

## **EXECUTIVE SUMMARY**

### **Introduction**

1. This is the 5th Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Contract No. KLN/2013/16 - Environmental Monitoring Works for Kai Tak Development” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in July 2014.
2. During the reporting month, the following works contracts were undertaken within Kai Tak Site:
  - 1017EM10 - Design-Build-Operate a District Cooling System (Phase II Works) at Kai Tak Development
  - 1020EM12A - District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package A)-Chilled Water Pipe Laying Works
  - 1107 - MTR Shatin to Central Link: Diamond Hill to Kai Tak Tunnels
  - 1108 - MTR Shatin to Central Link: Kai Tak Station and Associated Tunnels
  - 1108A - MTR Shatin to Central Link: Kai Tak Barging Point Facilities
  - 1109 - MTR Shatin to Central Link: Ma Tau Wai and To Kwa Wan Stations and Tunnels
  - 20130225 - Foundation for Public Rental Housing Development at Ex-Kwai Chung Police Married Quarters (Kai Tak 1G1(B) Site)
  - 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)
  - CV/2013/02 - Dredging at Kai Tak Cruise Terminal Stage 2
  - DC/2010/03 - Kai Tak Nullah Improvement Works at Prince Edward Road East
  - DC/2011/04 - Reconstruction, Improvement and Rehabilitation of Kai Tak River from Wong Tai Sin Police Station to Tung Tau
  - 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)
  - KL/2011/01 - Kai Tak Development –Reconstruction and Upgrading of Kai Tak Nullah
  - 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
  - New Kowloon Inland Lot No. 6515 - Kai Tak Flat-For-Flat Development
  - New Kowloon Inland Lot No. 6516 & 6517 - Proposed Residential Development
  - SS A501 - Design and Construction of Centre of Excellence in Paediatrics
  - SS B507 - Construction of Two 30-classroom Primary Schools at Site 1A-3 and Site 1A-4, Kai Tak Development

- SS W304 – Design and Construction of Trade and Industry Tower in Kai Tak Development Area
3. Stockpiling of excavated & construction materials, storage of equipments, 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**

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
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 July 2014 are presented in Table 2.

**Table 2 Air Quality Monitoring Results in July 2014 Monitoring Station**

Monitoring Station	Description	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )	24-hour TSP ( $\mu\text{g}/\text{m}^3$ )
AM1(B)	Outside Arup site office (KL/2008/09)	57 (25.2-139.9)	54 (26.7-67.6)
AM2	Lee Kau Yan Memorial School	49 (34.8-72.3)	43 (32.8-50.5)
AM3(A)	Holy Trinity Bradbury Centre	72 (32.7-182.9)	43 (29.8-67.0)
AM4(A)	EMSD Workshop	60 (41.6-98.7)	48 (31.4-90.4)
AM5(A)	Po Leung Kuk Ngan Po Ling College	72 (34.4-167.3)	27 (13.0-46.0)
AA1	Ching Long Shopping Centre	97 (62.5-193.3)	37 (12.6-56.5)
AA2	Tak Long Estate	98 (62.4-170.1)	41 (17.0-61.6)

**Construction Noise**

9. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
10. The noise monitoring results in July 2014 are presented in Table 3.

**Table 3 Noise Monitoring Results in July 2014 Monitoring Station**

Monitoring Station	Description	Allowable Noise Level Leq (30min) dB (A)	Noise Level Leq (30min) dB (A)
M1	Buddhist Chi King Primary School	70	53-65
M2	SKH Kowloon Bay Kei Lok Primary School	70	60-68
M3	Rhythm Garden	76.3	70-75
M4	Cognitio College	70	68-78
M5	Lee Kau Yan Memorial School	76.7	71-75
M6(A)	Kowloon City District KaiFong Association	75	59-70
M7	Holy Carpenter Primary School	70	60-66
M8	CCC Kei To Secondary School	70	61-64
M9	Po Leung Kuk Ngan Po Ling College	70	55-57

Monitoring Station	Description	Allowable Noise Level Leq (30min) dB (A)	Noise Level Leq (30min) dB (A)
M10	Tak Long Estate	70	64-66
MA1	Ching Long Shopping Centre	75	62-71

### 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**

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	1	Failure of using CHIT system for waste disposal in the period 22 January 2014 to 6 February 2014.	Formal explanation letter was issued to EPD and precautionary measures had been implemented.	Schedule for Court hearing	Contract No. 1017EM10

### 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 JULY 2014 CAN BE VIEWED FROM THE ARCHIVED REPORT