

EXECUTIVE SUMMARY

1. Castco Testing Centre Limited (CTCL) was commissioned by Civil Engineering and Development Department to undertake the role of the Environmental Team for Contract No. KLN/2016/09 – Environmental Monitoring works for Kai Tak Development (The Project).
2. Baseline monitoring was conducted from 5 February 2019 to 18 February 2019 for 14 consecutive days. The baseline monitoring results form the basis for determining the Action and Limit Levels for the impact monitoring during construction phase.

Air quality monitoring

3. Baseline air quality monitoring (24-hr TSP and 1-hr TSP) was conducted at 1 monitoring location (AA4).
4. The recorded baseline air quality results and Action and Limit Levels for 24-hr TSP and 1-hr TSP are summarized in Table 1 and Table 2 respectively.

Table 1 Summary of 24-hour average TSP Monitoring Data and Action and Limit Level

| Air Monitoring Station | Average TSP Concentration, $\mu\text{g}/\text{m}^3$ | Range, $\mu\text{g}/\text{m}^3$ | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|------------------------|---|---------------------------------|--|---------------------------------------|
| AA4 | 60 | 15 – 130 | 169 | 260 |

Table 2 Summary of 1-hour average TSP Monitoring Data and Action and Limit Level

| Air Monitoring Station | Average TSP Concentration, $\mu\text{g}/\text{m}^3$ | Range, $\mu\text{g}/\text{m}^3$ | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|------------------------|---|---------------------------------|--|---------------------------------------|
| AA4 | 50 | 33 – 95 | 283 | 500 |

Noise monitoring

5. Baseline noise monitoring was conducted at 1 monitoring location (MA3) with 24 hours continuously monitoring. Monitoring data was analyzed under the following periods:
 - Day-time (0700-1900 hrs) on weekdays
 - Evening-time (1900-2300 hrs) on weekdays and Day-time (0700-1900 hrs) and Evening-time (1900-2300 hrs) on weekends / holidays
 - Night time (2300-0700 hrs) on all days
6. The recorded baseline noise levels and Action and Limit Levels is summarized in Table 3, Table 4 and Table 5 respectively.

Table 3 Summary of Daytime noise levels and Action and Limit Level

| Time Period | Noise Monitoring Station | Average $L_{Aeq, 30\text{-min}}$ during 0700 – 1900 on normal weekdays, dB(A) | Range of $L_{Aeq, 30\text{-min}}$ during 0700 – 1900 on normal weekdays, dB(A) | Action Level | Limit Level, dB(A) |
|-------------|--------------------------|---|--|--------------|--------------------|
|-------------|--------------------------|---|--|--------------|--------------------|

| | | | | | |
|---|-----|------|-------------|-------------------------------------|-----------|
| $L_{Aeq, 30-min}$ 0700 – 1900 on normal weekdays | MA3 | 68.3 | 63.2 – 75.7 | When documented complaint received. | one is 75 |
|---|-----|------|-------------|-------------------------------------|-----------|

Table 4 Summary of Evening-time (weekdays) and Day-time & Evening-time (Holidays) noise levels

| Evening-time (1900-2300 hrs) on weekdays Day-time (0700-1900 hrs) & Evening-time (1900-2300 hrs) on holidays | Sound Pressure Level, 手冊更新 dB(A) | | |
|---|----------------------------------|------|------|
| | $L_{Aeq, 5-min}$ | | |
| Noise Monitoring Station | Average | Max. | Min. |
| MA3 | 66.1 | 71.4 | 60.1 |

Table 5 Summary of Night-time (all days) noise levels

| Night-time (2300-0700 hrs next day) | Sound Pressure Level, dB(A) | | |
|--|-----------------------------|------|------|
| | $L_{Aeq, 5-min}$ | | |
| Noise Monitoring Station | Average | Max. | Min. |
| MA3 | 66.3 | 71.7 | 63.0 |

Structure of the Baseline Monitoring Report

1.1 The structure of the report is as follows:

- Section 1 - Introduction
- Section 2 - Air Quality Monitoring
- Section 3 - Noise Monitoring
- Section 4 - Revisions for inclusion in the EM&A Manual
- Section 5 - Conclusions

BASELINE REPORT OF STATION AA4 AND MA3 FOR AIR QUALITY AND NOISE MONITORING (FULL VERSION)

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