

## EXECUTIVE SUMMARY

### Introduction

1. This is the 34<sup>th</sup> 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 December 2016.
  
2. During the reporting month, the following works contracts were undertaken within Kai Tak Site:
  - 1020EM12A - District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package A)-Chilled Water Pipe Laying Works
  - 2477EM14A - District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package B)-Water Pipe Laying Works
  - 2487EM14W - District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package B)-Electrical and Mechanical Installation
  - 1107 - MTR Shatin to Central Link: Diamond Hill to Kai Tak Tunnels
  - 1108 - MTR Shatin to Central Link: Kai Tak Station and Associated Tunnels
  - 1109 - MTR Shatin to Central Link: Ma Tau Wai and To Kwa Wan Stations and Tunnels
  - 1123 - MTR Shatin to Central Link: Exhibition Station and Western Approach Tunnel
  - 20150362 - Construction of Home Ownership Scheme at Kai Tak Site 1G1(B)
  - 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)
  - DC/2011/04 - Reconstruction, Improvement and Rehabilitation of Kai Tak River from Wong Tai Sin Police Station to Tung Tau
  - 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
  - KL/2014/01 - Kai Tak Development - Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway
  - KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway
  - KL/2015/02 - Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area
  - New Kowloon Inland Lot No. 6516 & 6517 - Proposed Residential Development
  - New Kowloon Inland Lot No. 6525 - Residential Development at Kai Tak Area 1I Site 1
  - New Kowloon Inland Lot No. 6526 - Residential Development at Kai Tak Area 1I Site 2
  - New Kowloon Inland Lot No. 6527 - Residential Development at Kai Tak Area 1I Site 3
  - New Kowloon Inland Lot No. 6541 - Residential Development at Kai Tak Area 1H

- Site 3
    - SS A501 - Design and Construction of Centre of Excellence in Paediatrics
3. Stockpiling of excavated & construction materials, storage of equipments, 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 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

Remark: No complaint concerning construction noise was received in the time period of 0700 – 1900 hrs on normal weekdays.

***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 2016 are presented in Table 2.

**Table 2 Air Quality Monitoring Results in December 2016 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/2012/02)	169 (106 – 278)	72 (42 – 87)
AM2	Lee Kau Yan Memorial School	156 (98 – 219)	70 (46 – 89)

Monitoring Station	Description	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )	24-hour TSP ( $\mu\text{g}/\text{m}^3$ )
AM3(A)	Holy Trinity Bradbury Centre	154 (64 - 227)	70 (46 - 94)
AM4(A)	EMSD Workshop	157 (98 - 240)	62 (38 - 92)
AM5(A)	Po Leung Kuk Ngan Po Ling College	120 (66 - 185)	39 (27 - 56)
AA1	Ching Long Shopping Centre	115 (14 - 234)	57 (38 - 70)
AA2	Tak Long Estate	116 (11 - 261)	72 (36 - 125)

### 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 December 2016 are presented in Table 3.

**Table 3 Noise Monitoring Results in November 2016 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	62 - 64
M2	SKH Kowloon Bay Kei Lok Primary School	70	66 - 68
M3	Rhythm Garden	76.3	69 - 75
M4	Cognitio College	80	61 - 80
M5	Lee Kau Yan Memorial School	76.7	60 - 76
M6(C)*	Mercy Grace's Home	78	66 - 69
M7(A)	Oblate Primary School	70	60 - 63
M8	CCC Kei To Secondary School	70	64 - 68
M9	Po Leung Kuk Ngan Po Ling College	70	59 - 68
M10	Tak Long Estate	75	56 - 60
MA1	Ching Long Shopping Centre	75	59 - 66

\* Remark: Noise monitoring was temporarily conducted at M6(B), HK Deaf People Christian Church and M6(C), Mercy Grace's Home due to rejected access from M6(A) Kowloon City District Kai-Fong Welfare Association

starting from mid-October 2016. The ET subsequently proposed M6(C) as the alternative noise monitoring station for M6(A) in early November 2016. The IEC expressed no further comment on the proposal.

### 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	6	Construction Dust, Construction Noise and Odour	Investigation was conducted by the Contractor	Closed	---
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 DECEMBER 2016 CAN BE VIEWED FROM THE ARCHIVED REPORT