Territory Development Department
NT East Development Office

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

APRIL 2003 TO JUNE 2003

Prepared For:

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Prepared by Fredrick Leong (CBiol Mbiol MCIWEM FLS MRSC)

Signed
Date 12 July 2003

Checked by Sam Tsoi (CEng FIOA MHKIE MIMechE MIEnvSc)

Signed
Date 12 July 2003

Approved by Sam Tsoi (CEng FIOA MHKIE MIMechE MIEnvSc)

Signed
Date 12 July 2003

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LIST OF APPENDICES

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ABBREVIATIONS AND ACRONYMS

AQO	Air Quality Objectives
Arup	Ove Arup & Partners Hong Kong Limited
ASR	Area Sensitive Rating
BOD_5	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 April 2003 to June 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).

Thirteen measurements were taken at each location during 0700-1900 and thirteen measurements were taken at NM3, NM4, NM6 and NM8 during 1900-2300 from April 2003 to June 2003. The recorded noise levels were in the range from 60.0 to 73.8 dB(A) during 0700-1900 and from 58.5 to 65.0 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 sixteen 24-hour TSP monitoring were conducted at each location from April 2003 to June 2003. The recorded 24-hour TSP levels were in the range from 20.4 to 183.5 $\mu g/m^3$ and were below the Action and Limit Levels.

A total of forty-five 1-hour TSP monitoring were conducted at each location from April 2003 to June 2003. The recorded 1-hour TSP levels were in the range from 104.3 to 276.0 $\mu g/m^3$ and were below the Action and Limit Levels.

A total of 52 loads of waste from site clearance (i.e. felled trees) have been disposed of at NENT Landfill from April 2003 to June 2003. The total tonnage of the waste disposal from April 2003 to June 2003 was 403.8 tonnes.

A total of 3,186 loads of rocks (ϕ > 400mm) have been disposed of at the follow government project sites from April 2003 to June 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. FL27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai*

The total quantity of the disposed rocks was 22,780.0 m^3 from April 2003 to June 2003.

A total of 610 loads of inert material have been disposed of at Public Filling Area from April 2003 to June 2003. The total quantity of the disposed inert materials was 3,660.0 m^3 from April 2003 to June 2003.

ET was informed by the CT that EPD visited the site on 10/04/03 and 24/06/03.

A total of eight public complaints regarding construction noise were received on 06/04/03, 24/04/03, 30/05/03, 09/06/03, 23/06/03 and 27/06/03 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 April 2003 to June 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.

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2. ENVIRONMENTAL STATUS

2.1 Construction Activities in the Quarter

The main construction activities in the period from April 2003 to June 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.

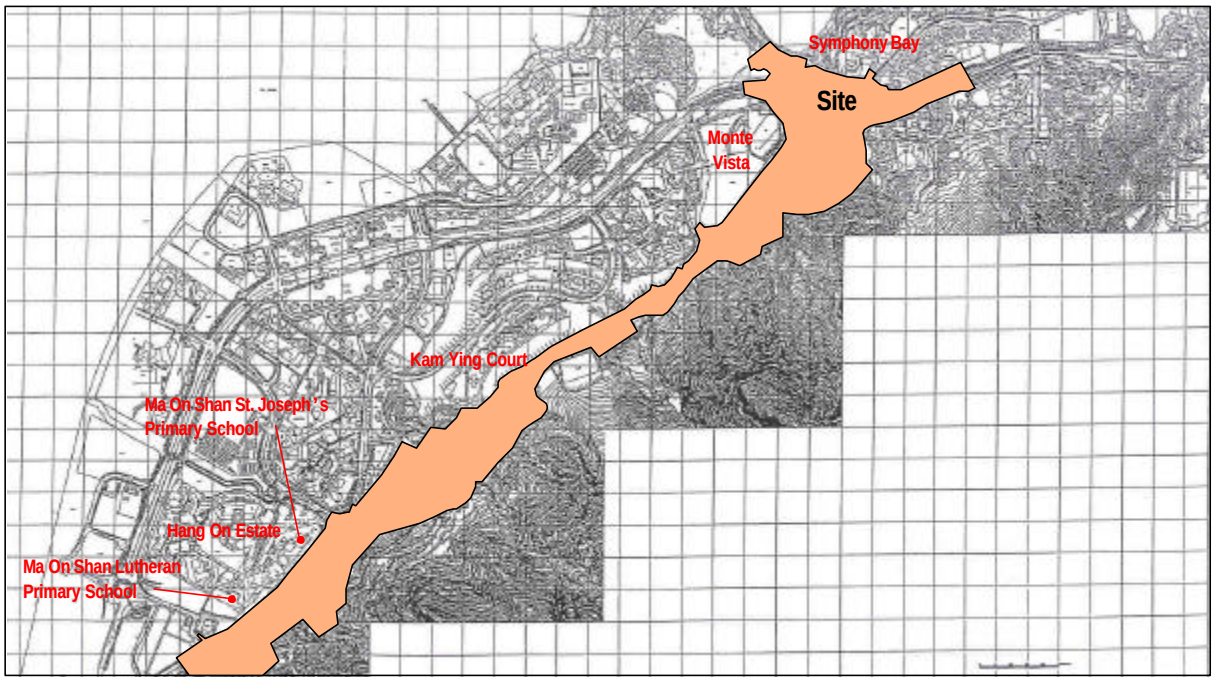
2.2 Environmental Sensitive Receivers

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	$L_{eq(30\ min)}$	Once per week	1
Between 1900-2300 hours on normal weekdays	$L_{eq(5\ min)}$*		3 (consecutive)
Between 2300-0700 hours of next day			
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.

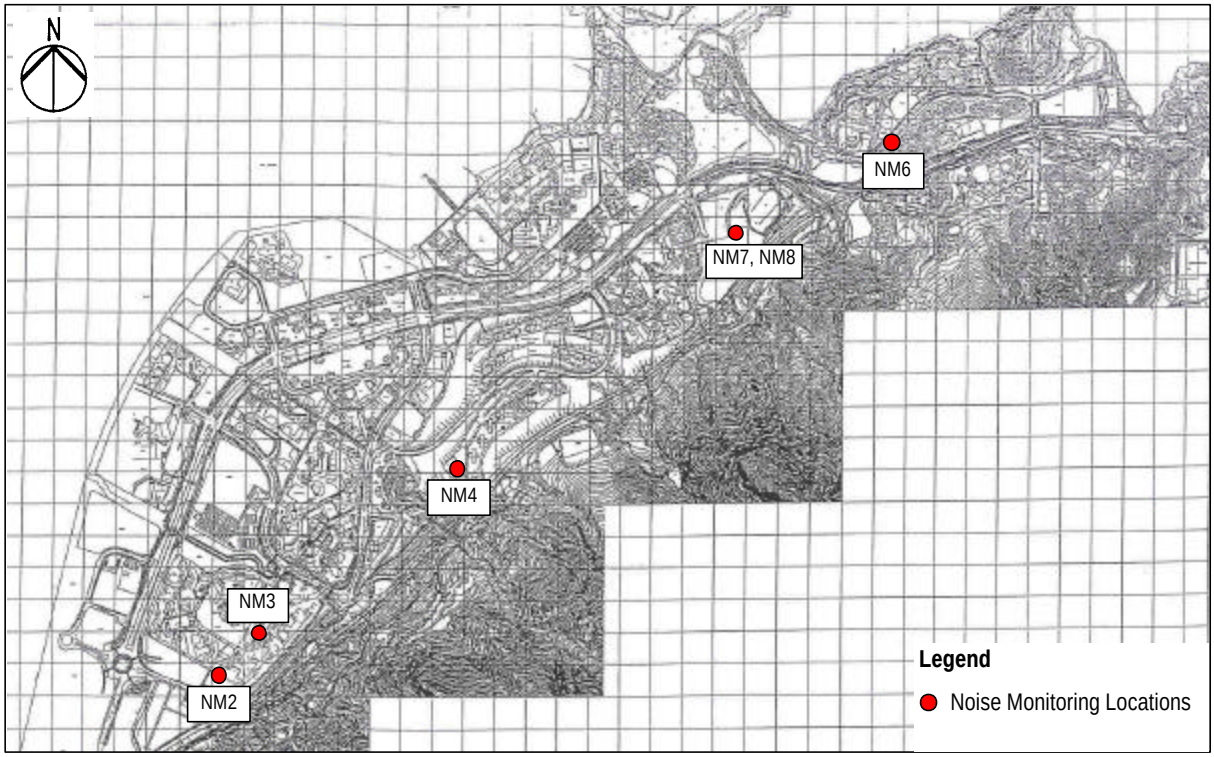
3.1.3 Monitoring Locations

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

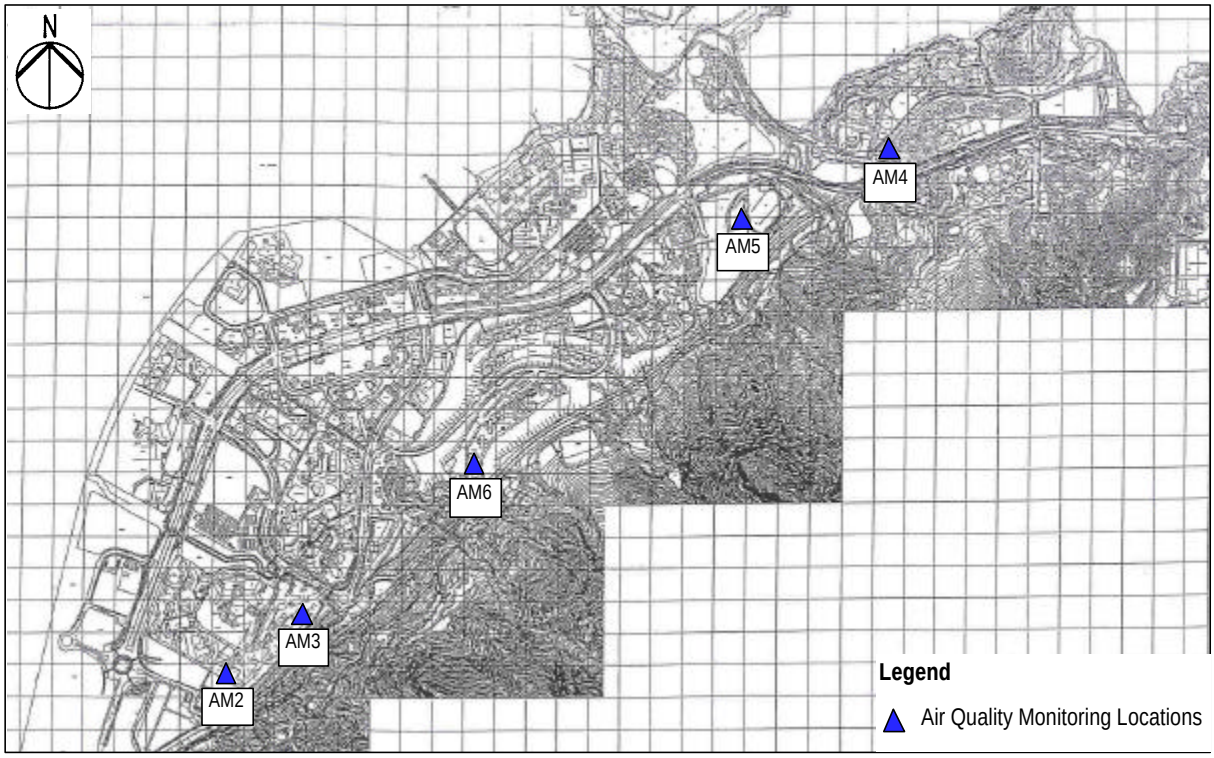
3.2.3 Monitoring Locations

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	When one documented complaint is received	75 *
0700 – 2300 hours on General Holidays; & 1900 – 2300 hours on all other days		50 or 55** (1) 65 or 70** (2)
2300 – 0700 hours of next day		55 or 40** (1) 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**	**CT**
1. Notify ER and CT 2. Carry out investigation 3. Report the result of investigation to ER 4. Increase monitoring frequency to check mitigation effectiveness 5. Review the proposed remedial measures by CT and advise ER accordingly 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	1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Require CT to propose remedial measures for the noise exceedance 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to ET 2. Implement noise mitigation proposals

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

Action		
ET	**ER**	**CT**
1. Notify ER and EPD 2. Identify source 3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Discuss amongst ER and CT on the potential remedial actions 6. Review CT's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly 7. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 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	1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Require CT to propose remedial measures for the noise exceedance 4. Ensure remedial measures are properly implemented 5. 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	1. Take immediate action to avoid further exceedance. 2. Inform ET, ER and EPD of the actions taken for the exceedance. 3. Submit proposals for remedial actions to ET within 3 working days of notification 4. Implement the agreed proposals 5. Resubmit proposals if problem still not under control 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated

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

The baseline checking was conducted on 15 June 2003. There was no significant difference when comparing the baseline checking results of June 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-hour TSP Level in mg/m³		
	Baseline Level *	Action Level	Limit Level
Ma On Shan Lutheran Primary School	66.0	173	260
Ma On Shan St. Joseph's Primary School	57.7	168	
Villa Concerto, Symphony Bay	60.8	170	
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/m³		
	Baseline Level *	Action Level #	Limit Level
Ma On Shan Lutheran Primary School	274	350	500
Ma On Shan St. Joseph's Primary School	274	350	
Villa Concerto, Symphony Bay	273	347	
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**	**CT**
Action Level 1 – Exceedance for one sample		
1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Review the proposed remedial measures by CT and advise ER accordingly 5. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 6. Supervise the implementation of remedial measures 7. Increase monitoring frequency to demonstrate efficacy of remedial measures 8. If exceedance stops, cease additional monitoring	1. Notify CT 2. Check monitoring data and CT's working methods	1. Rectify any unacceptable practice 2. Amend working methods if appropriate
Action Level 2 –Exceedance for two or more consecutive samples		
1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Review the proposed remedial measures by CT and advise ER accordingly 5. Discuss with ER for remedial actions required 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. Increase monitoring frequency to demonstrate efficacy of remedial measures 9. If exceedance continues, arrange meeting with ER 10. If exceedance stops, cease additional monitoring	1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Check monitoring data and CT's working methods 4. Discuss with Environmental Supervisor and CT on potential remedial actions 5. Ensure remedial actions are properly implemented	1. Submit proposals for remedial actions to ER within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate

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**	**CT**
Limit Level 1 – Exceedance for one sample		
1. Identify source 2. Inform ER 3. Repeat measurement to confirm findings 4. Discuss with ER for remedial actions required 5. Suggest any improvement or other alternative mitigation measures should the CT's proposal be found ineffective 6. Supervise the implementation of remedial measures 7. Increase monitoring frequency to demonstrate efficacy of remedial measures 8. If exceedance stops, cease additional monitoring	1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Check monitoring data and CT's working methods 4. Discuss with ET and CT on potential remedial actions 5. Ensure remedial actions are properly implemented	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to ER within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate
Limit Level 2 – Exceedance for two or more consecutive samples		
1. Identify source 2. Inform ER the causes and actions taken for the exceedance 3. Repeat measurement to confirm findings 4. Investigate the causes of exceedance 5. Arrange meeting with ER to discuss the remedial actions to be taken 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. Increase monitoring frequency to demonstrate efficacy of remedial measures 9. If exceedance stops, cease additional monitoring	1. Confirm receipt of notification of failure in writing 2. Notify CT 3. Carry out analysis of CT's working procedures to determine possible mitigation to be implemented 4. Discuss amongst ET and CT on potential remedial actions 5. Review CT's remedial actions whenever necessary to assure their effectiveness 6. 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	1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to ER within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant portion of works as determined by ER until the exceedance is abated

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

Thirteen measurements were taken at each location during 0700-1900 and thirteen measurements were taken at NM3, NM4, NM6 and NM8 respectively during 1900-2300 from April 2003 to June 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 April 2003 to June 2003 are 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 April 2003 to June 2003.

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
02/04/03 (Wed)	L_{eq}	61.8	65.5	65.6	68.6	70.1	67.8
	L_{10}	62.1	68.5	67.1	71.5	72.5	69.6
	L_{90}	59.5	61.0	64.6	61.0	66.5	64.6
08/04/03 (Tue)	L_{eq}	60.5	63.0	66.5	66.9	64.6	68.5
	L_{10}	64.0	65.5	69.0	68.1	67.6	70.1
	L_{90}	57.5	59.0	62.0	63.6	59.6	63.5
16/04/03 (Wed)	L_{eq}	60.0	62.0	64.5	67.0	66.5	68.0
	L_{10}	65.5	64.5	69.8	69.5	69.8	70.5
	L_{90}	58.0	59.0	60.5	62.0	61.5	63.0
23/04/03 (Wed)	L_{eq}	63.0	61.5	67.0	67.5	68.0	66.7
	L_{10}	65.0	64.7	69.5	72.3	72.5	70.0
	L_{90}	58.0	57.5	62.5	61.5	73.5	62.5
28/04/03 (Mon)	L_{eq}	63.0	62.6	67.5	68.7	71.5	73.8
	L_{10}	64.5	64.4	70.5	71.9	76.0	78.5
	L_{90}	60.5	58.9	63.5	64.4	62.8	64.7
06/05/03 (Tue)	L_{eq}	61.2	65.0	69.5	67.0	70.5	71.0
	L_{10}	63.5	68.5	74.5	70.5	73.0	76.5
	L_{90}	58.0	60.0	61.5	62.8	64.5	62.5
15/05/03 (Thu)	L_{eq}	63.7	64.0	66.5	68.5	69.5	72.0
	L_{10}	67.5	66.5	69.0	72.0	72.5	74.5
	L_{90}	61.0	60.0	61.5	62.5	64.0	65.0
22/05/03 (Thu)	L_{eq}	63.8	64.1	67.4	63.3	62.2	61.4
	L_{10}	65.5	65.5	68.0	64.5	64.5	62.5
	L_{90}	61.0	61.5	60.0	61.0	58.5	58.0
28/05/03 (Wed)	L_{eq}	68.2	63.6	65.8	65.1	63.9	72.9
	L_{10}	69.5	66.0	67.5	66.5	65.5	76.5
	L_{90}	66.0	57.5	57.0	61.5	60.5	59.5

Date of Monitoring	Monitoring Parameters	Monitoring Results, dB(A) (30 min)					
		NM2	NM3	NM4	NM6	NM7	NM8
03/06/03 (Tue)	L_{eq}	64.5	60.0	65.0	68.5	70.5	69.5
	L_{10}	66.0	62.5	67.0	71.0	73.0	72.0
	L_{90}	60.0	58.5	60.5	61.5	62.5	64.0
10/06/03 (Tue)	L_{eq}	61.0	62.0	65.0	64.0	62.5	65.5
	L_{10}	63.0	63.5	68.5	67.0	64.0	68.0
	L_{90}	59.0	58.0	61.5	60.5	60.0	61.0
17/06/03 (Tue)	L_{eq}	63.5	62.0	64.5	69.0	67.5	72.0
	L_{10}	66.0	64.5	67.5	73.5	70.5	76.8
	L_{90}	59.5	58.0	60.5	63.0	60.5	63.0
26/06/03 (Thu)	L_{eq}	63.0	61.5	67.0	67.0	64.5	69.5
	L_{10}	65.5	64.0	71.5	70.5	66.0	75.0
	L_{90}	60.0	58.0	60.5	62.0	60.5	64.0

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

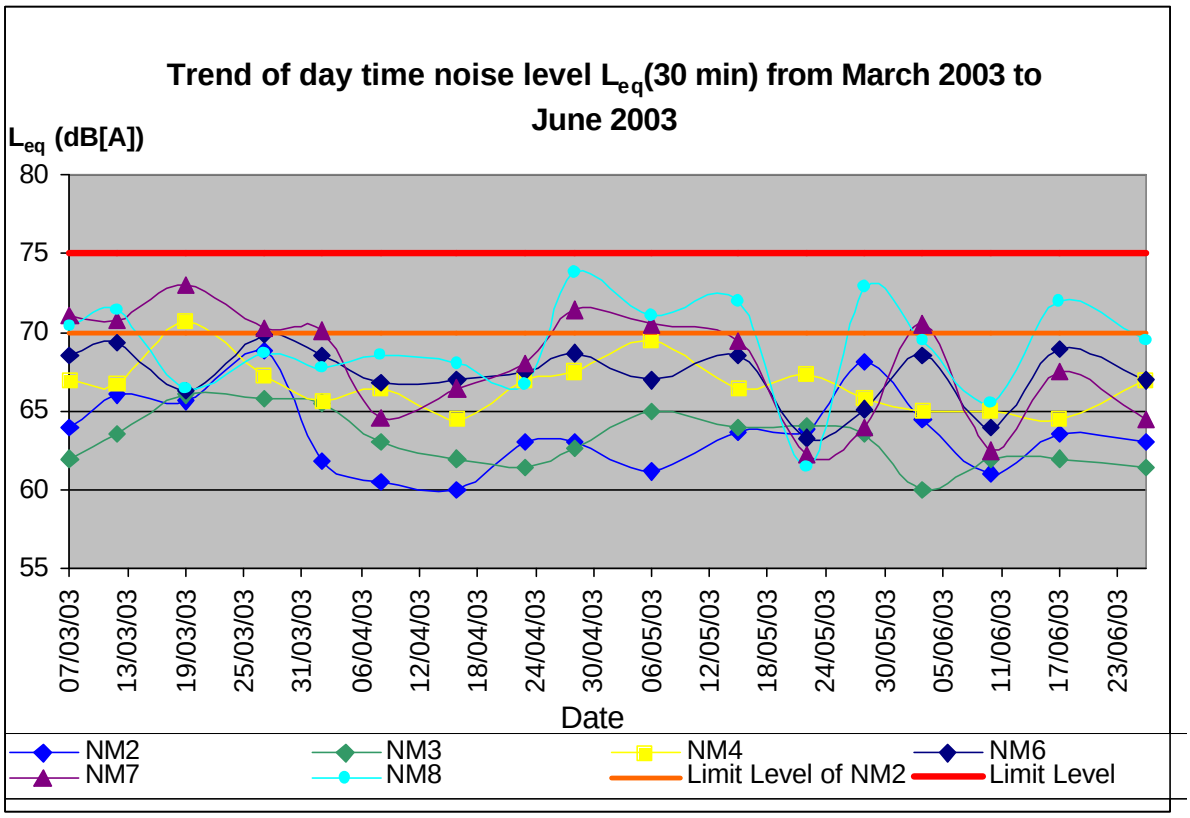
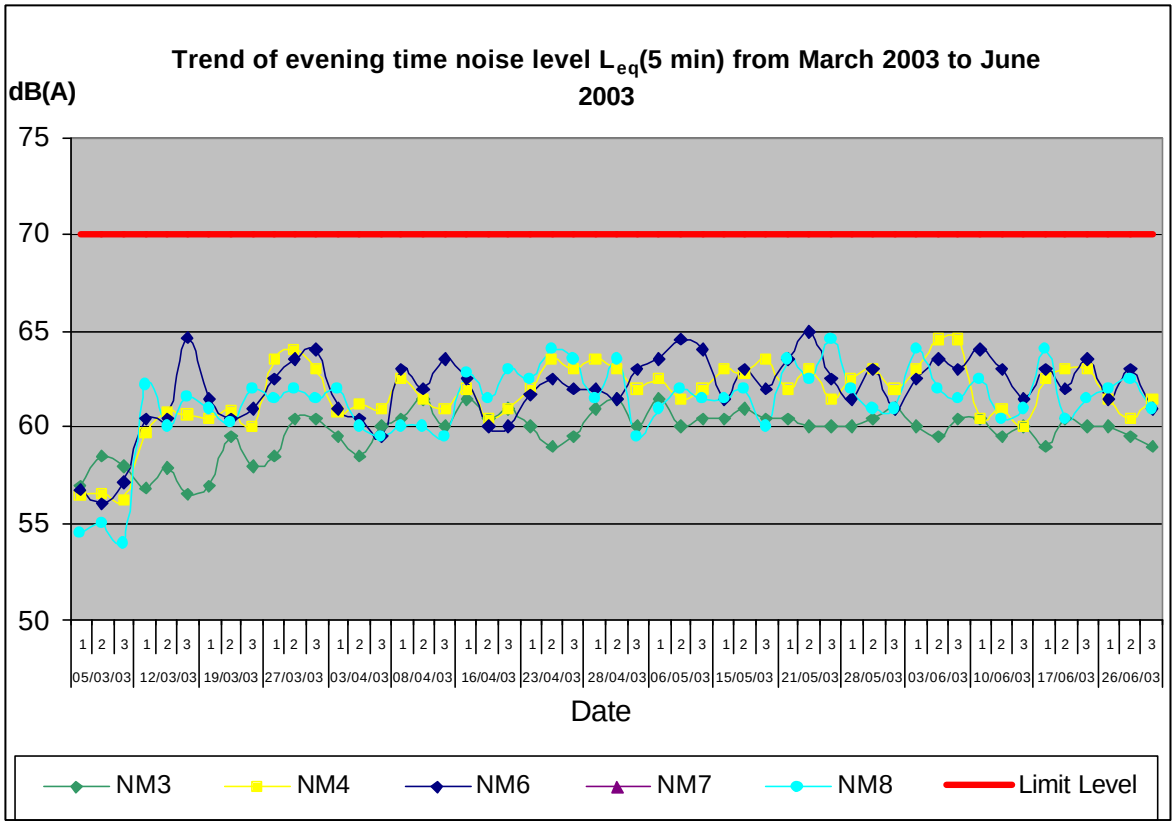


