BARBICAN CONSTRUCTION CO., LTD

Contract No. HY/2001/18
Sai Sha Road Widening between Kam Ying Road and Future Trunk Road T7 Junction

QUARTERLY ENVIRONMENTAL

MONITORING & AUDIT REPORT

(JUL - SEP 2003)

REPORT NO. 04

Document No. R/2563/017 Issue 1

October 2003

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Babtie Asia

R/2563/017 Issue 1 October 2003

Contract No. HY/2001/18 Sai Sha Road Widening between Kam Ying Road and Proposed Road T7 Junction

Quarterly Environmental Monitoring & Audit Report (July - Sept 2003) Report No. 04

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CONTRACT NO. HY/2001/18 SAI SHA ROAD WIDENING BETWEEN KAM YING ROAD AND FUTURE TRUNK ROAD T7 JUNCTION

QUARTERLY ENVIRONMENTAL MONITORING & AUDIT REPORT (JUL – SEP 2003)

REPORT NO. 04

CONTENTS

EXECUTIVE SUMMARY

- 1.0 PROJECT INFORMATION
 - 1.1 Background
 - 1.2 Contact Details of Key Personnel
 - 1.3 Construction Programme
 - 1.4 Site Management Structure
 - 1.5 Synopsis of Works Undertaken during the Quarter
 - 1.6 Project Area, Sensitive Receivers & Monitoring Locations
 - 1.7 Summary of EM & A Requirements

2.0 IMPLEMENTATION STATUS

- 2.1 Advice on the Implementation Status of Environmental Protection & Pollution Control / Mitigation Measures
 - 2.1.1 Construction Noise Mitigation Measures
 - 2.1.2 Landscape and Visual Mitigation Measures
- 3.0 MONITORING RESULTS
 - 3.1 Graphical Plots of the Trends of Monitored Parameters
 - 3.2 Major Activities during the Quarter
 - 3.3 Weather Conditions
 - 3.4 Influencing Factors
- 4.0 SUMMARY OF NON-COMPLIANCE OF THE ACTION AND LIMIT LEVELS, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS
 - 4.1 Non-compliance of the Action and Limit Levels
 - 4.1.1 Noise
 - 4.2 Written Complaints and Verbal Complaints
 - 4.2.1 Summary Record of All Complaints Received

5.0 COMMENTS

- 5.1 Effectiveness and Efficiency of the Mitigation Measures
- 5.2 Recommendations

Appendix H Contact Details & Hotline

5.3 Conclusions

6.0 PROPONENTS' CONTACTS AND HOTLINE TELEPHONE NUMBER

APPENDICES

Appendix A	Construction Programme
Appendix B	Site Organization Chart
Appendix C	Summary of EM & A Requirement
Appendix D	The Project Area, Environmental Sensitive Receivers and the Locations of the Monitoring Stations
Appendix E	Weather Conditions during the Monitoring Period
Appendix F	Graphical Plots of Trends of Monitored Parameters
Appendix G	Statistics for Environmental Complaints

EXECUTIVE SUMMARY

This is the fourth Quarterly EM & A Report for the project of Sai Sha Road Widening between Kam Ying Road and Future Trunk Road T7 Junction.

This report mainly presents the EM & A works undertaken for the above project from 1 July 2003 to 30 September 2003 in accordance with the EM & A Manual under Appendix H.3 of the Particular Specification.

Noise Level

During the reporting quarter, L_{eq} (30min) noise level measurement was performed at CNM 1, CNM 2 and CNM 3. CNM 1 is for noise sensitive receivers (NSRs 1 & 2) Wu Kwai Sha New Village. CNM 2 is for (NSRs 3 & 4) Kam Lung Court/ Lee On Estate. CNM 3 is for (NSR7) Residential Development at Wu Kai Sha DD 206. The noise limit level for all the noise sensitive receivers is 75 dB(A).

Owing to the absence of any noise sensitive receiver at the moment, the noise monitoring work at station CNM 3, Wu Kwai Sha DD 206, had been suspended since 1 August 2003. In case there is any new noise sensitive receiver(s) established at Wu Kwai Sha DD 206 during the remaining construction period, the monitoring work will be immediately resumed and conducted in accordance with the requirements set out in the Environmental Monitoring and Audit Manual.

In general, all the measured noise levels at the three monitoring stations are below the noise limit level.

Complaint log

No written or verbal complaints were received during the reporting quarter.

Others

No notifications of summons, no successful prosecutions were received during the reporting period except the above mentioned.

Comments

Noise Impact Mitigation Measures

The mitigation measures mentioned in the EIA Report generally help the Contractor reduce the noise level. In accordance with Annex A in the EIA report, construction noise mitigation options remain the same as the third quarter for all noise assessment locations.

Landscape Impact Mitigation Measures

The mitigation measures mentioned in the EIA Report generally help the Contractor protect the environment especially for the trees mentioned in the EIA Report to be retained. The Contractor should notify the ET in advance before any tree transplanting works are undertaken.

1.0 PROJECT INFORMATION

1.1 Background

Babtie Asia Ltd was employed by the Contractor to act as the Environmental Team for this project. The Independent Environmental Checker is BMT Asia Pacific Ltd.

The purpose of this report is to document the Environmental Monitoring & Audit (EM & A) works for the period between 1 July 2003 and 30 September 2003.

1.2 Contact Details of Key Personnel

Titles, names and contact telephone numbers of the key personnel of the captioned project are shown in Appendix H.

1.3 Construction Programme

The construction programme has been recently revised. The latest construction programme is attached in Appendix A. This construction programme is subject to continuous refinement.

1.4 Site Management Structure

The site organization chart is shown as Appendix B.

