

## **EXECUTIVE SUMMARY**

### **Introduction**

1. This is the 14<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Castco Testing Center Limited (CTCL) “Contract No. KLN/2016/09 - Environmental Monitoring Works for Kai Tak Development” (**hereinafter called “the Project”**). This report documents the findings of EM&A Works conducted in April 2018.
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
  - 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
  - KL/2015/03 – Kai Tak Development – Stage 3B Infrastructure at former North Apron Area
  - 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
  - New Kowloon Inland Lot No. 6562 – Residential Development at Kai Tak Area 1K Site 3
  - New Kowloon Inland Lot No. 6563 – Residential Development at Kai Tak Area 1L Site 1
  - New Kowloon Inland Lot No. 6564 – Residential Development at Kai Tak Area 1L Site 2

- New Kowloon Inland Lot No. 6565 – Residential Development at Kai Tak Area 1L Site 3
  - New Kowloon Inland Lot No. 6566 – Residential Development at Kai Tak Area 1K Site 2
  - New Kowloon Inland Lot No. 6567 – Residential Development at Kai Tak Area 1K Site 1
  - New Kowloon Inland Lot No. 6557 – Commercial Development at Kai Tak Area 1E Site 2
  - SS A501 – Design and Construction of Centre of Excellence in Paediatrics
  - SS E517 – Construction site of 30-classroom secondary school at Site 1A-2, Kai Tak
  - SS C503 – Design and Construction of Kowloon East Regional Headquarters and Operational Base cum Ngan Tau Kok Divisional Police Station at 105 Concorde Road, Kai Tak
  - SD E516 – Demolition of Existing Structures of Sung Wong Toi Vehicle Repair and Maintenance Workshop
  - HY/2014/18 – Provision of Barrier-Free Access Facilities for Highway Structures – Phase 3 Contract 7
  - HY/2014/07 – Central Kowloon Route - Kai Tak West
3. Stockpiling of excavated & construction materials, storage of equipment, 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 I.

**Table I 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 April 2018 are presented in [Figure.1](#).

**Table 2 Air Quality Monitoring Results in April 2018 Monitoring Station**

| Monitoring Station | Description                            | 1-hour TSP ( $\mu\text{g}/\text{m}^3$ ) | 24-hour TSP ( $\mu\text{g}/\text{m}^3$ ) |
|--------------------|--|---|--|
| AM1(C)             | Contractor's Site Office of KL/2015/03 | 126 – 181                               | 102 – 148                                |
| AM2                | Lee Kau Yan Memorial School            | 108 – 149                               | 90 – 129                                 |
| M3(A)              | Holy Trinity Bradbury Centre           | 80 - 131                                | 68 - 140                                 |
| AM4(C)             | NFS Pump Room                          | 70 - 145                                | 87 – 147                                 |
| AM5(B)             | CCC Kei To Secondary School            | 49 – 83                                 | 48 – 102                                 |
| AA1                | Ching Long Shopping Centre             | 82 - 156                                | 93 – 153                                 |
| AA2                | Tak Long Estate                        | 105 - 128                               | 85 - 118                                 |

**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 April 2018 are presented in [Figure.2](#).

**Table 3 Noise Monitoring Results in April 2018 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                                       | 62.7 – 63.5                    |
| M2                 | SKH Kowloon Bay Kei Lok Primary School | 70                                       | 53.7 – 61.2                    |
| M3                 | Rhythm Garden                          | 76.3                                     | 72.1 – 76.1                    |
| M4                 | Cognitio College                       | 80                                       | 67.9 – 78.4                    |
| M5                 | Lee Kau Yan Memorial School            | 76.7                                     | 63.4 – 69.8                    |
| M6(C)              | Mercy Grace's Home                     | 78                                       | 61.8 – 78.9                    |
| M7(A)              | Oblate Primary School                  | 70                                       | 57.5 – 63.7                    |
| M8                 | CCC Kei To Secondary School            | 70                                       | 63.9 – 65.5                    |

|     |                                   |    |             |
|-----|-----------------------------------|----|-------------|
| M9  | Po Leung Kuk Ngan Po Ling College | 70 | 55.5 – 65.5 |
| M10 | Tak Long Estate                   | 75 | 56.7 – 63.0 |
| MA1 | Ching Long Shopping Centre        | 75 | 60.9 – 65.5 |

#### Key Information in the Reporting Month

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

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

| Event  | Event Details |  | Action taken                                  | Status | Remark |
|--|---------------|--|---|--------|--------|
|  | Number        | Nature                                   |   |        |        |
| Complaint received                                   | 4             | Construction Noise and 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.

EM&A REPORT FOR APRIL 2018 (FULL VERSION)

[PDF / HTML](#)