Table 4-2 - Construction evening time noise monitoring results from April 2003 to June 2003**.**

Date of Monitoring	Monitoring Results, L_{eq} dB(A) (5 min)				
	NM3	NM4	NM6	NM7*	NM8
02/04/03 (Wed)	59.5	60.8	61.0	-	62.0
	58.5	61.2	60.5	-	60.0
	60.0	61.0	59.5	-	59.5
08/04/03 (Tue)	60.5	62.5	63.0	-	60.0
	61.5	61.5	62.0	-	60.0
	60.0	61.0	63.5	-	59.5
16/04/03 (Wed)	61.5	62.0	62.5	-	62.8
	60.5	60.5	60.0	-	61.5
	61.0	61.0	60.0	-	63.0
23/04/03 (Wed)	60.0	62.0	61.7	-	62.5
	59.0	63.5	62.5	-	64.0
	59.5	63.0	62.0	-	63.5
28/04/03 (Mon)	61.0	63.5	62.0	-	61.5
	61.5	63.0	61.5	-	63.5
	60.0	62.0	63.0	-	59.5
06/05/03 (Tue)	61.5	62.5	63.5	-	61.0
	60.0	61.5	64.5	-	62.0
	60.5	62.0	64.0	-	61.5
15/05/03 (Thu)	60.5	63.0	61.5	-	61.5
	61.0	62.8	63.0	-	62.0
	60.5	63.5	62.0	-	60.0
21/05/03 (Wed)	60.5	62.0	63.5	-	63.5
	60.0	63.0	65.0	-	62.5
	60.0	61.5	62.5	-	64.5
28/05/03 (Wed)	60.0	62.5	61.5	-	62.0
	60.5	63.0	63.0	-	61.0
	61.0	62.0	61.0	-	61.0
03/06/03 (Tue)	60.0	63.0	62.5	-	64.0
	59.5	64.5	63.5	-	62.0
	60.5	64.5	63.0	-	61.5
10/06/03 (Tue)	60.5	60.5	64.0	-	62.5
	59.5	61.0	63.0	-	60.5
	60.0	60.0	61.5	-	61.0
17/06/03 (Tue)	59.0	62.5	63.0	-	64.0
	60.5	63.0	62.0	-	60.5
	60.0	63.0	63.5	-	61.5
26/06/03 (Thu)	60.0	61.5	61.5	-	62.0
	59.5	60.5	63.0	-	62.5
	59.0	61.5	61.0	-	61.0

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 March 2003 to June 2003.



5. AIR QUALITY MONITORING

5.1 24-hour TSP Monitoring Results

A total of sixteen 24-hour TSP monitoring were conducted at each location from April 2003 to June 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 April 2003 to June 2003.

Date of Monitoring	24-hour TSP Monitoring Results,(μg/m³)				
	AM2	AM3	AM4	AM5	AM6
01/04/03 (Tue)	44.9	42.7	51.0	56.7	41.5
07/04/03 (Mon)	68.6	65.2	56.6	63.3	58.7
12/04/03 (Sat)	43.2	46.4	46.3	31.4	39.8
22/04/03 (Tue)*	70.8	67.1	59.9	22.7	-
23/04/03 (Wed)	-	-	-	-	64.9
25/04/03 (Fri)	130.0	119.9	145.8	136.2	113.9
02/05/03 (Fri)	86.1	79.6	-	98.5	80.4
06/05/03 (Tue)*	-	-	42.4	-	-
07/05/03 (Wed)	34.5	31.9	41.0	32.8	31.9
13/05/03 (Tue)	47.7	-	57.1	67.5	46.8
15/05/03 (Thu)*	-	52.2	-	-	-
19/05/03 (Mon)	37.1	35.6	40.3	50.5	39.4
24/05/03 (Sat)	41.6	47.3	42.7	47.6	45.5
31/05/03 (Sat)	90.8	93.0	86.5	108.7	88.5
06/06/03 (Fri)	47.2	51.5	42.5	183.5	41.5
12/06/03 (Thu)	41.3	40.9	42.0	-	35.8
14/06/03 (Sat)#	-	-	-	42.6	-
18/06/03 (Wed)	128.6	123.2	158.5	151.8	126.7
24/06/03 (Tue)	27.4	41.7	35.3	32.1	28.8
30/06/03 (Mon)	21.6	22.6	20.4	24.3	24.2

Note: * The 24-hour TSP monitoring at AM6, AM4 and AM3 was postponed from 22/04/03, 02/05/03 and 13/05/03 to 23/04/03, 06/05/03 and 15/05/03 respectively due to shortage of power supply.

\# The 24-hour TSP monitoring at AM5 was postponed from 12/06/03 to 14/06/03 due to equipment failure.

5.2 1-hour Monitoring Results

A total of forty-five 1-hour TSP monitoring were conducted at each location from April 2003 to June 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 April 2003 to June 2003**.**

Date of Monitoring	1-hour TSP Monitoring Results, (μg/m³)				
	AM2	AM3	AM4	AM5	AM6
02/04/03 (Wed)	219.1	214.7	199.8	224.7	196.7
	206.0	200.8	177.5	193.0	173.6
	200.1	196.5	176.7	198.4	174.7
08/04/03 (Tue)	166.5	193.8	170.5	171.4	162.8
	144.8	193.5	145.0	158.8	163.6
	151.2	194.7	155.1	172.2	167.2
16/04/03 (Wed)	204.7	193.0	168.4	184.1	194.0
	227.8	222.3	197.1	182.2	177.8
	226.3	204.6	190.6	199.4	191.4
23/04/03 (Wed)	188.6	187.3	214.2	219.6	198.7
	199.6	199.2	224.2	229.0	208.1
	206.7	207.4	231.9	239.1	223.7
28/04/03 (Mon)	204.2	209.2	213.7	199.2	227.1
	193.4	204.1	206.2	190.9	219.4
	185.5	198.1	196.0	183.4	213.0
06/05/03 (Tue)	164.7	153.0	159.0	153.2	156.3
	150.3	145.0	146.9	155.9	154.8
	142.6	137.8	133.2	163.2	169.2
09/05/03 (Fri)	201.7	189.7	202.7	226.8	210.5
	201.0	186.2	194.9	217.4	208.7
	206.6	195.2	203.7	228.8	210.5
15/05/03 (Thu)	196.0	186.0	183.3	209.3	186.2
	217.8	182.5	172.5	205.2	181.7
	231.4	129.6	160.8	174.7	142.1
22/05/03 (Thu)	181.0	204.3	194.8	187.1	205.8
	193.0	196.6	202.4	179.8	185.3
	178.5	226.7	204.4	201.6	212.7
28/05/03 (Wed)	183.5	210.8	201.7	202.0	224.0
	183.3	209.8	198.2	199.9	222.9
	184.5	211.2	198.9	201.8	232.1

Date of Monitoring	1-hour TSP Monitoring Results, (µg/m³)				
	AM2	AM3	AM4	AM5	AM6
03/06/03 (Tue)	222.7	196.2	200.3	266.2	213.7
	217.4	192.8	197.1	276.0	205.1
	207.5	183.8	180.6	259.7	193.5
10/06/03 (Tue)	179.9	154.6	141.0	150.9	168.7
	178.0	151.2	135.4	146.7	164.1
	169.5	134.5	154.2	125.2	152.1
17/06/03 (Tue)	215.7	216.2	236.2	196.0	209.9
	193.5	190.4	213.6	174.9	191.4
	185.2	182.3	205.1	162.8	183.1
23/06/03 (Mon)	177.8	189.4	173.4	163.2	145.9
	162.2	159.2	138.0	144.3	125.1
	165.6	182.7	146.8	149.3	129.6
26/06/03 (Thu)	154.7	120.7	121.2	138.6	116.2
	146.7	130.9	107.6	132.1	104.3
	147.3	157.0	132.7	146.4	132.7

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

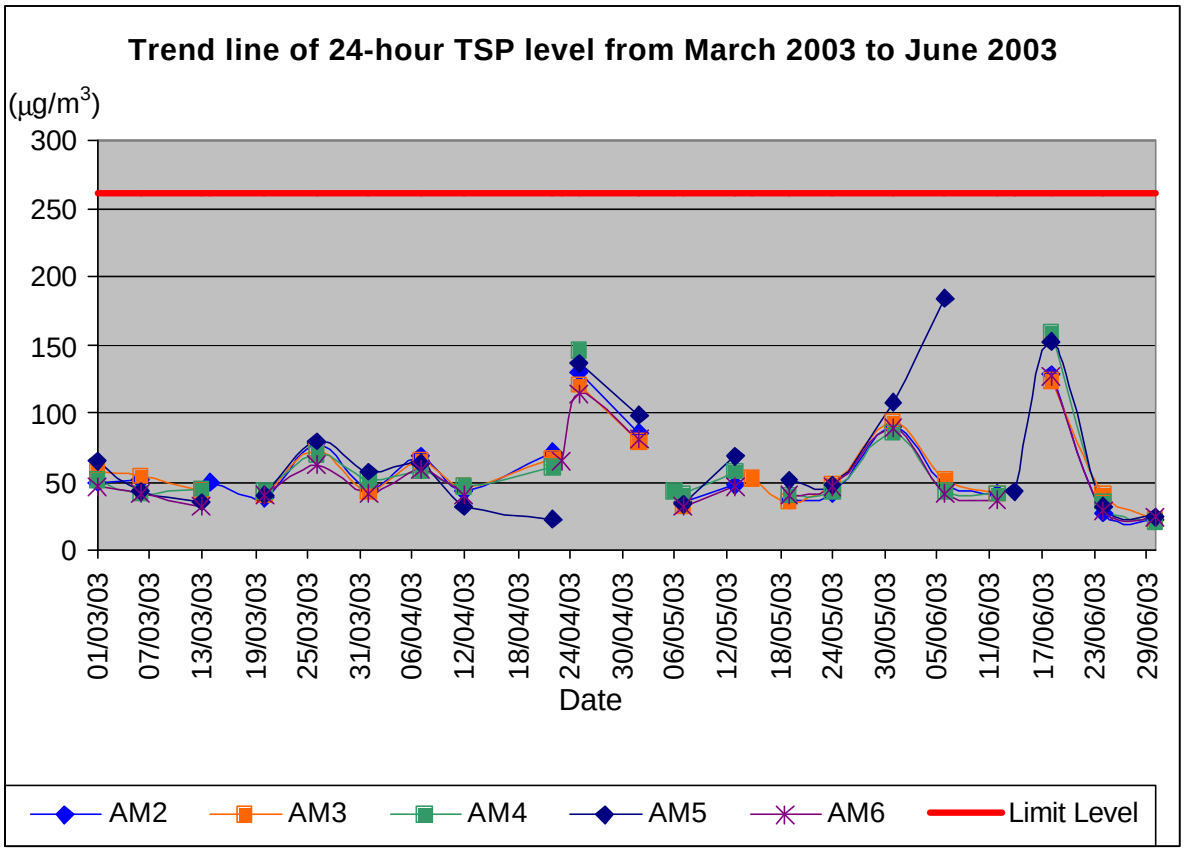
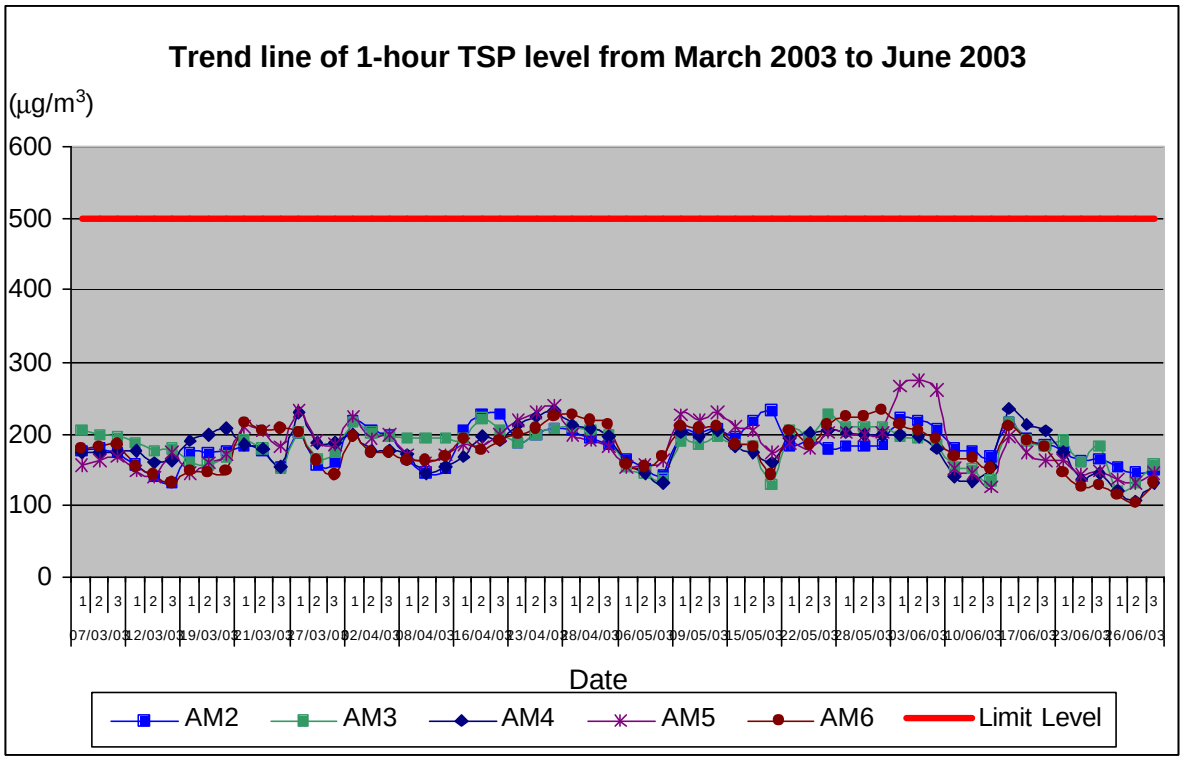


Figure 5-2 - Trend of 1-hour TSP levels from March 2003 to June 2003.



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

6.1 Waste Disposal

A total of 52 loads of waste from site clearance (i.e. felled trees) have been disposed of at NENT Landfill from April 2003 to June 2003. The total tonnage of the waste disposal from April 2003 to June 2003 was 403.8 tonnes.

A total of 3,186 loads of rocks (ϕ > 400mm) have been disposed of at the follow government project sites from April 2003 to June 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. FL27/02 Completion of the Remaining River Training Works for Upper Indus between Man Kam To & San Wai*

The total quantity of the disposed rocks was 22,780.0 m^3 from April 2003 to June 2003.

A total of 610 loads of inert material have been disposed of at Public Filling Area from April 2003 to June 2003. The total quantity of the disposed inert materials was 3,660.0 m^3 from April 2003 to June 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 (m^3)	Number of Loads to Public Filling Area	Total Disposed Quantity (m^3)
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
August 2002*	-	-	548	3,390.6	63	372.0

Month	Number of Loads to NENT	Total Disposed Tonnage (tonnes)	Number of Loads to others gov. designated project#	Total Disposed Quantity (m^3)	Number of Loads to Public Filling Area	Total Disposed Quantity (m^3)
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	121.7	835	5,970.3	286	1,716.0
June 2003	29	243.7	1,738	12,426.7	172	1,032.0
Total	1,543	11,205.2	28,443	202,837.7	6,514	38,712.0

Note: # -TDD Contract No. YL 46/99 Tin Shui Wai Further Development – Road D3 and Constructed Wetland,
-Contract No. FL27/02 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.
* The updated waste disposal data was provided by CT in March 2003

6.2 EPD Site Inspection

ET was informed by the CT that EPD visited the site on 10/04/03 and 24/06/03.

6.3 Complaint Record

A total of eight public complaints regarding construction noise were received on 06/04/03, 24/04/03, 30/05/03, 09/06/03, 23/06/03 and 27/06/03 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	Resolved
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

Date Received	Source of Complaint	Complaint Issue	Status
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	Resolved
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
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

Date Received	Source of Complaint	Complaint Issue	Status
06/02/03	Public (Monte Vista)	Noise	Resolved
06/04/03	Public (Ridge Garden)	Noise	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

6.4 Non-compliance Record

There was no exceedance recorded in the period from April 2003 to June 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 June 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
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

Period	Noise Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
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

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

Period	24-hours TSP Monitoring		
	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
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

Period	24-hours TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
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

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

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

Period	1-hour TSP Monitoring		
	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
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

Period	1-hour TSP Monitoring		
	Number of Monitoring	Number of Compliance	Compliance Percentage (%)
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

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 April 2003 to June 2003

Details of Day Time Noise Impact Monitoring

Month	Date	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
			Start	Finish			L_{eq}	L_{10}	L_{90}
Apr-03	02-Apr-03	NM2	13:50	14:20	Fine	0.5	61.8	62.1	59.5
Apr-03	02-Apr-03	NM3	14:35	15:05	Fine	0.6	65.5	68.5	61.0
Apr-03	02-Apr-03	NM4	13:00	13:30	Fine	0.4	65.6	67.1	64.6
Apr-03	02-Apr-03	NM6	11:20	11:50	Fine	0.5	68.6	71.5	61.0
Apr-03	02-Apr-03	NM7	10:00	10:30	Fine	0.5	70.1	72.5	66.5
Apr-03	02-Apr-03	NM8	10:35	11:05	Fine	0.6	67.8	69.6	64.6
Apr-03	08-Apr-03	NM2	11:30	12:00	Fine	0.5	60.5	64.0	57.5
Apr-03	08-Apr-03	NM3	10:50	11:20	Fine	0.3	63.0	65.5	59.0
Apr-03	08-Apr-03	NM4	13:00	13:30	Fine	0.4	66.5	69.0	62.0
Apr-03	08-Apr-03	NM6	8:40	9:10	Fine	0.4	66.9	68.1	63.6
Apr-03	08-Apr-03	NM7	9:25	9:55	Fine	0.5	64.6	67.6	59.6
Apr-03	08-Apr-03	NM8	10:00	10:30	Fine	0.4	68.5	70.1	63.5
Apr-03	16-Apr-03	NM2	16:15	16:45	sunny	0.4	60.0	65.5	58.0
Apr-03	16-Apr-03	NM3	15:40	16:10	sunny	0.3	62.0	64.5	59.0
Apr-03	16-Apr-03	NM4	15:00	15:30	sunny	0.5	64.5	69.8	60.5
Apr-03	16-Apr-03	NM6	14:15	14:45	sunny	0.6	67.0	69.5	62.0
Apr-03	16-Apr-03	NM7	13:35	14:05	sunny	0.6	66.5	69.8	61.5
Apr-03	16-Apr-03	NM8	13:00	13:30	sunny	0.5	68.0	70.5	63.0
Apr-03	23-Apr-03	NM2	8:00	8:30	sunny	0.4	63.0	65.0	58.0
Apr-03	23-Apr-03	NM3	8:40	9:10	sunny	0.3	61.5	64.7	57.5
Apr-03	23-Apr-03	NM4	9:25	9:55	sunny	0.5	67.0	69.5	62.5
Apr-03	23-Apr-03	NM6	11:30	12:00	sunny	0.6	67.5	72.3	61.5
Apr-03	23-Apr-03	NM7	10:05	10:35	sunny	0.6	68.0	72.5	73.5
Apr-03	23-Apr-03	NM8	10:40	11:10	sunny	0.5	66.7	70.0	62.5
Apr-03	28-Apr-03	NM2	13:15	13:45	Sunny	0.4	63.0	64.5	60.5
Apr-03	28-Apr-03	NM3	14:00	14:30	Sunny	0.3	62.6	64.4	58.9
Apr-03	28-Apr-03	NM4	14:55	15:25	Sunny	0.5	67.5	70.5	63.5
Apr-03	28-Apr-03	NM6	15:00	15:30	Sunny	0.6	68.7	71.9	64.4
Apr-03	28-Apr-03	NM7	8:20	8:50	Sunny	0.4	71.5	76.0	62.8
Apr-03	28-Apr-03	NM8	9:00	9:30	Sunny	0.6	73.8	78.5	64.7
May-03	06-May-03	NM2	8:30	9:00	Fine	0.5	61.2	63.5	58.0
May-03	06-May-03	NM3	11:30	12:00	Fine	0.4	65.0	68.5	60.0
May-03	06-May-03	NM4	10:55	11:25	Fine	0.4	69.5	74.5	61.5
May-03	06-May-03	NM6	10:15	10:45	Fine	0.5	67.0	70.5	62.8
May-03	06-May-03	NM7	9:00	9:30	Fine	0.5	70.5	73.0	64.5
May-03	06-May-03	NM8	9:35	10:05	Fine	0.4	71.0	76.5	62.5
May-03	15-May-03	NM2	8:00	8:30	Sunny	0.4	63.7	67.5	61.0
May-03	15-May-03	NM3	8:45	9:15	Sunny	0.4	64.0	66.5	60.0
May-03	15-May-03	NM4	9:20	9:50	Sunny	0.6	66.5	69.0	61.5
May-03	15-May-03	NM6	11:20	11:50	Sunny	0.5	68.5	72.0	62.5
May-03	15-May-03	NM7	10:00	10:30	Sunny	0.6	69.5	72.5	64.0
May-03	15-May-03	NM8	10:35	11:05	Sunny	0.5	72.0	74.5	65.0
May-03	22-May-03	NM2	13:40	14:10	sunny	0.5	63.8	65.5	61.0
May-03	22-May-03	NM3	13:00	13:30	sunny	0.4	64.1	65.5	61.5
May-03	22-May-03	NM4	11:30	12:00	sunny	0.5	67.4	68.0	60.0
May-03	22-May-03	NM6	9:13	9:43	sunny	0.6	63.3	64.5	61.0
May-03	22-May-03	NM7	9:55	10:25	sunny	0.8	62.2	64.5	58.5
May-03	22-May-03	NM8	10:35	11:05	sunny	0.8	61.4	62.5	58.0
May-03	28-May-03	NM2	9:00	9:30	sunny	0.6	68.2	69.5	66.0
May-03	28-May-03	NM3	11:15	11:45	sunny	0.4	63.6	66.0	57.5
May-03	28-May-03	NM4	13:05	13:35	sunny	0.4	65.8	67.5	57.0
May-03	28-May-03	NM6	9:10	9:40	sunny	0.6	65.1	66.5	61.5
May-03	28-May-03	NM7	9:50	10:20	sunny	0.4	63.9	65.5	60.5
May-03	28-May-03	NM8	10:30	11:00	sunny	0.6	72.9	76.5	59.5
Jun-03	03-Jun-03	NM2	13:00	13:30	sunny	0.4	64.5	66.0	60.0
Jun-03	03-Jun-03	NM3	13:40	14:10	sunny	0.3	60.0	62.5	58.5
Jun-03	03-Jun-03	NM4	14:15	14:45	sunny	0.5	65.0	67.0	60.5
Jun-03	03-Jun-03	NM6	16:00	16:30	sunny	0.6	68.5	71.0	61.5
Jun-03	03-Jun-03	NM7	14:50	15:20	sunny	0.5	70.5	73.0	62.5
Jun-03	03-Jun-03	NM8	15:25	15:55	sunny	0.5	69.5	72.0	64.0
Jun-03	10-Jun-03	NM2	10:50	11:20	Cloudy	0.5	61.0	63.0	59.0
Jun-03	10-Jun-03	NM3	11:00	11:30	Cloudy	0.4	62.0	63.5	58.0
Jun-03	10-Jun-03	NM4	10:55	11:25	Cloudy	0.5	65.0	68.5	61.5
Jun-03	10-Jun-03	NM6	10:10	10:40	Cloudy	0.5	64.0	67.0	60.5
Jun-03	10-Jun-03	NM7	10:05	10:35	Cloudy	0.5	62.5	64.0	60.0
Jun-03	10-Jun-03	NM8	10:00	10:30	Cloudy	0.4	65.5	68.0	61.0