1.5 Synopsis of Works undertaken during the Quarter

The works for this project are divided into three sections: Section 1, Section 2 and Section 3.

Section 1 comprises all the works for the completion of the subway system connecting the existing vacant subway barrel across Sai Sha Road adjacent to Kam Ying Road and the local widening of northern Kam Ying Road and all associated landscaping works.

Section 2 comprises all construction works including the new carriageways, two footbridges and all footpath, cycle tracks, subways, village access road, noise barriers, roundabout and associated works comprising drainage works, E&M works, traffic signs and aids, slope works, embankments, retaining walls, subway wing walls, cycle parks, fencing, street lighting and all associated landscaping works, except Section 1 and Section 3.

Section 3 comprises all the works for the new access road to Whitehead and all the works except Section 1 and 2.

The works undertaken during the year were as follows:

- Drainage Works
- Minipile Works for Footbridge (FB 1)
- Retaining Wall construction
- Construction of three subways

Road Works

1.6 Project Area, Sensitive Receivers & Monitoring Locations

The drawings showing the project area, noise sensitive receivers (NSRs) and the locations of the monitoring stations are shown in Appendix D.

The construction noise monitoring stations are CNM 1, CNM 2 and CNM 3.

CNM 1 is for noise sensitive receivers (NSRs 1 & 2) Wu Kwai Sha New Village. CNM 2 is for (NSRs 3 & 4) Kam Lung Court/ Lee On Estate. CNM 3 is for (NSR7) Residential Development at Wu Kai Sha DD 206.

Noise monitoring work at CNM3, Wu Kwai Sha DD 206, was temporarily suspended since 1 August 2003 owing to the absence of any noise sensitive receiver. In case there is new noise sensitive receiver established at the site of Wu Kwai Sha DD 206 during the remaining construction period, the monitoring work will be immediately resumed and conducted in accordance with the requirements set out in the Environmental Monitoring and Audit Manual.

It is noted that the locations of the monitoring stations are the same as those adopted in the Noise Baseline Monitoring.

1.7 Summary of EM & A Requirements

The summary of the EM & A Requirement is shown in Appendix C.

2.0 **IMPLEMENTATION STATUS**

According to the EIA report, the following should be implemented for the fourth construction phase quarter.

Location	Reference	Environmental Protection	Agent
	Section	Measures	
Construction Noise Mitigati			
Wu Kwai Sha New	EIA 3.5.25	Mitigation Option 2	Contractor
Village (1)			
Wu Kwai Sha New	EIA 3.5.23	Mitigation Option 2	Contractor
Village (2)			
Lok Wo Sha (1)	EIA 3.5.23	Mitigation Option 1	Contractor
Lok Wo Sha (2)	EIA 3.5.23	Mitigation Option 2	Contractor
		NATION OF THE PROPERTY OF THE	
Kam Lung Court (1)	EIA 3.5.25	Mitigation Option 2	Contractor
		NATION OF THE PROPERTY OF THE	
Kam Lung Court (2)	EIA 3.5.25	Mitigation Option 2	Contractor
		Mitigation	Contractor
Lee On Estate (1)	EIA 3.5.25	Mitigation Option 2	Contractor
Las On Fatata (2)		Mitigation Option 2	Contractor
Lee On Estate (2)	EIA 3.5.25	Mitigation Option 2	Contractor
Danislantial		Mitigation Option 1	Contractor
Residential	EIA 3.5.23	Mitigation Option 1	Contractor
Development			
STTL446		N	
Residential	EIA 3.5.23	Mitigation Option 1	Contractor
Development at Wu			
Kai Sha DD206			

Note: The locations of the noise assessment points are shown in the Figure 7 of the EIA Report.

Location	Reference	Environmental Protection	Agent
	Section Measures		
Construction Phase Landsca		tigation Measures	
All Scheme Roads	EIA 4.5.1	 Conservation of topsoil; Screening of site construction works by use of hoardings; Surface treatment of site hoardings to enhance visual interest and harmony with surrounding landscape / townscape; Locating site offices and other temporary buildings in least visually prominent locations; Efficient programming of construction works to reduce duration of construction works; Staging of construction works to minimise areas requiring site hoardings which creates visual intrusion; Re-routing of pedestrian routes away from the work site where possible; Retaining existing trees and minimising damage to vegetation where possible. Care shall be taken not to damage those trees identified in the Tree Survey Report to be retained during the construction phase; and Careful and efficient transplanting of existing vegetation carried out under the supervision of a professional landscape architect 	Contractor

2.1 Advice on the Implementation Status of Environmental Protection & Pollution Control / Mitigation Measures

2.1.1 Construction Noise Mitigation Measures

The Contractor should use silencers or mufflers on construction equipment such as pneumatic breaker and have noisy air compressor completely enclosed to avoid the noise limit exceedance and the nuisance to the nearby sensitive receivers.

Regular maintenance of the construction plant is strongly encouraged to avoid the black smoke and the excessive noise production. The machines and plant should be shut down or throttled down to a minimum when they are in intermittent use.

The plant known to emit noise strongly in one direction should be orientated to direct noise away from nearby noise sensitive receivers. The mobile plants should be sited as far away from the noise sensitive receivers as possible.

Care should be taken that different mitigation plans (option 1 & option 2) should be applied to different noise sensitive receivers. For mitigation option 2, more stringent environmental control will be required and implemented. The Contractor should pay particular attention to follow and carry out the mitigation measures mentioned in the EIA Report for those sensitive receivers to whom mitigation option 2 should be applied.

It is noted that for different construction phase quarters, the mitigation option will be different. The detailed environmental mitigation implementation schedule is shown in the EIA Report Annex A for different construction phases.

