# Central Police Station Conservation and Revitalisation Project: 75th Monthly EMEA Report (1 January to 31 January 2018) 

Issue Date: February 2018

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Issue Date: February 2018
Reference 0095646


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Your ref．0095646＿let＿Atkins＿20180213 Monthly EM\＆A Report No．75．doc Our ref．5121189／17．20／OC134／KC／EK
Date： 13 February 2018

## By Post and Email（katie．yu＠erm．com）

ERM－Hong Kong Limited， 16／F Berkshire House， 25 Westlands Road， Quarry Bay， Hong Kong

## Attn：Ms Katie Yu

Dear Katie，

## Central Police Station Conservation and Revitalization Project

 Verification of Monthly EM\＆A Report No． 75We refer to your letter dated 13 February 2018 regarding the Monthly EM\＆A Report No． 75. Atkins China Limited verifies，in the capacity of Independent Environmental Checker，that the report conforms the requirements provided in Condition 3.4 of the Environmental Permit（EP－ 408／2011／C）．

Yours faithfully， for and on behalf of Atkins China Limited


## Keith Chau <br> Independent Environmental Checker

c．c．HKJC－Mr．Kenneth Lee（By Email）
Rocco Design Architect－Mr．Charles Kung（By Email）
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## EXECUTIVE SUMMARY

The construction works of Central Police Station Conservation and Revitalisation Project commenced on 24 October 2011. This is the 75th monthly Environmental Monitoring and Audit (EM\&A) report presenting the EM\&A works carried out during the period from 1 to 31 January 2018 in accordance with the EM\&A Manual.

## Summary of Construction Works undertaken during Reporting Period

The major construction works undertaken during the reporting period include:

- Sitewide hard landscape construction;
- Timber elements repair and replacement at Blocks 3, 9, 10 and 14;
- Fitting out works at Blocks 1, 3, 9, 10, 11, 12, 14, 17 and Old Bailey Wing;
- Metal works repair at Blocks 1, 3, 6, 9, 10, 12, 14, 15, 17, 19;
- External façade repair at Blocks 3, 9, 10, 13 and 14;
- E\&M fixing at Blocks 1, 3, 9, 10, 13, 14, Arbuthnot Wing and Old Bailey Wing;
- Footbridge construction; and
- Structural enhancement works at Blocks 1, 3, 8, 9, 10 and 14.


## Environmental Monitoring and Audit Progress

A summary of the monitoring activities in this reporting period is listed below:

- Construction noise monitoring during normal weekdays at each monitoring station

5 times
1 time
26 times
1 time
26 times

## Noise

5 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. No exceedance of the Action or Limit Level of construction noise was recorded during the reporting period.

## Cultural Heritage

No vibration monitoring was carried out for demolition works, trial piling or pile/bored piling works as the aforementioned works were not conducted during the reporting period.

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 26 vibration monitoring measurements for the structural addition and alteration works at Block 11.

No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audits were conducted on every working weekday in January 2018 by the Heritage Checker during the reporting period.

Major observations and recommendations during the site inspections were listed below:

## 12 January 2018

- Debris was observed on the floor, tiles and wash basin due to paint removal on ground floor of Block 14. The Contractor was reminded to clean up the debris and protect the existing building fabric.


## 31 January 2018

- It was observed that a number of new metal doors at lower ground floor of Block 14 were not fabricated in accordance with approved drawings. The Contractor was reminded to rectify the doors.

The Contractor was urged to follow-up the necessary rectification based on the inspection findings.

## Landscape \& Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. The tree inspection was conducted on 10 January 2018 by the arborist during the reporting period. Leaves on Tree 6 and Tree 7 were observed to be rather sparse with some faded leaves due to dry season. Four pits near each of the planter of Tree 6 and Tree 7 were created for ventilation purpose for the trees. The Contractor was reminded to keep close monitoring of the growth of Tree 6 and Tree 7. The Contractor has provided a temporary shelter for the protection of Tree 11 during the nearby renovation works. Withered leaves were observed on Tree 11. Some construction debris was also observed at the planter of Tree 11 and the Contractor was reminded to remove the construction debris. The Contractor should closely monitor the growth of Tree 11 especially during the nearby renovation works are in progress.

## Waste Management

Wastes generated from this Project include inert construction and demolition (C\&D) materials and non-inert C\&D materials. A total of 87.24 tonnes of
inert C\&D materials were generated during the reporting period. 186.5 tonnes of non-inert $C \& D$ materials comprising general refuse and mixed construction waste were generated during the reporting period. No metal, paper/cardboard packaging or plastic waste was recycled during the reporting period. No chemical waste was collected by licenced chemical waste collector during the reporting period.

