

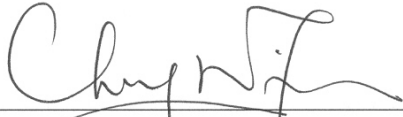
**Highways Department**

**Route 8 (previously known as Route 9) between  
Cheung Sha Wan & Sha Tin**

**Contract No. HY/2003/10 - Environmental Team for  
Lai Chi Kok Viaduct and Eagle's Nest Tunnel**

**Quarterly EM&A Report  
Part II – Eagle's Nest Tunnel and Associated Works  
(Version 1.0)**

March to May 2005

Approved By   
(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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## EXECUTIVE SUMMARY

- This is the sixth Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel". This summary report documents the findings of EM&A works performed in the period between March and May 2005 for Contract No. HY/2003/02, Route 8 – Eagle's Nest Tunnel and Associated Works (the Project).
- The major site activities undertaken in the reporting month included slope cutting, bored piling, tunnel blasting and excavation works.

### Environmental Monitoring Works

- Environmental monitoring for the Project was performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. Environmental site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- Summary of the events and action taken in the reporting quarter is tabulated in **Table I**.

**Table I Summary Table for Events Recorded in the Reporting Quarter**

<i>Parameter</i>	<i>No. of Events</i>		<i>No. of Events Due to the Project</i>	<i>Action Taken</i>
	<i>Action Level</i>	<i>Limit Level</i>		
<i>March 2005</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	2	0	0	Complaint investigation
<i>April 2005</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	2	0	0	Complaint investigation
<i>May 2005</i>				
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A
Noise	1	0	0	Complaint investigation

### *1-hr TSP Monitoring*

- All 1-hr TSP monitoring was conducted as scheduled in this reporting period, except that the monitoring at AM3 was suspended from 28 April to 29 May 2005 due to power disconnection to the monitoring equipment. No Action/Limit Level exceedance was recorded in this reporting quarter.

### *24-hr TSP Monitoring*

- All 24-hr TSP monitoring was conducted as scheduled in this reporting period, except that the monitoring at AM3 was suspended from 30 April to 29 May 2005 due to power disconnection to the monitoring equipment. No Action/Limit Level exceedance was recorded in this reporting quarter.

### *Construction Noise*

- All construction noise monitoring was conducted as scheduled in this reporting quarter. No Limit Level exceedance was recorded in this reporting period. Five Action Level exceedances were recorded due to public noise complaints received on 8, 30 March, 15, 19 April and 12 May 2005.

### **Environmental Licensing and Permitting**

- Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Construction Noise Permits (CNPs) and Water Discharge Licenses (WDLs). The Contractor had also registered as a Chemical Waste Producer.

### **Key Information in the Reporting Quarter**

- Summary of key information in this reporting quarter is tabulated in **Table II**.

**Table II Summary Table for Key Information in the Reporting Quarter**

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	5	Noise	Complaint investigation	Closed	---
Changes to the assumptions and key construction / operation activities recorded	0	---	N/A	N/A	---
Status of submissions under EP	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---
<b><u>Future Key Issues:</u></b>					
Major site activities for the coming month include:					
<ul style="list-style-type: none"> <li>• Slope cutting;</li> <li>• Haul road construction;</li> <li>• Soil nail installations;</li> <li>• Stepped channel and retaining wall construction;</li> <li>• Blasting works at Portals; and</li> <li>• Surface blasting.</li> </ul>					
The anticipated environmental impacts will be mainly on water quality from surface runoff in rainy days and noise impact from slope works.					