If significant noise impact due to future construction works is identified, the Contractor may be required to erect the temporary movable noise barrier to surround the noise source as recommended in the EIA Report and the EM & A Manual.

2.1.2 Landscape and Visual Mitigation Measures

Care should be taken not to damage those trees identified in the Tree Survey Report to be retained during the construction phase.

In case of the conflict between the construction machine and the trees during the construction activities, the Contractor may consider adopting an alternative construction approach to protect the trees from being damaged. As the last resort, the tree transplanting method may be considered. However, prior to such action, approval from the Engineer, the Environmental Team Leader and the Independent Environmental Checker should be obtained.

Frequent monitoring of the transplanted tree is required to observe whether they live in good condition in new environment.

Whenever tree transplanting is required, the Contractor should notify the ET in advance and should carry out the works under the supervision of a professional landscape architect as stipulated in the EM & A Manual.

3.0 MONITORING RESULTS

3.1 Graphical plots of the monitored parameters

The graphical plots of the trends of the monitored parameters over the past 4 months (the last month of the previous quarter and the present quarter) for representative monitoring stations are shown in Appendix F.

3.2 Major Activities during the Quarter

Major activities during the quarter include the followings:

- Drainage Works
- Minipile Works for Footbridge (FB 1)
- Retaining Wall construction
- Construction of three subways
- Road Works

3.3 Weather Conditions

The weather conditions were mainly sunny and cloudy and did not affect the environmental monitoring works during the reporting period. The weather conditions during the period are shown in the Appendix E.

3.4 Influencing Factors

The construction works of the ASD site area near Lee On Estate slightly affected the noise monitoring results especially for CNM 2. The traffic noise from Sai Sha Road significantly contributed to the noise pollution.

4. SUMMARY OF NON-COMPLIANCE OF THE ACTION AND LIMIT LEVELS, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

4.1 Non-compliance of the Action and Limit Levels

4.1.1 Noise

During the reporting period, no noise limit exceedance was found.

4.2 Written Complaints and Verbal Complaints

4.2.1 Summary Record of All Complaints Received

No complaints were received during the reporting quarter. The statistics for environmental complaint is shown in Appendix G.

The following table shows the summary for all the complaints received since the commencement of the Contract.

TOTAL NO. OF COMPLAINT	NO. OF COMPLAINT RECEIVED WITHIN REPORTING PERIOD	NO. OF COMPLAINT THAT IS STILL UNDER INVESTIGATION	NO. OF CLOSED COMPLAINT
1	0	0	1

5.0 COMMENTS

5.1 Effectiveness & Efficiency

Noise Impact Mitigation Measures

The mitigation measures mentioned in the EIA Report generally help the Contractor reduce the noise level. It is satisfactory to see that the noisy air compressors were completely enclosed, which significantly reduces the equipment noise.

During the quarter, the site activities were not very noisy and no noise exceedance was found. The effectiveness and the efficiency of the mitigation measures through good site practice have been in general effective in minimising the noise impact. The Contractor should frequently review the construction work and prevent simultaneous operation of noisy plant and equipment to prevent intolerable disturbance to the sensitive receivers at the concerned vicinity.

If significant noise impact is identified, the Contractor may be required to erect the temporary movable noise barriers to surround the noise source as stipulated in the EM & A Manual.

Landscape Impact Mitigation Measures

The mitigation measures mentioned in the EIA Report generally help the Contractor protect the environment especially the trees mentioned in the EIA Report to be retained.

The transplanted trees are generally in good condition. This complies with the recommendations of the EIA Report.

5.2 Recommendations

The Contractor should closely monitor the environment being affected by their site activities not only limited to their site area but to those places where the site works will adversely influence the environment and residents.

Closely following the mitigation options mentioned in the EIA Report can help the Contractor eliminate unfavourable environmental impacts.

In addition, the Contractor should minimize the accumulation of the stagnant water within the site area to avoid the breeding of insects especially for the mosquitoes and the spread of dengue fever.

To improve the hygiene condition of the site, the Contractor should remove the rubbish within the site area regularly.

The site runoff resulting from the piling works for the construction of footbridges should be properly treated through the desilting sedimentation tank before being discharged to the stormwater drainage system.

The Contractor is always reminded that unpaved access road should be watered frequently for dust suppression.

5.3 Conclusions

During the past three months, no serious environmental pollution was observed. However, the Contractor should keep it up and maintain a good environment for both residents and the pedestrians, hoping to achieve zero non-compliance and no complaints.

The ET will closely monitor the site environment by conducting weekly noise monitoring and site environmental audit.

6.0 PROPONENTS' CONTACTS AND HOTLINE TELEPHONE NUMBER

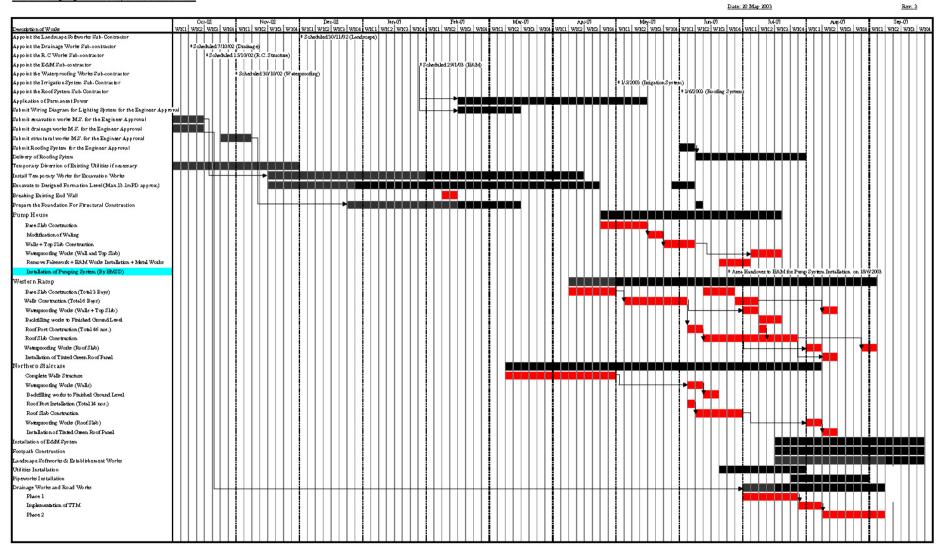
The contact details can be found in Appendix H.