## Environmental Site Inspection

A joint environmental site inspection was carried out by the representatives of the Contractor, the IEC and the ET on 16 January 2018. There is no major observation or recommendation recorded during the environmental site inspection.

## Environmental Exceedance/Non-conformance/Compliant/Enquiry/ Summons and Prosecution

No exceedance of the Action or Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

One complaint was received during the reporting period. A complaint on improper storage of construction waste was received by the EPD on 29 January 2018 and transferred to the ET on 2 February 2018. The complaint investigation is under progress and the findings will be reported in the next reporting period.

No summons/ prosecution was received during the reporting period.

## Future Key Issues

Work items to be undertaken in the next month include:

- Sitewide hard landscape construction;
- Timber elements repair and replacement at Blocks 3, 9 and 10;
- Fitting out works at Blocks 1, 3, 9, 10, 12, 14, 17 and Old Bailey Wing;
- Metal works repair at Blocks 1, 3, 9, 10, 12 and 14;
- External façade repair at Blocks 3, 9, 10 and 13;
- E\&M fixing at Blocks 1, 3, 9, 10, 14, Arbuthnot Wing and Old Bailey Wing;
- Footbridge construction; and
- Structural enhancement works at Block 1, 3, 8, 10 and 14.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

ERM-Hong Kong, Limited (ERM) was appointed by the Jockey Club CPS Limited (the CPS Ltd) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM\&A) programme for the Central Police Station Conservation and Revitalisation Project (the Project).

### 1.1 PURPOSE OF THE REPORT

This is the $75^{\text {th }}$ EM\&A report which summarises the impact monitoring results and audit findings for the EM\&A programme during the reporting period from 1 to 31 January 2018.

### 1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

## Section 1 : Introduction

details the scope and structure of the report.

## Section 2 : Project Information

summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

## Section 3 : Environmental Monitoring Requirements

summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the EIA report and relevant environmental requirements.

## Section 4 : Implementation Status on Environmental Protection Requirements summarises the implementation of environmental protection measures during the reporting period.

## Section 5 : Monitoring Results

summarises the monitoring results obtained in the reporting period.

## Section 6 : Environmental Site Inspection

 summarises the audit findings of the site inspections undertaken within the reporting period.
## Section 7: Environmental Non-conformance

summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

## Section 8 : Future Key Issues

summarises the impact forecast and monitoring schedule for the next reporting month.

Section 9 : Conclusions

## 2.1

### 2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in Table 2.1 and illustrated in Annex A3.

## Construction Activities Undertaken

- Sitewide hard landscape construction;
- Timber elements repair and replacement at Blocks 3, 9, 10 and 14;
- Fitting out works at Blocks 1, 3, 9, 10, 11, 12, 14, 17 and Old Bailey Wing;
- Metal works repair at Blocks 1, 3, 6, 9, 10, 12, 14, 15, 17, 19;
- External façade repair at Blocks $3,9,10,13$ and 14;
- E\&M fixing at Blocks 1, 3, 9, 10, 13, 14, Arbuthnot Wing and Old Bailey Wing;
- Footbridge construction; and
- Structural enhancement works at Blocks 1, 3, 8, 9, 10 and 14.


### 2.4 Project Organisation

The Project organisation chart and contact details are shown in Annex B.
2.5 Status of Environmental Approval Documents

A summary of the valid permits, licences, and/ or notifications on environmental protection for this Project in the reporting period is presented in Table 2.2.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status
\(\left.$$
\begin{array}{llll}\hline \begin{array}{l}\text { Permit/ Licences/ } \\
\text { Notification }\end{array} & \text { Reference } & \text { Validity Period } & \text { Remarks } \\
\hline \begin{array}{l}\text { Environmental } \\
\text { Permit (EP) }\end{array} & \text { EP-408/2011/C } & \begin{array}{l}\text { Throughout the } \\
\text { Contract }\end{array} & \begin{array}{l}\text { Permit granted on } \\
\text { 29 April 2016 }\end{array} \\
\hline \begin{array}{lll}\text { Notification of } \\
\text { Construction Works } \\
\text { as required under Air }\end{array}
$$ \& Ref. No. 332920 \& Throughout the \& - <br>
\begin{array}{l}Pollution Control <br>
(Construction Dust) <br>

Regulation\end{array} \& \& Contract\end{array}\right]\)| Registration of | Chemical Waste | Throughout the |
| :--- | :--- | :--- |
| Chemical Waste | Producer No.: 5213- | Contract |

### 3.1 NOISE MONITORING

### 3.1.1 Monitoring Location

The construction noise monitoring locations are listed in Table 3.1 and are shown in Annex C.