## 1. INTRODUCTION

- 1.1 Route 9 (Kowloon Section) (R9K) (hereinafter call the R9K-Project) forms part of the Route 9 between Cheung Sha Wan and Sha Tin (R9-CSWST) project, which will be a new expressway connecting West Kowloon and Sha Tin. It will be the fourth external link between Sha Tin and Kowloon and will form an important link between the northeast New Territories and the west Kowloon, Lantau Island and the western New Territories. R9K is being managed and implemented by the Highways Department (HyD).
- 1.2 The engineering design of R9K is covered under Agreement No. CE 50/98 "Route 9 between Cheung Sha Wan and Sha Tin – Design Construction Assignment". The main consultant engaged under Agreement No. CE 50/98 is Maunsell Hyder Joint Venture (MHJV), who will act as the Engineer for the construction contracts. The works of R9K mainly comprise a 1.4km dual 3-lane Lai Chi Kok Viaduct from Lai Wan Interchange to Butterfly Valley; 0.5 km of dual 3-lane at-grade carriageway linking to the 2.1 km dual 3-lane twin-bore Eagle's Nest Tunnel with associated portal buildings; a toll plaza with an administration building located with the Sha Tin valley woodland; a ventilation building and an adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).
- 1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449) (EIAO). An environmental impact assessment (EIA) report has been prepared in 1998 for the R9-CSWST project (1998 R9 EIA) to consider the key issues of noise, air quality, water quality, ecological, construction waste, landscape and visual, land use and cultural impacts, and identify possible mitigation measures.
- 1.4 An Updated Final EIA report was subsequently completed in August 1999 for the R9-CSWST project (1999 R9 EIA), to cater for some changes in R9K portion as mentioned in paragraph 1 in the report. The 1999 R9 EIA was endorsed by Environmental Protection Department (EPD) in November 1999. The 1998 R9 EIA and the 1999 R9 EIA (R9 EIA Reports) were included in the EIA register under the EIAO as report no. EIA-135/BC and AEIAR-022/1999 respectively. An Environmental Monitoring and Audit (EM&A) Manuals for each of the R9 EIA Reports (EM&A Manuals) were also included as part of the EIA reports in the register.
- 1.5 Subsequent to the endorsement of the R9 EIA Reports by EPD in November 1999, the project programme was deferred to start in 2002/2003 for completion by 2006/07. The implementation of the project was then separated into the R9S and R9K portion. An Environmental Permit (EP) No. EP-103/2001 was issued on 17 September 2001 for R9K to the HyD as Permit Holder. A revised EP No. EP-103/2001/A was issued on 20 May 2003 for R9K (R9K EP) to HyD as Permit Holder. A varied EP-103/2001/B was recently issued on 22 March 2005.

- 1.6 The major construction activities of two civil contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 – Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 – Eagle's Nest Tunnel and Associated Works", were commenced in 15<sup>th</sup> December 2003 for completion in April 2007.
- 1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin - Environmental Team (ET) for Lai Chi Kok Viaduct and Eagle's Nest Tunnel (Contract No. HY/2003/10)". Dr. Priscilla CHOY of Cinotech was appointed as the ET Leader under Condition 2.2 of the EP. Mr. David YEUNG of CH2M-IDC Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the sixth quarterly EM&A report summarizing the EM&A works for the ENT Project between March and May 2005.



## 2 PROJECT CHARACTERISTICS

### **Project Organization and Contacts of Key Management**

- 2.1 An organization structure and the line of communication were set up for the Project between the Project Proponent, Engineer's Representative (ER), Independent Environmental Checker (IEC), the Contractor and Environmental Team (ET). The organization chart and contact details are shown in **Appendix A** and **Figure 2**.

### **Construction Programme and Synopsis of Work**

- 2.2 The construction programme is presented in **Appendix B**. The site activities during the reporting period include:
- Tunnel blasting at North Portal, South Portal and Ventilation Adit;
  - Bored piling at Butterfly Valley and pile cap construction at Toll Plaza;
  - Soil nail installation at Butterfly Valley;
  - Cut slope, stepped channel, haul road and retaining wall construction at Butterfly Valley;
  - Chlorine barrier wall construction at Portion X;
  - Surface blasting at Butterfly Valley;
  - Excavation and mucking out in tunnels;
  - Excavation and lower down formation at Ventilation Adit; and
  - Footbridge and subway construction and drainage work at Toll Plaza.

### **3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS**

#### **Monitoring Parameters and Monitoring Locations**

- 3.1 The EM&A Manual designated locations for the ET to monitor environmental impacts in terms of noise and air quality due to the Project. The monitoring locations are depicted in **Figures 1a** and **1b**. **Appendix C** gives details of monitoring requirements.

#### **Monitoring Methodology and Calibration Details**

- 3.2 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

#### **Environmental Quality Performance Limits (Action and Limit Levels)**

- 3.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective Event Action Plans would be implemented. The Action/Limit Levels for each environmental parameter are provided in **Appendix D**.

