

CONTRACT NO: HK/2009/05

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 1)

ENVIRONMENTAL PERMIT NO. EP-364/2009/A, FURTHER EVIRONMENTAL PERMIT NOS. FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009 AND FEP-04/364/2009/A

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- OCTOBER 2010 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

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Raymond Dai Environmental Team Leader

DATE:

10 November 2010

ENVIRON

Ref.: AACWBIECEM00_0_0623L.10

12 November 2010

AECOM Asia Company Limited 8/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road, Shatin, New Territories, Hong Kong By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (October 2010) for EP-364/2009/A, FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009 and FEP-04/364/2009/A

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for October 2010 dated 12 November 2010.

Please be informed that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung Independent Environmental Checker

c.c. HyD CEDD AECOM Lam Mr. Jones Lai Mr. Patrick Keung Mr. Francis Leong / Mr. Stephen Lai Mr. Raymond Dai by fax: 2714 5289 by fax: 2577 5040 by fax: 2691 2649 by fax: 2882 3331

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EXECUTIVE SUMMARY

- This is the Environmental Monitoring and Audit (EM&A) Monthly Report October 2010 specific for Environmental Permit no. EP-364/2009/A, Further Environmental Permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-03-364/2009 and FEP-04/364/2009/A. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2009/05 –Wanchai Development Phase II and Central Wanchai Bypass. This report presents the environmental monitoring findings and information recorded during the period 28th September 2010 to 27th October 2010. The cut-off date of reporting is at 27th of each reporting month.
- ii. In the reporting month, the principal work activities of individual contracts are included as follows:

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -Advanced piling works under FEP-03/364/2009

• Piling Works.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under EP-364/2009/A

- Refurbishment of existing site office next to Star Ferry Central Pier;
- Initial record survey; and

Condition survey

<u>Contract no. 04/HY/2006</u> – <u>Reconstruction of Bus Terminus near Man Yiu Street and Man</u> <u>Kwong Street under FEP-04/364/2009/A</u>

- Modification of bus bays at the bus terminus; and
- Relocation of existing lay-bay at Man Kwong Street

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009 under FEP-02/364/2009

• No major construction activity was undertaken in reporting month.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> Wan Chai East (CWB Tunnel) under FEP-01/364/2009

• No major construction activity was undertaken in reporting month.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under EP-364/2009/A</u>

• No major construction activity was undertaken in reporting month.

Noise Monitoring



- iii. Noise monitoring during daytime was conducted at the International Finance Centre (eastern and western podium) on a weekly basis. No action and limit exceedances were recorded in the reporting period.
- iv. 24-hour real time noise monitoring was commenced on 5 October 2010 at FEHD Hong Kong Transport Section Whitefield Depot for the pilling works in FEHD Whitfield Depot. No action and limit level exceedances were recorded in the reporting month. In contrast, exceedances were recorded through out the reporting month during restricted hour. The details of exceedances can be referred to section 6.1.

Air Monitoring

v. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at International Finance Centre (eastern and western podium) on every six days basis. No action and limit level exceedance were recorded in the reporting period.

Complaints, Notifications of Summons and Successful Prosecutions

vi. No complaint, notification of summons and prosecution was recorded in the reporting month.

Site Inspections and Audit

vii. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HY/2009/17 and 04/HY/2006 in this reporting period. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No nonconformance was identified during the site inspections.

Future Key Issues

viii. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -Advanced piling works under FEP-03/364/2009

• Piling Works

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under EP-364/2009/A

- Site preparation of Community Liaison Centre (CLC) and Engineer's sub office;
- Installation of trial pits for utilities identification; and
- Tree survey

<u>Contract no. 04/HY/2006</u> – <u>Reconstruction of Bus Terminus near Man Yiu Street and Man</u> Kwong Street under FEP-04/364/2009/A

• Modification of bus bays at the bus terminus



<u>Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009</u>

• No major construction activities are anticipated in coming reporting month.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel) under FEP-01/364/2009</u>

• No major construction activities are anticipated in coming reporting month.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under EP-364/2009/A</u>

• No major construction activity was undertaken in reporting month.



1. INTRODUCTION

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-364/2009A and Further Environmental permit nos. FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009 and FEP-04/364/2009/A to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-364/2009/A, Further Environmental Permit (FEP) nos. FEP-01-364/2009, FEP-02/364/2009, FEP-03/364/2009 and FEP-04/364/2009/A during the period 28th September to 27th October 2010. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5 *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent



activities of the concurrent Projects.

- Section 8 Site Inspection summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



2. PROJECT BACKGROUND

2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. Design and Construction of Central Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:
 - A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately 3.7 km in length defined from the connection with the existing Rumsey Street Flyover in Central, through to a connection with the existing Island Eastern Corridor to the east of the Causeway Bay Typhoon Shelter(CBTS);
 - The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
 - Tunnel control buildings and ventilation buildings;
 - Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
 - Associated road lighting, road signing, traffic control and surveillance system; and
 - Other associated works.



2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

	-		
ltem	Designated Project	EIAO Reference	Reason for inclusion
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall
DP6	Dredging for the Cross- harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point

 Table 2.1
 Schedule 2 Designated Projects under this Project

2.3 Division of the Project Responsibility

- 2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.
- 2.3.2. In the reporting month, advance piling work at FEHD Whitfield Depot under Contract no. HY/2009/17 was commenced on 5 October 2010. The details of individual contracts are summarized in *Table2.2*.

	Details of multitudal contracts unde		
Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	Anticipated to be commenced in January 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010

Table 2.2 Details of Individual Contracts under the Project



Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works	DP1, DP2	Pending
HK/2009/02	Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East(CWB Tunnel) (CWB Tunnel)	DP1	Pending
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP1	Pending

2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2*. Key personnel and contact particulars are summarized in *Table 2.3*:

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer for WDII	Principle Resident Engineer	Mr. Frankie Fan	2607 7801	2687 2322
	Engineer for CWB	Principle Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
Lam Woo & CO., LTD.	Contractor under Contract	Project Manager	Mr. K. S. Law	9090 1378	2566 7522
	no. HY/2009/17	Construction Manager / Sub Agent	Mr. Joe Tsang	9725-5874	
		Site Agent	Mr. Daniel Chan	9372 0495	
		Environmental Officer	Mr. Andy Mak	6461 3065	
Chiu Hing Construction &	Contractor under Contract	Contract Manager	Mr. Frederick Tsui	2967 6363	2967 6366
Transportation Co. Ltd.	no. 04/HY/2006 -	Senior Site Agent	Mr. Alvin Ma	2967 6363	2967 6366
		Environmental Consultant	Mr. Jimmy Cheng	2965 0898	2556 9172
Chun Wo –	Contractor	Site Agent	Mr. Paul Yu	9456 9819	2634 1626

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
Leader Joint Venture	under Contract no. HK/2009/01	Operation Manager	Mr. Ho Wing Tai	9306 1356	
	11112000/01	Construction Manager	Mr. David Wong	9653 8635	
		Construction Manager	Mr. Wilson Lau	5183 1270	
		Construction Manager	Mr. Alex Tsang	9194 9383	
		Environmental Officer (Compliance Manager)	Mr.Ho Wing Tai	9306 1356	
		Environmental Engineer	Mr. Ken Yang	9262 6791	
Chun Wo – CRGL Joint	Contractor under Contract	Project Manager	Mr. Chan Sing Cho	3658 3002	2827 9996
Venture	no. HK/2009/02	Site Agent	Mr. Eric Lam	3658-3048	
	11112000/02	Deputy Site Agent	Mr. Anthony Wu	3658-3004	
		Environmental Officer (Compliance Manager)	Mr. Barry Leung	3658 3031	
		Environmental Engineer	Ms. Flora Ng	3658-3064	
Leighton Contractors	Contractor under Contract no. HY/2009/18	Project Manager	Mr. David Westwood	9026 2070	TBC
(Asia) Limited		Site Agent	Mr. Brian Gillon	9499 9129	
		Deputy Site Agent	Mr. Desmond Sze	6056 9782	
		Environmental Manager	Mr. K P Chow	TBC	
		Environmental Engineer	Mr. Kelven Yip	TBC	
China State Construction	Contractor under Contract	Project Manager	Mr. Leung Kwok Yiu	9026 8808	2566 2192
Engineering (HK) Ltd.	no. HY/2009/15	Deputy Project Manager	Mr. Simon Tang	9022 6060	
		Construction Manager	Mr. Cheung Yuk Lung	9267 4503	
		Site Agent (East)	Mr. Jason Chan	9254 1635	
		Site Agent (West)	Mr. Tang Ka Tung	9473 4771	
		Environmental Manager and Environmental Officer	Ms. Anna Yu	9473 1945	



Party	Role	Post	Name	Contact No.	Contact Fax
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. In the reporting month, the principal work activities of individual contracts are included as follows:

<u>Contract no. 04/HY/2006</u> – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Modification of bus bays at the bus terminus; and
- Relocation of existing lay-bay at Man Kwong Street

<u>Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> <u>Advanced piling works under FEP-03/364/2009</u>

Piling Works

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under EP-364/2009/A

- Refurbishment of existing site office next to Star Ferry Central Pier;
- Initial record survey; and
- Condition survey

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

• No major construction activity was undertaken in reporting month.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> Wan Chai East (CWB Tunnel) under FEP-01/364/2009

• No major construction activity was undertaken in reporting month.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under EP-364/2009/A</u>

- No major construction activity was undertaken in reporting month.
- 2.4.4. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

<u>Contract no. 04/HY/2006</u> – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A



• Modification of bus bays at the bus terminus

<u>Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> <u>Advanced piling works under FEP-03/364/2009</u>

• Piling Works.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under EP-364/2009/A

- Site preparation of Community Liaison Centre (CLC) and Engineer's sub office;
- Installation of trial pits for utilities identification; and
- Tree survey

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

• No major construction activity is anticipated in coming reporting month.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

• No major construction activity is anticipated in coming reporting month.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under EP-364/2009/A</u>

• No major construction activity was undertaken in reporting month.



3. STATUS OF REGULATORY COMPLIANCE

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Valid
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 July 2010	Valid
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Valid

Table 3.1	Summary of the current status on licences and/or permits on environmental
	protection pertinent to the Project

3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

<u>Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> <u>Advanced piling works under FEP-03/364/2009</u>

3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-03/364/2009 for contract no. HY/2009/17 are shown in *Table 3.2* and *Table 3.3*.

Table 3.2Cumulative Summary of Valid Licences and Permits under Contract no.HY/2009/17

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	N/A	Valid
Notification of Works Under APCO	319348	13 Jul 2010	N/A	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Discharge Licence	WT00007212- 2010	5 Aug 2010	5 Aug 2010 – 31 Aug 2015	Valid
Registration as a Waste Producer	5213-151-L2608- 05	13 May 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7010400	16 Mar 2010	N/A	Valid

Table 3.3 Summary of submission status under FEP-03/364/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	18 September 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	1 September 2010
Condition 2.9	Noise Management Plan	1 September 2010

<u>Contract no. 04/HY/2006</u> – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-04/364/2009/A for contract no. 04/HY/2006 are shown in *Table 3.4* and *Table 3.5*.

Table 3.4Cumulative Summary of Valid Licences and Permits under Contract no.04/HY/2006

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Environmental Permit	FEP- 04/364/2009/A	14 Oct 2010	N/A	Valid
Notification of Works Under APCO	322225	7 Oct 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7005123	9 Mar 2007	N/A	Valid

Table 3.5 Summary of submission status under FEP-04/364/2009/A Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 June 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	11 June 2010 and 5 August 2010



EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	19 October 2010

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-02/364/2009 for contract no. HK/2009/01 are shown in *Table 3.6* and *Table 3.7*

Table 3.6Cumulative Summary of Valid Licences and Permits under Contract no.HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Discharge Licence	WT00006220- 2010	18 Mar 2010	31 Mar 2015	Valid
Billing Account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134- C3585-01	21 Jan 2010	N/A	Valid

Table 3.7	Summary of submission status under FEP-02/364/2009 Condition
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EP Condition	Submission	Date of Submission
NIL	NIL	NIL

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/364/2009 for contract no. HK/2009/02 are shown in *Table 3.8* and *Table 3.9*.

Table 3.8Cumulative Summary of Valid Licences and Permits under Contract no.HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	WT00006249- 2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436- 2010	15 Apr 2010	30 Apr 2015	Valid
Discharge Licence	WT00006673- 2010	14 May 2010	31 Mar 2015	Valid
	WT00006757- 2010	28 May 2010	31 May 2015	Valid
	WT00007129- 2010	28 July 2010	31 Jul 2015	Valid
Billing Account under Waste Disposal Ordinance	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste	WPN5213-135- C3593-01	10 Mar 2010	N/A	Valid
Producer	WPN5213-839- C3593-02	22 Sep 2010	N/A	Valid

Table 3.9	Summary of submission status under FEP-01/364/2009 Condition
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EP Condition	Submission	Date of Submission
NIL	NIL	NIL

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under EP-364/2009/A

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under EP-364/2009A for contract no. HY/2009/18 are shown in Table 3.10 and Table 3.11.

Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no.HY/2009/18

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	N/A	N/A	N/A	Under application
Notification of Works Under APCO	N/A	N/A	N/A	Under application



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Discharge Licence	N/A	N/A	N/A	Application under preparation
Billing Account under Waste Disposal Ordinance	N/A	N/A	N/A	Under application

Table 3.11 Summary of submission status under EP-364/2009/A Condition

EP Condition	Submission	Date of Submission
NIL	NIL	NIL

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under EP-364/2009/A</u>

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under EP-364/2009/A for contract no. HY/2009/15 are shown in *Table 3.12* and *Table 3.13*

Table 3.12 Cumulative Summary of Valid Licences and Permits under Contract no.HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	N/A	N/A	N/A	Under Application
	N/A	N/A	N/A	Under Application
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid

EP Condition	Submission	Date of Submission
NIL	NIL	NIL

3.1.9. Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 3.1*.



4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure* <u>4.1.</u> Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Description
Harbour Road Sports Centre
Noon Gun Area
Tung Lo Wan Fire Station
Victoria Centre
City Garden
HK Baptist Church Henrietta Secondary School
International Finance Centre (Eastern End of Podium)
International Finance Centre (Western End of Podium)

Table 4.1 Noise Monitoring Station

REAL TIME NOISE MONITORING STATIONS

4.1.2. The noise monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure* <u>4.1.</u> Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Real Time Noise Monitoring Station

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitefield Depot
North Point	RTN2	Oil Street Community Liaison Centre

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L₁₀ and L₉₀ shall also be obtained for reference.
- 4.1.4. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial



guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:

- One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
 - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
 - One set of measurements between 2300 and 0700 hours on next day on everyday.
- 4.1.6. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

- 4.1.7. As referred to in the Technical Memorandum [™] issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.8. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 4.1.9. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in *Table 4.3* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay

Table 4.3 Air Monitoring Station



Station ID	Monitoring Location	Description
CMA3a	Future CWB site office at Wanchai Waterfront Promenade	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (western End of Podium)	Central

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m3 per minute adjustable flow range;
 - Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - Capable of providing a minimum exposed area of 406 cm2;
 - Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - Equipped with a shelter to protect the filter and sampler;
 - Incorporated with an electronic mass flow rate controller or other equivalent devices;
 - Equipped with a flow recorder for continuous monitoring;
 - Provided with a peaked roof inlet;
 - Incorporated with a manometer;
 - Able to hold and seal the filter paper to the sampler housing at horizontal position;
 - Easily changeable filter; and
 - Capable of operating continuously for a 24-hour period.



4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. Filter paper of size 8" x 10" shall be labeled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.
- 4.2.11. Current calibration certificates of equipments are presented in *Appendix 4.2*.



5. MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
 - Contract no. 04/HY/2006 Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street.
 - Contract no. HY/2009/17 Central Wan Chai Bypass (CWB) at FEHD Whitfield Depot -Advanced piling works under FEP-03/364/2009
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -Advanced piling works under FEP-03/364/2009

5.1.1. The proposed division of noise monitoring stations for Contract no. HY/2009/17 are summarized in *Table 5.1* below:

Table 5.1 Noise Monitoring Stations for Contract no. H	Y/2009/17
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Station	Description
M4b	Victoria Centre

5.1.2. No action and limit exceedance was recorded during day time and restricted hour period in the reporting month. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 5.2</u>.

<u>Contract no. 04/HY/2006</u> – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A and Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under EP-364/2009/A

5.1.3. The proposed division of noise monitoring stations for Contract no. 04/HY/2006 and Contract no. HY/2009/18 are summarized in *Table 5.2* below:

Table 5.2 Noise Monitoring Stations for Contract no. 04/HY/2006 and HY/2009/18

Station	Description
M7e	International Finance Centre (Eastern End of Podium)



Station	Description
M7w	International Finance Centre (Western End of Podium)

- 5.1.4. No exceedance was recorded in the reporting month. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 5.2</u>.
- 5.1.5. The commencement of construction works for Contract no. HY/2009/18 under EP-364/2009A is pending.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009 and Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

5.1.6. The commencement of construction works for Contract no. HK/2009/01 and HK/2009/02 under FEP-02/364/2009 and FEP-01/364/2009 respectively are pending. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under EP-364/2009/A</u>

5.1.7. The commencement of construction works for Contract no. HY/2009/15 under EP-364/2009/A is pending. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

 Table 5.4
 Noise Monitoring Station for Contract nos. HY/2009/15

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

5.2 Real Time Noise Monitoring Results

<u>Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> <u>Advanced piling works under FEP-03/364/2009</u>

5.2.1. The proposed division of moise monitoring stations are summarized in *Table 5.5* below. Real time noise monitoring for the piling works under contract no. HY/2009/17 was commenced on 5 October 2010



Table 5.5 Real Time Noise Monitoring Station for Contract no. HY/2009/17

District	Description
Tin Hau	FEHD Hong Kong Transport Section Whitefield Depot

5.2.2. No exceedance was recorded between 0700 and 1900 hours. In contrast, exceedances were recorded between 1900 and 2300 hours though out the reporting month and between 2300 and 0700 on the next day. Details of real time noise monitoring results and graphical presentation can be referred to *Appendix 5.4*.

5.3 Air Monitoring Results

<u>Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> Advanced piling works under FEP-03/364/2009

- 5.3.1. The proposed division of air monitoring stations are summarized in *Table 5.6* below. Air monitoring for the piling works under contract no. HY/2009/17 was commenced on 8 October 2010.
- 5.3.2. Due to lack of power supply of Causeway Bay Community Centre (CMA2a), only one 1-hr TSP was conducted on 21 October 2010.

Table 5.6 Air Monitoring Stations for Contract no. HY/2009/17

Station	Description
CMA2a	Causeway Bay Community Centre

<u>Contract no. 04/HY/2006</u> – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A and Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under EP-364/2009/A

5.3.3. The proposed division of air monitoring stations are summarized in *Table 5.7* below.

Table 5.7 Air Monitoring Stations for Contract no. 04/HY/2006 and HY/2009/18

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)

- 5.3.4. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.
- 5.3.5. The commencement of construction works for Contract no. HY/2009/18 under EP-364/2009A is pending.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at



Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

5.3.6. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HK/2009/01 under FEP-02/364/2009. The proposed division of air monitoring stations are summarized in *Table 5.8* below.

Tabla E O	Air Manitaring Stations for Contract no. UK/2000/01	
Table 5.8	Air Monitoring Stations for Contract no. HK/2009/01	

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza
CMA6a	AECOM site office at Work Area 1

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

5.3.7. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HK/2009/02 under FEP-01/364/2009. The proposed division of air monitoring stations are summarized in *Table 5.9* below.

Table 5.9 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under EP-364/2009/A

5.3.8. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HY/2009/15 under EP-364/2009/A. The proposed division of air monitoring stations are summarized in *Table 5.10* below.

 Table 5.10 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB site office at Wanchai Waterfront Promenade

5.4 Waste Monitoring Results

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<u>Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u>
<u>Advanced piling works under FEP-03/364/2009</u>
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5.4.1. Inert C&D waste was recycled in the reporting month. Details of the waste flow table are summarized in *Table 5.11*

Table 5.11 Details of Waste Disposal for Contract no. HY/2009/17



Waste Type	Quantity this month, m ³	Cumulative Quantity- to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	122.68	122.68	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	N/A	N/A	N/A

<u>Contract no. 04/HY/2006 - Reconstruction of Bus Terminus near Man Yiu Street and Man</u> <u>Kwong Street under FEP-04/364/2009/A</u>

5.4.2. Inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.12.*

Waste Type*	Quantity this month, m ³	Cumulative-to- Date. m ³	Disposal / Dumping Grounds
Inert C&D materials	305m ³	475m ³	Chai Wan and
disposed	30511	47511	T.K.O. 137
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Table 5.12 Details of Waste Disposal for Contract no. 04/HY/2006

<u>Contract nos. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at</u> <u>Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009</u>

5.4.3. No inert and non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.13*.

Table 5.13	Details of Waste Disposal for Contract no. HK/2009/01	
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Waste Type*	Quantity this month, m ³	Cumulative-to- Date. m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A



Waste Type*	Quantity this month, m ³	Cumulative-to- Date. m ³	Disposal / Dumping Grounds
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

5.4.4. No inert and no-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.14*.

Table 5.14 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type*	Quantity this month, m ³	Cumulative-to- Date. m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under EP-364/2009/A

5.4.5. No inert and no-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.15*.

Table 5.15 Details of Waste Disposal for Contract no. HY/2009/18

Waste Type*	Quantity this month, m ³	Cumulative-to- Date. m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A



<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section) under EP-364/2009/A</u>

5.4.6. No inert and no-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.16*.

Waste Type*	Quantity this month, m ³	Cumulative-to- Date. m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Table 5.16 Details of Waste Disposal for Contract no. HY/2009/15



6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air qualities are presented in *Appendix 6.1*.

6.1 Noise Monitoring

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -Advanced piling works under FEP-03/364/2009

6.1.1. No exceednace was recorded in the reporting month.

<u>Contract no. 04/HY/2006</u> – <u>Reconstruction of Bus Terminus near Man Yiu Street and Man</u> <u>Kwong Street under FEP-04/364/2009/A</u>

6.1.2. No exceedance was recorded in the reporting month.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under EP-364/2009/A

6.1.3. No noise monitoring was undertaken in the reporting month.

Contract nos. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works and HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel)

6.1.4. No noise monitoring was undertaken in the reporting month.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under EP-364/2009/A

6.1.5. No noise monitoring was undertaken in the reporting month.

6.2 Real Time Noise Monitoring

<u>Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> <u>Advanced piling works under FEP-03/364/2009</u>

6.2.1. No exceedance was recorded between 0700 and 1900 hours. In contrast, exceedances were recorded between 1900 and 2300 hours throughout the reporting month and between 2300 and 0700 on the next day. Investigation found that the major noise impacts between 1900 and 2300 hours and between 2300 and 0700 on the next day were arising from the traffic noise at the Island Eastern Corridor, in addition, there was no any construction activity commenced in these two periods. As such, the exceedances were concluded not project related.

6.3 Air Monitoring

<u>Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot -</u> Advanced piling works under FEP-03/364/2009

6.3.1. No exceedance was recorded in the reporting month.



Contract no. 04/HY/2006 - Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

6.3.2. No exceedance was recorded in the reporting month.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under EP-364/2009/A

6.3.3. No air quality monitoring was undertaken in the reporting month.

Contract nos. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works and HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East(CWB Tunnel)

6.3.4. No air quality monitoring was undertaken in the reporting month.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) EP-364/2009/A

6.3.5. No air quality monitoring was undertaken in the reporting month.

6.4 Review of the Reasons for and the Implications of Non-compliance

- 6.3.1. There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.3.2. No project-related non-compliance from monitoring was recorded in the reporting month.

6.5 Summary of action taken in the event of and follow-up on non-compliance

6.4.1. There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.



7. Cumulative Construction Impact due to the Concurrent Projects

- 7.0.1. According to Condition 3.4 of the EP-364/2009/A, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WWDII), Central-WanChai Bypass (CWB) and Island Eastern Corridor Link projects (IECL).
- 7.0.2. From the Monthly EM&A report (September 2010) of Central Reclamation Phase III the key works in October 2010 are as follows:
 - Type A filling in FRAW and FRAE above +2.5mPD;
 - General filling works above +2.5mPD in IRAE;
 - Surcharging in FRAW and FRAE;
 - Construction of cantilever slab at caisson;
 - Pile cap and base slab construction at Culvert F;
 - Construction of storm and foul drainage and gullies in hinterlands for Road P2, Road D7, and Road D9;
 - Road P2 Underpass ramp structures;
 - Precasting for retaining wall (offsite);
 - Installation of cooling mains discharge pipes in FRAE and FRAW;
 - Diaphragm wall and barrettes for CWB Works;
 - Bulk excavation to formation level at CWB works;
 - Construction of CWB structure; and
 - Disposal of material off-site to Government fill banks
- 7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II was the dredging works at North Point Reclamation Stage 1(NPR1), Wan Chai Reclamation Stage 1(WCR1), Advanced piling works at FEHD Whitfield Depot and cross-harbour water mains in the reporting month. The major environmental impact was water quality impact at North Point and Wan Chai. Land-based construction activity was only the modification works of bus terminus near Man Yiu Street and Man Kwong Street under CWB and advance piling works at FEHD Whitfield Depot in the reporting month.
- 7.0.4. The major environmental impacts generated from the Central Reclamation Phase III were located along the coastline of Central and Admiralty while modification works of bus terminus near Man Yiu Street and Man Kwong Street under CWB and advanced piling works at FEHD Whitfield Depot were undertaken in the reporting month. No significant air, noise impact were anticipated in the reporting month. Besides, no environmental monitoring exceedance was recorded from the Project in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/17 and 04/HY/2006. No non-conformance was identified during the site audits.
- 8.0.2. Five site inspections for Contract no. HY/2009/17 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.1*.