Details of Day Time Noise Impact Monitoring

Month	Date	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
			Start	Finish			L_{eq}	L_{10}	L_{90}
Jun-03	17-Jun-03	NM2	8:00	8:30	Fine	0.4	63.5	66.0	59.5
Jun-03	17-Jun-03	NM3	8:40	9:10	Fine	0.4	62.0	64.5	58.0
Jun-03	17-Jun-03	NM4	9:30	10:00	Fine	0.4	64.5	67.5	60.5
Jun-03	17-Jun-03	NM6	13:00	13:30	Fine	0.5	69.0	73.5	63.0
Jun-03	17-Jun-03	NM7	10:10	10:40	Fine	0.6	67.5	70.5	60.5
Jun-03	17-Jun-03	NM8	10:35	11:05	Fine	0.6	72.0	76.8	63.0
Jun-03	26-Jun-03	NM2	13:00	13:30	sunny	0.5	63.0	65.5	60.0
Jun-03	26-Jun-03	NM3	0:00	0:30	sunny	0.4	61.5	64.0	58.0
Jun-03	26-Jun-03	NM4	10:30	11:00	sunny	0.4	67.0	71.5	60.5
Jun-03	26-Jun-03	NM6	8:30	9:00	sunny	0.5	67.0	70.5	62.0
Jun-03	26-Jun-03	NM7	9:15	9:45	sunny	0.4	64.5	66.0	60.5
Jun-03	26-Jun-03	NM8	9:50	10:20	sunny	0.5	69.5	75.0	64.0

Details of Evening time Noise Impact Monitoring

Month	Date	Set No.	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
				Start	Finish			L_{eq}	L_{10}	L_{90}
Apr-03	03-Apr-03	1	NM3	19:00	19:05	fine	0.3	59.5	61.5	55.0
Apr-03	03-Apr-03	2	NM3	19:05	19:10	fine	0.3	58.5	61.0	55.0
Apr-03	03-Apr-03	3	NM3	19:10	19:15	fine	0.3	60.0	63.0	57.5
Apr-03	03-Apr-03	1	NM4	19:30	19:35	fine	0.3	60.8	63.0	57.5
Apr-03	03-Apr-03	2	NM4	19:35	19:40	fine	0.3	61.2	63.5	57.0
Apr-03	03-Apr-03	3	NM4	19:40	19:45	fine	0.3	61.0	64.0	57.0
Apr-03	03-Apr-03	1	NM6	20:30	20:35	fine	0.4	61.0	61.8	56.0
Apr-03	03-Apr-03	2	NM6	20:35	20:40	fine	0.4	60.5	62.0	56.5
Apr-03	03-Apr-03	3	NM6	20:40	20:45	fine	0.4	59.5	61.5	56.0
Apr-03	03-Apr-03	1	NM8	20:00	20:05	fine	0.4	62.0	64.5	59.0
Apr-03	03-Apr-03	2	NM8	20:05	20:10	fine	0.4	60.0	63.0	57.0
Apr-03	03-Apr-03	3	NM8	20:10	20:15	fine	0.4	59.5	61.5	57.0
Apr-03	08-Apr-03	1	NM3	19:00	19:05	fine	0.3	60.5	63.0	57.5
Apr-03	08-Apr-03	2	NM3	19:05	19:10	fine	0.3	61.5	63.5	57.0
Apr-03	08-Apr-03	3	NM3	19:10	19:15	fine	0.3	60.0	62.5	57.0
Apr-03	08-Apr-03	1	NM4	19:25	19:30	fine	0.4	62.5	65.0	59.5
Apr-03	08-Apr-03	2	NM4	19:30	19:35	fine	0.4	61.5	63.5	60.0
Apr-03	08-Apr-03	3	NM4	19:35	19:40	fine	0.4	61.0	63.0	58.5
Apr-03	08-Apr-03	1	NM6	20:20	20:25	fine	0.6	63.0	64.5	59.5
Apr-03	08-Apr-03	2	NM6	20:25	20:30	fine	0.6	62.0	64.5	60.0
Apr-03	08-Apr-03	3	NM6	20:30	20:35	fine	0.6	63.5	65.8	60.0
Apr-03	08-Apr-03	1	NM8	19:55	20:00	fine	0.5	60.0	63.0	57.5
Apr-03	08-Apr-03	2	NM8	20:00	20:05	fine	0.5	60.0	63.5	58.0
Apr-03	08-Apr-03	3	NM8	20:05	20:10	fine	0.5	59.5	63.0	58.0
Apr-03	16-Apr-03	1	NM3	19:00	19:05	fine	0.3	61.5	63.7	57.0
Apr-03	16-Apr-03	2	NM3	19:05	19:10	fine	0.3	60.5	62.0	57.0
Apr-03	16-Apr-03	3	NM3	19:10	19:15	fine	0.3	61.0	62.5	56.5
Apr-03	16-Apr-03	1	NM4	19:25	19:30	fine	0.4	62.0	64.5	60.0
Apr-03	16-Apr-03	2	NM4	19:30	19:35	fine	0.4	60.5	63.0	59.5
Apr-03	16-Apr-03	3	NM4	19:35	19:40	fine	0.4	61.0	64.0	60.0
Apr-03	16-Apr-03	1	NM6	20:25	20:30	fine	0.5	62.5	65.8	60.5
Apr-03	16-Apr-03	2	NM6	20:30	20:35	fine	0.5	60.0	63.0	58.0
Apr-03	16-Apr-03	3	NM6	20:35	20:40	fine	0.5	60.0	63.5	58.5
Apr-03	16-Apr-03	1	NM8	19:55	20:00	fine	0.5	62.8	65.0	56.8
Apr-03	16-Apr-03	2	NM8	20:00	20:05	fine	0.5	61.5	63.0	57.0
Apr-03	16-Apr-03	3	NM8	20:05	20:10	fine	0.5	63.0	64.5	57.5
Apr-03	23-Apr-03	1	NM3	19:00	19:05	fine	0.4	60.0	62.5	57.5
Apr-03	23-Apr-03	2	NM3	19:05	19:10	fine	0.4	59.0	62.5	57.0
Apr-03	23-Apr-03	3	NM3	19:10	19:15	fine	0.4	59.5	63.0	57.0
Apr-03	23-Apr-03	1	NM4	19:35	19:40	fine	0.4	62.0	64.5	59.0
Apr-03	23-Apr-03	2	NM4	19:40	19:45	fine	0.4	63.5	65.0	60.5
Apr-03	23-Apr-03	3	NM4	19:45	19:50	fine	0.4	63.0	65.0	60.0
Apr-03	23-Apr-03	1	NM6	20:40	20:45	fine	0.4	61.7	64.0	60.0
Apr-03	23-Apr-03	2	NM6	20:45	20:50	fine	0.4	62.5	64.0	60.5
Apr-03	23-Apr-03	3	NM6	20:50	20:55	fine	0.4	62.0	64.0	60.0
Apr-03	23-Apr-03	1	NM8	20:05	20:10	fine	0.4	62.5	64.0	60.0
Apr-03	23-Apr-03	2	NM8	20:10	20:15	fine	0.4	64.0	65.5	60.5
Apr-03	23-Apr-03	3	NM8	20:15	20:20	fine	0.4	63.5	65.0	60.0
Apr-03	28-Apr-03	1	NM3	19:00	19:05	fine	0.3	61.0	63.5	58.0
Apr-03	28-Apr-03	2	NM3	19:05	19:10	fine	0.3	61.5	64.0	57.0
Apr-03	28-Apr-03	3	NM3	19:10	19:15	fine	0.3	60.0	63.0	57.5
Apr-03	28-Apr-03	1	NM4	19:30	19:35	fine	0.4	63.5	64.5	63.0
Apr-03	28-Apr-03	2	NM4	19:35	19:40	fine	0.4	63.0	64.7	62.0
Apr-03	28-Apr-03	3	NM4	19:40	19:45	fine	0.4	62.0	64.0	61.5
Apr-03	28-Apr-03	1	NM6	20:40	20:45	fine	0.5	62.0	64.5	60.5
Apr-03	28-Apr-03	2	NM6	20:45	20:50	fine	0.5	61.5	65.0	60.0
Apr-03	28-Apr-03	3	NM6	20:50	20:55	fine	0.5	63.0	65.5	60.0
Apr-03	28-Apr-03	1	NM8	20:10	20:15	fine	0.5	61.5	62.8	60.0
Apr-03	28-Apr-03	2	NM8	20:15	20:20	fine	0.5	63.5	65.0	60.5
Apr-03	28-Apr-03	3	NM8	20:20	20:25	fine	0.5	59.5	61.5	58.0

Details of Evening time Noise Impact Monitoring

Month	Date	Set No.	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
				Start	Finish			L_{eq}	L_{10}	L_{90}
May-03	06-May-03	1	NM3	19:00	19:05	fine	0.4	61.5	63.0	58.0
May-03	06-May-03	2	NM3	19:05	19:10	fine	0.4	60.0	63.5	58.5
May-03	06-May-03	3	NM3	19:10	19:15	fine	0.4	60.5	63.0	59.0
May-03	06-May-03	1	NM4	19:40	19:45	fine	0.4	62.5	65.0	60.0
May-03	06-May-03	2	NM4	19:45	19:50	fine	0.4	61.5	63.0	59.5
May-03	06-May-03	3	NM4	19:50	19:55	fine	0.4	62.0	63.5	60.0
May-03	06-May-03	1	NM6	20:40	20:45	fine	0.3	63.5	66.0	60.5
May-03	06-May-03	2	NM6	20:45	20:50	fine	0.3	64.5	66.0	60.0
May-03	06-May-03	3	NM6	20:50	20:55	fine	0.3	64.0	66.5	60.5
May-03	06-May-03	1	NM8	20:15	20:20	fine	0.4	61.0	62.5	59.5
May-03	06-May-03	2	NM8	20:20	20:25	fine	0.4	62.0	63.0	61.5
May-03	06-May-03	3	NM8	20:25	20:30	fine	0.4	61.5	63.0	60.0
May-03	15-May-03	1	NM3	19:00	19:05	fine	0.4	60.5	63.0	58.5
May-03	15-May-03	2	NM3	19:05	19:10	fine	0.4	61.0	63.0	58.0
May-03	15-May-03	3	NM3	19:10	19:15	fine	0.4	60.5	63.5	58.0
May-03	15-May-03	1	NM4	19:30	19:35	fine	0.4	63.0	65.5	60.5
May-03	15-May-03	2	NM4	19:35	19:40	fine	0.4	62.8	65.0	60.0
May-03	15-May-03	3	NM4	19:40	19:45	fine	0.4	63.5	65.5	60.5
May-03	15-May-03	1	NM6	20:05	20:10	fine	0.5	61.5	64.5	60.5
May-03	15-May-03	2	NM6	20:10	20:15	fine	0.5	63.0	65.0	61.0
May-03	15-May-03	3	NM6	20:15	20:20	fine	0.5	62.0	64.0	60.0
May-03	15-May-03	1	NM8	20:35	20:40	fine	0.4	61.5	63.0	58.0
May-03	15-May-03	2	NM8	20:40	20:45	fine	0.4	62.0	64.5	59.5
May-03	15-May-03	3	NM8	20:45	20:50	fine	0.4	60.0	62.0	59.0
May-03	21-May-03	1	NM3	20:30	20:35	fine	0.5	60.5	63.0	58.5
May-03	21-May-03	2	NM3	20:35	20:40	fine	0.5	60.0	62.0	59.0
May-03	21-May-03	3	NM3	20:40	20:45	fine	0.5	60.0	63.5	59.0
May-03	21-May-03	1	NM4	20:05	20:10	fine	0.4	62.0	65.0	60.0
May-03	21-May-03	2	NM4	20:10	20:15	fine	0.4	63.0	66.0	60.5
May-03	21-May-03	3	NM4	20:15	20:20	fine	0.4	61.5	64.0	60.0
May-03	21-May-03	1	NM6	19:30	19:35	fine	0.7	63.5	65.5	61.5
May-03	21-May-03	2	NM6	19:35	19:40	fine	0.7	65.0	67.5	62.0
May-03	21-May-03	3	NM6	19:40	19:45	fine	0.7	62.5	65.0	61.5
May-03	21-May-03	1	NM8	19:00	19:05	fine	0.7	63.5	65.5	60.5
May-03	21-May-03	2	NM8	19:05	19:10	fine	0.7	62.5	64.5	60.0
May-03	21-May-03	3	NM8	19:10	19:15	fine	0.7	64.5	66.0	61.5
May-03	28-May-03	1	NM3	19:00	19:05	fine	0.4	60.0	62.0	57.5
May-03	28-May-03	2	NM3	19:05	19:10	fine	0.4	60.5	62.0	58.0
May-03	28-May-03	3	NM3	19:10	19:15	fine	0.4	61.0	62.5	58.0
May-03	28-May-03	1	NM4	19:30	19:35	fine	0.5	62.5	64.5	57.0
May-03	28-May-03	2	NM4	19:35	19:40	fine	0.5	63.0	65.0	57.5
May-03	28-May-03	3	NM4	19:40	19:45	fine	0.5	62.0	64.5	57.5
May-03	28-May-03	1	NM6	20:00	20:05	fine	0.4	61.5	63.0	58.0
May-03	28-May-03	2	NM6	20:05	20:10	fine	0.4	63.0	65.0	59.5
May-03	28-May-03	3	NM6	20:10	20:15	fine	0.4	61.0	63.5	58.5
May-03	28-May-03	1	NM8	20:30	20:35	fine	0.4	62.0	64.5	60.0
May-03	28-May-03	2	NM8	20:35	20:40	fine	0.4	61.0	63.0	60.0
May-03	28-May-03	3	NM8	20:40	20:45	fine	0.4	61.0	62.0	59.5
Jun-03	03-Jun-03	1	NM3	20:50	20:55	fine	0.4	60.0	62.0	57.5
Jun-03	03-Jun-03	2	NM3	20:55	21:00	fine	0.4	59.5	62.0	58.0
Jun-03	03-Jun-03	3	NM3	21:00	21:05	fine	0.4	60.5	62.5	59.0
Jun-03	03-Jun-03	1	NM4	20:20	20:25	fine	0.4	63.0	65.0	60.5
Jun-03	03-Jun-03	2	NM4	20:25	20:30	fine	0.4	64.5	65.0	60.5
Jun-03	03-Jun-03	3	NM4	20:30	20:35	fine	0.4	64.5	66.0	61.0
Jun-03	03-Jun-03	1	NM6	19:40	19:45	fine	0.4	62.5	65.0	60.0
Jun-03	03-Jun-03	2	NM6	19:45	19:50	fine	0.4	63.5	64.5	60.5
Jun-03	03-Jun-03	3	NM6	19:50	19:55	fine	0.4	63.0	64.5	60.0
Jun-03	03-Jun-03	1	NM8	19:00	19:05	fine	0.5	64.0	66.0	60.5
Jun-03	03-Jun-03	2	NM8	19:05	19:10	fine	0.5	62.0	64.5	60.0
Jun-03	03-Jun-03	3	NM8	19:10	19:15	fine	0.5	61.5	63.0	59.0

Details of Evening time Noise Impact Monitoring

Month	Date	Set No.	NSR No.	Time periods		Weather condition	Avg. wind speed (m/s)	Noise Level dB(A)		
				Start	Finish			L_{eq}	L_{10}	L_{90}
Jun-03	10-Jun-03	1	NM3	19:00	19:05	fine	0.4	60.5	62.0	57.0
Jun-03	10-Jun-03	2	NM3	19:05	19:10	fine	0.4	59.5	61.0	57.0
Jun-03	10-Jun-03	3	NM3	19:10	19:15	fine	0.4	60.0	61.5	57.5
Jun-03	10-Jun-03	1	NM4	19:20	19:25	fine	0.4	60.5	62.0	57.5
Jun-03	10-Jun-03	2	NM4	19:25	19:30	fine	0.4	61.0	63.0	58.0
Jun-03	10-Jun-03	3	NM4	19:30	19:35	fine	0.4	60.0	62.5	57.0
Jun-03	10-Jun-03	1	NM6	20:00	20:05	fine	0.5	64.0	66.5	61.0
Jun-03	10-Jun-03	2	NM6	20:05	20:10	fine	0.5	63.0	65.0	60.5
Jun-03	10-Jun-03	3	NM6	20:10	20:15	fine	0.5	61.5	63.0	59.0
Jun-03	10-Jun-03	1	NM8	20:30	20:35	fine	0.5	62.5	64.0	57.5
Jun-03	10-Jun-03	2	NM8	20:35	20:40	fine	0.5	60.5	62.5	58.0
Jun-03	10-Jun-03	3	NM8	20:40	20:45	fine	0.5	61.0	63.0	58.0
Jun-03	17-Jun-03	1	NM3	19:00	19:05	fine	0.4	59.0	65.0	57.5
Jun-03	17-Jun-03	2	NM3	19:05	19:10	fine	0.4	60.5	62.5	58.0
Jun-03	17-Jun-03	3	NM3	19:10	19:15	fine	0.4	60.0	63.0	58.5
Jun-03	17-Jun-03	1	NM4	19:30	19:35	fine	0.5	62.5	65.0	60.5
Jun-03	17-Jun-03	2	NM4	19:35	19:40	fine	0.5	63.0	65.5	60.0
Jun-03	17-Jun-03	3	NM4	19:40	19:45	fine	0.5	63.0	65.0	61.0
Jun-03	17-Jun-03	1	NM6	20:35	20:40	fine	0.5	63.0	64.5	60.5
Jun-03	17-Jun-03	2	NM6	20:40	20:45	fine	0.5	62.0	63.5	60.0
Jun-03	17-Jun-03	3	NM6	20:45	20:50	fine	0.5	63.5	65.0	61.0
Jun-03	17-Jun-03	1	NM8	20:00	20:05	fine	0.5	64.0	66.5	60.5
Jun-03	17-Jun-03	2	NM8	20:05	20:10	fine	0.5	60.5	62.5	57.5
Jun-03	17-Jun-03	3	NM8	20:10	20:15	fine	0.5	61.5	63.0	58.0
Jun-03	26-Jun-03	1	NM3	20:55	21:00	fine	0.3	60.0	61.5	58.0
Jun-03	26-Jun-03	2	NM3	21:00	21:05	fine	0.3	59.5	61.5	57.0
Jun-03	26-Jun-03	3	NM3	21:05	21:10	fine	0.3	59.0	61.0	57.5
Jun-03	26-Jun-03	1	NM4	20:30	20:35	fine	0.4	61.5	63.5	59.5
Jun-03	26-Jun-03	2	NM4	20:35	20:40	fine	0.4	60.5	62.0	58.0
Jun-03	26-Jun-03	3	NM4	20:40	20:45	fine	0.4	61.5	64.0	59.0
Jun-03	26-Jun-03	1	NM6	19:00	19:05	fine	0.4	61.5	63.0	59.0
Jun-03	26-Jun-03	2	NM6	19:05	19:10	fine	0.4	63.0	65.0	60.5
Jun-03	26-Jun-03	3	NM6	19:10	19:15	fine	0.4	61.0	63.5	58.0
Jun-03	26-Jun-03	1	NM8	19:40	19:45	fine	0.4	62.0	63.0	58.5
Jun-03	26-Jun-03	2	NM8	19:45	19:50	fine	0.4	62.5	64.0	60.0
Jun-03	26-Jun-03	3	NM8	19:50	19:55	fine	0.4	61.0	63.0	59.0

