

## **EXECUTIVE SUMMARY**

### **Introduction**

1. This is the 36<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 December 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
  - 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
  - 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
  - CKL-KCT circuit 1&2 - CLPP (132kV cable installation)
  - 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)
  - 1050EM10 - Design and Build of Seaport Passenger Boarding Bridges for 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
  - 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

- SS A501 - Design and Construction of Centre of Excellence in Paediatrics
  - KL/2012/02 - Kai Tak Development – Stage 3A Infrastructure at Former North Apron Area
  - KL/2012/03 - Kai Tak Development – Stage 4 Infrastructure at Former North Apron Area
  - 1108 - Kai Tak Station and Associated Tunnels
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. No Action/Limit Level exceedance was recorded.
7. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
8. The air quality monitoring results in December 2013 are presented in Table 2.

**Table 2 Air Quality Monitoring Results in December 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(B)	Outside Arup site office (KL/2008/09)	119.0 – 329.4	68.2 – 137.3
AM2	Lee Kau Yan Memorial School	55.0 – 292.1	72.3 – 141.9
AM3(A)	Holy Trinity Bradbury Centre	70.9 – 292.6	75.3 – 131.0
AM4(A)	EMSD Workshop	81.4 – 323.2	76.7 – 150.7
AM5(A)	Po Leung Kuk Ngan Po Ling College	62.9 – 327.3	50.9 – 107.6

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

*Construction Noise*

9. Construction noise monitoring at Station M2 – S.K.H. Kowloon Bay Kei Lok Primary School and Station M4 – Cognitio College on 17 December 2013 were cancelled due to raining during monitoring. The monitoring works were rescheduled to 20 December 2013. Other noise monitoring was conducted as scheduled in the reporting month.
10. No Action Level exceedance was recorded while non-project related Limit Level exceedance at Station M4 – Cognitio College was recorded on 23 December 2013.
11. The noise monitoring results in December 2013 are presented in Table 3.

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

Monitoring Station	Description	Allowable Noise Level $L_{eq}$ (30min) dB (A)	Noise Level $L_{eq}$ (30min) dB (A)
M1	Buddhist Chi King Primary School	70	58.0
M2	SKH Kowloon Bay Kei Lok Primary School	70	66.0 – 68.3
M3	Rhythm Garden	76.3	63.0
M4	Cognitio College	79.5	66.2 – 74.5
M5	Lee Kau Yan Memorial School	76.7	68.4
M6(A)	Kowloon City District KaiFong Association	75	57.2 – 72.0
M7	Holy Carpenter Primary School	70	59.7 – 63.0
M8	CCC Kei To Secondary School	70	60.1 – 67.2
M9	Po Leung Kuk Ngan Po Ling College	70	53.6 – 69.2

**Key Information in the Reporting Month**

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

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

Event	Number of Events Happened	Nature of the Event	Action Taken	Status	Remark
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**

13. 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 DECEMBER 2013 CAN BE VIEWED  
FROM THE ARCHIVED REPORT