	, ,		1	
Item	Date	Observations	Action taken by Contractor	Outcome
100928_01	28-Sep-10	Mud shall be clear in the U channel to prevent any flooding in the construction site	Clear the mud	Completion as observed on 5-Oct- 10
101005_01	05-Oct-10	Chemical storage cupboard shall be kept locked after being used	Lock the cupboard	Completion as observed on 13- Oct-10
101013_01	13-Oct-10	Drip tray shall be placed underneath the air compressor	Place drip tray under the air compressor	Completion as observed on 19- Oct-10
101013_02	13-Oct-10	Improve wheel washing facilities at the exit of tracks to prevent any C&D material or mud carried outside the construction site	Enhance wheel washing facilities or water spraying	Completion as observed on 2-Nov- 10
101019_01	19-Oct-10	Mud was observed carried outside the construction site by trucks. The contractor was reminded to improve the wheel washing facilities	Enhance wheel washing facilities or water spraying	Completion as observed on 2-Nov- 10
101019_02	19-Oct-10	Water spraying in the construction site shall be conducted 4 times a day	Watering the construction site	Completion as observed on 26- Oct-10
101026_01	26-Oct-10	Improve the wheel washing facilities to prevent any mud carried out the construction site. The contractor is reminded to pack sandbag to block the mud discharge outside	Pack sandbags around the wheel washing facilities	Completion as observed on 2-Nov- 10
101026_01	26-Oct-10	The contractor is recommended to enhance the enclosure of the stieve grouting system before 1st use.	Enhance the enclosure of the stieve grouting system	Completion as observed on 2-Nov- 10

 Table 8.1
 Summary of Environmental Inspections for Contract no. HY/2009/17

8.0.3. Four site inspections for Contract no. 04/HY/2006 were carried out during this reporting period. The results of these inspections and outcomes are summarized in Table 8.2.

 Table 8.2
 Summary of Environmental Inspections for Contract no. 04/HY/2006

ltem	Date	Observations	Action taken by Contractor	Outcome
101004_01	04-Oct-10	U channel shall be covered to prevent any construction material enter the drainage system		Completion as observed on 11- Oct-10
101011_01	11-Oct-10	Sand shall be covered by fabric textile if the area s larger than 1m x 1m		Completion as observed on 18- Oct-10
101018_01	18-Oct-10	To provide and maintain drainage system inside the construction site. Prevent any C & D material	Sweep all C&D materials away from the boundary of the	



ltem	Date		Action taken by Contractor	Outcome
		washed outside	construction site	
101018_02	18-Oct-10	C & D waste shall be covered well with fabric fibre	stockpile	Completion as observed on 25- Oct-10
101025_01	25-Oct-10	Drip tray shall be provide for chemicals storage	Provide drip tray for chemical storage	Completion as observed on 1-Nov- 10

am

9. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No complaint, notification of summons and prosecution was received in the reporting month. The details of cumulative complaint log and updated summary of complaints are presented in <u>Appendix 9.1</u>.
- 9.0.2. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Table 9.1	Cumulative Statistics on Complaints
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Reporting Period	No. of Complaints
October 2010	0
Project-to-Date	0

Table 9.2 Cumulative Statistics on Successful Prosecutions	Table 9.2	Cumulative Statistics on Successful Prosecutions
--	-----------	---

Environmental Parameters	Cumulative No. Brought Forward		
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	- 0		0
Total	-	0	0



10. CONCLUSION

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*. The construction programmes of individual contracts are provided in *Appendix 10.1*.

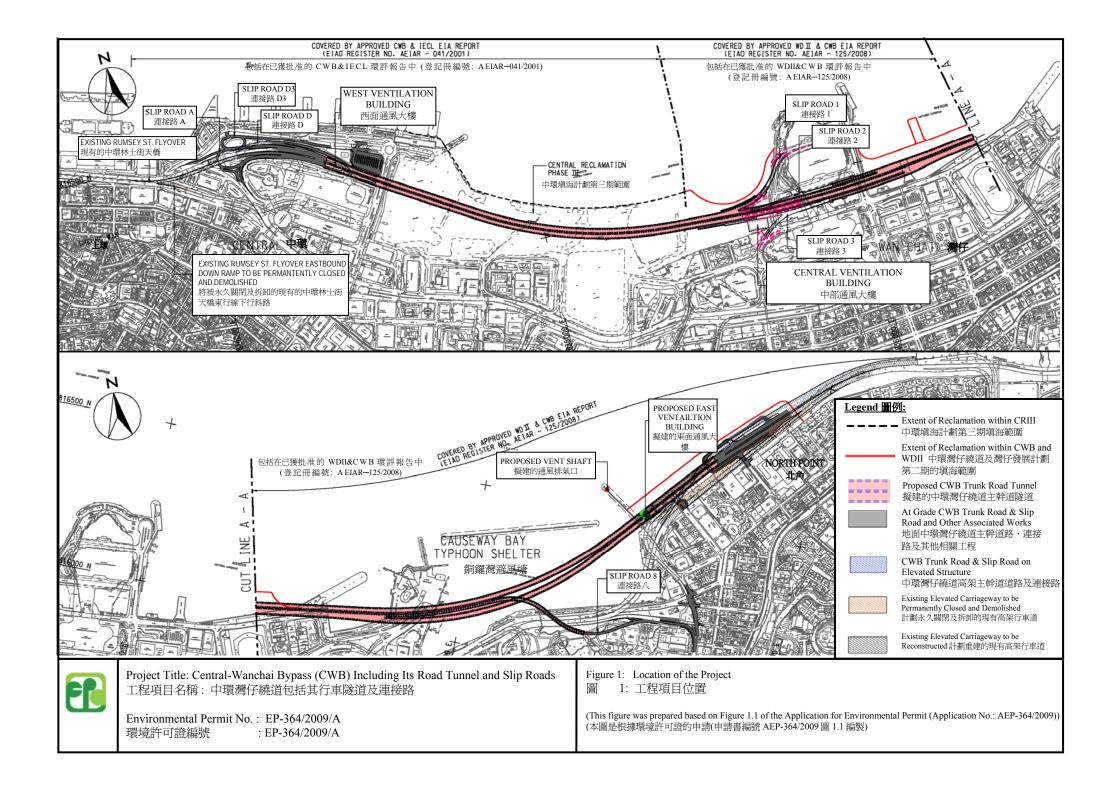
	minenced in coming Reporting Mon	ui
Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/17	Drilling, installation steel H-Pile & grouting	 Noise barrier shall be implemented; Watering any dust generating activities; and Improvement of wheel washing facilities
04/HY/2006	Modification of bus bays at the bus terminus	 Noise barrier shall be implemented; Watering any dust generating activities

Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month



Figure 2.1

Project Layout





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	Metric				0

Legend

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Figure 2.2

Project Organization Chart



Project Organization Chart

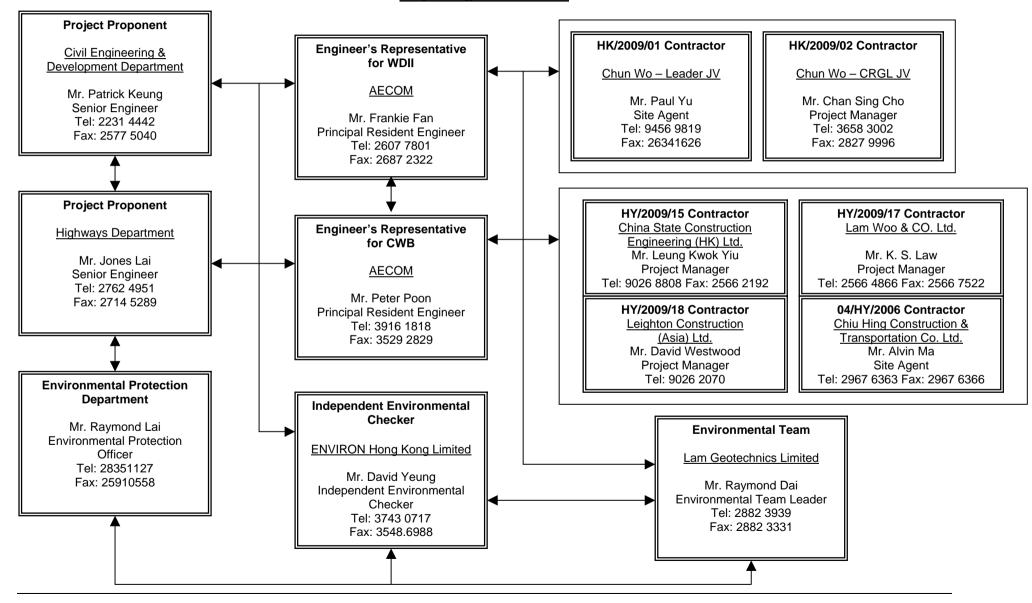
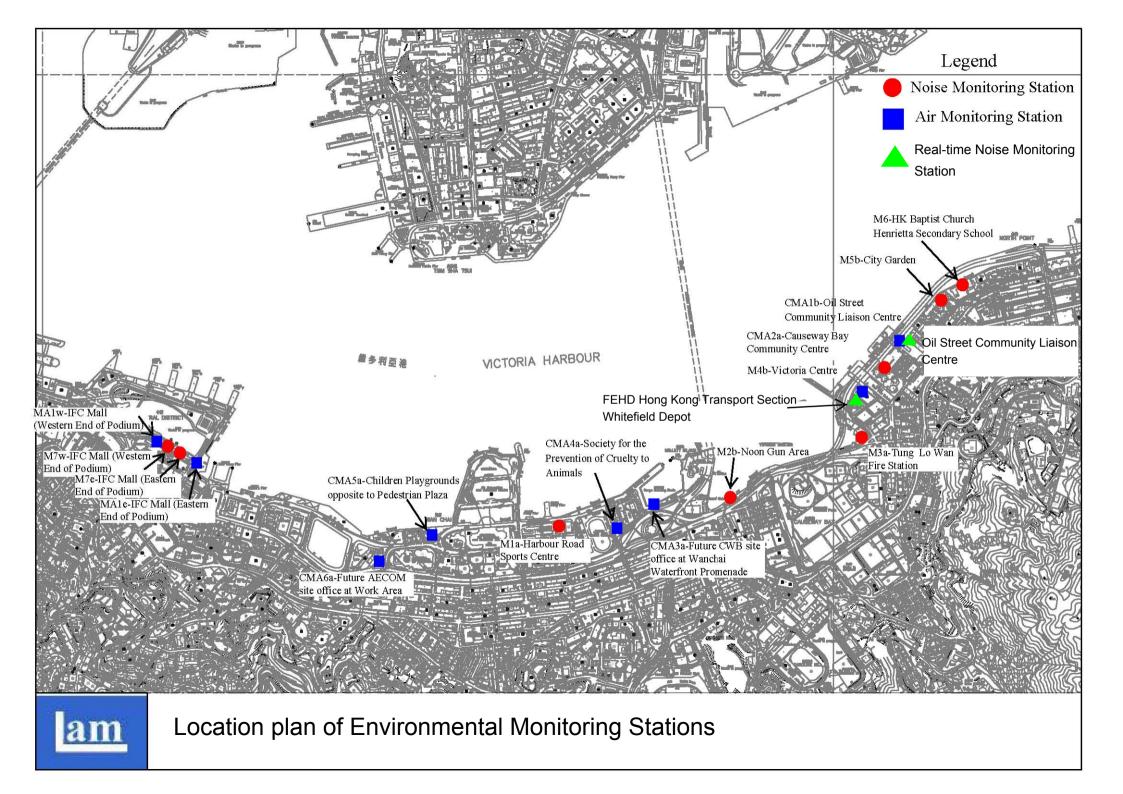




Figure 4.1

Locations of Monitoring Stations





Appendix 3.1

Environmental Mitigation Implementation Schedule

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

Table A.1 Implementation Schedule for Air Quality Control

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	Implementation Stages*		ion	Relevant Legislation
Report Ref	Environmental Frotection (vicusures / ivinigation ivicusures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		\checkmark			EIAO-TM
S3.8.1	 Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		\checkmark			
Operational								
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11 of Volume 1 of the WDII & CWB EIA Report.	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			V		
\$3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			V		EIAO-TM

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table A.2Implementation Schedule for Noise Control

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Location / Timing Implementation Stages*	mplementation Stages*		Relevant Legislation		
Report Ref	Environmental i rotection ividasures / ivitigation ividasures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
S4.9.3	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities. 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
S4.8.1 – S4.8.11	 Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

Monthly EM&A Report

Contract No.: HK/2009/05 Wan chai Development Phase I and Central-Wan Chai Bypass – Sampling, Field Meaurement and Testing Works (Stage 1)

