

## **EXECUTIVE SUMMARY**

### **Introduction**

1. This is the 27<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Contract No. KLN/2010/04 - Environmental Monitoring Works for Kai Tak Development” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in March 2013.
2. During the reporting month, the following works contracts were undertaken within Kai Tak Site:
  - KL/2009/01 - Site Formation for Kai Tak Cruise Terminal
  - KL/2008/09 - Stage 1 Infrastructure works at North Apron
  - KL/2008/07 - Stage 1 Advance Infrastructure Works
  - DC/2008/12 - Sewage Interception Scheme in Kowloon City
  - DC/2010/03 - Kai Tak Nullah Improvement Works at Prince Edward Road East
  - DC/2009/21 - Provision of Interception Facilities at Jordan Valley Box Culvert
  - 20090097 - Public Rental Housing Development at Kai Tak Site 1A
  - 20090006 - Public Rental Housing Development at Kai Tak Site 1B
  - 3/WSD/08, 6/WSD/08, 7/WSD/08 & 8/WSD/08 - Replacement and Rehabilitation of Water Mains Stages 2 & 3
  - SS W 303 - Kai Tak Cruise Terminal Building and Ancillary Facilities
  - CKL-KCT circuit 1&2 - CLPP (132kV cable installation)
  - 1016EM10 - Chilled Water Pipe Laying Works at North Apron Area for District Cooling System at Kai Tak Development
  - 1017EM10 - Design-Build-Operate a District Cooling System (Phase II Works) at Kai Tak Development
  - KL/2010/02 - Kai Tak Development – Kai Tak Approach Channel and Kwun Tong Typhoon Shelter Improvement Works (Phase 1)
  - KL/2010/03 - Kai Tak Development – Stage 2 Infrastructure Works at North Apron Area of Kai Tak Airport for Residential Development and Government Facilities)
  - 1049EM10 - Kai Tak Cruise Terminal Development – On-shore Sewage Collection, On-shore Fresh Water Supply, and Fire Hydrant Water Supply Systems
  - 1050EM10 - Design and Build of Seaport Passenger Boarding Bridges for the Kai Tak Cruise Terminal
  - 1140EM11M - Advance Works for the Apron Lighting System of the Kai Tak Cruise Terminal
  - DC/2011/04 - Reconstruction, Improvement and Rehabilitation of Kai Tak

River from Wong Tai Sin Police Station to Tung Tau

- SS W304 – Design and Construction of Trade and Industry Tower in Kai Tak Development Area
- 1048EM12M - Supply and Installation of Apron Low Voltage Power Supply Systems for the Kai Tak Cruise Terminal
- SSA504 - Runway Park at Kai Tak, Kowloon City District - Phase 1
- 1119EM12M – Apron Lighting System for Kai Tak Cruise Terminal
- 1108A – Kai Tak Barging Point Facilities
- 1109 – Sha Tin to Central Link: Ma Tau Wai and To Kwa Wan Stations and Tunnels
- New Kowloon Inland Lot No. 6515 – Kai Tak Flat-For-Flat Development
- KL/2011/01 - Kai Tak Development –Reconstruction and Upgrading of Kai Tak Nullah

3. Stockpiling of excavated & construction materials, storage of equipment, operation of concrete batching plant, business in the recovery and recycling and car parks, etc are the major activities for short term tenancy (STT) / temporary government land allocation (TGLA).

#### **Environmental Monitoring Works**

4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual approved by Environmental Protection Department and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
5. Summary of the non-compliance in the reporting month for the Project is tabulated in Table 1.

**Table 1 Non-compliance Record for the Project in the Reporting Month**

<b>Parameter</b>	<b>No. of Exceedance Action Level</b>	<b>No. of Exceedance Limit Level</b>	<b>Action Taken</b>
1-hr TSP	0	0	N/A
24-hr TSP	0	0	N/A
Noise	0	0	N/A

#### *1-hour & 24-hour TSP Monitoring*

6. All 1-hour TSP monitoring was conducted as scheduled in the reporting month except at Station AM1(A) – Kai Tak Operational Base (KTOB). 1-hour TSP monitoring on

14, 26 and 28 March 2013 at Station AM1(A) was conducted near the entrance of KTOB due to inaccessibility to KTOB while the monitoring on 20 March 2013 was conducted on the roof of KTOB (i.e. the original location) with the assistance provided from the premise user. No Action/Limit Level exceedance was recorded.