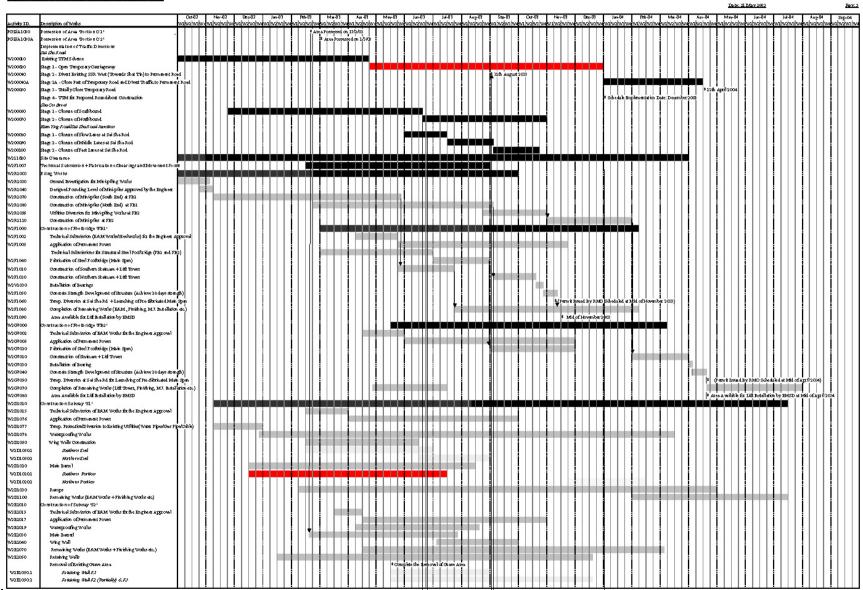
APPENDIX A
CONSTRUCTION PROGRAMME

Barbican Construction Limited Contract No. HY/2001/18 Sai Sha Road Widening Between Kam Ying Road and Future Trunk Road T7 Junction

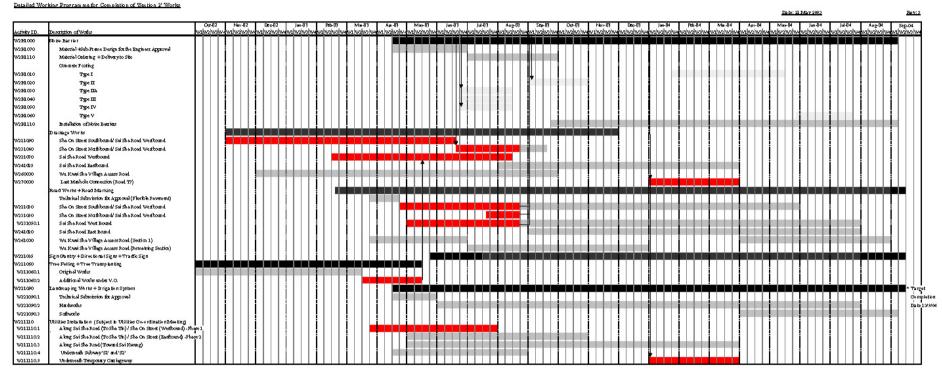
Detailed Working Programme for Completion of 'Section 1' Works



Barbkan Construction Limited Contract No. HY200 1/18 sai Sha Road Widening Between Kam Ying Road and Future Trunk Road TV Junction Datailed Working Program mayor Completion of Section 2 Works



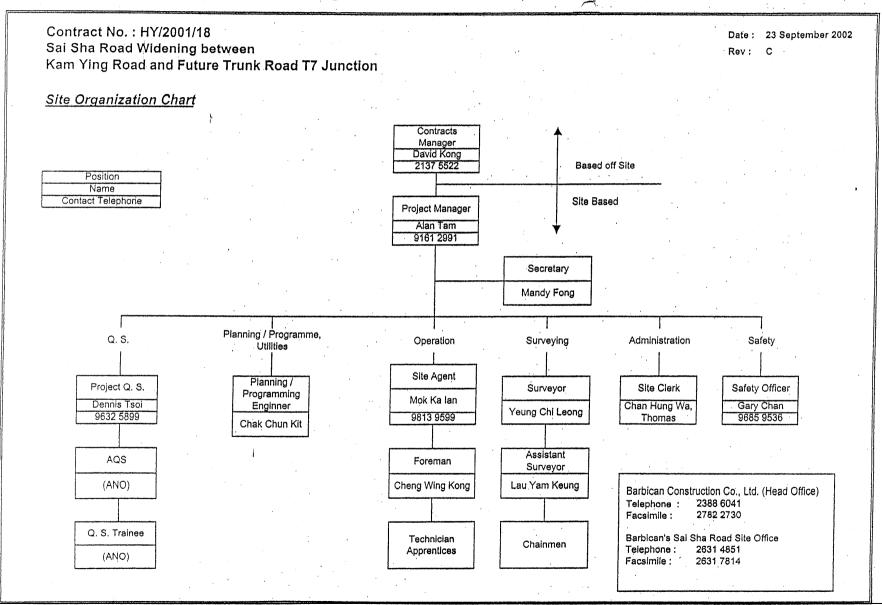
Barbican Construction Limited Contract No. HY/2001/18 Sai Sha Road Widening Between Kam Ying Road and Future Trunk Road TV Junction





APPENDIX B SITE ORGANIZATION CHART

Barbican Construction Co., Ltd.