WDII & Implementation Implementation **Relevant Legislation CWB EIA** Stages* **Environmental Protection Measures / Mitigation Measures** Location / Timing Agent and Guidelines Report С Des 0 Dec Ref Demolition and construction of substructures for the IEC • Demolition works of existing piers and crossheads of the • marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction ٠ • Substructure for IECL connection **Operation Phase** S4.8.12 -Near North Point / Before EIAO-TM HyD $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ For Existing NSRs S4.8.23 commencement of • about 235m length of noise semi-enclosure with transparent operation of road project panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent • panel covering the main carriageways (eastbound and westbound) of the CWB and IEC • about 135m length of 5.5m high cantilevered noise barrier with 4.5m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC (amended under EP-364/2009/A) about 95m length of 5.5m high cantilevered noise barrier • with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with • transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel • section and beneath the landscaped deck at the eastern portal area)) with speed limit of 70 km/hour

Monthly EM&A Report

Contract No.: HK/2009/05 Wan chai Development Phase I and Central-Wan Chai Bypass – Sampling, Field Meaurement and Testing Works (Stage 1)

Monthly EM&A Report

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implem Stag		ientat ges*	ion	Relevant Legislation
Report Ref			Agent	Des	С	0	Dec	and Guidelines
	 For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD		√ #			
	• The openable windows of the temple, if any, should be orientated so as to avoid direct line of sight to the existing Victoria Park Road as far as practicable.	Near Causeway Bay Fire Station / During detailed design of the re- provisioned Tin Hau Temple	Project Proponent for the re-provisioned Tin Hau Temple	\checkmark				

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

Table A.4 Implementation Schedule for Waste Management

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
Report Ref	Environmental i rotection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
\$6.5.14	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table D9.3.	Work site / During the construction period	Contractor		V			
S6.6.1	 <i>Good Site Practices</i> Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor		V			Waste Disposal Ordinance (Cap.354)

Monthly EM&A Report

Contract No.: HK/2009/05 Wan chai Development Phase I and Central-Wan Chai Bypass -Sampling, Field Meaurement and Testing Works (Stage 1)

WDII &

CWB EIA

Report Ref S6.6.2

Environmental Protection Measures / Mitigation Measures	tal Protection Measures / Mitigation Measures Location / Timing Implementat		Stages*				Relevant Legislation		
Environmental Frotection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines		
Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	e ,	Contractor	1	\checkmark					
• segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;									
• to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force;									
• any unused chemicals or those with remaining functional capacity shall be recycled;									

Implementation

use of reusable non-timber formwork, such as in casting the • tunnel box sections, to reduce the amount of C&D material.

- prior to disposal of C&D waste, it is recommended that • wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;
- proper storage and site practices to minimise the potential ٠ for damage or contamination of construction materials; and
- plan and stock construction materials carefully to minimise ٠ amount of waste generated and avoid unnecessary generation of waste.

Implementation

Stages*

Monthly EM&A Report

Relevant Legislation

Contract No.: HK/2009/05 Wan chai Development Phase I and Central-Wan Chai Bypass – Sampling, Field Meaurement and Testing Works (Stage 1)

Monthly EM&A Report

WDII & CWB EIA	VB EIA Report Environmental Protection Measures / Mitigation Measures Location / Timing Implementation	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
Report Ref		Agent	Des	С	0	Dec	and Guidelines	
S6.6.4	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
\$6.6.5	<i>Chemical Wastes</i> After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.6.6	<i>Construction and Demolition Material</i> C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

Contract No.: HK/2009/05 Wan chai Development Phase I and Central-Wan Chai Bypass – Sampling, Field Meaurement and Testing Works (Stage 1)

Monthly EM&A Report

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
Report Ref	Environmental Frotection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines
\$6.6.7	In order to monitor the disposal of public fill and C&D waste at public fill reception facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
\$6.6.8	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 	Work site / During the construction period	Contractor		~			ProPECC PN 1/94

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures	itigation Measures Location / Timing Implementation		In	nplem Stag	entatio ges*	Relevant Legislation		
Report Ref	Environmental Protection Weasures / Wiligation Weasures Location / Timing		Agent	Des	С	0	Dec	and Guidelines	
Constructi	on and Operation Phase								
S.7.1.1	As no potential contaminative land uses were identified within	-	-					-	
	the Study Area, adverse land contamination impacts associated								
	with the construction and operation of the Project is not								
	expected. As such, environmental protection and mitigation								
	measures are considered not necessary and will not be covered								
	in this EM&A Manual.								

Table A.5 Implementation Schedule for Land Contamination

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Monthly EM&A Report

WDII & CWB EIA	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation and Guidelines
Report Ref					Des	С	0	Dec	
Construction P	hase		·	·				•	
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	\checkmark			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	\checkmark				EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	\checkmark	\checkmark			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	\checkmark	\checkmark			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Operation Pha									
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD		\checkmark	\checkmark		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	\checkmark				ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004

Table A.7 Implementation Schedule for Landscape and Visual

*Des - Design, C - Construction, O - Operation, and Dec - Decommissioning



Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A) ^{Note 1}

Action and Limit Level for Real Time Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A) ^{Note 2}
19:00 – 23:00 hours on normal weekdays and public holiday	When one documented complaint is received.	70 dB(A) ^{Note 3}
23_ :00 – 07:00 at next day on everyday	When one documented complaint is received.	65 db(A)

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively. If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Note 2:

70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

Note 3:

If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Monitoring Location	1-hour TSP Level	in μ g/m ³	24-hour TSP Level in μ g/m ³		
	Action Level	Limit Level	Action Level	Limit Level	
CMA1a	320.1	500	176.7	260	
CMA2a	323.4	500	169.5	260	
CMA3	311.3	500	171.0	260	
CMA4a	312.5	500	171.2	260	
CMA5	332.0	500	181.0	260	
CMA6	300.1	500	187.3	260	
MA1e	325.1	500	173.4	260	
MA1w	325.1	500	173.4	260	

Action and Limit Level for Air Monitoring



Appendix 4.2

Copies of Calibration Certificates



Certificate No. 96127	Page	1 of	4 Pages		
Customer: Lam Environmental Services Ltd					
Address : 11/F, Centre Point, 181-185 Gloucester Road,	Wanchai, Hong Kong	÷			
Order No.: Q92434	Date of receipt	t :	24-Nov-09		
Item Tested					
Description : Precision Integrating Sound Level Meter					
Manufacturer : ACO					
Model : Type 6224	Serial No.	: 3014	48		
Test Conditions					
Date of Test: 26-Nov-09	Supply Voltage	e :			
Ambient Temperature : (23 ± 3)°C	Relative Humidity : (50 ± 25) %				
Test Specifications					
Calibration check.					
Ref. Document/Procedure: Z01.					
Test Results					
All results were within the IEC 651 Type 1 & 804 Type I Specific	cation.				
The results are shown in the attached page(s).					

Main Test equipment used:

Equipment No.	Description	Cert. No.	Due Date	Traceable to
S017	Multi-Function Generator	C081456	18-Mar-10	SCL-HKSAR
S024	Sound Level Calibrator	93758	16-Jul-10	NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by :

P.F. Wong This Certificate is issued by: Hong Kong Calibration Ltd.

un

Approved by : _____

Dorothy Cheuk

Date: 27-Nov-09

Unit 88, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong, Tel: 2425 8801 Fax: 2425 8546



Certificate No. 96127

Page 2 of 4 Pages

Results :

1. SPL Accuracy

UU	JT Setting			
Level Range (dB)	Weight	Time Const.	Applied Value (dB)	UUT Reading (dB)
20 - 100			94.3	
		Slow		94.3
	L _C	Fast		94.3
30-120	LA	Fast	94.03	94.5
		Slow		94.5
	L _C	Fast		94.5
30 - 120	120 L _A Fast 113.97	113.97	114.2	
		Slow		114.2
	L _C	Fast		114.2

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

- Level Stability : 0.0 dB IEC 651 Type 1 Spec. : ± 0.3 dB Uncertainty : ± 0.01 dB
- 3. Linearity
- 3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.6	+0.1	$\pm 0.7 \text{ dB}$
130	104.0	104.7	+0.2	± 0.7 dB
120	94.0	94.5 (Ref.)		-
110	84.0	84.5	0.0	-
100	74.0	74.2	-0.3	1
90	64.0	64.0	-0.5	1
80	54.0	54.0	-0.5	

Uncertainty : ± 0.1 dB



Certificate No. 96127

Page 3 of 4 Pages

3.2 Differential level linearity

UUT Range	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.4	-0.1	± 0.4
	94.0	94.5 (Ref.)		
[95.0	95.5	0.0	± 0.2
	104.0	104.5	0.0	± 0.3
	105.0	105.5	0.0	± 1.0

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.0	- 39.4 dB, ± 1.5 dB
63 Hz	-25.8	- 26.2 dB, ± 1.5 dB
125 Hz	-15.7	- 16.1 dB, ±1 dB
250 Hz	-8.3	- 8.6 dB, ±1 dB
500 Hz	-3.0	- 3.2 dB, ±1 dB
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.2	$+ 1.2 dB, \pm 1 dB$
4 kHz	+0.8	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.3	- 1.1 dB, +1.5 dB ~ -3 dB
16 kHz	-5.9	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : $\pm 0.1 \text{ dB}$



Certificate No. 96127

Page 4 of 4 Pages

4. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.	
continuous	40.0	40.0	(mes)	
1/10	40.0	39.9	± 0.5 dB	
$1/10^{2}$	40.0	40.1		
$1/10^{3}$	40.0	40.2	± 1.0 dB	
$1/10^4$	40.0	40.3		

Uncertainty : $\pm 0.1 \text{ dB}$

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 010 hPa.

----- END -----



Certificate No.	03250A		Page	1 of 3	3 Pages
Customer :	Lam Geotechnics Limited				······
Address :	11/F., Centre Point, 181-185 Gl	oucester Road, Wa	nchai, Hong Kong	3	
Order No. :	Q01282		Date of receipt	t i:	14-Jun-10
Item Tested					
Manufacturer :		vel Meter			б [.] ,
Model :	LA-5110		Serial No.	: 72302	293
Test Conditi	ons				
Date of Test :	21-Jun-10		Supply Voltage	e :	
Ambient Temp	erature : (23 ± 3)°C		Relative Humic	dity: (50 ± 2	25) %
Test Specifi	cations				
Calibration cheo Ref. Document/	ck. /Procedure: Z01.				
Test Results	3				
All results were	within the IEC 651 Type 1 & IEC	: 804 Class 1 specifi	ication		
	shown in the attached page(s).				
Main Test equip		0 (N		-	
Equipment No. S017	Multi-Function Generator	<u>Cert. No.</u> C101623		Traceable t SCL-HKSA	
S024	Sound Level Calibrator	93758			SCL-HKSAR
will not include allow overloading, mis-ha	this Calibration Certificate only relate to vance for the equipment long term drift, Indling, or the capability of any other labo age resulting from the use of the equipm	variations with environme oratory to repeat the mea	ental changes, vibratio	on and shock d	luring transportation.
	used for calibration are traceable to Inter ly to the above Unit-Under-Test only	rnational System of Unit	s (SI).		
	1.				
Calibrated by	P. F. Wong	Apr	proved by :	Dorothy Ch	
This Certificate is issued b Hong Kong Calibration Ltd		Date	:: 8-Oct-10	-	J

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tet: 2425 8801 Fax: 2425 8646



Certificate No. 03250A

Page 2 of 3 Pages

Results :

1. SPL Accuracy

UI	JT Setting	5			
		Frequency	Dynamic	Applied Value	UUT Reading
Level Range	Filter	Weighting	Characteristic	(dB)	(dB)
40 - 100 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	113.97	113.9
1	97 1		SLOW		113.9
	<u> 24.000 - 1</u>	C	FAST		113.9

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

 Level Stability : 0.0 dB IEC 651 Type 1 Spec. : ± 0.3 dB Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

UUT Range	Applied	UUT Reading	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
130	114.0	114.1	+0.1	± 0.7 dB
130	104.0	104.1	+0.1	
120	94.0	94.0 (Ref.)		1
110	84.0	84.0	0.0	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.0	0.0	1

Uncertainty : $\pm 0.1 \text{ dB}$



Certificate No. 03250A

Page 3 of 3 Pages

3.2 Differential level linearity

UUT Range	Applied	UUT Reading		
(dB)	Value (dB)	(dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.0	0.0	± 0.4
	94.0	94.0 (Ref.)		1
	95.0	95.0	0.0	± 0.2

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Freque	ency	Attenuation (dB)	IEC 651 Type 1 S	Spec.
31.5	5 Hz	-40.5	- 39.4 dB, ± 1.5	dB
63	Hz	-26.9	- 26.2 dB, ± 1.5	dB
125	Hz	-16.9	- 16.1 dB, ± 1	dB
250	Hz	-9.1	- 8.6 dB, ± 1	dB
500	Hz	-3.5	- 3.2 dB, ± 1	dB
1	kHz	0.0 (F	ef.) $0 dB, \pm 1$	dB
2	kHz	+1.5	$+ 1.2 \text{ dB}, \pm 1$	dB
5	kHz	+1.2	$+ 1.0 \text{ dB}, \pm 1$	dB
8	kHz	-1.0	- 1.1 dB, +1.5 dB	~-3 dB
16	kHz	-7.0	- 6.6 dB, + 3 dB	~- 8

Uncertainty : $\pm 0.1 \text{ dB}$

5. Time Averaging

27

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	40.0	± 0.5 dB
1/10 ²	40.0	40.0	-
1/10 ³	40.0	40.1	± 1.0 dB
1/104	40.0	39.9	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 000 hPa.
- 4. This certificate is supersede our former certificate no. 03250.