7. All 24-hour TSP monitoring was conducted as scheduled in the reporting month except at Station AM1(A) – Kai Tak Operational Base (KTOB). 24-hour TSP monitoring on 16, 22 and 28 March 2013 at Station AM1(A) was not conducted due to inaccessibility to the monitoring equipment installed at the rooftop of KTOB. No Action/Limit Level exceedance was recorded.
8. The air quality monitoring results in March 2013 are presented in Table 2.

**Table 2 Air Quality Monitoring Results in March 2013**

<b>Monitoring Station</b>	<b>Description</b>	<b>1-hour TSP (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>24-hour TSP (<math>\mu\text{g}/\text{m}^3</math>)</b>
AM1(A)	Kai Tak Operational Base	65.7-281.9	136.2-145.7
AM2	Lee Kau Yan Memorial School	59.3-281.9	84.1-136.4
AM3(A)	Holy Trinity Bradbury Centre	97.9-283.7	97.5-150.1
AM4(A)	EMSD Workshop	129.1-270.6	46.9-90.4
AM5(A)	Po Leung Kuk Ngan Po Ling College	113.4-304.4	29.8-50.9

Note: The 1-hour and 24-hour TSP limit levels are 500 and 260  $\mu\text{g}/\text{m}^3$  respectively.

*Construction Noise*

9. All construction noise monitoring was conducted as scheduled in the reporting month except at Station M4(A) – Kai Tak Operational Base (KTOB). Noise monitoring on 26 March 2013 at Station M4(A) was conducted near the entrance of KTOB due to inaccessibility to KTOB. No Action/Limit Level exceedance was recorded.
10. The noise monitoring results in March 2013 are presented in Table 3.

**Table 3 Noise Monitoring Results in March 2013**

<b>Monitoring Station</b>	<b>Description</b>	<b>Allowable Noise Level <math>L_{eq}</math> (30min) dB (A)</b>	<b>Noise Level <math>L_{eq}</math> (30min) dB (A)</b>
M1	Buddhist Chi King Primary School	70	58.5-69.1
M2	SKH Kowloon Bay Kei Lok Primary School	70	62.4-69.9
M3	Rhythm Garden	76.3	66.3-73.7
M4(A)	Kai Tak Operational Base	75	55.6-72.9
M5	Lee Kau Yan Memorial School	76.7	65.5-72.1
M6(A)	Kowloon City District KaiFong Association	75	64.6-65.5
M7	Holy Carpenter Primary School	70	54.8-66.2
M8	CCC Kei To Secondary School	70	62.0-66.9
M9	Po Leung Kuk Ngan Po Ling College	70	60.3-56.5

**Key Information in the Reporting Month**

11. Summary of key information in the reporting month is tabulated in Table 4.

**Table 4 Summary Table for Key Information in the Reporting Month**

<b>Event</b>	<b>Number of Events Happened</b>	<b>Nature of the Event</b>	<b>Action Taken</b>	<b>Status</b>	<b>Remark</b>
Complaint received	0	---	N/A	N/A	---
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

**Future Key Issues**

12. The future key environmental issues in the coming month include:

- Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
- Watering for dust generating activity and on haul road;
- Proper storage of construction materials on site;
- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Accumulation of general and construction waste on site;
- Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
- Runoff from exposed slope;
- Wastewater and runoff discharge from site;
- Regular removal of silt, mud and sand along u-channels and sedimentation tanks; and
- Review and implementation of temporary drainage system for the surface runoff.

THE FULL VERSION EM&A REPORT FOR MARCH 2013 CAN BE VIEWED  
FROM THE ARCHIVED REPORT