk 80 Tat Chee Avenue, Kowloon Tong, Kowloon, Hong Kong

(Attn: Mr. Sam Tsoi)



By Fax Only (Fax: 2865 6493) Total 2 pages

Sha Lan New Town Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please report the outcome of the action to us within 2 weeks.

Yours faithfully,

(Jack KAN)

Environmental Protection Officer for Director of Environmental Protection

Encl.

c.c. (all w/e)

TDD

(Attn: Mr. Felix Yung (Attn: Mr. Albert Lam

Fax.: 2721 8630)

Maunse]]

(Attn: Mr. Chan Man

Fax.; 2643 3559)

CHEC

Pax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. :	NOI/TN/0001249	5-03		
EPIC Ref:				
CASE DETAILS				
_	ime: 23/08/2003 10:	57		
	on: Kam Ying Court, Sha Tin		地址: 錦夾路 錦葵	हेर्न्ह,
(3) TPU:	7 57			
(4) Description:	COMPLAINT OF NI KAM LEUNG HOUS	GHT TIME AND SUNDA SE , KAM YING COURT ,	Y CONSTRUCTION FROM TH SHA TIN.	e construction site near
(5) Nature		(6) Affected Party		llution Pattern
N66-General constru emovation	ction noise except	DMS-Domestic Premi	505	
(8) Priority class:	C - Routine	i.	e, substantive reply to be ma	ide on or before 16/09/200
DETAILS OF THE	SUSPECTED POLL	UTER		
(1) Premiscs Name:	UNKNOWN		姓名: 不知名	
(2) Premises Addres	3;		地址:	
(3) Business Type: COMPLAINT CASE		site except renovation		
Complaint Ref.	Cpt. Received D		Nature Code Natur	e Description
NOI/TN/00G_ COMPLAINANT	-		N66	<u>= 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 </u>
(1) Name:				
(1) Name:			(2) Tel. No. : Day :	
			Night:	
(3) Address:			Mobile: 地址;	
(4) Email Address:				
CHANNEL OF COM	PLAINT		•	
Source channel:	01 _	Phone		
Source oode :	P .	Public		
Remarks:	投訴在錦艮閣 跟進	· · · · · · · ·	平日夜段4:00及星期日有	工程進行,發出強烈的嗓子,要
action officers	_	HE COMPLAINT BEFO	RE, REF NO.: NOI/TN/0000	•
	Nanire Code	SEPO	<u>P</u> PO	CI
Coordinator	N66	S[TN]2		CI CI[TN]2
nformation inpu	でてなっ ひひ			
lame. HAUE4				
FIAUE4		Date: 2	3/08/2003	Time: 11:09



中國港灣建設(集團)總公司

香港代表: 掘筝工程有限公司

CHINA HARBOUR ENGINEERING COMPANY (GROUP) HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., LID.

Date

: 29 August 2003

Your Ref

: T7/(ST86/2000)/M05/412(0225)

Our Ref.

: T7/01.01/O/08069

Maunsell Consultants Asia Ltd.
7 Lok Wo Sha Lane, Ma On Shan,

N.T.

Meso

- - -

Attention: Mr. Albert Lam- CRE

Dear Sir,

ST FL Stery EL

23156

Contract No. ST86/2000

Sha Tin New Town, Stage II

Construction of Road T7 in Ma On Shan

Environmental Complaint EC-66 - Working during Nighttime and Sundays

We refer to your letter dated 27 August 2003 regarding the captioned complaint.

In order to suit the progress, we have obtained a Construction Noise Permit (CNP) from EPD of ref. GW-TN0022-2003 and GW-TN0272-2003 in order to carry out bridge works at restricted hours near Kam Yau Court. We would like to emphasize that the powered mechanical equipment (PME) used in restricted hours (including Sunday and 19:00-23:00 every day) were permitted in this CNP and we would try to reduce the noise impact during the course of construction works.

After our checking with the subcontractors and security, there should not be any construction activity carried out at 04:00 within our construction site and we are not allow any our sub-contractor to carry out the works without CNP at night. So, the noise nuisance might possibly come from other construction site.