APPENDIX 2

24-hour TSP Monitoring Results for April 2003 to June 2003

Details of 24-Hour TSP Monitoring

Filter No.	Month	Date	Receptor No.	Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m^3/min)		Average Flow Rate (m^3/min)	Elapse Time		Sampling Time (mins.)	Total vol. (m^3)	24-hour TSP Level ($\mu g/m^3$)
						Initial	Final		Initial	Final		Start	Finish			
DY77	Apr-03	01-Apr-03	AM2	Fine	normal operation	3.5195	3.5999	0.0804	1.2477	1.2400	1.2439	3267.52	3291.52	1440.00	1791.14	44.9
DY78	Apr-03	01-Apr-03	AM3	Fine	normal operation	3.5178	3.5936	0.0758	1.2367	1.2277	1.2322	3198.93	3222.93	1440.00	1774.37	42.7
DY79	Apr-03	01-Apr-03	AM4	Fine	normal operation	3.5103	3.6165	0.1062	1.4518	1.4406	1.4462	3230.23	3254.23	1440.00	2082.53	51.0
DY56	Apr-03	01-Apr-03	AM5	Fine	normal operation	3.6211	3.7304	0.1093	1.3453	1.3335	1.3394	2794.89	2818.89	1440.00	1928.74	56.7
DY81	Apr-03	01-Apr-03	AM6	Fine	normal operation	3.4851	3.5823	0.0972	1.6326	1.6198	1.6262	1367.70	1391.70	1440.00	2341.73	41.5
DZ16	Apr-03	07-Apr-03	AM2	Fine	normal operation	3.5417	3.6645	0.1228	1.2400	1.2452	1.2426	3291.52	3315.52	1440.00	1789.34	68.6
DZ17	Apr-03	07-Apr-03	AM3	Fine	normal operation	3.5432	3.6587	0.1155	1.2558	1.2055	1.2307	3222.93	3246.93	1440.00	1772.14	65.2
DZ18	Apr-03	07-Apr-03	AM4	Fine	normal operation	3.5606	3.6795	0.1189	1.4712	1.4481	1.4597	3254.23	3278.23	1440.00	2101.90	56.6
DZ19	Apr-03	07-Apr-03	AM5	Fine	normal operation	3.5400	3.6675	0.1275	1.3947	1.4030	1.3989	2818.89	2842.88	1439.40	2013.50	63.3
DZ20	Apr-03	07-Apr-03	AM6	Fine	normal operation	3.5500	3.6897	0.1397	1.6494	1.6582	1.6538	1391.70	1415.70	1440.00	2381.47	58.7
DZ53	Apr-03	12-Apr-03	AM2	Sunny	normal operation	3.5314	3.6112	0.0798	1.3392	1.2253	1.2823	3315.52	3339.52	1440.00	1846.44	43.2
DZ54	Apr-03	12-Apr-03	AM3	Sunny	normal operation	3.5463	3.6289	0.0826	1.2338	1.2381	1.2360	3246.93	3270.92	1439.40	1779.03	46.4
DZ55	Apr-03	12-Apr-03	AM4	Sunny	normal operation	3.5654	3.6457	0.0803	1.2020	1.2063	1.2042	3278.23	3302.22	1439.40	1733.25	46.3
DZ56	Apr-03	12-Apr-03	AM5	Sunny	normal operation	3.5602	3.6210	0.0608	1.3414	1.3471	1.3443	2842.88	2866.88	1440.00	1935.72	31.4
DZ57	Apr-03	12-Apr-03	AM6	Sunny	normal operation	3.5595	3.6496	0.0901	1.5391	1.6046	1.5719	1415.70	1439.69	1439.40	2262.52	39.8
EA74	Apr-03	22-Apr-03	AM2	Sunny	normal operation	3.4556	3.5824	0.1268	1.2489	1.2381	1.2435	3339.52	3363.52	1440.00	1790.64	70.8
EA76	Apr-03	22-Apr-03	AM3	Sunny	normal operation	3.4711	3.5902	0.1191	1.2381	1.2255	1.2318	3270.92	3294.92	1440.00	1773.79	67.1
EA77	Apr-03	22-Apr-03	AM4	Sunny	normal operation	3.4899	3.6146	0.1247	1.4535	1.4378	1.4457	3302.22	3326.22	1440.00	2081.74	59.9
EA78	Apr-03	22-Apr-03	AM5	Sunny	normal operation	3.4824	3.5262	0.0438	1.3471	1.3306	1.3389	2866.88	2890.88	1440.00	1927.94	22.7
EA79	Apr-03	23-Apr-03	AM6	Sunny	normal operation	3.4903	3.6451	0.1548	1.6643	1.6462	1.6553	1456.72	1480.72	1440.00	2383.56	64.9
EA81	Apr-03	25-Apr-03	AM2	Sunny	normal operation	3.4942	3.7262	0.2320	1.2381	1.2406	1.2394	3363.52	3387.52	1440.00	1784.66	130.0
EA82	Apr-03	25-Apr-03	AM3	Sunny	normal operation	3.5147	3.7265	0.2118	1.2255	1.2284	1.2270	3294.92	3318.92	1440.00	1766.81	119.9
EA98	Apr-03	25-Apr-03	AM4	Sunny	normal operation	3.4510	3.7533	0.3023	1.4378	1.4415	1.4397	3326.22	3350.22	1440.00	2073.10	145.8
EA99	Apr-03	25-Apr-03	AM5	Sunny	normal operation	3.4607	3.7340	0.2733	1.3917	1.3957	1.3937	2890.88	2914.88	1440.00	2006.93	136.2
EB01	Apr-03	25-Apr-03	AM6	Sunny	normal operation	3.4415	3.7212	0.2797	1.7052	1.7096	1.7074	1480.72	1504.70	1438.80	2456.61	113.9
EB33	May-03	02-May-03	AM2	Fine	normal operation	3.4735	3.6272	0.1537	1.2406	1.2395	1.2401	3387.52	3411.51	1439.40	1784.93	86.1
EB34	May-03	02-May-03	AM3	Fine	normal operation	3.4865	3.6273	0.1408	1.2284	1.2271	1.2278	3318.92	3342.92	1440.00	1767.96	79.6
EB35	May-03	06-May-03	AM4	Fine	normal operation	3.4483	3.5362	0.0879	1.4415	1.4399	1.4407	3374.23	3398.23	1440.00	2074.61	42.4
EB36	May-03	02-May-03	AM5	Fine	normal operation	3.4763	3.6741	0.1978	1.3957	1.3939	1.3948	2914.88	2938.88	1440.00	2008.51	98.5
EB37	May-03	02-May-03	AM6	Fine	normal operation	3.4679	3.6657	0.1978	1.7096	1.7077	1.7087	1504.70	1528.70	1440.00	2460.46	80.4
EB87	May-03	07-May-03	AM2	Fine	normal operation	3.4676	3.5282	0.0606	1.2162	1.2204	1.2183	3411.51	3435.51	1440.00	1754.35	34.5
EB88	May-03	07-May-03	AM3	Fine	normal operation	3.4502	3.5067	0.0565	1.2271	1.2322	1.2297	3342.92	3366.92	1440.00	1770.70	31.9
EC05	May-03	07-May-03	AM4	Fine	normal operation	3.4425	3.5186	0.0761	1.2871	1.2927	1.2899	3398.23	3422.23	1440.00	1857.46	41.0
EB90	May-03	07-May-03	AM5	Fine	normal operation	3.4572	3.5218	0.0646	1.3633	1.3702	1.3668	2938.88	2962.88	1440.00	1968.12	32.8
EB91	May-03	07-May-03	AM6	Fine	normal operation	3.4449	3.5222	0.0773	1.6781	1.6857	1.6819	1528.70	1552.70	1440.00	2421.94	31.9
EB89	May-03	13-May-03	AM2	Sunny	normal operation	3.4492	3.5382	0.0890	1.2926	1.2837	1.2882	3435.51	3459.63	1447.20	1864.21	47.7
EC08	May-03	15-May-03	AM3	Sunny	normal operation	3.4371	3.5320	0.0949	1.2459	1.2343	1.2401	3366.92	3391.34	1465.20	1816.99	52.2
EC09	May-03	13-May-03	AM4	Sunny	normal operation	3.4127	3.5179	0.1052	1.2826	1.2713	1.2770	3422.23	3446.26	1441.80	1841.11	57.1
EC10	May-03	13-May-03	AM5	Sunny	normal operation	3.4399	3.5679	0.1280	1.3270	1.3051	1.3161	2962.88	2986.88	1440.00	1895.11	67.5
EC11	May-03	13-May-03	AM6	Sunny	normal operation	3.4392	3.5280	0.0888	1.3192	1.3071	1.3132	1552.70	1576.76	1443.60	1895.66	46.8

Details of 24-Hour TSP Monitoring

Filter No.	Month	Date	Receptor No.	Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m^3/min)		Average Flow Rate (m^3/min)	Elapse Time		Sampling Time (mins.)	Total vol. (m^3)	24-hour TSP Level ($\mu g/m^3$)
						Initial	Final		Initial	Final		Start	Finish			
EC43	May-03	19-May-03	AM2	Sunny	normal operation	3.7158	3.7844	0.0686	1.2837	1.2858	1.2848	3459.63	3483.63	1440.00	1850.04	37.1
EC44	May-03	19-May-03	AM3	Sunny	normal operation	3.7034	3.7668	0.0634	1.2343	1.2370	1.2357	3391.34	3415.34	1440.00	1779.34	35.6
EC45	May-03	19-May-03	AM4	Sunny	normal operation	3.7292	3.8015	0.0723	1.2447	1.2472	1.2460	3446.26	3470.26	1440.00	1794.17	40.3
EC46	May-03	19-May-03	AM5	Sunny	normal operation	3.7415	3.8337	0.0922	1.2655	1.2705	1.2680	2986.88	3010.88	1440.00	1825.92	50.5
EC47	May-03	19-May-03	AM6	Sunny	normal operation	3.7684	3.8426	0.0742	1.3071	1.3100	1.3086	1576.76	1600.76	1440.00	1884.31	39.4
EF02	May-03	24-May-03	AM2	Sunny	normal operation	3.5244	3.6014	0.0770	1.2858	1.2842	1.2850	3483.63	3507.64	1440.60	1851.17	41.6
EF03	May-03	24-May-03	AM3	Sunny	normal operation	3.5136	3.5978	0.0842	1.2370	1.2349	1.2360	3415.34	3439.35	1440.60	1780.51	47.3
EF04	May-03	24-May-03	AM4	Sunny	normal operation	3.5074	3.5857	0.0783	1.2739	1.2719	1.2729	3470.26	3494.27	1440.60	1833.74	42.7
EF05	May-03	24-May-03	AM5	Sunny	normal operation	3.5246	3.6116	0.0870	1.2705	1.2666	1.2686	3010.88	3034.89	1440.60	1827.47	47.6
EF06	May-03	24-May-03	AM6	Sunny	normal operation	3.5299	3.6146	0.0847	1.3100	1.3078	1.3089	1600.76	1624.44	1420.80	1859.69	45.5
EF42	May-03	31-May-03	AM2	Sunny	normal operation	3.4498	3.6180	0.1682	1.2842	1.2887	1.2865	3507.64	3531.64	1440.00	1852.49	90.8
EF43	May-03	31-May-03	AM3	Sunny	normal operation	3.4592	3.6249	0.1657	1.2349	1.2408	1.2379	3439.35	3463.35	1440.00	1782.50	93.0
EF44	May-03	31-May-03	AM4	Sunny	normal operation	3.4482	3.6036	0.1554	1.2452	1.2509	1.2481	3494.27	3518.27	1440.00	1797.19	86.5
EF45	May-03	31-May-03	AM5	Sunny	normal operation	3.4426	3.6418	0.1992	1.2666	1.2776	1.2721	3034.89	3058.89	1440.00	1831.82	108.7
EF46	May-03	31-May-03	AM6	Sunny	normal operation	3.4529	3.6232	0.1703	1.3597	1.3139	1.3368	1624.44	1648.44	1440.00	1924.99	88.5
EF63	Jun-03	06-Jun-03	AM2	Rainy	normal operation	3.4548	3.5438	0.0890	1.2887	1.3300	1.3094	3531.64	3555.64	1440.00	1885.46	47.2
EF64	Jun-03	06-Jun-03	AM3	Rainy	normal operation	3.4506	3.5411	0.0905	1.2408	1.2385	1.2397	3463.35	3486.96	1416.60	1756.09	51.5
EF65	Jun-03	06-Jun-03	AM4	Rainy	normal operation	3.4606	3.5370	0.0764	1.2509	1.2487	1.2498	3518.27	3542.27	1440.00	1799.71	42.5
EF66	Jun-03	06-Jun-03	AM5	Rainy	normal operation	3.4763	3.8449	0.3686	1.3971	1.3926	1.3949	3058.89	3082.89	1440.00	2008.58	183.5
EF67	Jun-03	06-Jun-03	AM6	Rainy	normal operation	3.4736	3.5521	0.0785	1.3139	1.3115	1.3127	1648.44	1672.44	1440.00	1890.29	41.5
EF90	Jun-03	12-Jun-03	AM2	Rainy	normal operation	3.5040	3.5805	0.0765	1.2869	1.2878	1.2874	3555.64	3579.64	1440.00	1853.78	41.3
EG01	Jun-03	12-Jun-03	AM3	Rainy	normal operation	3.4439	3.5168	0.0729	1.2385	1.2397	1.2391	3486.96	3510.96	1440.00	1784.30	40.9
EG02	Jun-03	12-Jun-03	AM4	Rainy	normal operation	3.4723	3.5495	0.0772	1.2754	1.2766	1.2760	3542.27	3566.27	1440.00	1837.44	42.0
EG03	Jun-03	14-Jun-03	AM5	Rainy	normal operation	3.4557	3.5395	0.0838	1.3528	1.3551	1.3540	3166.11	3190.31	1452.00	1965.94	42.6
EG04	Jun-03	12-Jun-03	AM6	Rainy	normal operation	3.4375	3.5079	0.0704	1.3636	1.3649	1.3643	1672.44	1696.44	1440.00	1964.52	35.8
EG57	Jun-03	18-Jun-03	AM2	Sunny	normal operation	3.3501	3.5887	0.2386	1.2894	1.2870	1.2882	3603.64	3627.64	1440.00	1855.01	128.6
EG37	Jun-03	18-Jun-03	AM3	Sunny	normal operation	3.4605	3.6716	0.2111	1.1915	1.1885	1.1900	3534.96	3558.96	1440.00	1713.60	123.2
EG38	Jun-03	18-Jun-03	AM4	Sunny	normal operation	3.4650	3.7079	0.2429	1.2786	1.2755	1.2771	3590.27	3610.27	1200.00	1532.46	158.5
EG60	Jun-03	18-Jun-03	AM5	Sunny	normal operation	3.3523	3.6499	0.2976	1.3592	1.3530	1.3561	3264.75	3288.84	1445.40	1960.11	151.8
EG61	Jun-03	18-Jun-03	AM6	Sunny	normal operation	3.3552	3.5948	0.2396	1.3149	1.3116	1.3133	1720.44	1744.44	1440.00	1891.08	126.7
EH54	Jun-03	24-Jun-03	AM2	Sunny	normal operation	3.3637	3.4145	0.0508	1.2870	1.2855	1.2863	3627.64	3651.63	1439.40	1851.43	27.4
EH55	Jun-03	24-Jun-03	AM3	Sunny	normal operation	3.3721	3.4404	0.0683	1.1384	1.1367	1.1376	3572.89	3596.89	1440.00	1638.07	41.7
EH56	Jun-03	24-Jun-03	AM4	Sunny	normal operation	3.3619	3.4281	0.0662	1.3023	1.3003	1.3013	3610.27	3634.27	1440.00	1873.87	35.3
EH57	Jun-03	24-Jun-03	AM5	Sunny	normal operation	3.3765	3.4389	0.0624	1.3530	1.3492	1.3511	3312.84	3336.84	1440.00	1945.58	32.1
EH58	Jun-03	24-Jun-03	AM6	Sunny	normal operation	3.3682	3.4226	0.0544	1.3116	1.3096	1.3106	1744.44	1768.44	1440.00	1887.26	28.8
EH74	Jun-03	30-Jun-03	AM2	Sunny	normal operation	3.3205	3.3605	0.0400	1.2855	1.2849	1.2852	3651.63	3675.64	1440.60	1851.46	21.6
EH76	Jun-03	30-Jun-03	AM3	Sunny	normal operation	3.3606	3.3992	0.0386	1.1867	1.1859	1.1863	3596.89	3620.89	1440.00	1708.27	22.6
EH77	Jun-03	30-Jun-03	AM4	Sunny	normal operation	3.3622	3.3972	0.0350	1.1935	1.1928	1.1932	3634.27	3658.22	1437.00	1714.56	20.4
EH78	Jun-03	30-Jun-03	AM5	Sunny	normal operation	3.3706	3.4178	0.0472	1.3492	1.3475	1.3484	3336.84	3360.84	1440.00	1941.62	24.3
EH79	Jun-03	30-Jun-03	AM6	Sunny	normal operation	3.3556	3.4003	0.0447	1.2836	1.2827	1.2832	1768.44	1792.45	1440.60	1848.51	24.2

APPENDIX 3

1-hour TSP Monitoring Results for April 2003 to June 2003

Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (μg/g³)
				Start	Finish					
Apr-03	02-Apr-03	AM2	1	9:17	10:17	Fine	normal operation	26.0	758.3	219.1
Apr-03	02-Apr-03	AM2	2	10:17	11:17	Fine	normal operation	26.0	758.3	206.0
Apr-03	02-Apr-03	AM2	3	13:17	14:17	Fine	normal operation	26.0	758.3	200.1
Apr-03	02-Apr-03	AM3	1	9:20	10:20	Fine	normal operation	26.0	758.3	214.7
Apr-03	02-Apr-03	AM3	2	10:20	11:20	Fine	normal operation	26.0	758.3	200.8
Apr-03	02-Apr-03	AM3	3	13:20	14:20	Fine	normal operation	26.0	758.3	196.5
Apr-03	02-Apr-03	AM4	1	9:55	10:55	Fine	normal operation	26.0	758.3	199.8
Apr-03	02-Apr-03	AM4	2	10:55	11:55	Fine	normal operation	26.0	758.3	177.5
Apr-03	02-Apr-03	AM4	3	13:55	14:55	Fine	normal operation	26.0	758.3	176.7
Apr-03	02-Apr-03	AM5	1	9:43	10:43	Fine	normal operation	26.0	758.3	224.7
Apr-03	02-Apr-03	AM5	2	10:43	11:43	Fine	normal operation	26.0	758.3	193.0
Apr-03	02-Apr-03	AM5	3	13:43	14:43	Fine	normal operation	26.0	758.3	198.4
Apr-03	02-Apr-03	AM6	1	9:28	10:28	Fine	normal operation	26.0	758.3	196.7
Apr-03	02-Apr-03	AM6	2	10:28	11:28	Fine	normal operation	26.0	758.3	173.6
Apr-03	02-Apr-03	AM6	3	13:28	14:28	Fine	normal operation	26.0	758.3	174.7
Apr-03	08-Apr-03	AM2	1	8:07	9:07	Fine	normal operation	23.0	760.0	166.5
Apr-03	08-Apr-03	AM2	2	9:07	10:07	Fine	normal operation	23.0	760.0	144.8
Apr-03	08-Apr-03	AM2	3	10:22	11:22	Fine	normal operation	23.0	760.0	151.2
Apr-03	08-Apr-03	AM3	1	8:13	9:13	Fine	normal operation	23.0	760.0	193.8
Apr-03	08-Apr-03	AM3	2	9:13	10:13	Fine	normal operation	23.0	760.0	193.5
Apr-03	08-Apr-03	AM3	3	10:13	11:13	Fine	normal operation	23.0	760.0	194.7
Apr-03	08-Apr-03	AM4	1	8:17	9:17	Fine	normal operation	23.0	760.0	170.5
Apr-03	08-Apr-03	AM4	2	9:17	10:17	Fine	normal operation	23.0	760.0	145.0
Apr-03	08-Apr-03	AM4	3	10:17	11:17	Fine	normal operation	23.0	760.0	155.1
Apr-03	08-Apr-03	AM5	1	8:21	9:21	Fine	normal operation	23.0	760.0	171.4
Apr-03	08-Apr-03	AM5	2	9:21	10:21	Fine	normal operation	23.0	760.0	158.8
Apr-03	08-Apr-03	AM5	3	10:21	11:21	Fine	normal operation	23.0	760.0	172.2
Apr-03	08-Apr-03	AM6	1	8:03	9:03	Fine	normal operation	23.0	760.0	162.8
Apr-03	08-Apr-03	AM6	2	9:03	10:03	Fine	normal operation	23.0	760.0	163.6
Apr-03	08-Apr-03	AM6	3	10:03	11:03	Fine	normal operation	23.0	760.0	167.2
Apr-03	16-Apr-03	AM2	1	13:03	14:03	Sunny	normal operation	22.0	764.0	204.7
Apr-03	16-Apr-03	AM2	2	14:03	15:03	Sunny	normal operation	22.0	764.0	227.8
Apr-03	16-Apr-03	AM2	3	15:03	16:03	Sunny	normal operation	22.0	764.0	226.3
Apr-03	16-Apr-03	AM3	1	13:10	14:10	Sunny	normal operation	22.0	764.0	193.0
Apr-03	16-Apr-03	AM3	2	14:10	15:10	Sunny	normal operation	22.0	764.0	222.3
Apr-03	16-Apr-03	AM3	3	15:10	16:10	Sunny	normal operation	22.0	764.0	204.6
Apr-03	16-Apr-03	AM4	1	13:00	14:00	Sunny	normal operation	22.0	764.0	168.4
Apr-03	16-Apr-03	AM4	2	14:00	15:00	Sunny	normal operation	22.0	764.0	197.1
Apr-03	16-Apr-03	AM4	3	15:00	16:00	Sunny	normal operation	22.0	764.0	190.6
Apr-03	16-Apr-03	AM5	1	13:01	14:01	Sunny	normal operation	22.0	764.0	184.1
Apr-03	16-Apr-03	AM5	2	14:01	15:01	Sunny	normal operation	22.0	764.0	182.2
Apr-03	16-Apr-03	AM5	3	15:01	16:01	Sunny	normal operation	22.0	764.0	199.4
Apr-03	16-Apr-03	AM6	1	13:05	14:05	Sunny	normal operation	22.0	764.0	194.0
Apr-03	16-Apr-03	AM6	2	14:05	15:05	Sunny	normal operation	22.0	764.0	177.8
Apr-03	16-Apr-03	AM6	3	15:05	16:05	Sunny	normal operation	22.0	764.0	191.4
Apr-03	23-Apr-03	AM2	1	8:14	9:14	Sunny	normal operation	28.0	760.0	188.6
Apr-03	23-Apr-03	AM2	2	9:14	10:14	Sunny	normal operation	28.0	760.0	199.6
Apr-03	23-Apr-03	AM2	3	10:14	11:14	Sunny	normal operation	28.0	760.0	206.7
Apr-03	23-Apr-03	AM3	1	8:12	9:12	Sunny	normal operation	28.0	760.0	187.3
Apr-03	23-Apr-03	AM3	2	9:12	10:12	Sunny	normal operation	28.0	760.0	199.2
Apr-03	23-Apr-03	AM3	3	10:12	11:12	Sunny	normal operation	28.0	760.0	207.4
Apr-03	23-Apr-03	AM4	1	8:17	9:17	Sunny	normal operation	28.0	760.0	214.2
Apr-03	23-Apr-03	AM4	2	9:17	10:17	Sunny	normal operation	28.0	760.0	224.2
Apr-03	23-Apr-03	AM4	3	10:17	11:17	Sunny	normal operation	28.0	760.0	231.9
Apr-03	23-Apr-03	AM5	1	8:20	9:20	Sunny	normal operation	28.0	760.0	219.6
Apr-03	23-Apr-03	AM5	2	9:20	10:20	Sunny	normal operation	28.0	760.0	229.0
Apr-03	23-Apr-03	AM5	3	10:20	11:20	Sunny	normal operation	28.0	760.0	239.1
Apr-03	23-Apr-03	AM6	1	8:28	9:28	Sunny	normal operation	28.0	760.0	198.7
Apr-03	23-Apr-03	AM6	2	9:28	10:28	Sunny	normal operation	28.0	760.0	208.1
Apr-03	23-Apr-03	AM6	3	10:28	11:28	Sunny	normal operation	28.0	760.0	223.7

Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (μg/g³)
				Start	Finish					
Apr-03	28-Apr-03	AM2	1	8:50	9:50	Sunny	normal operation	27.0	762.0	204.2
Apr-03	28-Apr-03	AM2	2	9:50	10:50	Sunny	normal operation	27.0	762.0	193.4
Apr-03	28-Apr-03	AM2	3	10:50	11:50	Sunny	normal operation	27.0	762.0	185.5
Apr-03	28-Apr-03	AM3	1	8:48	9:48	Sunny	normal operation	27.0	762.0	209.2
Apr-03	28-Apr-03	AM3	2	9:48	10:48	Sunny	normal operation	27.0	762.0	204.1
Apr-03	28-Apr-03	AM3	3	10:48	11:48	Sunny	normal operation	27.0	762.0	198.1
Apr-03	28-Apr-03	AM4	1	8:55	9:55	Sunny	normal operation	27.0	762.0	213.7
Apr-03	28-Apr-03	AM4	2	9:55	10:55	Sunny	normal operation	27.0	762.0	206.2
Apr-03	28-Apr-03	AM4	3	10:55	11:55	Sunny	normal operation	27.0	762.0	196.0
Apr-03	28-Apr-03	AM5	1	8:51	9:51	Sunny	normal operation	27.0	762.0	199.2
Apr-03	28-Apr-03	AM5	2	9:51	10:51	Sunny	normal operation	27.0	762.0	190.9
Apr-03	28-Apr-03	AM5	3	10:51	11:51	Sunny	normal operation	27.0	762.0	183.4
Apr-03	28-Apr-03	AM6	1	8:53	9:53	Sunny	normal operation	27.0	762.0	227.1
Apr-03	28-Apr-03	AM6	2	9:53	10:53	Sunny	normal operation	27.0	762.0	219.4
Apr-03	28-Apr-03	AM6	3	10:53	11:53	Sunny	normal operation	27.0	762.0	213.0
May-03	06-May-03	AM2	1	8:32	9:32	Fine	normal operation	27.0	760.0	164.7
May-03	06-May-03	AM2	2	9:32	10:32	Fine	normal operation	27.0	760.0	150.3
May-03	06-May-03	AM2	3	10:32	11:32	Fine	normal operation	27.0	760.0	142.6
May-03	06-May-03	AM3	1	8:34	9:34	Fine	normal operation	27.0	760.0	153.0
May-03	06-May-03	AM3	2	9:34	10:34	Fine	normal operation	27.0	760.0	145.0
May-03	06-May-03	AM3	3	10:34	11:34	Fine	normal operation	27.0	760.0	137.8
May-03	06-May-03	AM4	1	8:30	9:30	Fine	normal operation	27.0	760.0	159.0
May-03	06-May-03	AM4	2	9:30	10:30	Fine	normal operation	27.0	760.0	146.9
May-03	06-May-03	AM4	3	10:30	11:30	Fine	normal operation	27.0	760.0	133.2
May-03	06-May-03	AM5	1	13:03	14:03	Fine	normal operation	27.0	760.0	153.2
May-03	06-May-03	AM5	2	14:03	15:03	Fine	normal operation	27.0	760.0	155.9
May-03	06-May-03	AM5	3	15:03	16:03	Fine	normal operation	27.0	760.0	163.2
May-03	06-May-03	AM6	1	13:02	14:02	Fine	normal operation	27.0	760.0	156.3
May-03	06-May-03	AM6	2	14:02	15:02	Fine	normal operation	27.0	760.0	154.8
May-03	06-May-03	AM6	3	15:02	16:02	Fine	normal operation	27.0	760.0	169.2
May-03	09-May-03	AM2	1	9:53	10:53	Fine	normal operation	25.0	762.8	201.7
May-03	09-May-03	AM2	2	10:53	11:53	Fine	normal operation	25.0	762.8	201.0
May-03	09-May-03	AM2	3	13:53	14:53	Fine	normal operation	25.0	762.8	206.6
May-03	09-May-03	AM3	1	9:48	10:48	Fine	normal operation	25.0	762.8	189.7
May-03	09-May-03	AM3	2	10:48	11:48	Fine	normal operation	25.0	762.8	186.2
May-03	09-May-03	AM3	3	13:48	14:48	Fine	normal operation	25.0	762.8	195.2
May-03	09-May-03	AM4	1	10:10	11:10	Fine	normal operation	25.0	762.8	202.7
May-03	09-May-03	AM4	2	13:10	14:10	Fine	normal operation	25.0	762.8	194.9
May-03	09-May-03	AM4	3	14:10	15:10	Fine	normal operation	25.0	762.8	203.7
May-03	09-May-03	AM5	1	10:25	11:25	Fine	normal operation	25.0	762.8	226.8
May-03	09-May-03	AM5	2	13:25	14:25	Fine	normal operation	25.0	762.8	217.4
May-03	09-May-03	AM5	3	14:25	15:25	Fine	normal operation	25.0	762.8	228.8
May-03	09-May-03	AM6	1	10:04	11:04	Fine	normal operation	25.0	762.8	210.5
May-03	09-May-03	AM6	2	13:04	14:04	Fine	normal operation	25.0	762.8	208.7
May-03	09-May-03	AM6	3	14:04	15:04	Fine	normal operation	25.0	762.8	210.5
May-03	15-May-03	AM2	1	8:16	9:16	Sunny	normal operation	30.0	756.0	196.0
May-03	15-May-03	AM2	2	9:16	10:16	Sunny	normal operation	30.0	756.0	217.8
May-03	15-May-03	AM2	3	10:16	11:16	Sunny	normal operation	30.0	756.0	231.4
May-03	15-May-03	AM3	1	8:04	9:04	Sunny	normal operation	30.0	756.0	186.0
May-03	15-May-03	AM3	2	9:04	10:04	Sunny	normal operation	30.0	756.0	182.5
May-03	15-May-03	AM3	3	10:04	11:04	Sunny	normal operation	30.0	756.0	129.6
May-03	15-May-03	AM4	1	8:06	9:06	Sunny	normal operation	30.0	756.0	183.3
May-03	15-May-03	AM4	2	9:06	10:06	Sunny	normal operation	30.0	756.0	172.5
May-03	15-May-03	AM4	3	10:06	11:06	Sunny	normal operation	30.0	756.0	160.8
May-03	15-May-03	AM5	1	8:12	9:12	Sunny	normal operation	30.0	756.0	209.3
May-03	15-May-03	AM5	2	9:12	10:12	Sunny	normal operation	30.0	756.0	205.2
May-03	15-May-03	AM5	3	10:12	11:12	Sunny	normal operation	30.0	756.0	174.7
May-03	15-May-03	AM6	1	8:06	9:06	Sunny	normal operation	30.0	756.0	186.2
May-03	15-May-03	AM6	2	9:06	10:06	Sunny	normal operation	30.0	756.0	181.7
May-03	15-May-03	AM6	3	10:06	11:06	Sunny	normal operation	30.0	756.0	142.1

Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (μg/g³)
				Start	Finish					
May-03	22-May-03	AM2	1	7:43	8:43	Sunny	normal operation	29.0	758.0	181.0
May-03	22-May-03	AM2	2	8:43	9:43	Sunny	normal operation	29.0	758.0	193.0
May-03	22-May-03	AM2	3	9:43	10:43	Sunny	normal operation	29.0	758.0	178.5
May-03	22-May-03	AM3	1	8:48	9:48	Sunny	normal operation	29.0	758.0	204.3
May-03	22-May-03	AM3	2	9:48	10:48	Sunny	normal operation	29.0	758.0	196.6
May-03	22-May-03	AM3	3	10:48	11:48	Sunny	normal operation	29.0	758.0	226.7
May-03	22-May-03	AM4	1	8:39	9:39	Sunny	normal operation	29.0	758.0	194.8
May-03	22-May-03	AM4	2	9:39	10:39	Sunny	normal operation	29.0	758.0	202.4
May-03	22-May-03	AM4	3	10:39	11:39	Sunny	normal operation	29.0	758.0	204.4
May-03	22-May-03	AM5	1	8:55	9:55	Sunny	normal operation	29.0	758.0	187.1
May-03	22-May-03	AM5	2	9:55	10:55	Sunny	normal operation	29.0	758.0	179.8
May-03	22-May-03	AM5	3	10:55	11:55	Sunny	normal operation	29.0	758.0	201.6
May-03	22-May-03	AM6	1	8:34	9:34	Sunny	normal operation	29.0	758.0	205.8
May-03	22-May-03	AM6	2	9:34	10:34	Sunny	normal operation	29.0	758.0	185.3
May-03	22-May-03	AM6	3	10:34	11:34	Sunny	normal operation	29.0	758.0	212.7
May-03	28-May-03	AM2	1	9:17	10:17	Cloudy	normal operation	26.0	753.0	183.5
May-03	28-May-03	AM2	2	10:17	11:17	Cloudy	normal operation	26.0	753.0	183.3
May-03	28-May-03	AM2	3	11:17	12:17	Cloudy	normal operation	26.0	753.0	184.5
May-03	28-May-03	AM3	1	8:47	9:47	Cloudy	normal operation	26.0	753.0	210.8
May-03	28-May-03	AM3	2	9:47	10:47	Cloudy	normal operation	26.0	753.0	209.8
May-03	28-May-03	AM3	3	10:47	11:47	Cloudy	normal operation	26.0	753.0	211.2
May-03	28-May-03	AM4	1	9:07	10:07	Cloudy	normal operation	26.0	753.0	201.7
May-03	28-May-03	AM4	2	10:07	11:07	Cloudy	normal operation	26.0	753.0	198.2
May-03	28-May-03	AM4	3	11:07	12:07	Cloudy	normal operation	26.0	753.0	198.9
May-03	28-May-03	AM5	1	9:21	10:21	Cloudy	normal operation	26.0	753.0	202.0
May-03	28-May-03	AM5	2	10:21	11:21	Cloudy	normal operation	26.0	753.0	199.9
May-03	28-May-03	AM5	3	11:21	12:21	Cloudy	normal operation	26.0	753.0	201.8
May-03	28-May-03	AM6	1	13:00	14:00	Cloudy	normal operation	26.0	753.0	224.0
May-03	28-May-03	AM6	2	14:00	15:00	Cloudy	normal operation	26.0	753.0	222.9
May-03	28-May-03	AM6	3	15:00	16:00	Cloudy	normal operation	26.0	753.0	232.1
Jun-03	03-Jun-03	AM2	1	13:00	14:00	Sunny	normal operation	28.0	762.0	222.7
Jun-03	03-Jun-03	AM2	2	14:00	15:00	Sunny	normal operation	28.0	762.0	217.4
Jun-03	03-Jun-03	AM2	3	15:00	16:00	Sunny	normal operation	28.0	762.0	207.5
Jun-03	03-Jun-03	AM3	1	13:04	14:04	Sunny	normal operation	28.0	762.0	196.2
Jun-03	03-Jun-03	AM3	2	14:04	15:04	Sunny	normal operation	28.0	762.0	192.8
Jun-03	03-Jun-03	AM3	3	15:04	16:04	Sunny	normal operation	28.0	762.0	183.8
Jun-03	03-Jun-03	AM4	1	13:00	14:00	Sunny	normal operation	28.0	762.0	200.3
Jun-03	03-Jun-03	AM4	2	14:00	15:00	Sunny	normal operation	28.0	762.0	197.1
Jun-03	03-Jun-03	AM4	3	15:00	16:00	Sunny	normal operation	28.0	762.0	180.6
Jun-03	03-Jun-03	AM5	1	13:03	14:03	Sunny	normal operation	28.0	762.0	266.2
Jun-03	03-Jun-03	AM5	2	14:03	15:03	Sunny	normal operation	28.0	762.0	276.0
Jun-03	03-Jun-03	AM5	3	15:03	16:03	Sunny	normal operation	28.0	762.0	259.7
Jun-03	03-Jun-03	AM6	1	13:03	14:03	Sunny	normal operation	28.0	762.0	213.7
Jun-03	03-Jun-03	AM6	2	14:03	15:03	Sunny	normal operation	28.0	762.0	205.1
Jun-03	03-Jun-03	AM6	3	15:03	16:03	Sunny	normal operation	28.0	762.0	193.5
Jun-03	10-Jun-03	AM2	1	8:12	9:12	Rainy	normal operation	26.0	753.0	179.9
Jun-03	10-Jun-03	AM2	2	9:12	10:12	Rainy	normal operation	26.0	753.0	178.0
Jun-03	10-Jun-03	AM2	3	10:12	11:12	Rainy	normal operation	26.0	753.0	169.5
Jun-03	10-Jun-03	AM3	1	8:02	9:02	Rainy	normal operation	26.0	753.0	154.6
Jun-03	10-Jun-03	AM3	2	9:02	10:02	Rainy	normal operation	26.0	753.0	151.2
Jun-03	10-Jun-03	AM3	3	10:02	11:02	Rainy	normal operation	26.0	753.0	134.5
Jun-03	10-Jun-03	AM4	1	8:09	9:09	Rainy	normal operation	26.0	753.0	141.0
Jun-03	10-Jun-03	AM4	2	9:09	10:09	Rainy	normal operation	26.0	753.0	135.4
Jun-03	10-Jun-03	AM4	3	10:09	11:09	Rainy	normal operation	26.0	753.0	154.2
Jun-03	10-Jun-03	AM5	1	8:04	9:04	Rainy	normal operation	26.0	753.0	150.9
Jun-03	10-Jun-03	AM5	2	9:04	10:04	Rainy	normal operation	26.0	753.0	146.7
Jun-03	10-Jun-03	AM5	3	10:04	11:04	Rainy	normal operation	26.0	753.0	125.2
Jun-03	10-Jun-03	AM6	1	8:00	9:00	Rainy	normal operation	26.0	753.0	168.7
Jun-03	10-Jun-03	AM6	2	9:00	10:00	Rainy	normal operation	26.0	753.0	164.1
Jun-03	10-Jun-03	AM6	3	10:00	11:00	Rainy	normal operation	26.0	753.0	152.1

Details of 1-Hour TSP Monitoring

Month	Date	Receptor No.	Set No.	Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (μg/g³)
				Start	Finish					
Jun-03	17-Jun-03	AM2	1	8:49	9:49	Fine	normal operation	26.0	756.0	215.7
Jun-03	17-Jun-03	AM2	2	9:49	10:49	Fine	normal operation	26.0	756.0	193.5
Jun-03	17-Jun-03	AM2	3	10:49	11:49	Fine	normal operation	26.0	756.0	185.2
Jun-03	17-Jun-03	AM3	1	8:46	9:46	Fine	normal operation	26.0	756.0	216.2
Jun-03	17-Jun-03	AM3	2	9:46	10:46	Fine	normal operation	26.0	756.0	190.4
Jun-03	17-Jun-03	AM3	3	10:46	11:46	Fine	normal operation	26.0	756.0	182.3
Jun-03	17-Jun-03	AM4	1	8:54	9:54	Fine	normal operation	26.0	756.0	236.2
Jun-03	17-Jun-03	AM4	2	9:54	10:54	Fine	normal operation	26.0	756.0	213.6
Jun-03	17-Jun-03	AM4	3	10:54	11:54	Fine	normal operation	26.0	756.0	205.1
Jun-03	17-Jun-03	AM5	1	9:02	10:02	Fine	normal operation	26.0	756.0	196.0
Jun-03	17-Jun-03	AM5	2	10:02	11:02	Fine	normal operation	26.0	756.0	174.9
Jun-03	17-Jun-03	AM5	3	11:02	12:02	Fine	normal operation	26.0	756.0	162.8
Jun-03	17-Jun-03	AM6	1	8:37	9:37	Fine	normal operation	26.0	756.0	209.9
Jun-03	17-Jun-03	AM6	2	9:37	10:37	Fine	normal operation	26.0	756.0	191.4
Jun-03	17-Jun-03	AM6	3	10:37	11:37	Fine	normal operation	26.0	756.0	183.1
Jun-03	23-Jun-03	AM2	1	8:46	9:46	Cloudy	normal operation	31.0	765.8	177.8
Jun-03	23-Jun-03	AM2	2	9:46	10:46	Cloudy	normal operation	31.0	765.8	162.2
Jun-03	23-Jun-03	AM2	3	10:46	11:46	Cloudy	normal operation	31.0	765.8	165.6
Jun-03	23-Jun-03	AM3	1	8:37	9:37	Cloudy	normal operation	31.0	765.8	189.4
Jun-03	23-Jun-03	AM3	2	9:37	10:37	Cloudy	normal operation	31.0	765.8	159.2
Jun-03	23-Jun-03	AM3	3	10:37	11:37	Cloudy	normal operation	31.0	765.8	182.7
Jun-03	23-Jun-03	AM4	1	8:43	9:43	Cloudy	normal operation	31.0	765.8	173.4
Jun-03	23-Jun-03	AM4	2	9:43	10:43	Cloudy	normal operation	31.0	765.8	138.0
Jun-03	23-Jun-03	AM4	3	10:43	11:43	Cloudy	normal operation	31.0	765.8	146.8
Jun-03	23-Jun-03	AM5	1	8:53	9:53	Cloudy	normal operation	31.0	765.8	163.2
Jun-03	23-Jun-03	AM5	2	9:53	10:53	Cloudy	normal operation	31.0	765.8	144.3
Jun-03	23-Jun-03	AM5	3	10:53	11:53	Cloudy	normal operation	31.0	765.8	149.3
Jun-03	23-Jun-03	AM6	1	8:56	9:56	Cloudy	normal operation	31.0	765.8	145.9
Jun-03	23-Jun-03	AM6	2	9:56	10:56	Cloudy	normal operation	31.0	765.8	125.1
Jun-03	23-Jun-03	AM6	3	10:56	11:56	Cloudy	normal operation	31.0	765.8	129.6
Jun-03	26-Jun-03	AM2	1	8:38	9:38	Sunny	normal operation	30.0	760.0	154.7
Jun-03	26-Jun-03	AM2	2	9:38	10:38	Sunny	normal operation	30.0	760.0	146.7
Jun-03	26-Jun-03	AM2	3	10:38	11:38	Sunny	normal operation	30.0	760.0	147.3
Jun-03	26-Jun-03	AM3	1	8:38	9:38	Sunny	normal operation	30.0	760.0	120.7
Jun-03	26-Jun-03	AM3	2	9:38	10:38	Sunny	normal operation	30.0	760.0	130.9
Jun-03	26-Jun-03	AM3	3	10:38	11:38	Sunny	normal operation	30.0	760.0	157.0
Jun-03	26-Jun-03	AM4	1	8:20	9:20	Sunny	normal operation	30.0	760.0	121.2
Jun-03	26-Jun-03	AM4	2	9:20	10:20	Sunny	normal operation	30.0	760.0	107.6
Jun-03	26-Jun-03	AM4	3	10:20	11:20	Sunny	normal operation	30.0	760.0	132.7
Jun-03	26-Jun-03	AM5	1	8:28	9:28	Sunny	normal operation	30.0	760.0	138.6
Jun-03	26-Jun-03	AM5	2	9:28	10:28	Sunny	normal operation	30.0	760.0	132.1
Jun-03	26-Jun-03	AM5	3	10:28	11:28	Sunny	normal operation	30.0	760.0	146.4
Jun-03	26-Jun-03	AM6	1	8:27	9:27	Sunny	normal operation	30.0	760.0	116.2
Jun-03	26-Jun-03	AM6	2	9:27	10:27	Sunny	normal operation	30.0	760.0	104.3
Jun-03	26-Jun-03	AM6	3	10:27	11:27	Sunny	normal operation	30.0	760.0	132.7

APPENDIX 4

Correspondences of the Public Complaints from April 2003 to June 2003

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

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

Maunsell

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(0182)

11 April 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-59
Complaint of Construction Noise on Sunday, 6 April 2003

We attach for your attention and necessary action a copy of a letter from EPD- Ref. EP 580/E6/3/9 dated 9 April 2003, regarding a complaint of construction noise on Sunday, 6 April 2003.

23156

eif 5463

St TC Roy
St RK

Yours faithfully,

Allan Poon
Senior Resident Engineer

AL:li

Encl.

cc : MCAL } w/encl
OAP } w/o encl. (by fax only)
CHEC – HO } w/o encl.

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
電話 TEL. NO.:
圖文傳真 FAX NO.: 2158 5823
電子郵件 E-MAIL: 2685 1155
網址 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
上禾輋路一號
沙田政府合署 10 樓

9 April 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.

Yours faithfully,

23156

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

Encl.

c.c. (all w/e) TDD (Attn: Mr. George Mak Fax.: 2721 8630)
Maunsell (Attn: Mr. Y H Fung Fax.: 2643 3559)
CHEC (Attn: Mr. Chan Man Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00003677-03

ICC Ref:

CASE DETAILS

(1) Incident 07/04/2003

(2) Incident Location : BLOCK 8, Saddle Ridge Garden, 地址 :
N01 - SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF SUNDAY CONSTRUCTION NOISE FROM A SITE OPPOSITE OF BLOCK 8, SADDLE RIDGE GARDEN , SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	COM-Commerical Premises	C-Continuous, D-Day Time, S-Sunday

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 30/04/2003

DETAILS OF THE SUSPECTED POLLUTER

(1) Premises Name : 姓名 : 中國港灣建築公司

(2) Premises Address : 地址 :

(3) Business Type : 511 - Construction site except renovation

COMPLAINT LOCATION HISTORY

Complaint Ref No.	Complainant ID	Date of Complaint	Substantive Reply Date	Nature Code

COMPLAINANT

(1) Name : Mr (2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks : 先生投訴在富賢花園第八座對出的T7公路工程,地盤於6/4星期日開工,發出強烈的噪音,要求跟進

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

INFORMATION INPUTTED BY

Name : HAUE3 Date : 07/04/2003 Time : 17:03

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 : 11 April 2003
Our Ref.: T7/01.01/O/06558

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

Attention: Mr. Albert Lam- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-59 – Complaint of Construction Noise on Sunday, 6 April 2003

We refer to your letter dated 11 April 2003 regarding the captioned complaint involving the carrying out of construction works near Saddle Ridge Garden on Sunday, 6 April 2003.

We have obtained the Construction Noise Permit (CNP) of no. GW-TN0022-2002 from Environmental Protection Department so as to suit the progress of segment launching works in the Bridge TC area near Saddle Ridge Garden. And according to our site records on that day, the powered mechanical equipment used was covered by this CNP.

In this regard, we have informed the Saddle Ridge Garden Management Office about the above works and they will notify their residents about the arrangement. We will instruct our site foreman assigned on Sunday duty to ensure the construction works compile with the conditions stated in the CNP and to keep the noise nuisance to minimal as practical as possible.

Enclosed please find the fax to Saddle Ridge Garden Management Office regarding the captioned subject for your information.

Thank you very much for your kind attention.

23156

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

ST TC Proj
ST RC

.....
Chan Man
Project Manager
CM/CL/PWCT

c.c. MCAL – H.O.
CHEC – H.O.
TDD – Mr. George Mak
EPD- Mr. Jack Kan (F: 2685 1155)
OAP – Mr. Thomas Chan (F: 2268 3950)

香港北角英皇道370-374號中國港灣大廈19樓
19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong.
Tel: (852) 2887 8118 Fax: (852) 2512 0427 Website: http://www.chechk.com

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.

10 APR 2003 13:53 pm

Fax Transmission

Date : 10 April 2003
To : Saddle Ridge Garden Management Office
Attn : General Manager
Fax No: 26401575
Our Ref: T7/03.06/O/05698
From : Phillip Leung
Pages : 2 pages (including this page)
Subject: **Working hour for construction of Road T7 in Ma On Shan near Saddle Ridge Garden**

Contract No. ST86/2000
Construction of Road T7 in Ma On Shan

We are the main contractor for carry out the construction of road T7 in Ma On Shan near Saddle Ridge Garden.

We would like to inform you that EPD had issued a Construction noise Permit (GW-TN0022-2003)for carry out the construction work at Road T7 in Ma On Shan near Saddle Ridge Garden at any day **including holiday and Sunday** between 07:00 and 23:00. This permit was effected from 01 March 2003 19:00 and will be expired on 31 August 2003 23:00.

Please inform the Saddle Ridge Garden resident for the above works and contact the undersigned at phone no. 24118524 or 94512363 for further details.

Enclosed please find the sketch to show out the location for your reference.

Thank you for your kindly attention.

Regards.