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APPENDIX C SUMMARY OF EM & A REQUIREMENT

SUMMARY OF EM & A REQUIREMENTS

Noise Monitoring Parameters

According to Section 2.2.1 of the EM & A Manual, the noise monitoring parameters are:

- 1) A-weighted equivalent continuous sound pressure level LAeq (30min) for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, LAeq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria
- 2) LA10 and LA90, defined as the levels that have been exceeded the 10% and 90% of the measurement time in decibels respectively

Action and Limit Noise Levels

According to Section 2.7 of the *EM & A Manual*, the Action and Limit Noise Levels are summarised in the following table:

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

Event and Action Plan for Construction Noise

Should any non-compliance of the action and limit noise level criteria stipulated in Section 2.7 of the *EM & A Manual* occurs, the ET Leader, the IC(E), the ER (Engineer's Representative) and the Contractor shall undertake relevant actions in accordance with the Event and Action Plan for noise tabulated below:

EVENT	ACTION			
LVLIVI	ET Leader	IC(E)		
Action Level	 Notify IC(E) and Contractor Carry out investigation Report the results of investigation to the IC(E) and Contractor Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to check mitigation effectiveness 	 Review the analysed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER accordingly Supervise the implementation of remedial measures 		

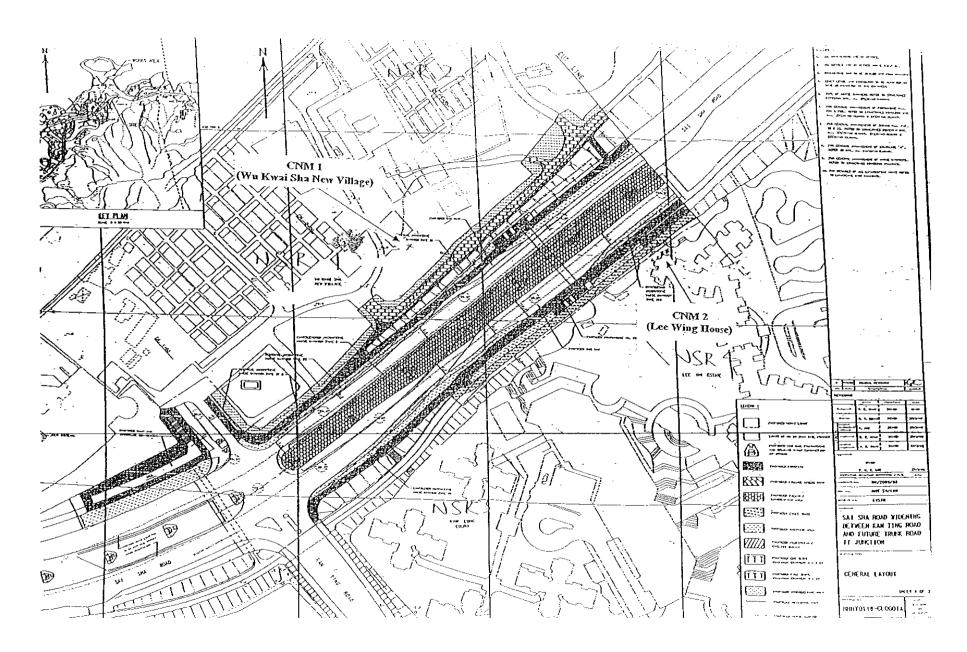
EVENT	ACTION				
LVLIVI	ET Leader	IC(E)			
Limit Level	 Notify IC(E), ER, EPD and Contractor; Identify source Repeat measurement to confirm findings Increase monitoring frequency Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented Inform IC(E), ER and EPD the causes & actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results If exceedance stops, cease additional monitoring 	 Discuss amongst ER, ET and Contractor on the potential remedial actions Review Contractor' remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly Supervise the implementation of remedial measures. 			

EVENT	ACTION			
LVLIVI	ER	Contractor		
Action Level	 Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented 	Submit noise mitigation proposals to IC(E) Implement noise mitigation proposals		
Limit Level	 Confirm receipt of notification of failure in writing Notify Contractor Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented If exceedance continues, consider what portion of work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated 		