Thank you very much for your kind attention.

Yours faithfully,

For and on behalf of

China Harbour Engineering Co. (Group)

/ Chan Man

Project Manager

CM/CL/PL/GT

C C

 $MCAL - H.\phi$

CHEC - H.O

OAP - Mr. Fredrick Leong (F: 2268 3950)

TDD - Mr. Felix Yung (F: 2721 8630)

EPD - Mr. Jack Kan (F:2685 1155)

Insel

Maunsell Consultants Asia Ltd

茂盛(亞洲)工程顧問有限公司

Chief Resident Engineer's Office

Trunk Road T7

7 Lok Wo Sha Lane, Ma On Shan

Telephone : 2643 9020

Fax: 2643 3559

E-mail: t7cso@netvigator.com

Your Ref.: EP 580/E6/3/9

Our Ref.: T7(ST86/2000)/M05/412(0228)

8/F., Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Sha Tin, N.T., Hong Kong

> 香港新界沙田鄉事會路 138 號 新城市中央廣場第 2 應 8 樓

> > Tel (852) 2605 6262 Fax (852) 2691 2649 www.maunsell.com.hk

3 September 2003

Environmental Protection Department Local Control Office/ Territory North

10/F, Sha Tin Government Offices, No.1 Sheung Wo Che Road, Sha Tin, New Territories, Hong Kong. 113412

23156

A Sheny RL

Attn: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II Contract No. ST86/2000 Construction of Road T7 in Ma On Shan

Environmental Complaint EC-66

Public Complaint – Working during Nighttime and Sundays

I refer to your letter of 25 August 2003, concerning the complaint of nighttime and Sunday construction in the site near Kam Leung House in Kam Ying Court.

I would advise you that the Contractor has been granted Construction Noise Permits (CNP) – Ref.: GW-TN002202003 and GW-TN0272-2003, for carrying out bridge works at restricted hours (between 19:00 and 23:00 every day, including Sundays) near Kam Ying Court. The Contractor had only used the powered mechanical equipment (PME) as permitted in the CNP; furthermore, he had tried to reduce the noise nuisance as much as possible during the course of work.

In our investigation, the Contractor and his subcontractor/security personnel confirmed that there had not been any construction activities at 04:00 a.m. early in the morning within the construction site. So, it was apparent that the noise nuisance might possibly come from other construction site.

Yours faithfully,

/ Allan Poom

Senior Resident Engineer

AP:li

cc: PM/NTE, TDD - Attn: Mr. Felix Yung
OAP - Attn: Mr. Fredrick Leong

MCAL

CHAIRMAN OF SECRETARING DIRECTOR: DISEO EXECUTIVE DIRECTORS OR CARRETT, PICIN YEAR, RID TAYLOR, MIKICUAL, DICISTES, LIJENDIKOTT, CIWIT WORD, EING GAN,
OH THO A KIWILLIM CPEARSON, SIA ROBINSON, KIY WONG OF SIKINAN IKE WONG ON HISHANI HICPANO, DISELLIA YIWOK CONSULTANTS TA HAMILTON, PIRELENCI OF MICHIM
ASSOCIATES TO SEE, PIKINGA AS POON PICANSON, CIVIDHNSON, WIKH CHAPL, CHITSO TYPING, CICINING TIX STANGLES CHAP, RIMITARILL
OFFICES TAUSTRALIA, CHAPADA, CHINA, DENNARK, ECYPT, CAZA, CRECE, MONG KONG, INDIA, INDONESIA, PELANO, BRALL, MALAYSIA NETHERLANDA OMAN, PHELIPPINES POLANDI PUERIO PKO

ROMANIA QATAR, SINGAPORE SOUTH KOREA DHAILAND LIMITED ARABEMIRATES, UNITED KINGDOM LIMITED STATES OF AMERICA MENNAM MAUNSTELL GROUP — HONG KONG / CHINA / SINGAPORE CHIEF EXECUTIVE TICK SHUM

AN AECOM COMPANY

HKOAA



四芳烯钟 EP 580/E6/3/9 OUR REF:

英国常领 YOUR REF: TEL. NO.:

2158 5823 商文傳真。 FAX NO.: 2685 1155

: 王·斯(4) E MAIL: hr in

Homepage: http://www.info.gov.hk/epd/

Environmental Protection Department Local Control Office/Territory North

> 10/F. Sha Tin Government Offices. No. 1 Sheung Wo Che Road, Sha Tin, New Territories, Hong Kong.