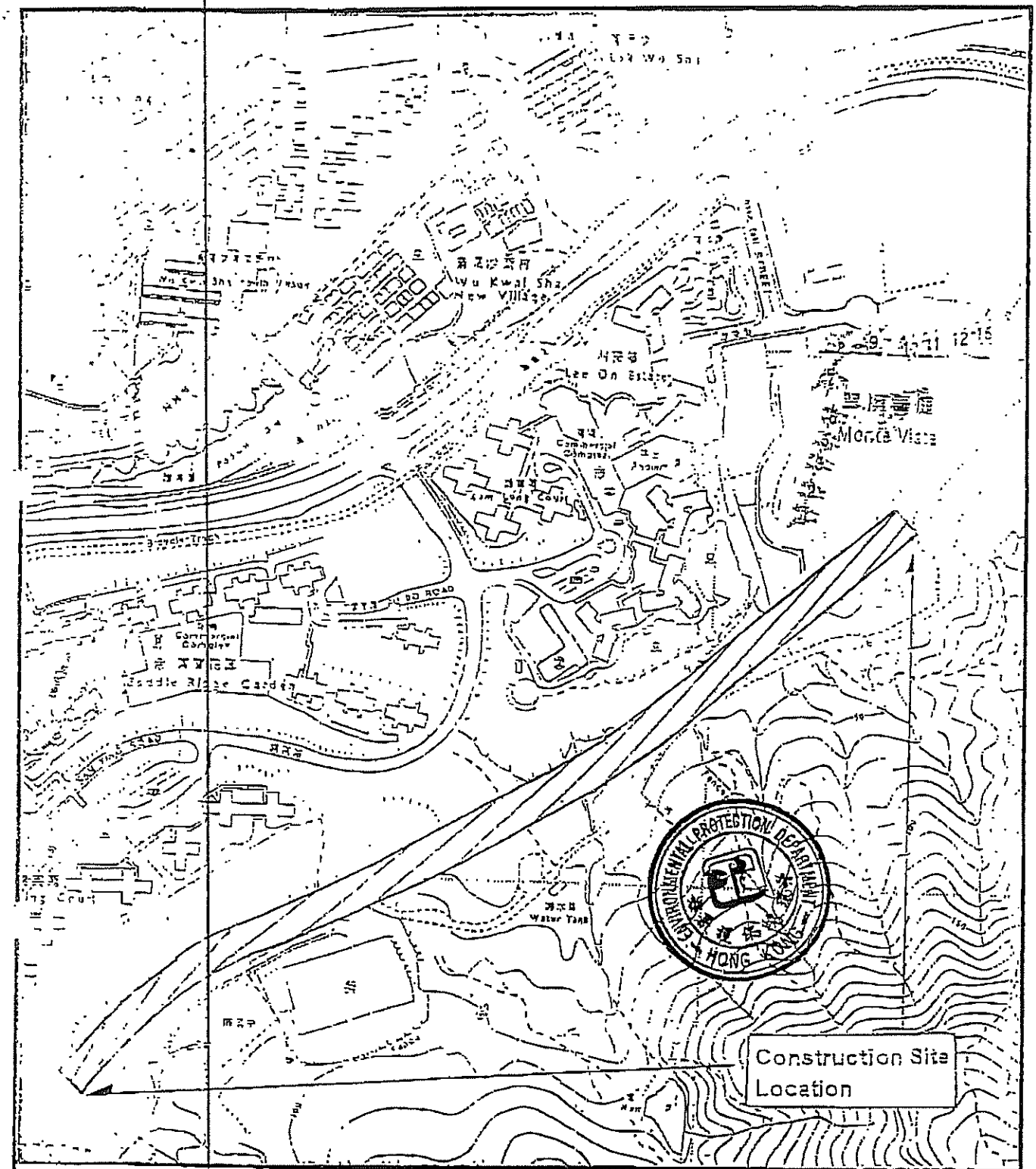
Phillip Leung
Community Relations Officer

Encl.

c.c. George Mak (TDD) (Fax No. 27218630)
Albert Lam (MCAL) (Fax No 26433559)
CL/WW/KCW

10 APR 2003
Contract No. ST86/2000
Correspondence Distribution

Position	Action	Copy
Project Manager		
Site Manager-EDR1		X
Safety Manager-QSW1		
Site Agent-Bridge		X
Deputy Manager		
Quality Manager		
Safety Manager		
Head of Quality Surveyor		
Planner		
Community Relations Officer (CRO)		X
KCW		X
Not to Scan		



ENVIRONMENTAL PROTECTION DEPARTMENT 環境保護署	Scale 比例 1:3,000	Legend 圖例 Construction Site 建築地盤

Plan attached to Construction Noise Permit No. GW-TN0022-2003
建築噪音許可證編號 GW-TN0022-2003 的附圖

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

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

香港新界沙田鄉事委員會路 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

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(0188)

24 April 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-60
Complaint of Construction Noise and Stagnant Water

I attach for your attention and necessary action a copy of an e-mail of 19 April 2003 from a resident in Monte Vista, regarding a complaint of construction noise and stagnant water causing the breeding of mosquitoes.

I would be grateful if you would give me your response on or before 26 April 2002, so that I can reply to the complainant.

7356.

EF5559

Yours faithfully,

ST TC Roy
for RE

Allan Poon
Senior Resident Engineer

AP:sci

cc : MCAL } w/encl
OAP } w/o encl. (by fax only)
CHEC – HO } w/o encl.

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

Fax

To	**: Ove Arup & Partners Ltd.**	**From**	**: Mr. Gordon TANG**
Attn	**: Mr. Roy Leung**	**Our Ref**	**: --**
Fax No	**: 2268 3950**	**Date**	**: 12/5/2003**
No. of pages	**: (2 +1) including this page**		
Subject	: Reply letter for EC-60		

Roy,

Enclosed please find the reply letter of EC-60 for your reference.

Thank you very much.

Yours sincerely,

Gordon TANG
Environmental Engineer
China Harbour Engineering Company (Group)

Encl.

19., China Harbour Building, 370-374 King's Road, North Point, Hong Kong
Site Tel: (852) 24923680 Site Fax: (852) 2492 3701

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 : 26 April 2003
Our Ref.: T7/01.01/O/06688

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

Attention: Mr. Albert Lam- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-60 – Complaint of Construction Noise and Stagnant water

We refer to your letter dated 24 April 2003 regarding the captioned complaint near Monte Vista.

Upon receiving your letter, we then carried out a joint inspection at the concerned area with your staff Mr. H C Li on 25 April 2003 afternoon. We found that the possible mosquito breeding area are slowing flowing water courses near Bridge TC Cap 12 and at the rock slope opposite to Monte Vista. We have already carried out regular mosquito control exercise, including the spraying of pesticide, at these area if water could not be completely removed. Attached please find the record photos for your information.

Regarding to the construction noise complaint, please be reminded that the noise monitoring at Monte Vista have been carried out regularly to monitor the construction noise level, and temporary noise barriers have been installed to reduce the noise nuisance arising to the nearby area.

Thank you very much for your kind attention.

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

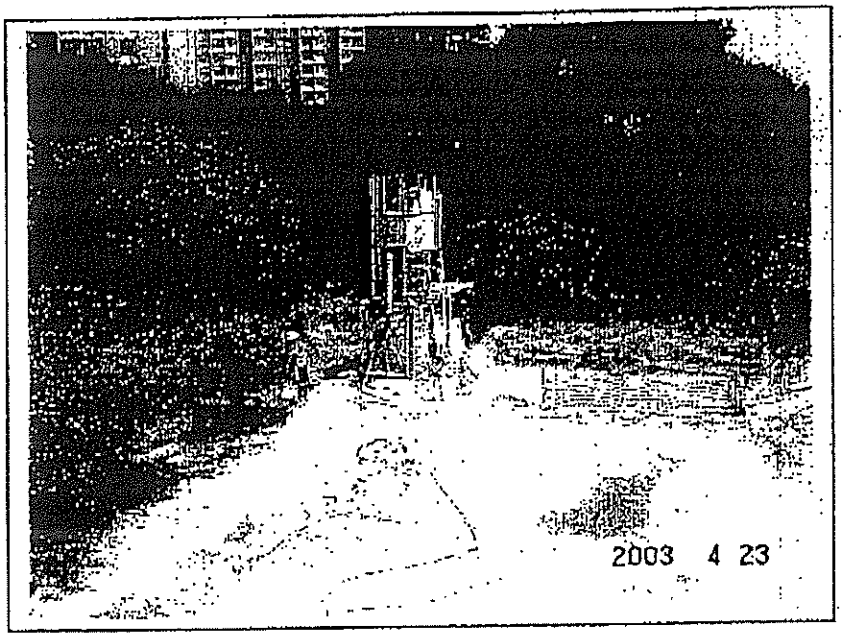
.....
Chan Man
Project Manager

CM/CL/[illegible]/GY/fc

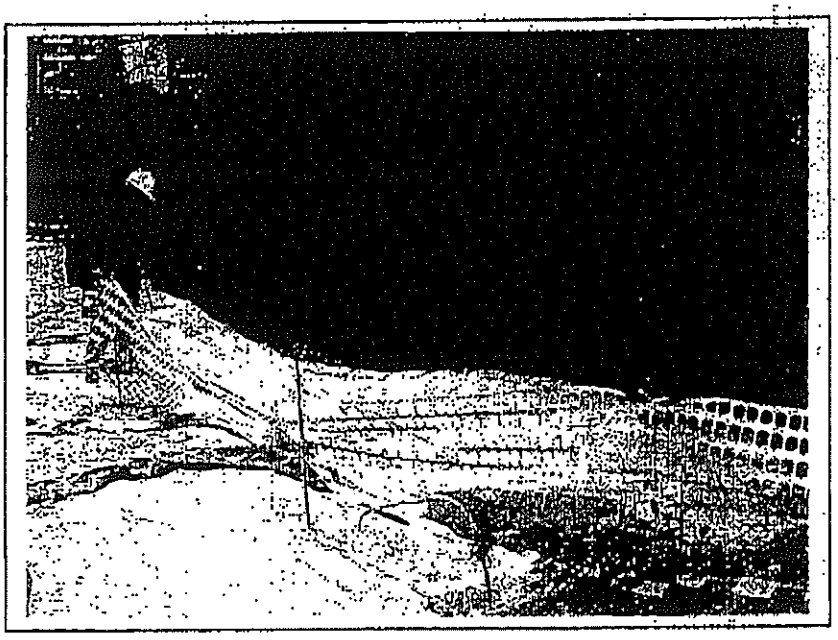
c.c. MCAL – H.O.
CHEC – H.O.
TDD – Mr. George Mak

香港北角英皇道370-374號振華大廈19樓
19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong
Tel: (852) 2887 8118 Fax: (852) 2512 0427 Website: http://www.chechk.com

Photos



Spraying of pesticide at the slowing flowing water courses near Monte Vista



Spraying of pesticide at the ponding water near Monte Vista

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

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

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www.maunsell.com.hk

Maunsell

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(0193)

2 June 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-61
Complaint of Ponding Water

I attach for your attention a copy of a fax of 30 May 2003 from PM/NTE attaching a complaint letter from a STDC member, Mr. Wong Kwok Hung, regarding ponding water within the Site.

I would be grateful if you would take remedial action immediately and give me your proposal for long term mitigation measures on or before 6 June 2003, so that I can reply to PM/NTE.

Arup Acoustics Job No. 23156
File No.
Master Ref.
Project Ref.
Reply Ref.
Rev. Date
Action Required:

Received - 2 JUN 2003

Inits.	ST	TC	Roy
Action			
Info.	ST	✓	✓
Copy			

Yours faithfully,

Allan Poon
Senior Resident Engineer

AP:li

Encl.

cc : MCAL } w/encl
OAP } w/o encl. (by fax only)
CHEC – HO } w/o encl.

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 : 3 June 2003
Your Ref: T7/(ST86/2000)/ M05/412(0193)
Our Ref.: T7/01.01/O/07182

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

Attention: Mr. Albert Lam- CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC-61 – Complaint of ponding water

We refer to your letter dated 2 June 2003 regarding the captioned complaint involving the ponding water at the footing of noise barrier NB3 near Kam Ying Court.

We have carried out an inspection with your SIOW, Mr. H C Li near the area and located the water ponding places. The ponding water was mainly came from the seepage of ground water behind the foundation wall of the noise barrier which was actually flowing. There was no sign of mosquito breeding. The ponding area was immediately filled up with crushed rocks and backfilling works were also started as a kind of preventive measures to avoid stagnant water and expected to be completed within 2 weeks.

We would also want to emphasize our strong efforts in prevention of stagnant water occurred in our construction site. Weekly site inspection has been jointly carried out with your site staff to eliminate mosquito larvae and remove ponding water. Enclosed please find a photos showing our operatives sprayed pesticide at the noise barrier NB3 footing near Kam Ying Court on 19 May 2003 for your record.

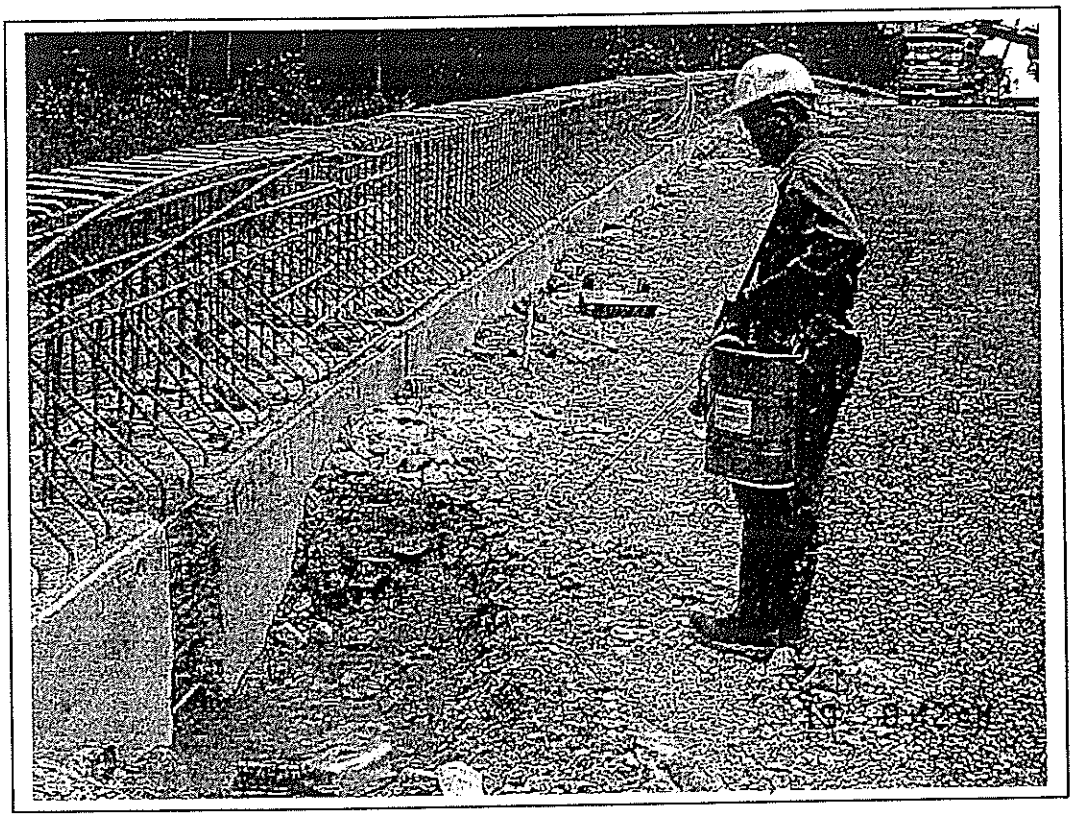
Enclosed please also find the photos of the corrective measures carried out at the noise barrier NB3 for your reference.

Thank you very much for your kind attention.

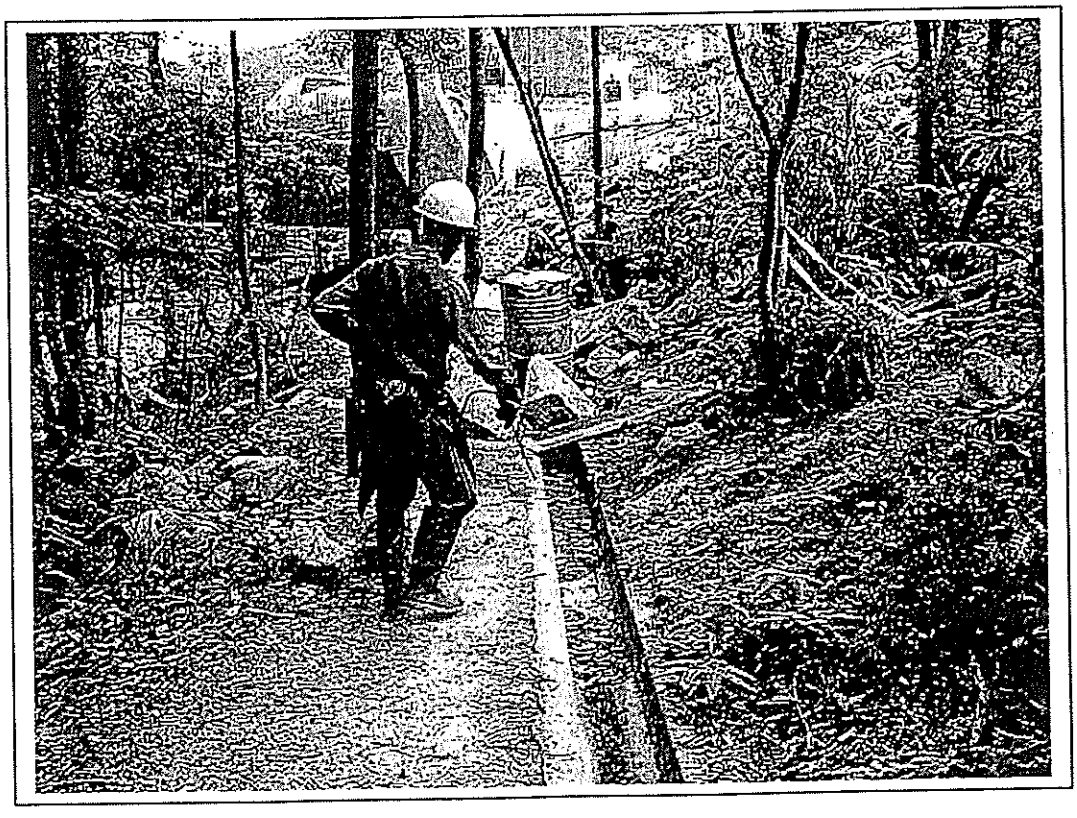
Yours faithfully,
For and on behalf of
China Harbour Engineering Co. (Group)

.....
Chan Man
Project Manager
CM/CL/[illegible]/GT/fc
Encl.
c.c. TDD- Mr. Fred Au
OAP- Mr. Thomas Chan (F: 2268 3950)
MCAL – H.O.
CHEC – H.O.

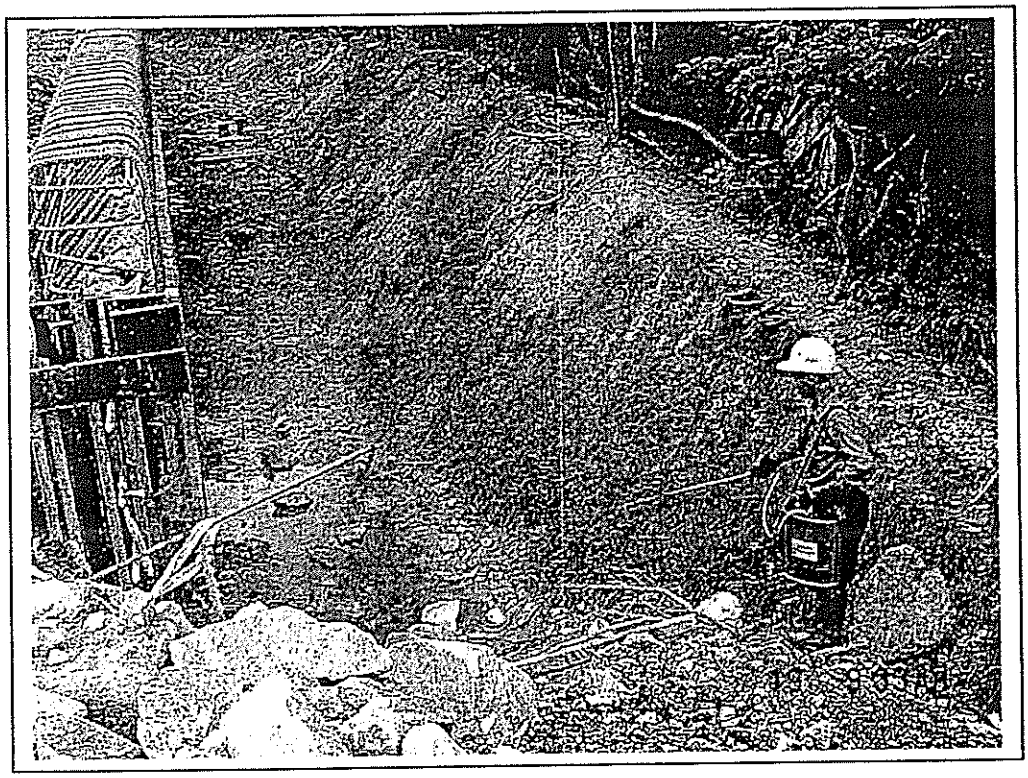
Photos



Our labour spraying pesticide near Kam Ying Court as part of the mosquito control activities done on 19 May 2003

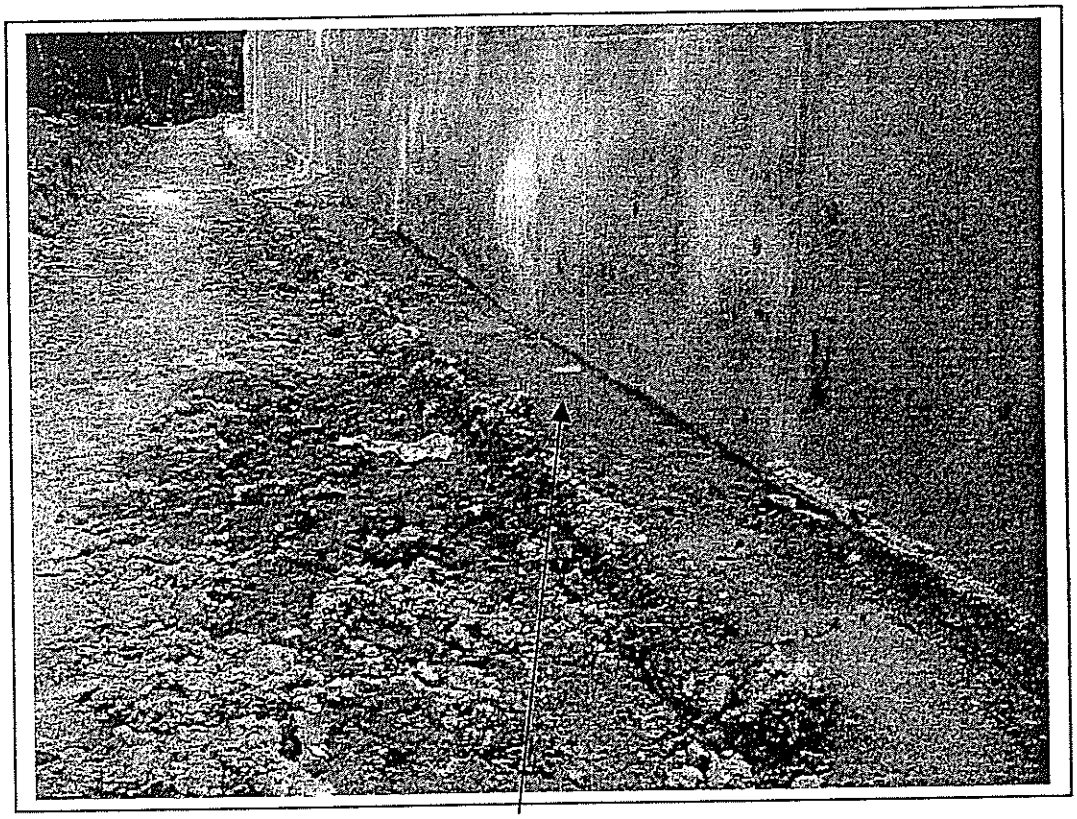


Photos

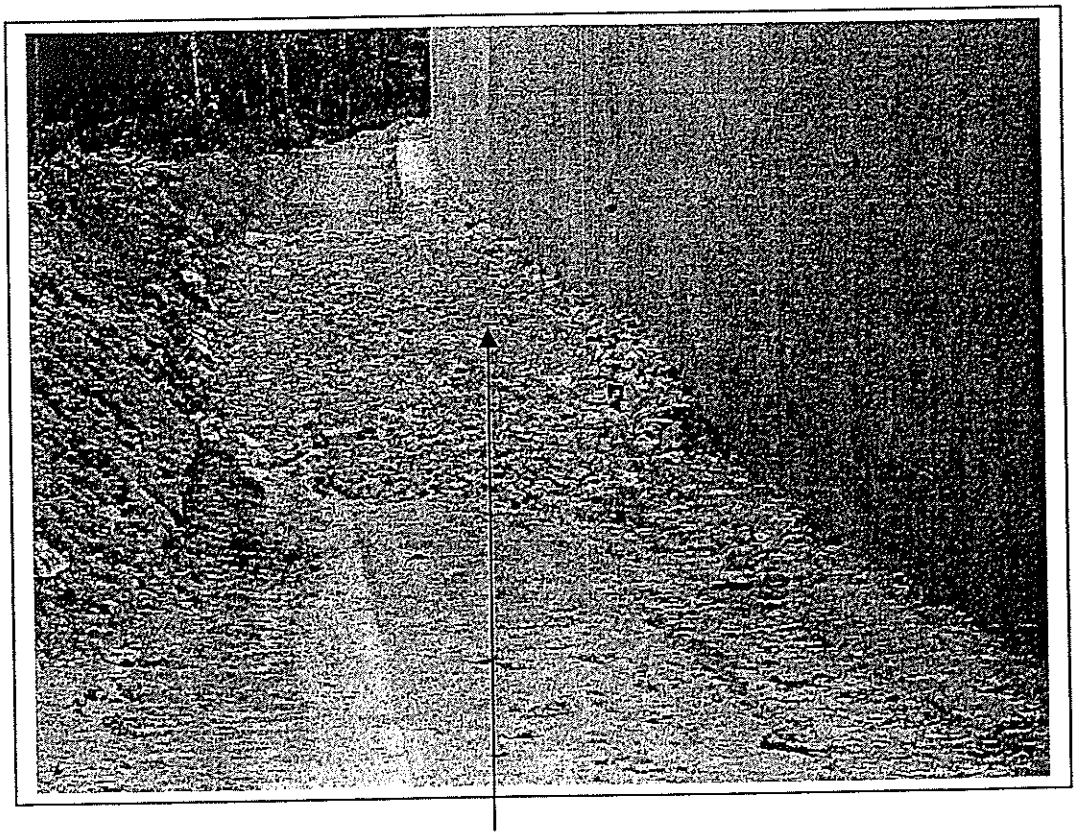


Our labour spraying pesticide at the water came from the seepage of ground water behind the foundation wall of the noise barrier in which water could not be pumped out completely and immediately on 19 May 2003