#### **Environmental Mitigation Measures**

- 3.4 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manuals for the Contractor to implement. A list of mitigation measures is given in **Appendix G**.

## 4 MONITORING RESULTS

### Weather Conditions

- 4.1 The weather during monitoring sessions was mainly sunny or cloudy. The weather conditions for each individual monitoring session were presented in the field record sheets.

### Air Quality

#### *1-hr TSP Monitoring*

- 4.2 All 1-hr TSP monitoring was conducted as scheduled in this reporting period, except that the monitoring at AM3 was suspended from 28 April to 29 May 2005 due to power disconnection to the monitoring equipment. The problem was fixed and the monitoring was resumed on 30 May 2005.

- 4.3 No Action/Limit Level exceedance was recorded in this reporting quarter.

#### *24-hr TSP Monitoring*

- 4.4 All 24-hr TSP monitoring was conducted as scheduled in this reporting quarter, except that the monitoring at AM3 was suspended from 30 April to 29 May 2005 due to power disconnection to the monitoring equipment. The problem was fixed and the monitoring was resumed on 30 May 2005.

- 4.5 No Action / Limit Level exceedance was recorded in the reporting quarter.

- 4.6 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for March to May 2005. The graphical presentations of the monitoring results are shown in **Appendix E**.

### Construction Noise

- 4.7 Noise monitoring was performed at the four designated locations during the daytime period (0700-1900 hours) on normal as scheduled in this reporting month. Restricted-hour monitoring was also conducted at NM5, NM6 and NM7.

- 4.8 No Limit Level exceedance was recorded in this reporting period.

- 4.9 Five Action Level exceedances were recorded due to public noise complaints received on 8, 30 March, 15, 19 April and 12 May 2005.

- 4.10 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq – Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance.

- 4.11 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for March to May 2005. The graphical presentations of the monitoring results are shown in **Appendix F**.
- 4.12 Construction noise exceedances recorded in the reporting quarter and the associated actions taken are summarized in **Appendix J**.

## 5 ENVIRONMENTAL AUDIT

### Implementation Status of Environmental Mitigation Measures

- 5.1 According to the Environmental Permit and the EM&A Manuals, the mitigation measures detailed in the documents are required to be implemented. An updated summary of the Environmental Mitigation Implementation Status (EMIS) is provided in **Appendix G**.

### Site Audit Summary

- 5.2 ET's weekly site audits were conducted on 3, 9, 18, 23 and 30 March, 7, 13, 21 and 28 April, 5, 11, 18 and 25 May 2005. IEC's monthly site audits were conducted on 3 March, 7 April and 5 May 2005 together with ET.
- 5.3 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations are summarized in **Table 5.1**.

**Table 5.1 Observations and Recommendations of the Site Audits**

Parameters	Date	Observations / Recommendations	Remedial Actions
<i>Water Quality</i>	13-Apr-05	Small amount of silty water overflowed into public drains at Ventilation Adit. The Contractor was recommended to review the pumping capacity of the de-silting facility in order to ensure all discharge water was pumped into the AquaSed for treatment before discharge.	Rectification was observed during the site audit on 21-Apr-05.
	11-May-05	Accumulation of silt and sand was observed in the open channel near the discharge point at Portion A. The Contractor was reminded to clear the silt and sand after each rainstorm.	Rectification was observed during the site audit on 18-May-05.
<i>Air Quality</i>	03-Mar-05	Fugitive dust emission was observed during the breaking work at Portion D1 (North Portal). The Contractor was reminded to provide water spray during the breaking work for dust suppression.	Rectification was observed during the site audit on 09-Mar-05.
	09-Mar-05	Fugitive dust emission was observed when the soil nail work was being conducted at BVS4. The Contractor was reminded to provide sufficient dust control measures during such work.	Rectification was observed during the site audit on 18-Mar-05.
	18-Mar-05	Fugitive dust emission was observed during the operation of drill rig at South Portal. The Contractor was reminded to provide sufficient dust control measures during such work.	Rectification was observed during the site audit on 23-Mar-05.