環境保護署 污染管制辦事處 (新界北)

香港新界沙田 上不泰路一郎 沙田政府合署 10 牍

15 September 2003

Ove Arup & Partners Hong Kong Limited Level 5 Festival Walk, 80 Tat Chee Avenue. Kowloon Tong. Kowloon, Hong Kong

(Attn: Mr Sam Tsoi)

By Fax Only (Fax: 2865 6493) Total 2 pages

Dear Sir,

Sha Tin New Town Stage II Contract No. ST 86/2000 Construction of Road T7 in Ma On Shan Public Complaint

I refer to the captioned project, for which you hold the position of Environmental Team Leader.

Enclosed please find particulars of a public complaint made on the date shown in the enclosure. The Environmental Team and all relevant parties in the c.c. list below should take actions to rectify the situation. Please arrange additional daytime noise measurement at location near complainant's premises and report the outcome of the action to us within 2 weeks.

Yours faithfully,

(Jack KAN)

Environmental Protection Officer for Director of Environmental Protection

Encl.

c.c. (all w/e) TDD

(Attn: Mr. Felix Yung

Fax.: 2721 8630)

Maunsell

(Attn: Mr. Albert Lam

Fax.: 2643 3559)

CHEC

(Atto: Mr. Chan Man

Fax.: 2492 3701)

To: SITN|2

COMPLAINT CASE - FOLLOW UP CALL

Complaint reference:

N01/TN/00007793-03

EPIC reference:

Incident address:

Monte Vista,

धिक्षे:

衍界, 沙田區

Complaint Description: COMPLAINT OF DAYTIME & NIGHTTIME CONSTRUCTION NOISE FROM T7 CONSTRUCTION SITE NEAR BLOCK 3 OF MONTE VISTA, SHA TIN

I understand that you are processing the above case.

2 The complainant Tel No. (D): Mobile: has made an enquiry on the matter on 13/09/2003 at 09:24 and requested EPD staff to:-

contact him as soon as possible.

3 For your necessary action, picase.

Romark

As least from the complement, he complement about day time construction noise and dust nuiseure from T? construction site war his previses at block 3 & Monte Vita-

INFORMATION INPUTTED BY

Name .

HAUE2

Date:

13/09/2003

09,25

P. 82 SSII S89Z ZS8+

+825 S685 1155

12-2E6-5003 10:1e



中國港灣建設(集團)總公司

香港代表: 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY (GROUP) HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., L'ED.

Date : 26 September 2003

Your Ref: T7/(ST86/2000)/M05/412(0231)

Our Ref.: T7/01.01/O/08314

Maunsell Consultants Asia Ltd. 7 Lok Wo Sha Lane, Ma On Shan, N.T.

Attention: Mr. K.H. Cheng - CRE

Dear Sir.

Contract No. ST86/2000 Sha Tin New Town, Stage II Construction of Road T7 in Ma On Shan Arup Acoustics Job No.

Master Refull | Project Ref.:

Reply Ref.:
Action Required:

Received 3 1 3FP 2003

Inits.
Action Info.
Copy

Environmental Complaint EC67 - Daytime and Nighttime Construction Noise

We refer to your letter dated 16 September 2003 regarding the captioned complaint.

We had inspected around the area upon receiving the complaint and found that the water sprinklers were operating; and from the record photos taken on 13 September 2003, the soil materials were found to be wet around the area. The ET had measured the 1hr TSP level at Monte Vista before (11 September 2003) and after (19 September 2003) the complaint and the results were shown to be below the alert level (350 μ g/m³).