Photos



Ponding water was observed on 30 May 2003



The ponding area was rock-filled on 30 May 2003 and later earth-filled to prevent ponding water occurred again

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
電 話 TEL. NO.:
圖文傳真 FAX NO.: 2158 5823 2685 1155
電子郵件 E-MAIL:
網 址 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
上禾雀路一號
沙田政府合署 10 樓

16 June 2003

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

(Attn: Mr Sam Tsoi)

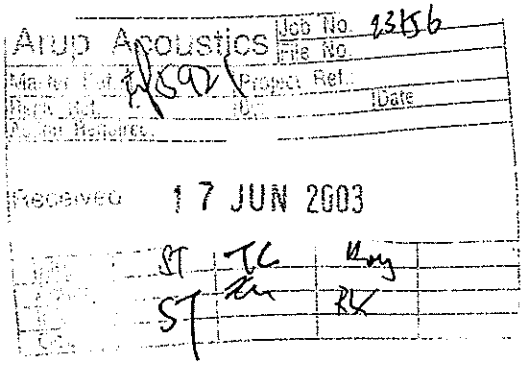
By Fax Only
(Fax : 2865 6493)
Total 2 pages

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 daytime and nighttime noise monitoring for the construction site of the captioned project near Monte Vista 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. George Mak	Fax.: 2721 8630)
Maunsell	(Attn: Mr. Albert Lam	Fax.: 2643 3559)
CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00006721-03

EPIC Ref:

CASE DETAILS

(1) Incident Date/Time: 09/06/2003

(2) Incident Location : Monte Vista 地址 :
SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE FROM T7 ROAD NEAR MONTE VISTA , SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	

(8) Priority class : B - Urgent i.e. substantive reply to be made on or before 23/06/2003

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/0000			N66	General construction noise except renovation

COMPLAINANT

(1) Name : ANONYMOUS (2) Tel. No. : Day :
姓名 : 匿名 Night :
Mobile:

(3) Address : 地址 :

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 02 - Letter

Source code :

Remarks :

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

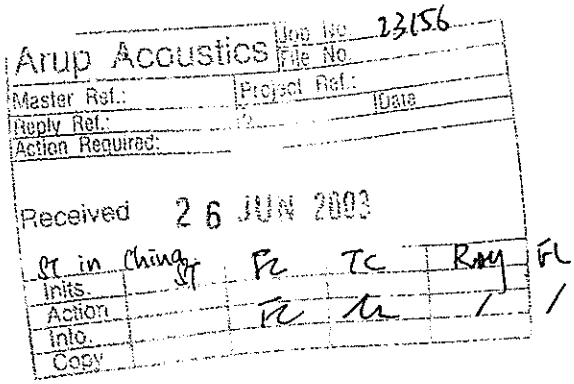
**Letter / Memo to be faxed / passed to subject SEPO(s). EPO(s). CI(s).

INFORMATION INPUTTED BY

Name : TNTELE Date : 09/06/2003 Time : 14:28

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 : 24 June 2003
Our Ref.: T7/02.03/O/06305



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

Attention: Mr. Jack Kan - EPO

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint – Noise complaint from resident of Monte Vista

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

For your information, noise measurements have been conducted by the environmental team on 10 June 2003 at the roof top of Block 15 of Monte Vista, and the noise measurements results were summarized as below:

Monitoring Period	**L_{eq}**	**L_{10}**	**L_{90}**
10:00 – 10:30 (daytime)	**65.5**	68.0	61.0
20:30 – 20:35 (nighttime)	**62.5**	64.0	57.5
20:35 – 20:40 (nighttime)	**60.5**	62.5	58.0
20:40 – 20:45 (nighttime)	**61.0**	63.0	58.0

All measurements results indicated that the construction noise levels are below the acceptable level. Temporary noise barriers and enclosures for construction works and our generators have already been erected before the complaint to reduce the noise nuisance arising to the public.

Enclosed please find the photos for your record.

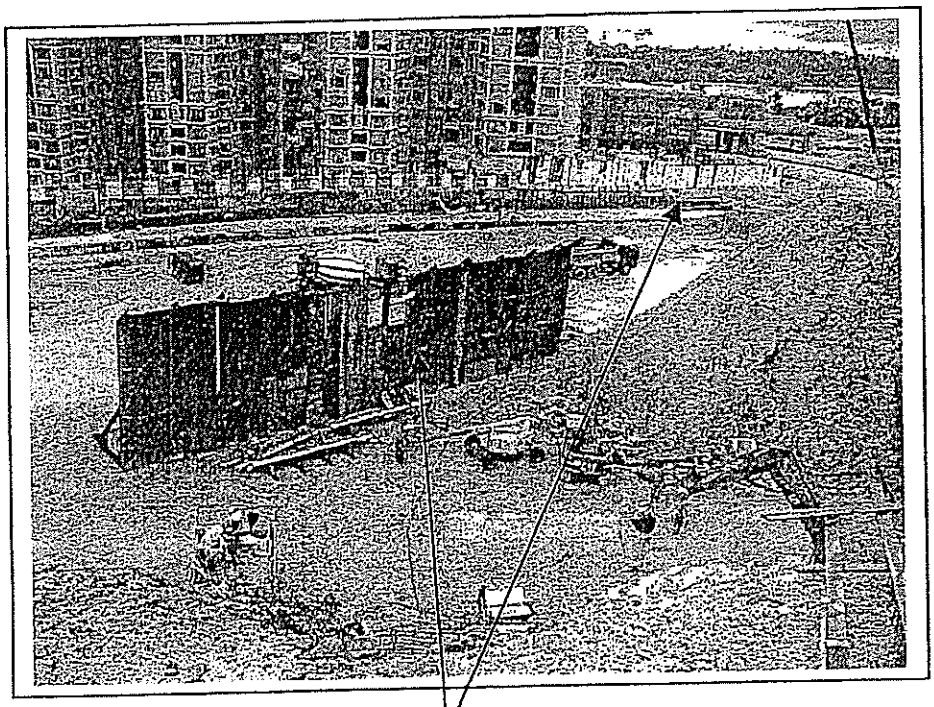
Thank you very much for your kind attention.

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

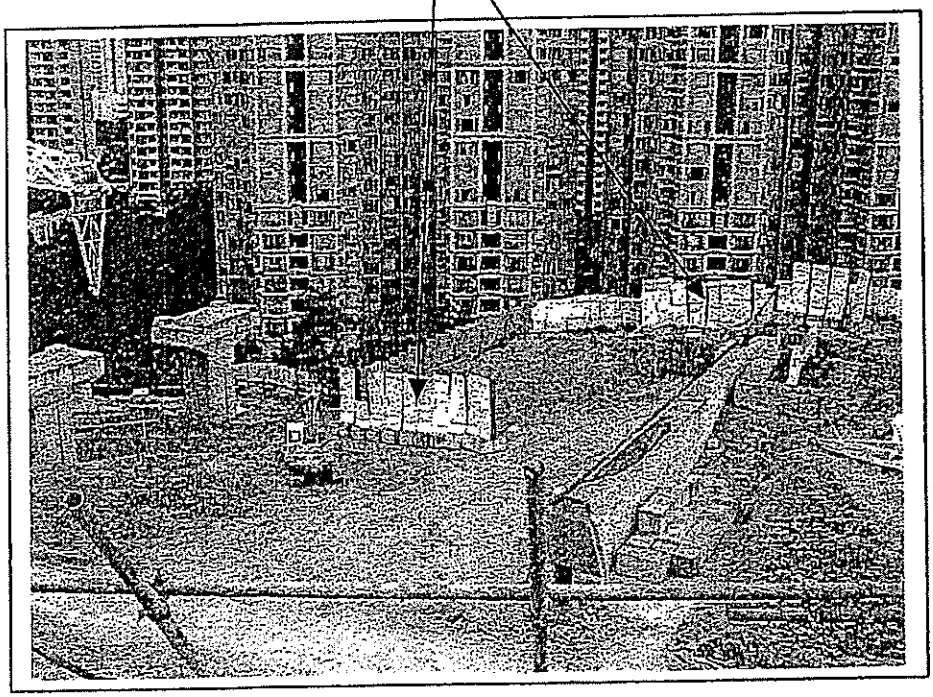
.....
Chan Man
Project Manager
CM/CL/PW/CT
c.c. MCAL – H.O.
CHEC – H.O.
TDD – Mr. Felix Yung (F: 2721 8630)
MCAL- Mr. Albert Lam
OAP – Mr. Thomas Chan (F: 2268 3950)

香港北角英皇道 370-374 號振華大廈 19 樓
19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong.
Tel: (852) 2887 8118 Fax: (852) 2512 0427 Website: http://www.chechk.com

Photos



Temporary noise barriers have been erected for construction works near Monte Vista



Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

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

香港新界沙田鄉平會路 138 號
新城中央廣場第 2 座 8 樓

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

Maunsell

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(0205)

27 June 2003

Arup Acoustics Job No. 23156 File No.
Master Ref. 04897 Project Ref.:
Reply Ref. Date
Action Required:
Received 27 JUN 2003
ST in China
Inits. ST FL TC Rory FL
Action FL Ian
Info.
Copy

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

I refer to your letter of 16 June 2003, containing a complaint received on 9 June 2003 on general construction noise near Moute Vista.

In our investigation, we note that there were intensive rainfall on 9 June 2003, both in the morning and in the afternoon. (Please refer to Annex 1.) Construction activities had been fairly slow. However, measurement of construction noise had been taken on 10 June 2003. This could be taken as a representative result for similar construction activities within the same area. The finding indicated that the L_{eq} had a range between 60.5dB(A) and 65.5dB(A), L_{10} between 62.5dB(A) and 68.0dB(A) and L_{90} between 57.5dB(A) and 61.0dB(A). (Please refer to Annex 2.) In view of the noise level of construction work being far below the limit level of 75dB(A), this complaint cannot be substantiated nor established.

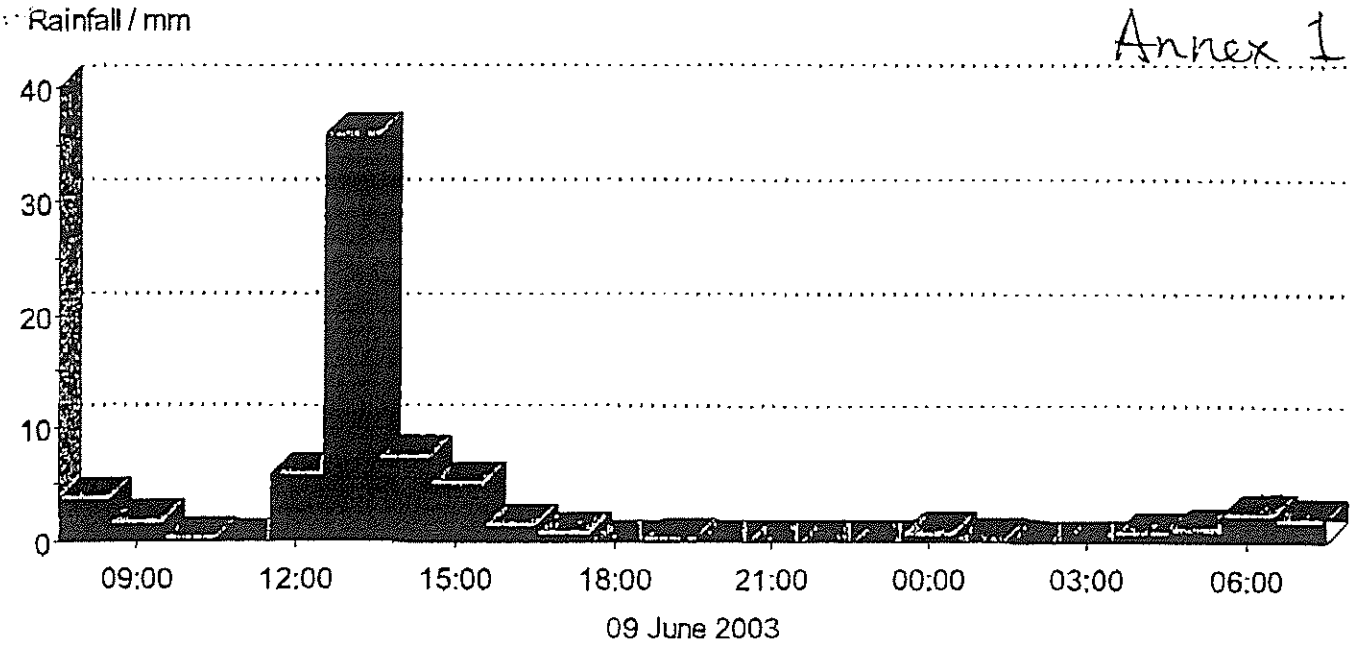
However, please note that the contractor for this Contract has taken additional mitigation measures by erecting temporary noise barriers. It appears that attempts have been made to reduce the noise nuisance as much as possible.

Yours faithfully,

Allan Poon
Senior Resident Engineer

AP:sci
cc : PM/NTE (Attn.: Mr. Felix Yung)
OAP (Attn.: Mr. Thomas Chan)
SIOW1

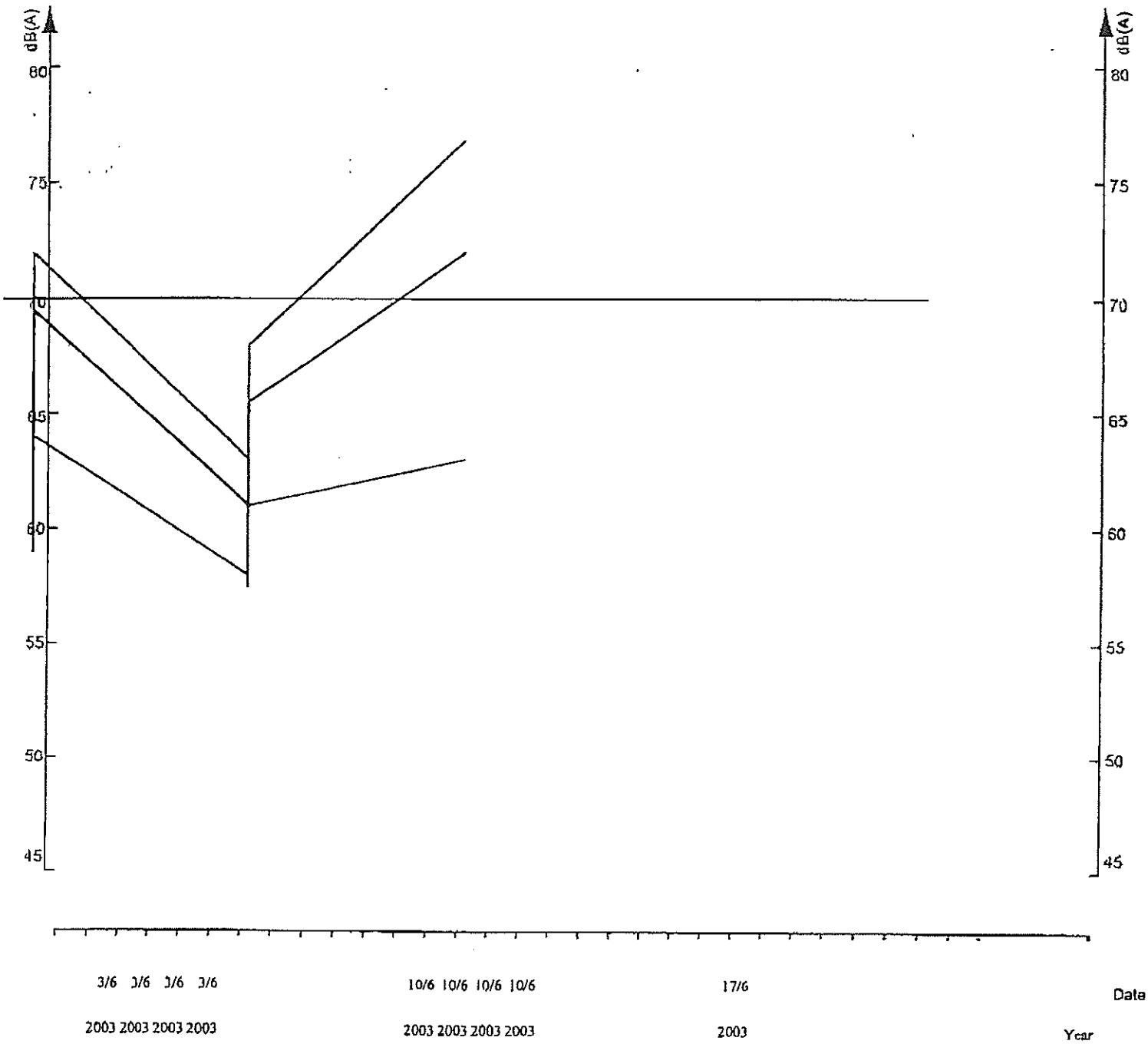
Annex 1


Rainfall / mm
40
30
20
10
0
09:00
12:00
15:00
18:00
21:00
00:00
03:00
06:00
09 June 2003

Annex 2

The Noise Data from 1-Jun-2003 To 1-Jul-2003 at
Roof of Block 15, Monte Vista

Leq - Black, L10 - Red, L90 - Blue



Date	Start time	Finish time	Leq,dB(A)	L10,dB(A)	L90,dB(A)
3-Jun-2003	PM 07:10:00	PM 07:15:00	61.5	63.0	59.0
3-Jun-2003	PM 07:05:00	PM 07:10:00	62.0	64.5	60.0
3-Jun-2003	PM 07:00:00	PM 07:05:00	64.0	66.0	60.5
3-Jun-2003	PM 03:25:00	PM 03:55:00	69.5	72.0	64.0
10-Jun-2003	PM 08:40:00	PM 08:45:00	61.0	63.0	58.0
10-Jun-2003	PM 08:35:00	PM 08:40:00	60.5	62.5	58.0
10-Jun-2003	PM 08:30:00	PM 08:35:00	62.5	64.0	57.5
10-Jun-2003	AM 10:00:00	AM 10:30:00	65.5	68.0	61.0
17-Jun-2003	AM 10:35:00	AM 11:05:00	72.0	76.8	63.0

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

Maunsell

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

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

Your Ref.:
Our Ref. : T7/(ST86/2000)/M05/412(0203)

26 June 2003

Arup Acoustics Job No. 23156
File No.
Master Ref. | Project Ref.
Reply Ref. | By | Date
Action Required
Received 26 JUN 2003
At in China
Inits.	JT	FL	TC	Roy	FL
Action		FL	Tn		
Info.				/	/

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-62
Public Complaint – Construction Noise

I attach for your attention and necessary action a copy of a letter from EPD – Ref. EP 580/E6/3/9 dated 24 June 2003, regarding a complaint of construction noise due to rock breaking in the daytime and hammering in the night time on 23rd June 2003.

Will you please give me a response before 4 July 2003.

Yours faithfully,

Allan Poon

Allan Poon
Senior Resident Engineer

AP:jt

Encl.

cc : MCAL (w/e)
OAP – w/e (by fax only)
SIOW1 – w/e (note : please investigate)
CHEC – HO (w/e)

OUR REF:
來函檔號
YOUR REF:
電　話
TEL. NO.:
圖文傳真　2158 5823
FAX NO.:　2685 1155
電子郵件
E-MAIL:
網　址
Homepage: http://www.info.gov.hk/epd/

Local Control Office/Territory North
10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, New Territories,
Hong Kong.

污染管制辦事處
（新界北）
香港新界沙田
上禾輋路 1號
沙田政府合署 10 樓

24 June 2003

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

10037254

(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 daytime and nighttime noise monitoring for the construction site of the captioned project near Block 3 of Monte Vista and report the outcome of the action to us within 2 weeks.

Contract No. ST86/2000		
IN	Trunk Road T7	
File No.:	M 05/412	(202)
Rec'd:	24 JUN 2003	
NoCAL Rec	A/I	C
CRE		
SRE 1	A	✓
SRE 2	I	
SLS / LS		
RE 2	I	
RE		
QS		
ARE		
ARE		
SIOW 1	I	✓
SIOW 2		
IOW		
STOC		
Rep		

to CHEC/TDD on 24/6

Yours faithfully,

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

Encl.

c.c. (all w/e)
TDD (Attn: Mr. George Mak Fax.: 2721 8630)
Maunsell (Attn: Mr. Albert Lam Fax.: 2643 3559)
CHEC (Attn: Mr. Chan Man Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00007795-03

EPIC Ref:

CASE DETAILS

(1) Incident Date/Time: 23/06/2003

(2) Incident Location : Monte Vista, SHA TIN 地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF DAYTIME & NIGHTTIME CONSTRUCTION NOISE FROM T7 CONSTRUCTION SITE NEAR BLOCK 3 OF MONTE VISTA . SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	C-Contunuous, W-Whole Time, A-Daily

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 15/07/2003

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/0000.			N66	
N01/TN/0000.			N66	
N01/TN/0000.			N66	

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址 :

投訴(1)日間打石時發出巨響
(2)晚間7時至11時進行
敲擊木板及金屬，及從
高處拋下木板，發出巨
響

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks :

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

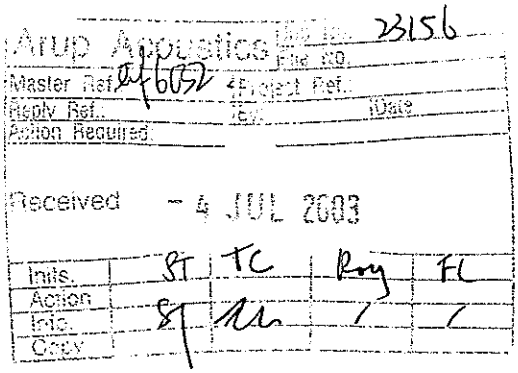
INFORMATION INPUTTED BY

Name : TNTELE Date : 23/06/2003 Time : 16:09

TOTAL P.02
TOTAL P.03

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 : 30 June 2003
Your Ref: T7/(ST86/2000)/ M05/412(0203)
Our Ref.: T7/01.01/O/07431



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

Attention: Mr. Albert Lam - CRE

Dear Sir,

Contract No. ST86/2000
Sha Tin New Town, Stage II
Construction of Road T7 in Ma On Shan
Environmental Complaint EC62 – Daytime and nighttime construction noise complaint near Block 3 of Monte Vista

We refer to your letter dated 26 June 2003 regarding to the captioned complaint.