----- END -----



Certificate No. 96128	Page 1 of 2 Pages
Customer: Lam Environmental Services Ltd	
Address : 11/F, Centre Point, 181-185 Gloucester Roa	d, Wanchai, Hong Kong.
Order No.: Q92434	Date of receipt : 24-Nov-09
Item Tested	
Description : Sound Level Calibrator (EL469)	
Manufacturer : ACO	
Model :	Serial No. : 050213
Test Conditions	
Date of Test: 26-Nov-09	Supply Voltage :
Ambient Temperature : (23 ± 3)°C	Relative Humidity : (50 ± 25) %
Test Specifications	
Calibration check.	
Ref. Document/Procedure: F21, Z02.	
Test Results	

All results were within the IEC 942 Class 1 specification after adjustment. The results are shown in the attached page(s).

Main	Test	equ	ipment	used:
		0.40		

Equipment No.	Description	Cert. No.	Due Date	Traceable to
S014	Spectrum Analyzer	93091	18-Jun-10	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	93758	16-Jul-10	NIM-PRC & SCL-HKSAR
S041	Universal Counter	94005	6-Aug-10	SCL-HKSAR
S206	Sound Level Meter	93966	5-Aug-10	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by :

P.F. Wong

Approved by :

27-Nov-09

Dorothy Cheuk

This Certificate is issued by: Date: Hong Kong Calibration Ltd. Unit 88, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong, Tel: 2425 8901 Fax: 2425 8646



Certificate No. 96128

Page 2 of 2 Pages

Results :

1. Level

	Measured Value (dB)		
UUT Nominal Value (dB)	Before adjust. After adjust.		IEC 942 Class 1 Spec.
94	*93.52	94.11	± 0.3 dB

The above measured values are the mean of 3 measurements. Uncertainty : $\pm 0.1 \text{ dB}$

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.	
1 kHz	1.016	kHz	±2%

Uncertainty : ± 3.6 x 10⁻⁶

- Level Stability : 0.0 dB IEC 942 Class 1 Spec. : ± 0.1 dB Uncertainty : ± 0.01 dB
- Total Harmonic Distortion : < 2.9 % IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1010 hPa.
- 4. *Out of Specification.



			Pa				
Customer :	Lam Geotechnics Limited	-					
Address :	11/F., Centre Point, 181-185	5 Gloucester Road,	Wanchai, Hong K	ong			
Order No.: Q01282			Date of rece	eipt : 14-Jun-10			
Item Tested							
Description	: Sound Level Calibrator (ELC	078)					
Manufacturer	: ONO SOKKI						
Model	: SC-2110		Serial No.	: 00393			
Test Condit	ions						
Date of Test :	21-Jun-10		Supply Volt	age :			
Ambient Temp	perature : (23 ± 3)°C		Relative Hu	Relative Humidity : (50 ± 25) %			
Test Specifi	cations						
Calibration che Ref. Document	/Procedure: Z02.						
Test Result	S						
	within the IEC 942 Class 2 st	pecification.					
All results were	within the IEC 942 Class 2 sp shown in the attached page(s						
All results were The results are	shown in the attached page(s						
All results were The results are Main Test equip	shown in the attached page(soment used:		Due Date	Traceable to			
All results were The results are Main Test equip Equipment No.	shown in the attached page(soment used:	5).	<u>Due Date</u> 16-Jul-10	<u>Traceable to</u> NIM-PRC & SCL-HKSAR			
All results were The results are Main Test equip <u>Equipment No.</u> S024	shown in the attached page(s oment used: <u>Description</u>	s). <u>Cert. No.</u>		C-0740.00			
All results were The results are Main Test equip <u>Equipment No.</u> S024	shown in the attached page(s oment used: <u>Description</u> Sound Level Calibrator	s). <u>Cert. No.</u> 93758	16-Jul-10	NIM-PRC & SCL-HKSAR			
All results were	shown in the attached page(s oment used: <u>Description</u> Sound Level Calibrator	s). <u>Cert. No.</u> 93758	16-Jul-10	NIM-PRC & SCL-HKSAR			
All results were The results are Main Test equip Equipment No. S024	shown in the attached page(s oment used: <u>Description</u> Sound Level Calibrator	s). <u>Cert. No.</u> 93758	16-Jul-10	NIM-PRC & SCL-HKSAR			

will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by :

P. F. Wong

Approved by : Dorothy Cheuk

Date: 25-Jun-10

This Certificate is issued by: Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 03445

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 2 Spec.	
94	94.05	± 0.5 dB	

Uncertainty : $\pm 0.2 \text{ dB}$

2. Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 942 Class 2 Spec.	
1	0.998	±4%	

Uncertainty : ± 0.1 %

- 3. Level Stability : 0.0 dB IEC 942 Class 2 Spec. : ± 1.2 dB Uncertainty : ± 0.01 dB
- Total Harmonic Distortion : < 1.2 % IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The above measured values are the mean of 3 measurements.
- 3. The uncertainty claimed is for a confidence probability of not less than 95%.
- 4. Atmospheric Pressure : 1 000 hPa.

----- END -----



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ju Operator	,) Rootsmeter Orifice I.I	,	833620 0005	Ta (K) - Pa (mm) -	298 - 745.49
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3860 0.9740 0.8730 0.8320 0.6850	METER DIFF Hg (mm) 3.2 6.4 7.9 8.8 12.7	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9767 0.9725 0.9704 0.9693 0.9641	0.7047 0.9985 1.1116 1.1650 1.4075	1.4006 1.9808 2.2146 2.3227 2.8013		0.9957 0.9914 0.9893 0.9882 0.9829	0.7184 1.0179 1.1332 1.1877 1.4349	0.8941 1.2645 1.4137 1.4828 1.7883
Qstd slop intercep coefficie	t (b) =	1.99628 -0.00699 0.99995		Qa slope intercept coefficie	t (b) =	1.25003 -0.00446 0.99995
y axis = SQRT $[H20(Pa/760)(298/Ta)]$				y axis =	SQRT [H20 (7	[a/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

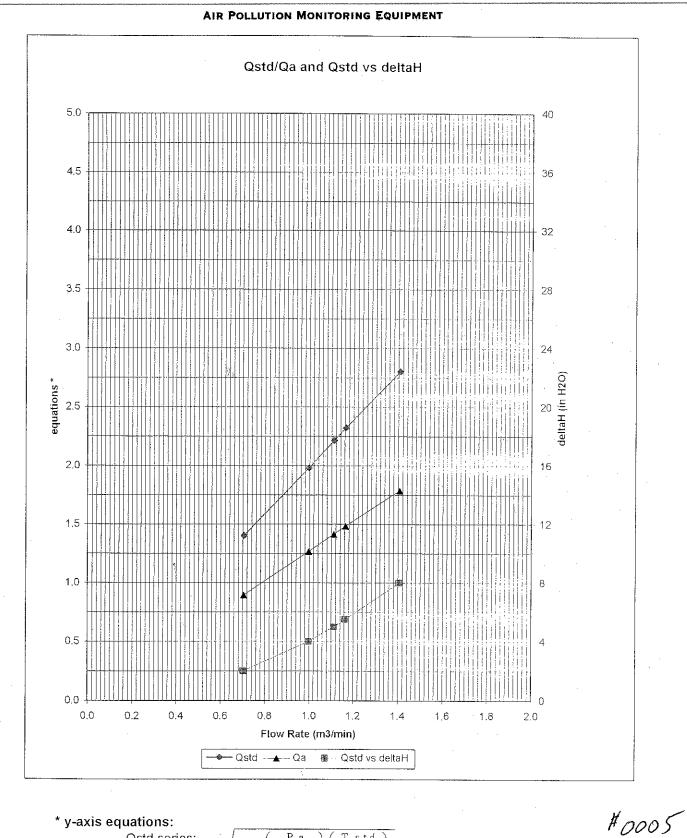
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

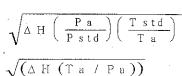
 $Qstd = 1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT H2O(Ta/Pa)] - b \}$



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877,263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM



* y-axis equations: Qstd series:



Qa series:



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	IFC-E	Calbration Date	:	08-Sep-10
Equipment no.	:	EL455	Calbration Due Date	:	08-Nov-10

CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition										
Temperature, T _a		304		Kelvin	Pressure, P _a			1012 mmHg			
Orifice Transfer Standard Information											
Equipment No.		EL086 Slope, mc 1.99628 Intercept, bc -0.0699					-0.06990				
Last Calibration Date		28-Jun-1	C		(Hx	P _a / 10	13.3 x 298	$/T_{a})^{1/2}$			
Next Calibration Date		28-Jun-1	1		=	m_c >	$\langle Q_{std} + b_c$				
	Calibration of RSP										
Calibration	Mai	nometer Re	eading	C	Q _{std}	Contin	uous Flow		IC		
Point	H (inches of water)		(m ³	/ min.)	Recorder, W		(W(P _a /1013	3x298/T _a) ^{1/2} /35.31)			
	(up)	(down)	(difference)	X	axis	(CFM)		Y-axis		
1	6.2	6.2	12.4	1.	7804		60	5	9.3668		
2	5.1	5.1	10.2	1.	6180		51	5	0.4618		
3	4.3	4.3	8.6	1.	4885		44	4	3.5357		
4	2.6	2.6	5.2	1.	1653		33	3	2.6518		
5	1.6	1.6	3.2	0.	9217		24	2	3.7467		
By Linear Regression of Y	on X										
	Slope, m	=	40.3	272	In	tercept, b	= -1	14.2941			
Correlation C	oefficient*	=	0.99	941	-						
Calibration	Accepted	=	Yes/	No**							

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

:	Derek Lo	Checked by	:	Cherry Mak	
:	08-Sep-10	Date	:	08-Sep-10	
	:				



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	IFC-W	Calbration Date	:	08-Sep-10
Equipment no.	:	EL080	Calbration Due Date	:	08-Nov-10

CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition										
Temperature, T _a		304		Kelvin	Pressure, P _a			1012 mmHg			
Orifice Transfer Standard Information											
Equipment No.		EL086		Slope, m _c	1.9962	28	Intercept, be	c	-0.06990		
Last Calibration Date		28-Jun-1	0		(Hx	P _a / 10	13.3 x 298	/T _a) ^{1/2}			
Next Calibration Date		28-Jun-1	1		=	m_c y	$(Q_{std} + b_c)$				
	Calibration of RSP										
Calibration	Ма	nometer Re	eading	C	Q _{std}	Contir	uous Flow		IC		
Point	H (inches of water)		(m ³	/ min.)	Rec	order, W	(W(P _a /101	3.3x298/T _a) ^{1/2} /35.31)			
	(up)	(down)	(difference)	X	axis	(CFM)		Y-axis		
1	6.0	6.0	12.0	1.	7520		57		56.3985		
2	4.9	4.9	9.8	1.	5866		49		48.4829		
3	4.2	4.2	8.4	1.	4715		42		41.5568		
4	2.5	2.5	5.0	1.	1433		32		31.6623		
5	1.4	1.4	2.8	0.	8644		20		19.7889		
By Linear Regression of Y	on X										
	Slope, m	=	39.9	142	In	tercept, b	= -′	14.8478			
Correlation C	oefficient*	=	0.99	951							
Calibration	Accepted	=	Yes/	\0 **							

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

:	Derek Lo	Checked by	:	Cherry Mak	
:	08-Sep-10	Date	:	08-Sep-10	
	:				

Brüel & Kjær

CERTIFICATE OF CALIBRATION

Certificate	Certificate No. : 2KS100705-2								
Calibration	of	:							
Description	:	Sound Level N	1eter	7	Microphone				
Manufacture	:	Brüel & Kjær							
Type No.	:	2250		,	4950				
Serial No.	:	2722311			2698703				
	11 18 W Ho	m Geotechn /F, Centre P 1-185 Glouc anchai ong Kong	oint						
Calibration	Cor	nditions :							
Air Tempera	ture	: 23	°C						
Air Pressure		: 101.9	kPa						
Relative Hun	nidit	y : 62	%						

Test Specifications :

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of :

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result :

Dai Bin

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration : 03 Aug, 2010 Calibrated By : Certificate issued : 03 Aug, 2010 Approved signatory :

Devi Bm

Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

Unit 706 7/F., Miramar Tower, 132 Nathan Road, Tsim Sha Tsui, Kowloon, Hong Kong 香港九龍尖沙咀彌敦道132號美麗華大廈7樓706室 Tel : (852) 2548 7486 Fax : (852) 2858 1168

spectris

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100705-2

Page 2 of 2

Results :