Date	Start Time	Finish Time	Level (µg/m3)
11-Sept-03	13:01	14:01	228.0
	14:01	15:01	238.5
	15:01	16:01	235.3
19-Sept-03	08:44	09:44	193.9
	09:44	10:44	181.3
	10:44	11:44	159.6

To reduce the noise nuisance arising to the nearby residents, we had installed temporary noise barriers for the breaking activities of the excavator mounted hydraulic breakers. According to the results of our noise measurements taken at the roof top of Block 1 of Monte Vista and podium of Block 3 of Monte Vista, the noise levels were found to be acceptable and below the limit:

Roof top of Block 1 of Monte Vista

Date	Start Time	Finish Time	Leq	L_{10}	L ₂₀
8-Sept-03	10:07	10:37	70.1	72.8	65.4
9-Sept-03	09:12	09:42	68	71.2	61.8
10-Sept-03	10:21	10:51	68.6	70.2	64.3
11-Sept-03	10:49	11:19	69.4	71.7	66.1
12-Sept-03	09:40	10:10	71.1	73.1	66.4
13-Sept-03	10:00	10:30	71.2	73.2	68.1

.../2

7

94.5

v eq



中國港灣建設(集團)總公司

香港代表: 振華工程有限公司

CHINA HARBOUR ENGINEERING COMPANY (GROUP) HONG KONG REPRESENTATIVE: ZHEN HUA ENGINEERING CO., ŁTD.

Page 2

Date : 26 September 2003

Your Ref: T7/(ST86/2000)/M05/412(0231)

Our Ref.: T7/01.01/O/08314

Podium of Block 3 of Monte Vista

Date	Start Time	Finish Time	Leq	L_{10}	L ₉₀
15-Sept-03	15:30	16:00	66.0	70.6	61.2

We however would continue to maintain or add temporary noise barriers for the breaking activities of excavator mounted hydraulic breakers to reduce the noise nuisance arising to the public. We would also ensure that all the night works are covered by Construction Noise Permit (CNP).

Thank you very much for your kind attention.

Yours faithfully,

For and on behalf of China Harbour Engineering Co. (Group)

Chris Lau

Project Manager

CL/PU/G//fc

c.c. MCAL – H.O.

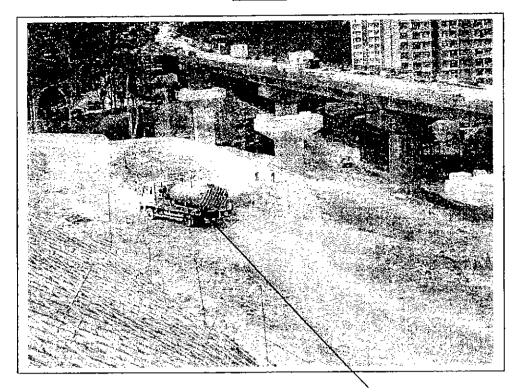
CHEC - H,O,

OAP - Mr. Fredrick Leong (F: 2268 3950

TDD - Mr. Felix Yung (F: 2721 8630)

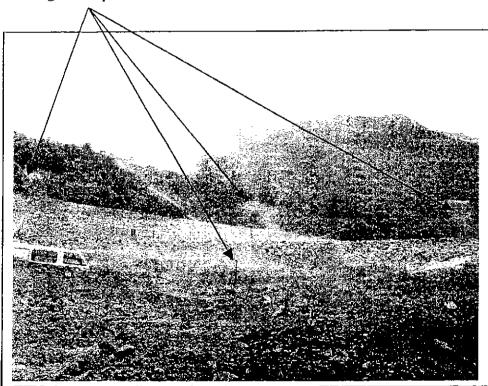
EPD- Mr. Jack Kan (F: 2685 1155)