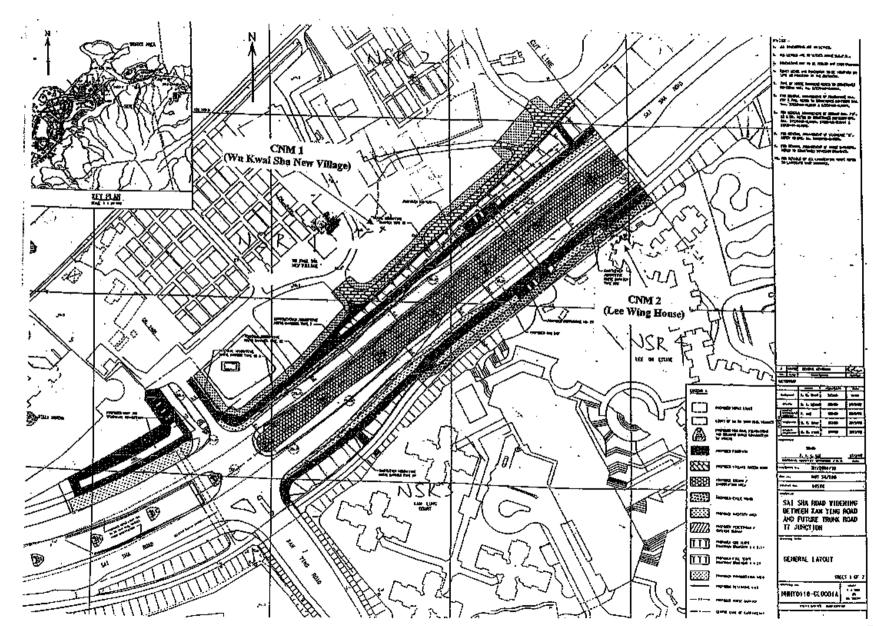
APPENDIX D

THE PROJECT AREA, ENVIRONMENTAL SENSITIVE RECEIVERS
AND THE LOCATIONS OF THE MONITORING STATIONS



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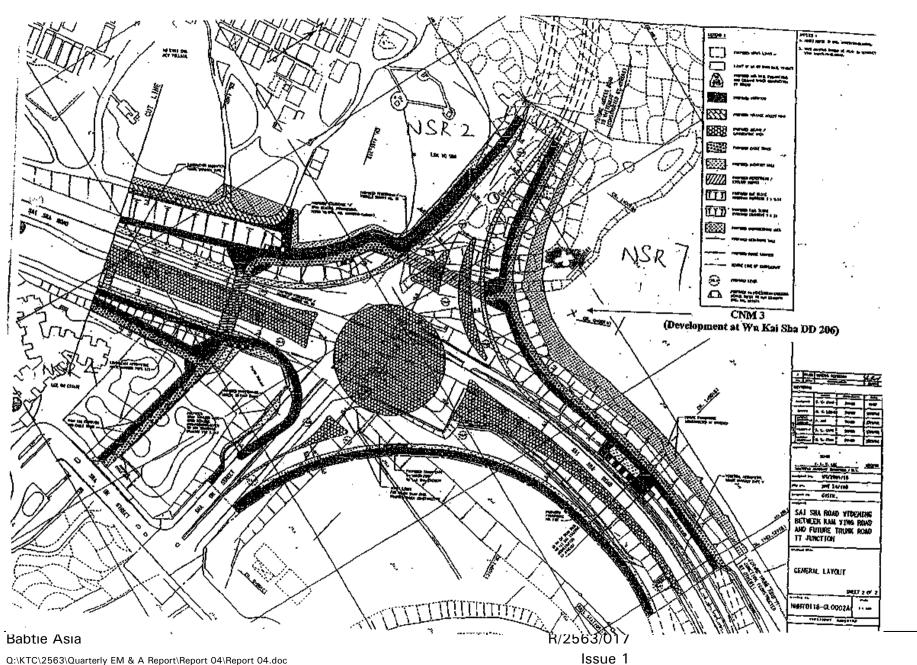


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Issue 1





Monitoring Point CNM 1 - Wu Kwai Sha New Village



Monitoring Point CNM 3 - Residential Development at Wu Kai Shs DD 206



Monitoring Point CNM 2 - Lee Wing House of Lee On Estate



APPENDIX E

WEATHER CONDITIONS DURING THE MONITORING PERIOD

Contract No. HY/2001/18
Sai Sha Road Widening between Kam Ying Road and Future Trunk Road T7 Junction

Major Activity and Weather Condition During Baseline Monitoring

Monitoring Location: Wu Kwai Sha New Village (CNM 1)

Date	Start Time	Weather Condition	Major Activities	Other Activities
05/06/03	10:07	Sunny	Nil	Traffic , Pedestrian
12/06/03	10:06	Cloudy	Nil	Traffic
19/06/03	10:01	Sunny	Backhoe	Traffic
26/06/03	10:06	Cloudy	Backhoe , Breaker	Traffic , Pedestrian
03/07/03	10:00	Sunny	Backhoe	Traffic
10/07/03	10:05	Sunny	Backhoe	Traffic
17/07/03	10:01	Sunny	Backhoe	Traffic
25/07/03	10:07	Drizzle	Backhoe	Traffic
01/08/03	10:02	Drizzle	Backhoe	Traffic
07/08/03	10:30	Cloudy	Concreting , Truck	Traffic
15/08/03	09:55	Sunny	Piling Works	Traffic , Pedestrian
21/08/03	09:55	Cloudy	Truck , Pneumatic Breaker	Traffic
29/08/03	10:05	Sunny	Nil	Traffic , Dog barking
04/09/03	09:40	Cloudy	Backhoe	Traffic
11/09/03	10:00	Sunny	Backhoe	Dog Barking , Traffic , Residents , Pedestrian
18/09/03	09:55	Sunny	Pneumatic Breaker , Backhoe	Traffic , Finishing , Dog Barking , Pedestrian
25/09/03	09:50	Sunny	Concreting	Pedestrian , Traffic

Contract No. HY/2001/18
Sai Sha Road Widening between Kam Ying Road
and Future Trunk Road T7 Junction
Major Activity and Weather Condition During Baseline Monitoring

Monitoring Location: Kam Lung Court (CNM 2)