Parameters	Date	Observations / Recommendations	Remedial Actions
	23-Mar-05	Fugitive dust emission was observed during drilling works (soil-nail installation) at BVS4. The Contractor was reminded to provide sufficient dust suppression measures for the drilling works.	Rectification was observed during the site audit on 30-Mar-05.
	23-Mar-05	Two dump trucks (no. HL914 and KJ2297) with uncovered dusty materials were observed leaving the site via TAR1. The Contractor was reminded to ensure the materials on trucks should be covered properly before leaving the site.	Rectification was observed during the site audit on 07-Apr-05.
	23-Mar-05	Dark smoke emission from an air compressor was observed at Portion A. The Contractor was reminded to use well-maintained plants on site.	Rectification was observed during the site audit on 30-Mar-05.
	30-Mar-05	Five dump trucks were covered inadequately before exiting the site via TAR1.	Rectification was observed during the site audit on 07-Apr-05.
	07-Apr-05	Fugitive dust emission was observed during the breaking work at BVS2. The Contractor was reminded to apply water spray or other measures during the work for dust suppression.	Rectification was observed during the site audit on 13-Apr-05.
	13-Apr-05	One dump truck with uncovered material was observed leaving the site at Ventilation Adit. In addition, one dump truck was covered inadequately before leaving the site via TAR1.	Similar deficiency was still observed during the subsequent audit session. Situation would be followed up in May 2005.
	21-Apr-05	Excessive dark smoke emission from an air compressor was observed at BVS2. The Contractor was reminded to use well-maintained plant on site.	Rectification was observed during the site audit on 28-Apr-05.
	21-Apr-05	Two dump trucks were observed leaving the site via TAR1 without proper covers (truck no. HU8647 was found uncovered and truck no. CL7782 was covered adequately). The Contractor was reminded to review the checking system.	Similar deficiency was still observed during the subsequent audit session. Situation would be followed up in May 2005.
	05-May-05	The stock of cement (more than 20 bags) at BVS2 was not covered. The Contractor was reminded to cover the cement by impervious sheeting.	Rectification was observed during the site audit on 11-May-05.
	05-May-05	Three nos. of dump trucks exiting via TAR1 were not covered properly. One dump truck (no. LW9941) was found uncovered when exiting the site of Ventilation Adit. The Contractor was reminded to ensure the dusty materials loaded on each truck are covered properly before the trucks leave the site.	Similar deficiency was still observed during the subsequent audit session. Situation would be followed up in June 2005.
	11-May-05	Dark smoke emission from an air-compressor was observed at BVS2. The Contractor was reminded to use well-maintained plants on site.	Rectification was observed during the site audit on 18-May-05.

<b>Parameters</b>	<b>Date</b>	<b>Observations / Recommendations</b>	<b>Remedial Actions</b>
<b><i>Waste / Chemical Management</i></b>	09-Mar-05	Oil drum without being provided with drip tray was observed at Portion D3. The Contractor was reminded that all fuel/oil storages should be within a bunded area.	Rectification was observed during the site audit on 18-Mar-05.
	09-Mar-05	Chemical/ oil waste drums without attaching chemical labels were found in chemical storage area at Portion D3. The Contractor was reminded to attach such label on each oil drum properly.	Rectification was observed during the site audit on 18-Mar-05.
	18-Mar-05	Oil drum without being provided with drip tray was observed at BVS4. The Contractor was reminded that all fuel/oil storages should be within a bunded area.	Rectification was observed during the site audit on 23-Mar-05.
	30-Mar-05	A drum of chemical fuel was observed placed on bare ground without provision of drip tray at Portion H4. The Contractor was reminded to provide the drip tray for the drum.	Rectification was observed during the site audit on 07-Apr-05.
	28-Apr-05	Some oil drums were placed on bared ground and not within bunded area at Portion D3 (North Portal). The Contractor was reminded to provide drip trays for the drums or place the drums in the designated chemical storage area.	Rectification was observed during the site audit on 05-May-05.
	28-Apr-05	Oil stain on ground was observed near a drip tray at Portion D3 (North Portal). The Contractor was reminded to ensure the drip trays were stoppered properly to prevent oil leakage.	Rectification was observed during the site audit on 05-May-05.
	18-May-05	General refuses were observed at BVS2. The contractor was reminded to provide the good house keeping in the site.	Rectification was observed during the site audit on 25-May-05.
<b><i>Noise</i></b>	03-Mar-05	No noise emission label was affixed on an air compressor at BVS2. The Contractor was reminded to provide the label as soon as possible.	Rectification was observed during the site audit on 09-Mar-05.
<b><i>Others</i></b>	05-May-05	Stagnant was observed near the wheel washing bay at Ventilation Adit. The Contractor was reminded to remove the water to prevent mosquito breeding.	Rectification was observed during the site audit on 11-May-05.
	18-May-05	Stand water was observed near the washroom at South Portal. The contractor was reminded to prevent the water accumulated in site.	Rectification was observed during the site audit on 25-May-05.
	25-May-05	Stand water was observed on the ground at North Portal. The contractor was reminded to fill the sands to avoid the water accumulated.	Rectification was observed during the site audit on 01-Jun-05.