Table 3.1 Construction Phase Noise Monitoring Station

| Monitoring Location | Proposed Construction Noise Monitoring Station |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | ID in EM\&A <br> Manual | ID | Type of Measurement | Remark |
| Rooftop of Ho Fook Building | N2 | NM2 | Façade | - |
| Rooftop of Chancery <br> Mansion | --- | NM6 | Façade | Accesses to the original proposed monitoring location in the EM\&A Manual, Chancery House (N5), were denied; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD. |

The noise sensitive receivers are also shown in Annex C.

### 3.1.2 Monitoring Parameters, Frequency and Programme

Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the EM\&A Manual. The monitoring programme for this reporting period is shown in Annex $D$.

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level ( $\mathrm{L}_{\mathrm{eq}}$ ) in decibels $\mathrm{dB}(\mathrm{A})$. $\mathrm{L}_{\mathrm{eq}(30 \mathrm{~min})}$ were used as the monitoring parameter for the time period in between 0700 1900 hours on normal weekdays. Supplementary information for data auditing, two statistical sound levels $\mathrm{L}_{10}$ and $\mathrm{L}_{90}$ - the levels exceeded for 10 and 90 percent of the time respectively, were also recorded during the monitoring for reference. The measured noise levels were logged in every 5 minutes throughout the impact monitoring period.

### 3.1.3 Monitoring Equipment and Methodology

Construction noise measurements were conducted in accordance with the calibration and measurement procedures as stated in Annex - General Calibration and Measurement Procedures of Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM) issued under the Noise Control Ordinance (NCO) (Cap 400).

The sound level meters and calibrator used for the noise measurement, as listed in Table 3.2, complies with the IEC 651: 1979 and 804:1985 (Type 1) specifications. The calibration certificates of the sound level meters are appended in Annex E.

Table $3.2 \quad$ Noise Monitoring Equipment

| Monitoring Stations | Monitoring Equipment (Sound Level Meter and Calibrator) |
| :--- | :--- |
| NM2, NM6 | Calibrator |
|  | CEL 120 (S/N 3421612) |
|  | Sound Level Meter |
|  | CEL-633A (S/N 3521757) |

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency.

Measurements were accepted as the calibration level from before and after the noise measurement agree to within $1.0 \mathrm{~dB}(\mathrm{~A})$.

### 3.1.4 Event/Action Plan

Table 3.3 Action and Limit Levels for Construction Noise Monitoring

| Noise Monitoring <br> Location | Action Level | Limit Level, <br> $\mathbf{L}_{\text {eq(30mins), dB(A) }}$ | Remark |
| :--- | :--- | :--- | :--- |
| NM2, NM6 | When one <br> documented <br> complaint is <br> received from any <br> one of the sensitive <br> receivers | 75 (note) | Applicable during 0700-1900 <br> hours on normal weekdays. |

## Notes:

(a) Acceptable Noise Levels for Area Sensitivity Rating of $A / B / C$. Limit Level is reduced to $70 \mathrm{~dB}(\mathrm{~A})$ for schools and $65 \mathrm{~dB}(\mathrm{~A})$ during school examination periods.
(b) If works are to be carried out during restricted hours, the conditions stipulated in the CNP issued by the NCA have to be followed.

The Event / Action Plan (EAP) for noise monitoring is presented in Annex F.

### 3.1.5 Mitigation Measures

The mitigation measures in accordance with the EP, EIA and EM\&A Manual and their implementation status are presented in Annex $G$.

### 3.2 Cultural Heritage

### 3.2.1 Vibration Monitoring

In accordance with the EM\&A Manual, vibration monitoring is required and the vibration control limits and vibration monitoring proposal are defined by a specialist for AMO's approval.

## Baseline Monitoring

Baseline vibration monitoring was not conducted during the reporting period.

## Vibration Monitoring for Demolition Works

As no demolition works were carried out, vibration monitoring for demolition works was not conducted during the reporting period.

## Vibration Monitoring for Trial Piling and Pipe/Bored Piling Works

As no trial piling or pipe/bored piling works were carried out, vibration monitoring for trial piling and piling works was not conducted during the reporting period.

## Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than demolition works, trial piling works and pipe/bored piling works is also required in accordance with Building Department's requirement. The monitoring location is shown in Annex L. The number and location of monitoring location will depend on the location of the specific construction works. The vibration monitoring should be conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location.

## Alert, Alarm and Action Levels

The Alert, Alarm and Action (AAA) Levels are to be implemented during the vibration monitoring and shown in Table 3.4.