The noise complaint, which involved: -

A) Noise generated from the rock breaking activity at daytime-

Noise measurements have been conducted on 14:30 of 23 June 2003 at the rooftop of Block 1 of Monte Vista during which rock breaking activity was in progress. The L_{eq} measured was 71.6 dB (A) which indicated that the construction noise levels are below the acceptable level. We have already carried out all the possible noise mitigation measures to reduce the noise generated from rock breaking, including the erection of temporary noise barriers;

B) Noise generated from hammering and handling of wooden boards and steel materials at nighttime-

For your information, our construction works would not involve the throwing of wooden boards from height and our site staff would not allow our labours to carry out that kind of works for the sake of safety. We would restrict our site workers to carry out the hammering of wooden boards and steel materials at the restricted hours in order to reduce the nuisance arising to the public. We would make appropriate arrangement for construction works after 19:00 in order to mitigate any nuisance to the public as practical as possible.

Enclosed please find the photos for your record.

.../2

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 : 30 June 2003
Your Ref: T7/(ST86/2000)/ M05/412(0203)
Our Ref.: T7/01.01/O/07431

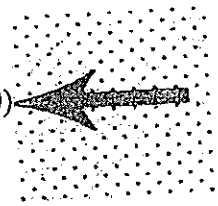
Thank you very much for your kind attention.

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

.....
Chan Man
Project Manager

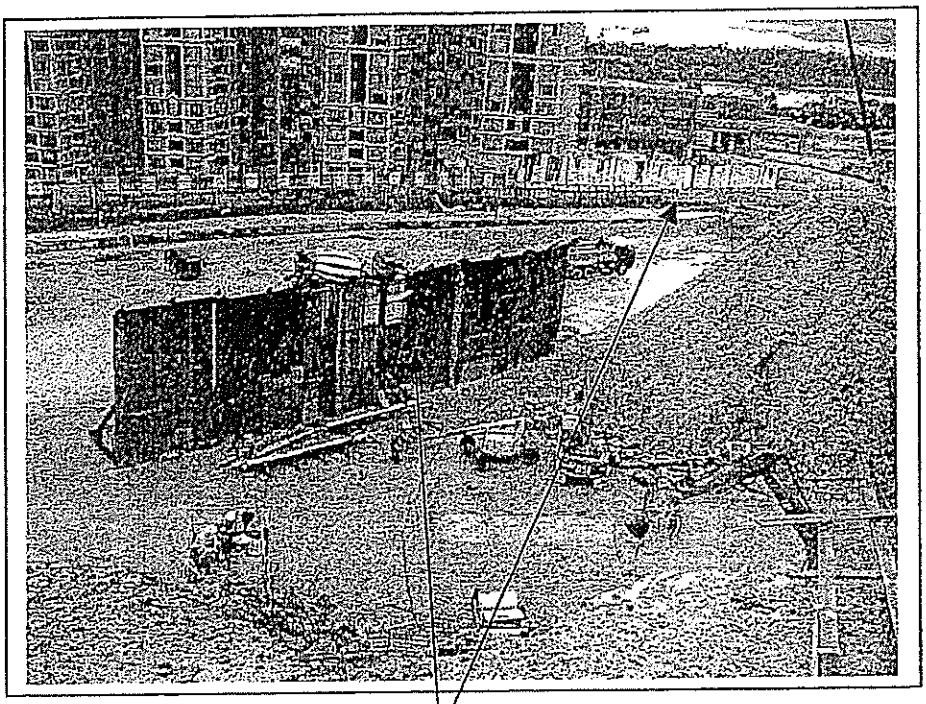
CM/CL/[illegible]/GT/fc

c.c. MCAL – H.O.
CHEC – H.O.
TDD – Mr. Felix Yung (F: 2721 8630)
EPD- Mr. Jack Kan (F:2685 1155)
OAP – Mr. Thomas Chan (F: 2268 3950)
WW, KCW



香港北角英皇道 370-374 號振華大廈 19 樓
19/F., China Harbour Building, 370-374 King's Road, North Point, Hong Kong.
Tel: (852) 2887 8118 Fax: (852) 2512 0427 Website: http://www.chechk.com

Photos



Temporary noise barriers have been erected for construction works near Monte Vista

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

Maunsell

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

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

Your Ref.: EP 580/E6/3/9
Our Ref. : T7(ST86/2000)/M05/412(0212)

23/6/11 July 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.

By Fax Only
(Fax: 2685 1155)

Attn: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Public Complaint – EC-62

I refer to your letter of 24 June 2003, attached with a Public Complaint of 23 June 2003 regarding daytime and nighttime construction noise near Block 3 of Monte Vista.

I have the following responses:

1) Noise generated from rock breaking activity at daytime -
Noise measurements had been taken at 2:30pm on 23 June 2003 on the rooftop of Block 1 of Monte Vista when rock breaking activity was in progress. The Leq was recorded to be 71.6 dB(A), which was below the limit level of 75dB(A). It was therefore considered that no further action was required. However, the Contractor had willingly erected a row of temporary noise barrier near Monte Vista. At the same time, the Contractor engaged another rock breaker of silent type to work in the vicinity of Monte Vista in order not to irritate the complainant.

2) Noise generated from hammering and handling of wooden boards and steel materials at nighttime -
The Contractor had been working between 7pm to 11pm near Monte Vista under a Noise Permit. It appeared that the work carried out on 23 June 2003 would not involve removal of formwork causing timber boards falling on the ground by accident. However, the Contractor would restrict his workers from hammering at nighttime in order to reduce the nuisance to the public. The Contractor had also indicated that he would re-organise his work so that the amount of night work could be reduced as much as possible.

..../P.2

I trust the above responses are acceptable to you.

Yours faithfully,

Allan Poon
Senior Resident Engineer

AP:li

cc : PM/NTE, TDD - Attn: Mr. Felix Yung
OAP - Attn: Mr. Thomas Chan
SIOWJ
CHEC – HO

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
電話 TEL. NO.:
圖文傳真 FAX NO.: 2158 5823 2685 1155
電子郵件 E-MAIL:
網址 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
上禾輋路一號
沙田政府合署 10 樓

25 June 2003

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

(Attn: Mr. Sam Tsoi)

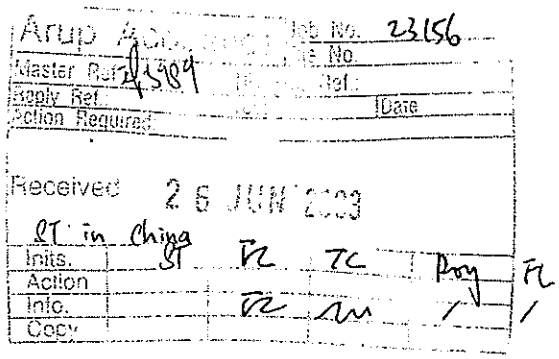
By Fax Only
(Fax : 2865 6493)
Total 2 pages

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.



Yours faithfully,

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

Encl.

c.c. (all w/e)
TDD (Attn: Mr. George Mak Fax.: 2721 8630)
Maunsell (Attn: Mr. Albert Lam Fax.: 2643 3559)
CHEC (Attn: Mr. Chan Man Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00007733-03

EPIC Ref:

CASE DETAILS

(1) Incident Date/Time: 23/06/2003 10:09

(2) Incident Location : SHA TIN 地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE WITHOUT PERMITTED HOURS & DUST FROM MONTE VISTA BLOCK 1 , SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	
A42-Construction dust	DMS-Domestic Premises	

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 15/07/2003

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/00[illegible]			N66	
N01/TN/000[illegible]			N66	
N01/TN/000[illegible]			A49	

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址 :

(4) Email Address :

After clarified with the complainant, the complainant was concerned on nighttime construction noise and construction dust emission from T7 construction site near Block 1 and 2 of Monte Vista.

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks : 查詢環保署爲何批准地盤在晚上7時後進行工程

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

INFORMATION INPUTTED BY

Name : TNTELE Date : 23/06/2003 Time : 10:31

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

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

Maunsell

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(0209)

Arup Acoustics File No. 23156
Master Ref. 26624
Reply Ref.:
Action Required:
Received - 2 JUL 2003
Inits. / Action / Info. / Copy

2 July 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-63
<u>Public Complaint – Nighttime Construction Noise and Dust Emission</u>

I attach for your attention and necessary action a copy of a letter from EPD – Ref. EP 580/E6/3/9 dated 25 June 2003, regarding a complaint of nighttime construction noise outside permitted hours and dust emission from T7 construction site near Blocks 1 and 2 of Monte Vista on 23 June 2003.

Will you please give me a response before 9 July 2003.

Yours faithfully,

Allan Poon
Senior Resident Engineer

AP:jt

Encl.

cc : MCAL (w/e)
OAP – w/e (by fax only)
SIOW 1 – w/e (note : please investigate)
CHEC – HO (w/e)

來函檔號
YOUR REF:
電 話
TEL NO.: 2158 5823
圖文傳真
FAX NO.: 2685 1155
電子郵件
E-MAIL:
網 址
Homepage: http://www.info.gov.hk/epd/

Local Control Office/Territory North
10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, New Territories,
Hong Kong.

(新界北)
香港新界沙田
上禾輋路一號
沙田政府合署 10 樓

25 June 2003

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

I0027319

(Attn: Mr. Sam Tsoi)

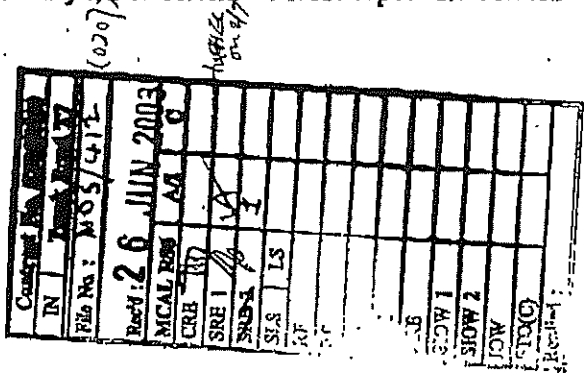
By Fax Only
(Fax : 2865 6493)
Total 2 pages

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.



Yours faithfully,

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

Encl.

c.c. (all w/e)

TDD	(Attn: Mr. George Mak	Fax.: 2721 8630)
Maunsell	(Attn: Mr. Albert Lam	Fax.: 2643 3559)
CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00007733-03

EPIC Ref:

CASE DETAILS

(1) Incident Date/Time: 23/06/2003 10:09

(2) Incident Location : 地址 :
SHA TIN

(3) TPU : 757

(4) Description : COMPLAINT OF GENERAL CONSTRUCTION NOISE WITHOUT PERMITTED HOURS & DUST FROM MONTE VISTA BLOCK 1 , SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	
A42-Construction dust	DMS-Domestic Premises	

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 15/07/2003

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/0[illegible]			N66	
N01/TN/000[illegible]			N66	
N01/TN/000[illegible]			A49	

COMPLAINANT

(1) Name : (2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址 :

(4) Email Address :

After clarified with the complainant, the complainant was concerned on nighttime construction noise and construction dust emission from T7 construction site near Block 1 and 2 of Monte Vista.

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks : 查詢環保署爲何批准地盤在晚上7時後進行工程

ACTION OFFICERS

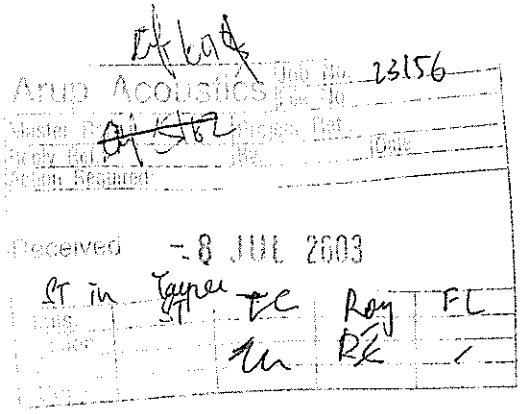
	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

INFORMATION INPUTTED BY

Name : TNTELE Date : 23/06/2003 Time : 10:31

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 : 7 July 2003
Your Ref: T7/(ST86/2000)/M05/412(0209)
Our Ref.: T7/01.01/O/07479



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

Attention: Mr. Albert Lam- CRE

Dear Sir,

Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC63 – Complaint on nighttime construction noise and construction dust emission near Block 1 of Monte Vista

We refer to your letter dated 2 July 2003 regarding the captioned complaint.

To suit the progress of our construction works, we have obtained a Construction Noise Permit of no. GW-TN0022-2003 from EPD. According to our investigation, the powered mechanical equipments operated near Block 1 of Monte Vista on the night before the incident date at restricted hours were generator and winch, which were covered by this Construction Noise Permit.

For the construction dust emission near Monte Vista, water sprayers and mist-typed sprinklers were already installed around the area for the sole purpose of dust suppression. The ET had measured the 1hr TSP level at Monte Vista and the results were shown to be below the alert level (350 $\mu g/m^3$).

Start Time	Finish Time	Level (µg/m3)
08:53 am	09:53 am	163.2
09:53 am	10:53 am	144.3
10:53 am	11:53 am	149.3

We would continue to keep effort in mitigating noise and dust nuisance arising to the public for our construction works.

Thank you very much for your kind attention.

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

pp Chan Man
Project Manager
CM/CL/PL/GT
c.c. MCAL – H.O.
CHEC – H.O.
OAP – Mr. Thomas Chan (F: 2268 3950)
TDD – Mr. Felix Yung (F: 2721 8630)
EPD- Mr. Jack Kan (F: 2685 1155)

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

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

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新城市中央廣場第2座8樓

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Maunsell

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(0213)

11 July 2003

By Fax Only
(Fax: 2685 1155)

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
Public Complaint – EC-63

Referring to your letter of 25 June 2003 and the Public Complaint of 23 June 2003 from a resident in Block 1 of Monte Vista, regarding general construction noise without permitted hours and dust emission, I would respond as follows:

1) General Construct Noise –

The Contractor carried out night work on 23 June 2003 under a Construction Noise Permit No. GW-TN0022-2003. A generator and an electric winch were the powered mechanical equipment being operated as permitted by the Noise Permit.

2) Dust Emission –

The Contractor has been using a number of water sprayers and mist-type sprinkers in the vicinity of Monte Vista for dust suppression. Our Environmental Team had recorded the 1 hour TSP level at Monte Vista as below.

Date	Start Time	Finish Time	Level ($\mu g/m^3$)
23-June-2003	8:53am	9:53am	163.2
23-June-2003	9:53am	10:53am	144.3
23-June-2003	10:53am	11:53am	149.3

As the recorded level was well below the alert level of 350 $\mu g/m^3$, it was considered that no further mitigation measures were necessary.

..../P.2

In view of the above findings, it appears that the complaint cannot be substantiated. However, the Contractor is willing to reduce his night work in order to minimize the nuisance to the neighbourhood.

Yours faithfully,

Allan Poon
Senior Resident Engineer

AP:li

cc : PM/NTE, TDD - Attn: Mr. Felix Yung
OAP - Attn: Mr. Thomas Chan
SIOW1
CHEC – HO

本署檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
電話 TEL. NO.: 2158 5823
圖文傳真 FAX NO.: 2685 1155
電子郵件 E-MAIL:
網址 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
上禾輋路一號
沙田政府合署 10 樓

27 June 2003

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

(Attn: Mr. Sam Tsoi)

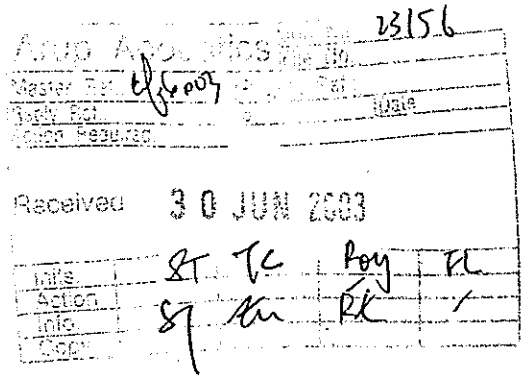
By Fax Only
(Fax : 2865 6493)
Total 3 pages

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 public complaints 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. George Mak Fax.: 2721 8630)
Maunsell (Attn: Mr. Albert Lam Fax.: 2643 3559)
CHEC (Attn: Mr. Chan Man Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00008149-03

EPIC Ref:

CASE DETAILS

(1) Incident Date/Time: 27/06/2003 09:43

(2) Incident Location : Lee On Estate, SHA TIN 地址 :

(3) TPU : 757

(4) Description : COMPLAINT OF NIGHT TIME GENERAL CONSTRUCTION NOISE FROM A SITE WHICH BUILD FLYOVER BETWEEN LEE ON ESTATE & MONTE VISTA, SHA TIN

(5) Nature	(6) Affected Party	(7) Pollution Pattern
N66-General construction noise except renovation	DMS-Domestic Premises	C-Continuous, DE-Day & Evening, W-Weekday

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 21/07/2003

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/0000			N66	C.....
N01/TN/0000			A42	...
N01/TN/0000			N66	.....
N01/TN/000.			N66	.....

COMPLAINANT

(1) Name :

(2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址 :

(4) Email Address :

T7 project.

According to the complainant, the noisy work was carried out at mid night on 26.6.03

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks : 投訴在翠雍華庭及利安村之間的天橋工程,工人開工至00:00,發出強烈的機器聲,滋擾附近的居民,要求跟進

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

INFORMATION INPUTTED BY

Name : HAUE3 Date : 27/06/2003 Time : 09:54

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00008148-03

EPIC Ref:

CASE DETAILS

(1) Incident Date/Time: 27/06/2003 09:44

(2) Incident Location : KAM YING COURT, SHA TIN 地址 : 錦英苑,

(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 renovation	DMS-Domestic Premises	C-Continuous, N-Night Time, A-Daily

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 21/07/2003

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

COMPLAINANT

(1) Name : (2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址 :

According to the complainant, the noisy work was carried out at mid night on 26.6.03

(4) Email Address :

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks : 投訴在錦良閣對出的T7公路的地盤於平日凌晨2:00及星期日早上7:00有工程進行,發出強烈的噪音,要求跟進

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

INFORMATION INPUTTED BY

Name : HAUE1 Date : 27/06/2003 Time : 09:48

Maunsell Consultants Asia Ltd
茂盛(亞洲)工程顧問有限公司

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

Maunsell

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(0210)

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-64
Public Complaint –Construction Noise

I attach for your attention and necessary action a copy of a letter from EPD – Ref. EP 580/E6/3/9 dated 27 June 2003, regarding 2 complaints of construction noise due to work being carried out at mid-night near Lee On Estate and Kam Ying Court on 26 June 2003.

Will you please give me a response before 9 July 2003.

Yours faithfully,

Allan Poon
Senior Resident Engineer

AP:jt

Encl.

cc : MCAL (w/e)
OAP – w/e (by fax only)
SIOW 1 – w/e (note : please investigate)
CHEC – HO (w/e)

本部檔號 OUR REF: EP 580/E6/3/9
來函檔號 YOUR REF:
電話 TEL. NO.: 2158 5823
圖文傳真 FAX NO.: 2685 1155
電子郵件 E-MAIL:
網址 Homepage: http://www.info.gov.hk/epd/

Local Control Office/Territory North
10/F, Sha Tin Government Offices,
No. 1 Sheung Wo Che Road,
Sha Tin, New Territories,
Hong Kong.

分區管制辦事處
(新界北)
香港新界沙田
上禾輋路一號
沙田政府合署 10 樓

27 June 2003

Contract No. ST86/2000		
IN	Trunk Road T7	
File No.:	M 05 / 412 (0208)	
Rec'd:	27 JUN 2003	
MCAL/BSS	A/I	C
CRE		
SRB 1	A	
SRB 2	I	
SLS LS		
RE		
RE		
QS		
ARE		
ARE		
SIOW 1		
SIOW 2		

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

(Attn: Mr. Sam Tsoi)

100274J10

By Fax Only
(Fax : 2865 6493)
Total 3 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 public complaints 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. George Mak	Fax.: 2721 8630)
Maunsell	(Attn: Mr. Albert Lam	Fax.: 2643 3559)
CHEC	(Attn: Mr. Chan Man	Fax.: 2492 3701)

NOTICE OF COMPLAINT

Complaint Ref. : N01/TN/00008148-03

EPIC Ref:

CASE DETAILS

(1) Incident Date/Time: 27/06/2003 09:44

(2) Incident Location : KAM YING COURT, SHA TIN 地址 : 錦英苑,

(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 renovation	DMS-Domestic Premises	C-Continuous, N-Night Time, A-Daily

(8) Priority class : C - Routine i.e. substantive reply to be made on or before 21/07/2003

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

COMPLAINANT

(1) Name : (2) Tel. No. : Day :
Night :
Mobile:

(3) Address : 地址 :

(4) Email Address :

According to the complainant, the noisy work was carried out at mid night on 26.6.03

CHANNEL OF COMPLAINT

Source channel: 01 - Phone

Source code : P - Public

Remarks : 投訴在錦良閣對出的T7公路的地盤於平日夜晚2:00及星期日早上7:00有工程進行,發出強烈的噪音,要求跟進

ACTION OFFICERS

	Nature Code	SEPO	EPO	CI
Coordinator	N66	S[TN]2		CI[TN]2

INFORMATION INPUTTED BY

Name : HAUE1 Date : 27/06/2003 Time : 09:48

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 : 7 July 2003
Our Ref.: T7/01.01/O/07488

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

Attention: Mr. Albert Lam- CRE

Dear Sir,

Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Environmental Complaint EC64 – Two complaints on nighttime construction noise near Lee On Estate and Kam Ying Court on 26 June 2003

We refer to your letter dated 2 July 2003 regarding the captioned complaint.

To suit the progress of our construction works, we have obtained a Construction Noise Permit of no. GW-TN0022-2003 from EPD. According to our investigation, the Powered Mechanical Equipments (PME) operated on 26 June 2003 near Lee On Estate between 19:00- 23:00 were generator and winch, which were covered by this Construction Noise Permit. No PME was operated at mid night. After the discussion, we would schedule our works to be completed at 19:00 in order to mitigate the noise impact generated to the public, although Construction Noise Permit was granted in this case.

For the noise complaint near Kam Leung House of Kam Ying Court, we have checked that the Water Services Department has conducted the water diversion works near the area at that night, and the works were not part of T7 contract. We would also like to emphasize that no construction works would be carried out at restricted hours around the area unless Construction Noise Permit was granted by EPD.

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/CY
c.c. MCAL – H.O.
CHEC – H.O.
OAP – Mr. Thomas Chan (F: 2268 3950)
TDD – Mr. Felix Yung (F: 2721 8630)
EPD - Mr. Jack Kan (F: 2685 1155)
WW/KCW/CKL

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

8/F., Grand Central Plaza, Tower 2
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Sha Tin, N.T., Hong Kong
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新城市中央廣場第 2 座 8 樓

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

Your Ref.: EP 580/E6/3/9
Our Ref. : T7(ST86/2000)/M05/412(0214)

11 July 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.

By Fax Only
(Fax: 2685 1155)

Attn: Mr. Jack KAN

Dear Sirs,

Shatin New Town Stage II
Contract No. ST86/2000
Construction of Road T7 in Ma On Shan
Public Complaint – EC-64

I refer to your letter of 27 June 2003, attached with 2 Public Complaints of 27 June 2003 from residents of Kam Ying Court and Lee On Estate, regarding noisy work being carried out at mid-night of 26 June 2003.

I would advise you that the Contractor for the captioned Contract had been carrying out night work under a Construction Noise Permit No. GW-TN0022-2003. The Powered Mechanical Equipment (PME) operated on 26 June 2003 near Lee On Estate between 7 pm and 11pm were a generator and an electric winch, which were permitted by the Noise Permit. No PME was operated at midnight.

We understood that Water Supplies Department carried out water diversion work near the site of Road T7 Contract during the nighttime of 26 June 2003. We therefore would suggest you to check with WSD.

Yours faithfully,

Allan Poon
Senior Resident Engineer

AP:li

cc : PM/NTE, TDD - Attn: Mr. Felix Yung
OAP - Attn: Mr. Thomas Chan
SIOW1