### Status of Environmental Licensing and Permitting

- 5.4 Environmental licenses and permits including the Environmental Permit for the Project were in place and valid during the reporting quarter. The status of all licenses and permits obtained for the Project is summarized in **Appendix H**.



## **6 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)**

### **Summary of Exceedances**

#### 1-hr TSP monitoring

- 6.1 No Action / Limit level exceedance was recorded in the reporting quarter.

#### 24-hr TSP Monitoring

- 6.2 No Action / Limit level exceedance was recorded in the reporting quarter.

#### Construction Noise Monitoring

- 6.3 No Limit Level exceedance was recorded in this reporting period. Five Action Level exceedances were recorded due to public noise complaints received on 8, 30 March, 15, 19 April and 12 May 2005.

### **Review of the Reasons for and the Implications of Non-compliance**

- 6.4 There was no non-compliance from the site audits in the reporting quarter. As mentioned previously in the Section 5.2 of this report, the observations and recommendations made in each individual site audit session were presented.

## 7 ENVIRONMENTAL COMPLAINTS

7.1 Five environmental related complaints were received in this reporting quarter, as summarized in Table 7.1.

**Table 7.1 Summary of Complaints Received in the Reporting Period**

Received Date	Area of Concern	Investigation	Conclusion	Status
05-Mar-05	Various impacts at Garden Villa: 1. nighttime and Sunday construction noise 2. noise from tunnel blasting 3. uncovered dump trucks leaving site	<ul style="list-style-type: none"> <li>no exceedance for noise monitoring</li> <li>valid blasting permit had been obtained from CEDD</li> <li>dump trucks with uncovered / inadequately covered materials were observed leaving site</li> </ul>	The concern of uncovered dump trucks was considered valid and related to the Project works, while the complaint against the noise issue was considered not justifiable	Closed
30-Mar-05	Noise due to early use of TAR1	Based on the results of routine noise monitoring and the ad-hoc measurement on 1 <sup>st</sup> April 2005 at Garden Villa, no exceedance of daytime noise criterion of 75 dB(A) was recorded.	Not Justifiable	Closed
15-Apr-05	Daytime construction noise from Butterfly Valley	Ad-hoc measurement was conducted in the complainant's premises on 22 Apr 05. No exceedance of 75 dB(A) was recorded.	Not Justifiable	Closed
19-Apr-05	Night-time construction noise from South Portal	<p>The results of restricted-hour monitoring were found close to the baseline noise level, which was comparable to the ambient noise level.</p> <p>According to the RSS's record, the PME items operated during the concerned period were found covered by the 2 CNPs hold by the Contractor.</p>	Based on the available information, there is not enough evidence to prove whether the complaint is justifiable or not	Closed
12-May-05	Blasting at South Portal during the examination of YCIS	Ad-hoc noise measurement was conducted on 26-May-05. Measured noise levels, taken at when blasting was conducted, did not exceed 65dB(A), which is the noise criterion for examination period.	Not justifiable	Closed

7.2 The details of the complaints, the investigation results and the mitigation actions are summarized in **Appendix I**. There were 12 complaints received since the Project commencement.

## **8 NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS**

- 8.1 No notification of summon or successful prosecution was recorded in this reporting quarter.
- 8.2 There was no notification of summon or successful prosecution received since the Project commencement.

## **9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS**

- 9.1 Major site activities for the coming month include:
- Slope cutting;
  - Haul road construction;
  - Soil nail installations;
  - Stepped channel and retaining wall construction;
  - Blasting works at Portals; and
  - Surface blasting.
- 9.2 The anticipated environmental impacts will be mainly on water quality from surface runoff in rainy days and noise impact from slope works.