List of performed (sub) test with test status:

	perioritied (bub) tost with tost status.
"OK"	Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test :	Subtest :	Status :
Noise	А	ОК
Noise	С	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	С	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	ОК
RMS Detector	Symmetry	ОК
Time Weighting	Difference Indication	ОК
Time Weighting	Single Burst FAST	ОК
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	ОК
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	А	OK
Acoustic Response	Lin	OK

Calibration Equipment :

Brüel & Kjær's Sound	Level Meter Calil	oration Systen	n B&K 9600 CA	AL2238A, Ver.25.10.1999
Description :	Make & Model :	Serial No. :	Last Cal. Date :	Traceable to:
Digital Multi-meter	Datron 1281	27361	30 Sept, 2009	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1843103	11 Aug 2009	NPL via B&K (DANAK)

Calibrated By : Don & M Date : 03 Aug 2010

Checked By Jerry Date : 03 Aug, 2010



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2009/05 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 1)

Environmental Monitoring Schedule October 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		28-Sep 1hr TSP x 3 Noise (Day time)	29-Sep			2-Oct 24hr TSP
3-Oct	1hr TSP x 3	5-Oct Noise (Day time)	6-Oct		8-Oct 24hr TSP	9-Oct 1hr TSP x 3
10-Oct		12-Oct Noise (Day time)			15-Oct 1hr TSP x 3	16-Oct
17-Oct			20-Oct 24hr TSP	21-Oct 1hr TSP x 3	22-Oct	23-Oct
24-Oct		26-Oct 24hr TSP Noise (Day time)	27-Oct 1hr TSP x 3			

Contract No. HK/2009/05 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 1)

Tentative Environmental Monitoring Schedule November 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				28-Oct	29-Oct	30-Oct
31-Oct	1-Nov 24hr TSP	2-Nov 1hr TSP x 3	3-Nov	4-Nov Noise (Day time)		6-Nov 24hr TSP
7-Nov	8-Nov		10-Nov Noise (Day time)			13-Nov 1hr TSP x 3
14-Nov		16-Nov Noise (Day time)			19-Nov 1hr TSP x 3	20-Nov
21-Nov			24-Nov 24hr TSP	25-Nov 1hr TSP x 3	26-Nov	27-Nov

Contract No. HK/2009/05 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 1)

Remarks (Air)

1. Cut-off date is at the 27th of each reporting month.

- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HK/2009/01: CMA5a (To be commenced when site formation works within reclaimed area)
- Contract HK/2009/02: CMA4a (To be commended when site formation works within reclaimed area)
- Contract nos. HY/2009/17: CMA2a (To be commenced in Oct 2010)
- Contract nos. HY/2009/15 and HY/2009/19: CMA3a (To be commenced in Nov 2010)
- Contract 04/HY/2009/2006: MA1e and MA1w (Commenced in Sep 2010)

Remarks (Noise)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Noise Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HK/2009/01 and HK/2009/02: M1a (To be commenced when Pier demolition work & PTI reconstruction)
- Contract HY/2009/15: M2b (Contract to be commenced in Oct 2010)
- Contract HY/2009/17: M4b (To be commenced when advance piling work start)
- Contract HY/2009/19: M3a, M4b, M5b, M6 (Contract to be commenced in Nov 2010)
- Contract 04/HY/2006: M7e, M7w (Commenced on 30 Aug 2010)
- 4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M7e - International Finance Centre (Eastern End of Podium)

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30-min)	
28/09/10	09:45	Sunny	70.5	73.5	64.6	-	71	75
05/10/10	09:35	Cloudy	68.0	70.1	65.0	-	68	75
12/10/10	09:17	Sunny	67.7	69.4	64.6	-	68	75
19/10/10	09:09	Fine	68.1	70.1	64.8	-	68	75
26/10/10	09:26	Cloudy	70.7	72.8	67.5	-	71	75

Location: M7w - International Finance Centre (Western End of Podium)

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq		
						Unit: dB(A), (3				
28/09/10	10:52	Sunny	70.4	70.2	66.6	-	70	75		
05/10/10	10:17	Cloudy	69.2	69.7	66.3	-	69	75		
12/10/10	09:57	Sunny	68.5	69.4	67.1	-	69	75		
19/10/10	09:51	Fine	67.9	69.9	68.8	-	68	75		
26/10/10	10:09	Cloudy	68.2	69.4	66.5	-	68	75		



Noise Monitoring Result

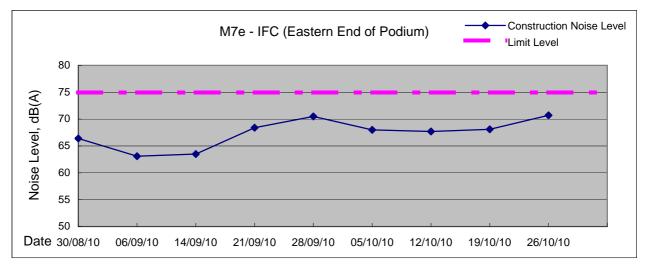
Day Time (0700 - 1900hrs on normal weekdays)

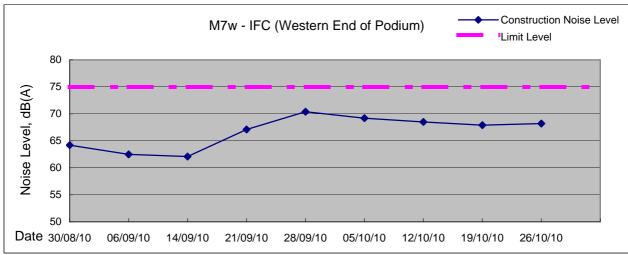
Location: M4b - Victoria Centre

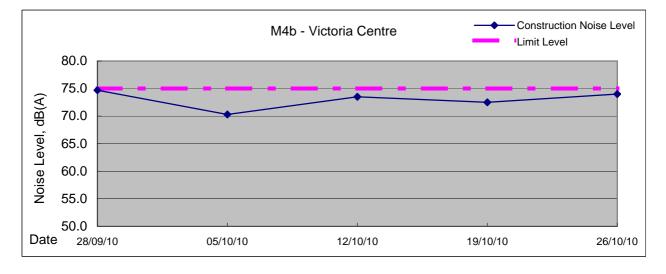
			Measur	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
28/09/10	15:17	Sunny	74.7	76.7	71.0	-	75	75
05/10/10	14:27	Cloudy	70.3	72.1	67.9	-	70	75
12/10/10	13:55	Sunny	73.5	75.6	68.3	-	74	75
19/10/10	13:40	Fine	72.5	74.2	69.8	-	73	75
26/10/10	13:46	Cloudy	74.0 75.4 71.7			-	74	75



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)









Appendix 5.3 Air Quality Monitoring Results and Graphical Presentations



Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring

Action Level (μg/m3) -Limit Level (μg/m3) -173.4 260

Date	Sampling	Weather	Filter	Filter Weight, g		Elapse Time, hr		Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m³
02-Oct-10	08:00	Fine	201209	2.8680	2.9497	5813.42	5837.42	24.00	1.32	1.32	1.32	1907	43
08-Oct-10	08:00	Cloudy	201240	2.8635	3.0045	5841.43	5865.44	24.01	1.30	1.30	1.30	1878	75
14-Oct-10	08:00	Cloudy	201263	2.8601	2.9669	5868.44	5892.44	24.00	1.31	1.31	1.31	1880	57
20-Oct-10	08:00	Fine	201287	2.8416	3.0344	5895.43	5919.44	24.01	1.30	1.30	1.30	1873	103
26-Oct-10	08:00	Cloudy	201374	2.7695	2.8737	5922.44	5946.44	24.00	1.31	1.32	1.31	1890	55

Report on 1-hour TSP monitoring Action Level (µg/m3) -325.1 500

Limit Level (µg/m3) -

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Sep-10	09:55	Sunny	201212	2.8791	2.8830	5810.42	5811.42	1.00	1.49	1.49	1.49	89	44
28-Sep-10	10:55	Sunny	201214	2.8630	2.8682	5812.42	5813.42	1.00	1.82	1.82	1.82	109	48
28-Sep-10	14:00	Sunny	201210	2.8693	2.8751	5813.42	5814.42	1.00	1.49	1.49	1.49	89	65
04-Oct-10	09:00	Cloudy	201232	2.8561	2.8635	5837.42	5838.46	1.04	1.31	1.31	1.31	81	91
04-Oct-10	11:05	Cloudy	201229	2.8569	2.8641	5839.43	5840.43	1.00	1.35	1.35	1.35	81	89
04-Oct-10	13:00	Cloudy	201238	2.8588	2.8665	5840.43	5841.43	1.00	1.35	1.35	1.35	81	95
09-Oct-10	09:50	Cloudy	201273	2.8619	2.8662	5865.44	5866.44	1.00	1.30	1.30	1.30	78	55
09-Oct-10	10:55	Cloudy	201275	2.8586	2.8640	5866.44	5867.44	1.00	1.30	1.30	1.30	78	69
09-Oct-10	13:00	Cloudy	201276	2.8554	2.8605	5867.44	5868.44	1.00	1.30	1.30	1.30	78	65
15-Oct-10	08:30	Cloudy	201255	2.8661	2.8672	5892.44	5893.43	0.99	1.31	1.31	1.31	78	14
15-Oct-10	09:39	Cloudy	201256	2.8602	2.8617	5893.43	5894.43	1.00	1.31	1.31	1.31	78	19
15-Oct-10	13:00	Cloudy	201283	2.8342	2.8377	5894.43	5895.43	1.00	1.31	1.31	1.31	78	45
21-Oct-10	08:38	Fine	201277	2.8503	2.8563	5919.44	5920.44	1.00	1.35	1.35	1.35	81	74
21-Oct-10	09:47	Fine	201356	2.7833	2.7885	5920.44	5921.44	1.00	1.32	1.32	1.32	79	65
21-Oct-10	10:53	Fine	201362	2.7690	2.7743	5921.44	5922.44	1.00	1.25	1.25	1.25	75	71
27-Oct-10	08:32	Cloudy	201347	2.8011	2.8082	5946.44	5947.44	1.00	1.36	1.36	1.36	82	87
27-Oct-10	09:47	Cloudy	201345	2.7913	2.7965	5947.44	5948.44	1.00	1.36	1.36	1.36	82	64
27-Oct-10	13:00	Cloudy	201342	2.7955	2.7997	5948.44	5949.44	1.00	1.22	1.22	1.22	73	58



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring Action Level (µg/m3) - 173.4 173.4 Limit Level (µg/m3) -260

Date	Sampling	Weather	Filter	Filter Weight, g		Elapse Time, hr		Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
02-Oct-10	08:00	Fine	201188	2.8746	2.9759	8955.81	8979.80	23.99	1.30	1.31	1.31	1880	54
08-Oct-10	08:00	Cloudy	201247	2.8686	3.0500	8982.80	9006.81	24.01	1.52	1.52	1.52	2194	83
14-Oct-10	08:00	Cloudy	2012690	2.8689	2.9572	9009.81	9033.81	24.00	1.33	1.38	1.36	1954	45
20-Oct-10	08:00	Fine	201294	2.8454	3.0415	9036.81	9060.81	24.00	1.33	1.36	1.34	1933	101
26-Oct-10	08:00	Cloudy	201366	2.7630	2.8590	9063.81	9087.81	24.00	1.24	1.25	1.24	1790	54

Report on 1-hour TSP monitoringAction Level (μg/m3) -325.Limit Level (μg/m3) -500

