

EXECUTIVE SUMMARY

Introduction

1. This is the 33rd 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 November 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 November 2016 are presented in Table 2.

Table 2 Air Quality Monitoring Results in November 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)	134 (61 – 193)	72 (38 – 105)
AM2	Lee Kau Yan Memorial School	122 (69 – 146)	70 (31 – 104)

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	131 (79 - 177)	74 (37 - 99)
AM4(A)	EMSD Workshop	112 (63 - 153)	54 (31 - 97)
AM5(A)	Po Leung Kuk Ngan Po Ling College	120 (66 - 165)	43 (21 - 61)
AA1	Ching Long Shopping Centre	126 (63 - 207)	58 (24 - 98)
AA2	Tak Long Estate	131 (64 - 181)	85 (60 - 117)

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 November 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	48 - 63
M2	SKH Kowloon Bay Kei Lok Primary School	70	66 - 70
M3	Rhythm Garden	76.3	60 - 76
M4	Cognitio College	77	61 - 76
M5	Lee Kau Yan Memorial School	76.7	69 - 75
M6(C)*	Mercy Grace's Home	78	60 - 72
M7(A)	Oblate Primary School	70	61 - 65
M8	CCC Kei To Secondary School	70	66 - 69
M9	Po Leung Kuk Ngan Po Ling College	70	57 - 69
M10	Tak Long Estate	75	55 - 61
MA1	Ching Long Shopping Centre	75	63 - 65

* 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	1	Construction Dust	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 NOVEMBER 2016 CAN BE VIEWED FROM THE ARCHIVED REPORT