Photos



Sprinklers were operating during the inspection

Water browser was operating and the soil was found to be wet



Maunsell Consultants Asia Ltd

茂盛(亞洲)工程顧問有限公司

Chief Resident Engineer's Office

Trunk Road T7

7 Lok Wo Sha Lane, Ma On Shan

Telephone: 2643 9020 Fax: 2643 3559

E-mail: t7cso@netvigator.com

Your Ref.: EP 580/E6/3/9

Our Ref.: T7(ST86/2000)/M05/412(0236)

8/F., Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Sha Tin, N.T., Hong Kong

> 香港新界沙田鄉事會路 138 號 新城市中央廣場第2座8樓

> > Tel (852) 2605 6262 Fax (852) 2691 2649 www.maunsell.com.hk

Arup Acoustics File No Master Ref A & 13572 Project Ref. -3-Øctober 2003 Reply Ref.: Date Action Required

Environmental Protection Department

Local Control Office/ Territory Northeceived

10/F, Sha Tin Government Offices. No.1 Sheung Wo Che Road,

Sha Tin, New Territories, Hong Kong.

By Pax & Post - 7 OCT 2003 (Fax: 2685 1155)

Inits. Action Info. Copy

Attn: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II Contract No. ST86/2000

Construction of Road T7 in Ma On Shan Environmental Complaint - EC-67

Public Complaint on Day-time and Night-time Construction Noise

I refer to your letter of 15 September 2003, regarding the complaint on the day-time and night-time construction noise, as well as dust nuisance, from a resident in Block 3 of Monte Vista.

According to the record of noise measurements taken on the roof of Block 1 of Monte Vista during the week prior to the complaint, the noise level were found to be acceptable as listed below:

Date	Start Time	Finish Time	Leg dB(A)*
8-Sept-03	10:07	10:37	70.1
9-Sept-03	09:12	09:42	68
10-Sept-03	10:21	10:51	68.6
11-Sept-03	10:49	11:19	69.4
12-Sept-03	09:40	10:10	71.1
13-Sept-03	10:00	10:30	71.2

Note: Limit Level -75 dB(A)

The Contractor had also erected temporary noise barriers around the hydraulic breakers in order to reduce further the noise nuisance.

..../P.2



ISO 9003 ; 2000 Certification No. CC354

region. A C E H K Our Ref.: T7(ST86/2000)/M05/412(0236)

Regarding the complaint on dust nuisance, our Environmental Team had measured the 1 hr TSP level at Monte Vista on 11th and 19th of September 2003 and recorded the results as below:

Date	Start Time	Finish Time	Level (µg/m³)
11-Sept-03	13:01	14:01	228.0
	14:01	15:01	238.5
	15:01	16:01	235.3
19-Sept-03	08:44	09:44	193.9
	09:44	10:44	181.3
	10:44	11:44	159.6

It is apparent that the 1 hr TSP levels were well below the action level of $350\mu g/m^3$. Furthermore, the Contractor had provided water browser and sprinklers for dust suppression purposes. Please refer to the attached photographs.

We therefore would conclude that the complaint was not substantiated.

Yours faithfully,

Allan Poor

Senior Resident Engineer

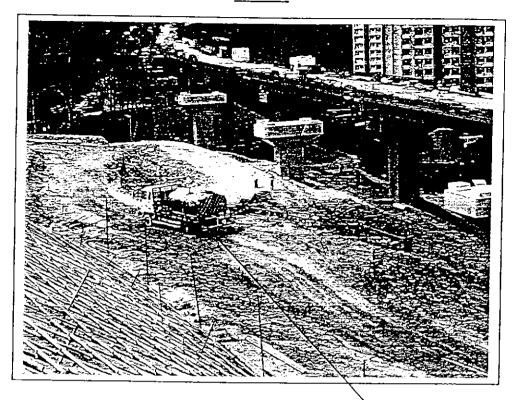
AP:li

cc: PM/NTE, TDD - Attn: Mr. Felix Yung
OAP - Attn: Mr. Fredrick Leong

MCAL

CHEC - HO

Photos



Sprinklers were operating during the inspection

Water browser was operating and the soil was found to be wet