325.1

Date	Sampling	Weather	Filter	Filter Weig	nt, g	Elapse Time	, hr	Sampling	Flo	w Rate, m³/	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g/m ³
28-Sep-10	09:50	Sunny	201215	2.8710	2.8764	8952.81	8953.81	1.00	1.33	1.33	1.33	80	68
28-Sep-10	10:50	Sunny	201213	2.8775	2.8832	8953.81	8954.81	1.00	1.28	1.28	1.28	77	74
28-Sep-10	13:00	Sunny	201208	2.8664	2.8722	8954.81	8955.81	1.00	1.33	1.33	1.33	80	73
04-Oct-10	09:15	Cloudy	201233	2.8587	2.8665	8979.81	8980.80	0.99	1.38	1.38	1.38	82	95
04-Oct-10	10:20	Cloudy	201235	2.8576	2.8674	8980.80	8981.80	1.00	1.48	1.48	1.48	89	111
04-Oct-10	11:30	Cloiudy	201239	2.8557	2.8654	8981.80	8982.80	1.00	1.48	1.47	1.47	88	110
09-Oct-10	10:00	Cloudy	201280	2.8551	2.8605	9006.81	9007.81	1.00	1.26	1.26	1.26	76	72
09-Oct-10	11:00	Cloudy	201274	2.8596	2.8670	9007.81	9008.81	1.00	1.28	1.28	1.28	77	96
09-Oct-10	13:00	Cloudy	201278	2.8533	2.8600	9008.81	9009.81	1.00	1.33	1.33	1.33	80	84
15-Oct-10	08:36	Cloudy	201282	2.8453	2.8494	9033.81	9034.81	1.00	1.33	1.33	1.33	80	51
15-Oct-10	09:44	Cloudy	201289	2.8481	2.8527	9035.81	9036.81	1.00	1.33	1.33	1.33	80	58
15-Oct-10	13:20	Cloudy	201281	2.8454	2.8498	9035.81	9036.81	1.00	1.31	1.31	1.31	79	56
21-Oct-10	08:50	Fine	201279	2.8549	2.8607	9060.81	9061.81	1.00	1.37	1.37	1.37	82	70
21-Oct-10	09:55	Fine	201358	2.7835	2.7892	9061.81	9062.81	1.00	1.30	1.30	1.30	78	73
21-Oct-10	13:00	Fine	201368	2.7783	2.7841	9062.81	9063.81	1.00	1.28	1.28	1.28	77	76
27-Oct-10	08:48	Cloudy	201346	2.7923	2.7984	9087.81	9088.81	1.00	1.32	1.32	1.32	79	77
27-Oct-10	09:53	Cloudy	201344	2.7877	2.7936	9088.81	9089.81	1.00	1.34	1.34	1.34	81	73
27-Oct-10	13:00	Cloudy	201341	2.7860	2.7910	9089.81	9090.81	1.00	1.32	1.32	1.32	79	63

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 169.5 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter paper Filter Weight, g E		Elapse Time	Elapse Time, hr		Flo	ow Rate, m ³ /	min	Total	TSP Level,	
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m³
08-Oct-10	08:00	Cloudy	201242	2.8618	3.0072	12723.12	12747.12	24.00	1.42	1.42	1.42	2041	71
14-Oct-10	08:00	Cloudy	201254	2.8669	3.0138	12750.12	12774.12	24.00	1.44	1.44	1.44	2074	71
20-Oct-10	08:00	Fine	201302	2.7938	3.0439	12777.12	12801.12	24.00	1.41	1.41	1.41	2037	123
26-Oct-10	08:00	Cloudy	201375	2.7728	2.9103	12802.99	12826.99	24.00	1.46	1.47	1.47	2112	65

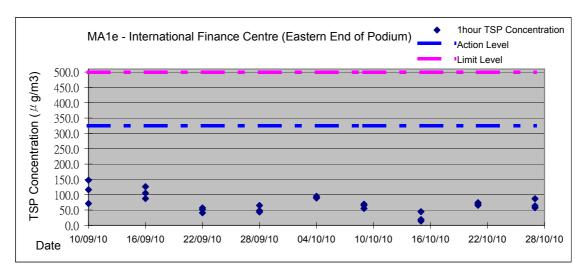
Report on 1-hour TSP monitoring Action Level (µg/m3) - 323.4

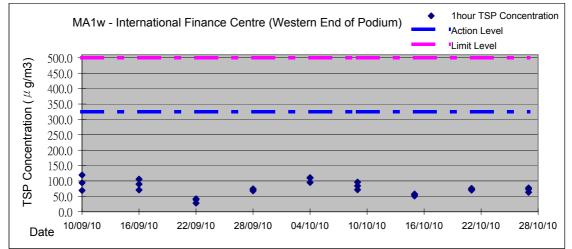
Limit Level (µg/m3) - 500

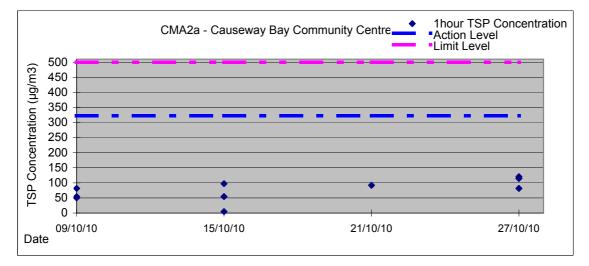
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flow Rate, m ³ /min		min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m ³
09-Oct-10	08:30	Cloudy	201266	2.8693	2.8740	12747.20	12748.20	1.00	1.44	1.44	1.44	86	54
09-Oct-10	09:33	Cloudy	201269	2.8681	2.8725	12748.12	12749.12	1.00	1.46	1.46	1.46	88	50
09-Oct-10	10:40	Cloudy	201268	2.8766	2.8837	12749.12	12750.12	1.00	1.44	1.46	1.45	87	82
15-Oct-10	09:20	Cloudy	201252	2.8656	2.8660	12774.12	12775.12	1.00	1.42	1.42	1.42	85	5
15-Oct-10	10:25	Cloudy	201248	2.8577	2.8660	12775.12	12776.12	1.00	1.42	1.42	1.42	85	97
15-Oct-10	13:00	Cloudy	201300	2.8432	2.8480	12776.12	12777.12	1.00	1.46	1.46	1.46	88	55
21-Oct-10	09:10	Fine	201385	2.7609	2.7687	12801.12	12802.12	1.00	1.41	1.41	1.41	85	92
27-Oct-10	09:55	Cloudy	201350	2.7922	2.8023	12826.99	12827.99	1.00	1.47	1.47	1.47	88	115
27-Oct-10	11:05	Cloudy	201355	2.7871	2.7942	12827.99	12828.99	1.00	1.45	1.45	1.45	87	82
27-Oct-10	13:00	Cloudy	201339	2.7905	2.8008	12828.99	12829.99	1.00	1.43	1.43	1.43	86	120



Graphic Presentation of 1 hour TSP Result

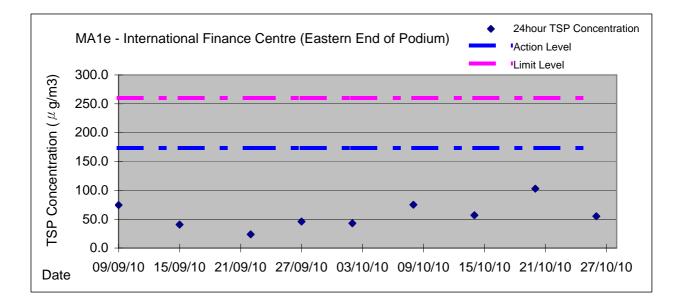


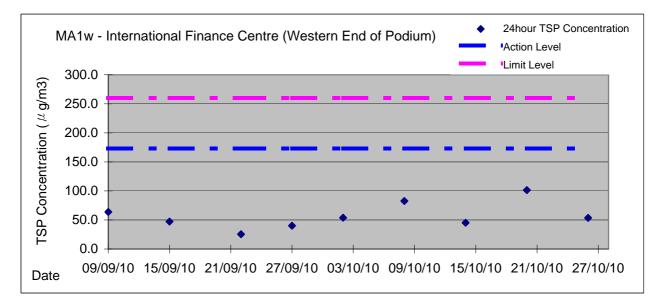


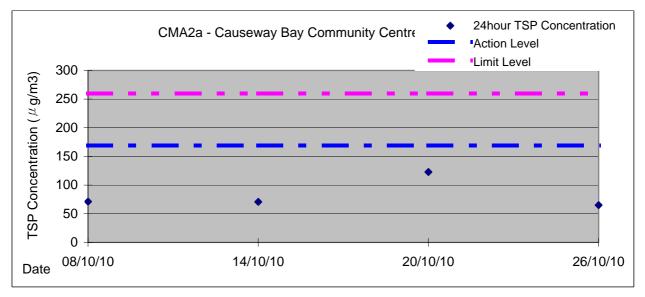




Graphic Presentation of 24 hour TSP Result









Appendix 5.4 Real Time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data	RTN	1 (FEHD Hong Kong Tra	ansport Se	ection Whitefield Depot)							
Normal Day 07:00-19:00		09/10/2010 13:31:47		15/10/2010 08:31:47	65.8	21/10/2010 15:31:47	68.5	27/10/2010 10:31:47	67.7	06/10/2010 22:31:47	62.3
05/10/2010 07:01:47	69.6 62.4	09/10/2010 14:01:47 09/10/2010 14:31:47	71.8	15/10/2010 09:01:47 15/10/2010 09:31:47		21/10/2010 16:01:47 21/10/2010 16:31:47		27/10/2010 11:01:47 27/10/2010 11:31:47	67.5 71.2	06/10/2010 22:36:47 06/10/2010 22:41:47	61.6 62.6
05/10/2010 07:31:47 05/10/2010 08:01:47	62.4 64.4	09/10/2010 14:31:47	71.8 71.9	15/10/2010 10:01:47	68.1	21/10/2010 17:01:47		27/10/2010 12:01:47	71.2	06/10/2010 22:46:47	61.9
05/10/2010 08:31:47	64.7	09/10/2010 15:31:47 09/10/2010 16:01:47	71.6	15/10/2010 10:31:47		21/10/2010 17:31:47		27/10/2010 12:31:47		06/10/2010 22:51:47 06/10/2010 22:56:47	61.6
05/10/2010 09:01:47 05/10/2010 09:31:47	64.1 64.2		71.8 71.7	15/10/2010 11:01:47 15/10/2010 11:31:47		21/10/2010 18:01:47 21/10/2010 18:31:47		27/10/2010 13:01:47 27/10/2010 13:31:47		07/10/2010 19:01:47	61.7 71.9
05/10/2010 10:01:47		09/10/2010 17:01:47	71.5			22/10/2010 07:01:47		27/10/2010 14:01:47		07/10/2010 19:06:47	71.8
05/10/2010 10:31:47 05/10/2010 11:01:47	74.4 70.4	09/10/2010 17:31:47 09/10/2010 18:01:47	71.5 71.8	15/10/2010 12:31:47 15/10/2010 13:01:47	66.4 68.9	22/10/2010 07:31:47 22/10/2010 08:01:47	55.5 68.6	27/10/2010 14:31:47 27/10/2010 15:01:47	72.3 72.2	07/10/2010 19:11:47 07/10/2010 19:16:47	71.8 71.7
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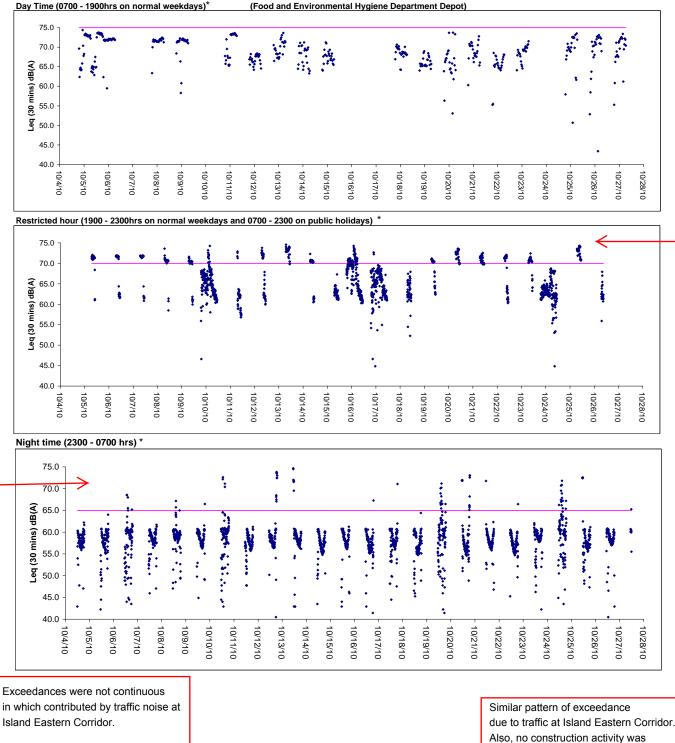
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Real-time Noise Data 23/10/2010 23:31:47	<u>RTN</u> 59.9	1 (FEHD Hong Kong Tra 25/10/2010 00:41:47		ection Whitefield Depot) 26/10/2010 01:51:47	58 7	27/10/2010 03:01:47	57.9
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24/10/2010 00:16:47	53.0	25/10/2010 01:26:47	57.0	26/10/2010 02:36:47		27/10/2010 03:46:47	57.5
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24/10/2010 00:46:47	54.4	25/10/2010 01:56:47	64.0	26/10/2010 03:06:47		27/10/2010 04:16:47	57.6
24/10/2010 00:51:47	56.1	25/10/2010 02:01:47	63.7	26/10/2010 03:11:47	56.5	27/10/2010 04:21:47	57.1
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24/10/2010 06:31:47	60.1	25/10/2010 23:41:47		27/10/2010 00:51:47	46.5		
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24/10/2010 06:51:47 24/10/2010 06:56:47	53.9 55.3	26/10/2010 00:01:47 26/10/2010 00:06:47	53.1 51.0	27/10/2010 01:11:47 27/10/2010 01:16:47	59.8 59.7		
24/10/2010 23:01:47	44.9	26/10/2010 00:11:47	56.6	27/10/2010 01:21:47	59.6		
24/10/2010 23:06:47	52.3			27/10/2010 01:26:47	59.3		
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24/10/2010 23:26:47 24/10/2010 23:31:47	60.7 37.4	26/10/2010 00:36:47 26/10/2010 00:41:47	55.3 55.2	27/10/2010 01:46:47 27/10/2010 01:51:47	59.3 58.1		
24/10/2010 23:36:47	50.5	26/10/2010 00:46:47	60.4	27/10/2010 01:56:47	58.7		
24/10/2010 23:41:47 24/10/2010 23:46:47	66.2 58.1	26/10/2010 00:51:47 26/10/2010 00:56:47		27/10/2010 02:01:47 27/10/2010 02:06:47	59.6 58.2		
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24/10/2010 23:56:47	60.4	26/10/2010 01:06:47		27/10/2010 02:16:47	59.6		
25/10/2010 00:01:47 25/10/2010 00:06:47	61.2 61.3		51.3 60.1	27/10/2010 02:21:47 27/10/2010 02:26:47	58.4 57.7		
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25/10/2010 00:16:47 25/10/2010 00:21:47	62.7 62.1	26/10/2010 01:26:47 26/10/2010 01:31:47		27/10/2010 02:36:47 27/10/2010 02:41:47	59.1 59.0		
25/10/2010 00:26:47	61.5	26/10/2010 01:36:47	58.7	27/10/2010 02:46:47	58.1		
25/10/2010 00:31:47 25/10/2010 00:36:47	60.7	26/10/2010 01:41:47	53.6	27/10/2010 02:51:47	57.9		
20/10/2010 00:36:47	00.6	26/10/2010 01:46:47	59.2	27/10/2010 02:56:47	58.4	1	



commenced in this period.