Date	Start Time	Weather Condition	Major Activities	Other Activities
05/06/03	10:42	Sunny	Backhoe	Traffic , Pedestrian
12/06/03	10:44	Cloudy	Machinary	Traffic , Pedestrian
19/06/03	10:37	Sunny	Backhoe	Traffic
26/06/03	10:43	Cloudy	Breaker	Traffic , Pedestrian
03/07/03	10:34	Sunny	Backhoe	Traffic , Pedestrian
10/07/03	10:41	Sunny	Backhoe	Traffic
17/07/03	10:37	Sunny	Backhoe	Traffic , Pedestrian
25/07/03	10:44	Drizzle	Backhoe	Traffic , Pedestrian
01/08/03	10:37	Drizzle	Backhoe	Traffic , Pedestrian
07/08/03	11:10	Cloudy	Truck , Concreting	Traffic , Pedestrian
15/08/03	10:30	Sunny	Backhoe , Pneumatic Breaker	Traffic , Pedestrian
21/08/03	10:30	Cloudy	Backhoe , Pneumatic Breaker	Traffic , Pedestrian
29/08/03	10:45	Sunny	Nil	Traffic , Pedestrian , Truck
04/09/03	10:15	Cloudy	Concreting , Backhoe	Traffic , Pedestrian
11/09/03	10:48	Sunny	Backhoe	Traffic , Pedestrian
18/09/03	10:35	Sunny	Truck , Backhoe	Traffic , Pedestrian
25/09/03	10:25	Sunny	Backhoe	Traffic , Pedestrian

Contract No. HY/2001/18
Sai Sha Road Widening between Kam Ying Road and Future Trunk Road T7 Junction

Major Activity and Weather Condition During Baseline Monitoring

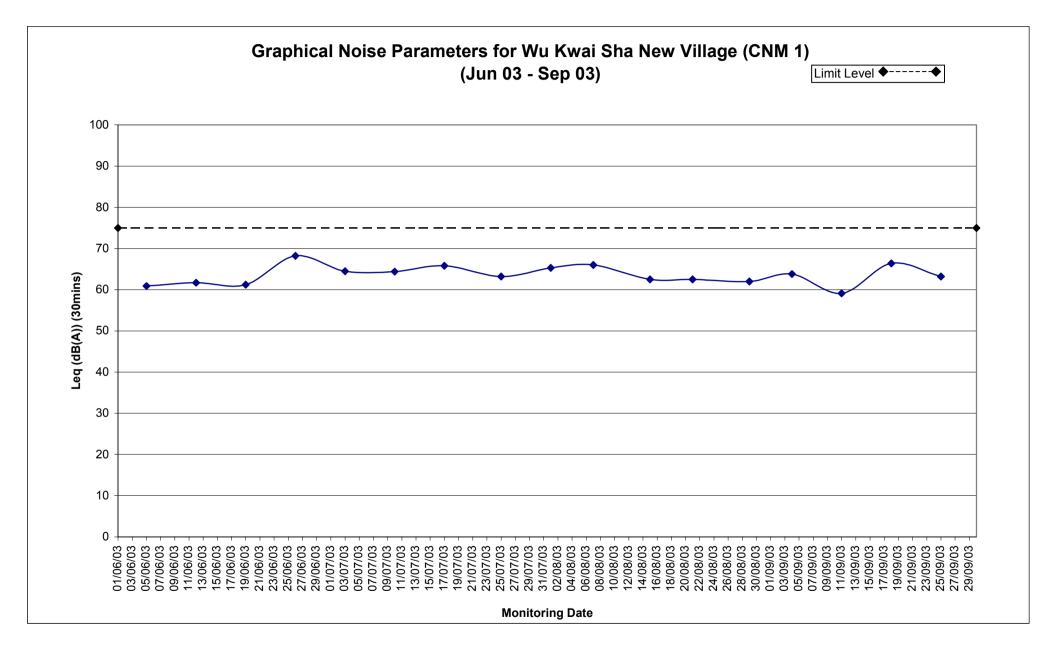
Monitoring Location: Residential Development at Wu Kai Sha DD206 (CNM 3)

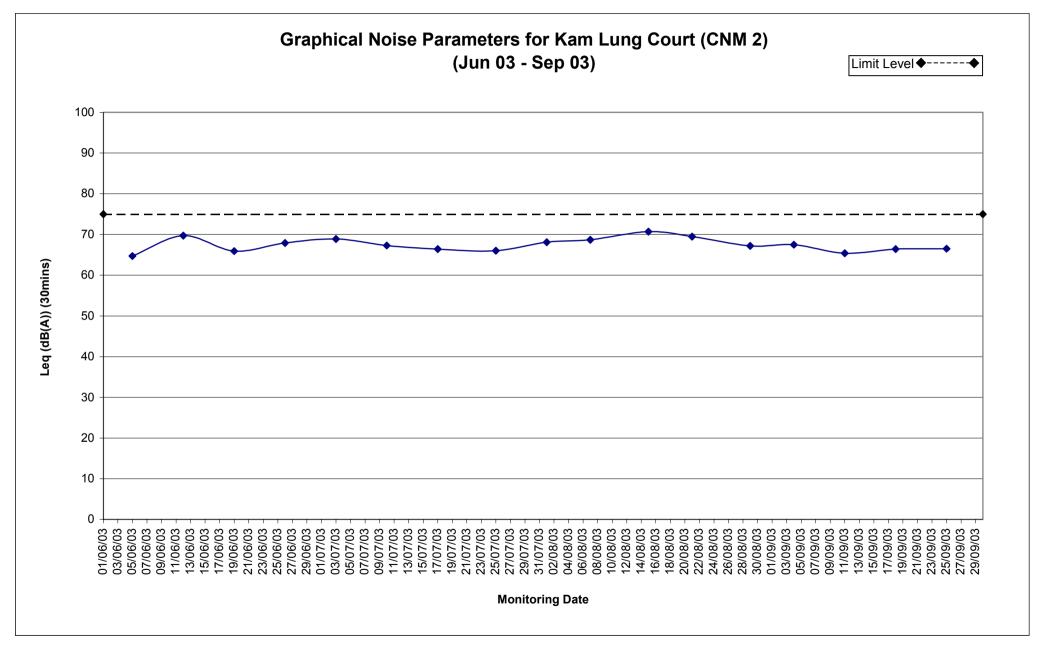
Date	Start Time	Weather Condition	Major Activities	Other Activities
05/06/03	11:19	Sunny	Backhoe	Pedestrian , Traffic
12/06/03	11:21	Cloudy	Backhoe	Pedestrian , Traffic
19/06/03	11:13	Sunny	Backhoe	Traffic
26/06/03	11:19	Cloudy	Backhoe	Traffic , MOS Railway Construction
03/07/03	11:10	Sunny	Backhoe	Traffic
10/07/03	11:17	Sunny	Backhoe	Traffic
17/07/03	11:13	Sunny	Backhoe	Traffic , Pedestrian
25/07/03	11:19	Drizzle	Nil	Traffic

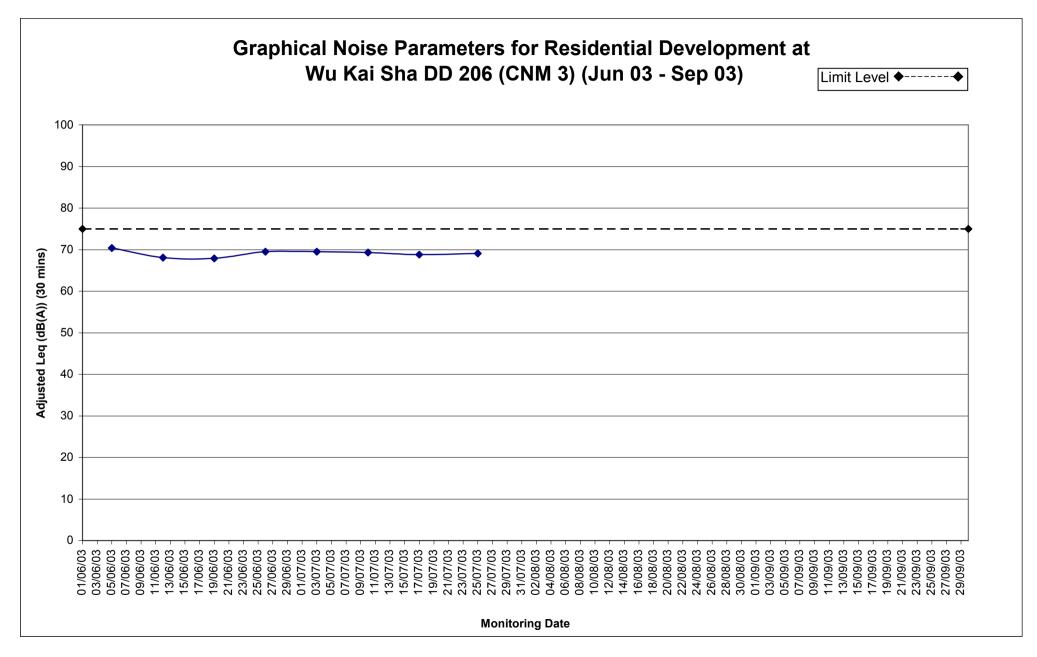


APPENDIX F

GRAPHICAL PLOTS OF TRENDS OF MONITORED PARAMETERS







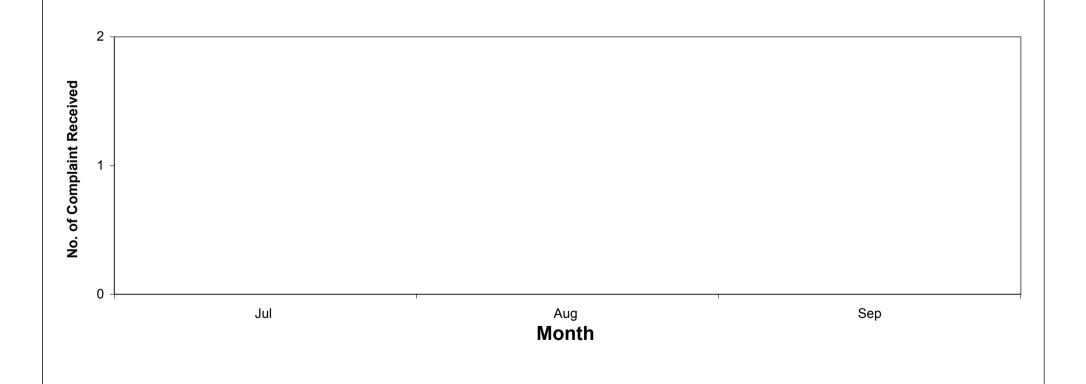




STATISTICS FOR ENVIRONMENTAL COMPLAINTS

Contract No. HY/2001/18 Sai Sha Road Widening between Kam Ying Road and Future Trunk Road T7 Junction

Statistic for Environmental Complaint During the Quarter Jul - Sep 2003





APPENDIX H CONTACT DETAILS & HOTLINE

Contact Details of Key Personnel

Title	Name	Contact Number
Engineer's Representative (Highways Department)	Mr. Greg Leung	2716 1043
EPD	Mr. Simon Hui	2835 1105
Project Director (Contractor)	Mr. David Kong	2137 5522
Project Manager (Contractor)	Mr. Alan Tam	9161 2991
Site Agent (Contractor)	Mr. K I Mok	9813 9599
Environmental Team Leader (Babtie Asia Limited)	Mr. Mark Cheung	2738 3803
Independent Environmental Checker (BMT Asia Pacific Ltd)	Ms. Lyn Ip	2241 9812

R/2563/017 Babtie Asia Issue 1