Graphic Presentation of Real Time Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)*
(Food and Environmental

*The construction noise levels shown were already corrected with baseline noise



Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT		A	CTION	
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)



EVENT		AC	CTION	
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Event / Action Plan for Construction Air Quality

EVENT		ACTION							
	ET	IEC	ER	CONTRACTOR					
ACTION LEVEL									
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified) 	Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	 Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 					
2. Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 					
LIMIT LEVEL									
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 					
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC 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. (The above actions should be taken within 2 working days after the exceedance is identified) 					



Appendix 9.1

Complaint Log



Environmental Complaints Log

No environmental complaint was received in the reporting month.

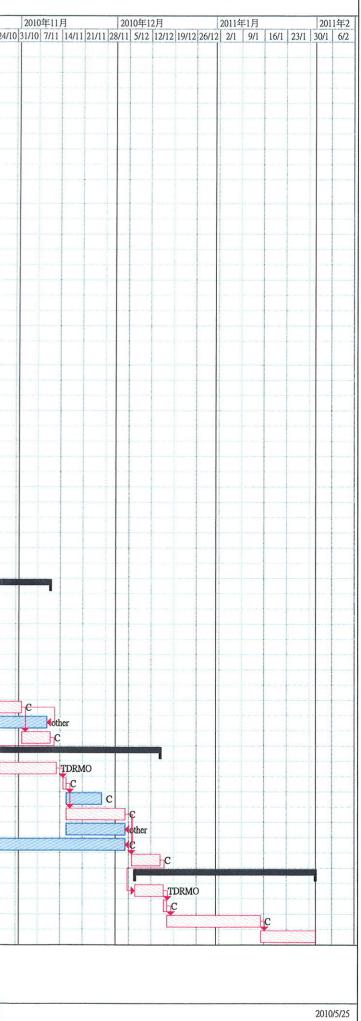
Complaint Log No.	Date of Complaint	Received From and Received By		Nature of Complaint	Outcome	Status
-	-	-	-	-		-



Appendix 10.1

Construction Programme of Individual Contracts

識別碼		CONSTRUCTION & TRANSPORTATION CO. LTD.		BELLATOR	Cochiter Later Later	the last to dat	
叫、力力型	0	1 ask Ivallic	工期	開始時間	完成時間 前置任務		SFJ 2010年6月 2010年7月 2010年8月 2010年9月 2010年10月 9/5 16/5 23/5 30/5 6/6 13/6 20/6 27/6 4/7 11/7 18/7 25/7 1/8 8/8 15/8 22/8 29/8 5/9 12/9 19/9 26/9 3/10 10/10 17/10
1		Planning & Approval	33 days	2010/5/18	2010/6/24		
2		Planning of new bus terminus scheme	28 days	2010/5/18	2010/6/24	H,A,C	H,A,C
3		Approval of scheme	0 days	2010/6/24	2010/6/24 2	TD	
4	H.	Setting out data of final scheme	7 days	2010/5/18	2010/5/26	H,A	HA HA
5		Construction Works - Stage 1	114 days	2010/5/21	2010/9/30		
6		Issue WO#1	0 days	2010/5/21	2010/5/21	H,A	
7	11	Handling over of extg depot	0 days	2010/5/21	2010/5/21 6	H,A	
8	E	Demolish of existing Depot (superstructure)	14 days	2010/5/21	2010/6/9 7	C	
9		Demolish of existing Depot (substructure)	14 days	2010/6/10	2010/6/29 8	С	
10		Convert the site depot area into C/W & Xonstruct F/P for Bay 4 (part 1)	60 days	2010/6/30	2010/9/21 9	C	
11	HE	Fence Off new RCP location	14 days	2010/5/31	2010/6/17	C	
12	=	Relocation of existing RCP	11 days	2010/6/18	2010/7/2 11	С	
13	ET.	XP (SSW) for trial trench	2 days	2010/5/31	2010/6/1	H,A	
14	1	Issue WO#2	0 days	2010/5/25	2010/5/25 15SS-7 days	H,A	
15	ET.	Trial trench to confirm UU (MK,MY)	3 days	2010/6/2	2010/6/4 13	C	
16	1	TTA approval of task 17 t0 25	14 days	2010/6/25	2010/7/14 13,3	C	
17	1	UU meeting & diversion	14 days	2010/7/15	2010/8/3 16	H,A,C	
18		Transplant/fell extg trees	8 days	2010/7/15	2010/7/26 16	C	HAC
19	H	Relocate Koisk of Bus operator	3 days	2010/7/30	2010/8/3 17FF	other	
20	1	Convert extg F/P to C/W along Man Kwong St & Yiu St	35 days	2010/8/4	2010/9/21 17,18	C	tother
		(stage 1B)	00 days	2010/0/4	2010/0/21 1/,10	v	
21	H	Construct New Entrance for Bus Terminus	21 days	2010/8/4	2010/9/1 17	C	
22	H	Transplant/fell extg trees at Bay A	7 days	2010/7/15	2010/7/23 16	C	C
23	H	Removal of Bus Shelter A	14 days	2010/7/15	2010/8/3 16	other	other
24		Relocate gullies	7 days	2010/8/4	2010/8/12 23	С	
25	N.	Convert Extg bus bay A into C/W	21 days	2010/8/13	2010/9/10 24	С	
26	HT.	Allowable flow	8 days	2010/9/22	2010/9/30 25,10,20		
27		Central Reserve of man Kwong St (stage 1C)	123 days	2010/5/24	2010/10/13		
28		Issue W.O.	3 days	2010/5/24	2010/5/26	H,A	
29		XP (SSW) for trial trench	2 days	2010/6/1	2010/6/2 28	H,A	
30		Trial trench to confirm UU	2 days	2010/6/3	2010/6/4 29	C	
31		UU meeting & diversion	16 days	2010/6/7	2010/6/28 30	H,A,C	
32		Tree Transplantation / Removal	74 days	2010/6/3	2010/9/14 29	C	H,A,C
33	H.	Convert verge into C/W	21 days	2010/9/15	2010/10/13 32	c	
34		Cable duct & traffic aids	16 days	2010/9/22	2010/10/13 33FF	C	
35		Stage 2 - New Bus bay 1-3, 4a		2010/6/25		C	
36		Approval of TTA for Stage 2	119 days 14 days	2010/6/25	2010/11/10 2010/7/14 3	TDRMO	
37		Implement TTA	1 day	2010/0/25	2010/7/15 36		TDRMO
38		Relocate St lighting (Bay B-H)				C	
39		Removal of Bus Shelter (B-H)	14 days	2010/7/16	2010/8/4 37	other	rother
40		Tree Transplantation / Removal	14 days	2010/7/16	2010/8/4 37	other	-other
	1771		7 days	2010/7/16	2010/7/26 37	С	C
41		Relocate extg gully pits	21 days	2010/7/16	2010/8/13 37	C	
42		Convert Bus Bay (B-H) into C/W	50 days	2010/8/5	2010/10/13 38,39	C	C
43		Construct New Bus Terminal (Bay 1-3,4a)	56 days	2010/8/16	2010/11/1 41	C	
44		Construct Bus Shelter(1-3, 4a)	45 days	2010/9/8	2010/11/9 43FF+7 days	other	
45	11	Traffic aids & road marking	7 days	2010/11/2	2010/11/10 43	C	
46	percel.	Stage 3 - New Bus bay 4b	44 days	2010/10/25	2010/12/14		
47	111.	Approval of TTA for Stage 3	14 days	2010/10/26	2010/11/12 45FS-14 days	TDRMO	
48	EI.	Implement TTA & relocate Bus stop	1 day	2010/11/15	2010/11/15 47	С	
49		Relocate extg gully pits	9 days	2010/11/16	2010/11/26 48	С	
50		Construct New Bus Terminal (Bay 4b)	14 days	2010/11/16	2010/12/3 48	С	
51	111	Construct Bus Shelter 4b	14 days	2010/11/16	2010/12/3 50FF	other	
52		Cable ducts/pits for signalised Junction	30 days	2010/10/25	2010/12/3 50FF	C	
53	EE.	Traffic aids & road marking	7 days	2010/12/6	2010/12/14 50	С	
54		Stage 4 - New F/P & delinate new site area	48 days	2010/12/7	2011/1/31		
55	E.	Approval of TTA for Stage 4	7 days	2010/12/7	2010/12/15 53FS-7 days	TDRMO	
56		Implement TTA & relocate Bus stop	1 day	2010/12/16	2010/12/16 55	С	
57	111	Construction of new F/P	21 days	2010/12/17	2011/1/14 56	С	
58		Allowable Flow	14 days	2011/1/15	2011/1/31 57		
		ONG ST. J/O MAN YIU ST. BUS TERMINUS RELOCATION	任務		要徑任務進度		■ 上顯型任務 上顯型進度 ■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■
roject:	MAN KW						
ate: 20	10/5/25		任務進度	and the second	里程碑	•	上顯型要徑任務 分割 场型群组
ate: 20	10/5/25	A=AECOM, C=CHIU HING	任務進度 要徑任務		里程碑 摘要		上顕型要徑任務 分割 摘要群組 上顕型里程碑 ◇ 外部任務



Contract no. HY/2009/17 Contract Title : Central - Wan Chai Bypass - FEHD Whitfield Depot Re-provisioning Works <u>Works Schedule for the Advance Piling Works</u>

Duration	START	FINISH			201	10		2011
			July	August	September	October	November December	January
1	16/7/2010	16/7/2010	-					
1	16/7/2010	16/7/2010						
1	16/7/2010	16/7/2010						
1	31/8/2010	31/8/2010			•			
1	31/8/2010	31/8/2010						
			1					
7	24/9/2010	30/9/2010						
70	2/10/2010	10/12/2010						
60	2/10/2010	30/11/2010						
60	12/10/2010	10/12/2010						
70	14/10/2010	22/12/2010	-					
14	23/12/2010	6/1/2011						
	1 1 1 1 1 1 7 70 60 60 60 70	1 16/7/2010 1 16/7/2010 1 16/7/2010 1 16/7/2010 1 31/8/2010 1 31/8/2010 7 24/9/2010 70 2/10/2010 60 12/10/2010 70 14/10/2010	1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 31/8/2010 31/8/2010 1 31/8/2010 31/8/2010 1 31/8/2010 30/9/2010 7 24/9/2010 30/9/2010 70 2/10/2010 10/12/2010 60 12/10/2010 30/11/2010 70 14/10/2010 22/12/2010	July 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 31/8/2010 31/8/2010 1 31/8/2010 31/8/2010 1 31/8/2010 30/9/2010 7 24/9/2010 30/9/2010 70 2/10/2010 10/12/2010 60 12/10/2010 10/12/2010 70 14/10/2010 22/12/2010	July August 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 31/8/2010 31/8/2010 1 31/8/2010 31/8/2010 1 31/8/2010 30/9/2010 7 24/9/2010 30/9/2010 70 2/10/2010 10/12/2010 60 12/10/2010 10/12/2010 70 14/10/2010 22/12/2010	July August September 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 16/7/2010 16/7/2010 1 31/8/2010 31/8/2010 1 31/8/2010 31/8/2010 1 31/8/2010 31/8/2010 7 24/9/2010 30/9/2010 60 2/10/2010 10/12/2010 60 12/10/2010 10/12/2010 70 14/10/2010 22/12/2010	July August September October 1 16/7/2010 16/7/2010 <	July August September October November December 1 16/7/2010 10/12/2010 <t< td=""></t<>