## Table 3.4 Alert, Alarm and Action (AAA) Levels for Vibration Monitoring

| Instrument Type | Item Monitored | Alert Level | Alarm Level | Action Level |
| :--- | :--- | :--- | :--- | :--- |
| Vibration | Horizontal | $2.0 \mathrm{~mm} / \mathrm{s}$ | $2.5 \mathrm{~mm} / \mathrm{s}$ | $3.0 \mathrm{~mm} / \mathrm{s}$ |
| Monitoring | Movement |  |  |  |

The Event / Action Plan (EAP) for vibration monitoring is shown in Table 3.5.
Table $3.5 \quad$ Event and Action Plan for Vibration Monitoring

| Events | Action |
| :--- | :--- |
| Exceedance of Alert Level | Notify Management Contractor |
| Exceedance of Alarm Level | Notify Authorised Person/ Resident Engineer |
| Exceedance of Action Level | Cease Works and submit mitigation |

### 3.2.2 Mitigation Measures

Cultural heritage mitigation measures (including those for archaeology) in accordance with the EP, EIA and EM\&A Manual were implemented by the Contractor and the implementation status is given in Annex $G$.

In accordance with the EM\&A Manual, inspections of affected trees were conducted by an experienced and appropriately trained arborist. All irregularities that deviate from the recommended tree protection measures or could impose deleterious impacts on the protected trees were reported. Besides, implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were also monitored during the site inspection.

### 3.3.1 Mitigation Measures

Landscape and visual mitigation measures in accordance with the EP, EIA and EM\&A Manual were implemented by the Contractor and the implementation status is given in Annex G.

### 3.4 Environmental Requirements in Contract Documents

The environmental requirements as specified in the contract documents were reviewed and were covered in the EIA's requirements.

The Contractor has generally implemented the environmental mitigation measures (including those for archaeology) and requirements as stated in the EIA Report, the EP and EM\&A Manual and the contract documents. The implementation status during the reporting period is summarized in Annex G.

Status of required submissions under the EP and EM\&A Manual during the reporting period is presented in Table 4.1.

## Table $4.1 \quad$ Status of Required Submissions

| Submission | Submission Date |  |
| :--- | :--- | :---: |
| $E P$ Condition |  |  |
| Condition 3.4 | $74^{\text {th }}$ Monthly EM\&A Report | 12 January 2018 |

## 5.1 <br> NOISE

A total of 5 sets of 30 -minute construction noise measurements were carried out at the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in Annex $H$. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

- NM2: construction noise from activities in the Project Site and traffic noise from Old Bailey Street.
- NM6: construction noise from activities in the Project Site and traffic noise from Chancery Lane.

No exceedance of the Action or Limit Level of construction noise was recorded during the reporting period.

## 5.2

Cultural Heritage

### 5.2.1

5.2.2

Heritage Site Audit
Heritage site audits were conducted on every working weekday in January 2018 by the Heritage Checker during the reporting period.

Major observations and recommendations during the site inspections were listed below:

12 January 2018

- Debris was observed on the floor, tiles and wash basin due to paint removal on ground floor of Block 14. The Contractor was reminded to clean up the debris and protect the existing building fabric.

31 January 2018

- It was observed that a number of new metal doors at lower ground floor of Block 14 were not fabricated in accordance with approved drawings. The Contractor was reminded to rectify the doors.

The Contractor was urged to follow-up the necessary rectification based on the inspection findings.

### 5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 10 January 2018 and major observations and recommendations in the reporting period are summarised in Table 5.1. The tree inspection report is contained in Annex J.

Table 5.1 Findings of Monthly Tree Inspection in the Reporting Period

| Tree No. | Botanical Name | Overall Health Condition | Arborist's Observations / Recommendations |
| :---: | :---: | :---: | :---: |
| Tree -5 | Mangifera indica | Good | - No further action required. |
| Tree -6 | Aleurites moluccana | Fair | - Leaves on the crown are rather sparse. <br> - Four pits near the planter were created for ventilation purpose for the tree. <br> - Some faded leaves observed due to dry season. <br> - Keep monitoring on the growth of the tree. |
| Tree-7 | Aleurites moluccana | Fair | - Leaves on the crown are rather sparse. <br> - Four pits near the planter were created for ventilation purpose for the tree. <br> - Some faded leaves observed due to dry season. <br> - Keep monitoring on the growth of the tree. |
| Tree-8 | Plumeria rubra | Good | - No further action required. |
| Tree-9 | Araucaria cunninghamia | Good | - No further action required. |
| Tree-11 | Dracaena marginata | Fair | - Withered leaves were observed on the tree. <br> - The Contractor should closely monitor the growth of the tree especially during the nearby renovation works are in progress. |


| Tree No. Botanical Name | Overall Health <br> Condition | Arborist's Observations/ <br> Recommendations |
| :--- | :--- | :--- |
|  |  | Some construction debris was <br> observed at the planter. The |
|  |  | Contractor was reminded to remove <br> the construction debris from the <br> planter. |

## 5.4

Waste Management
Wastes generated from this Project include inert construction and demolition (C\&D) materials and non-inert C\&D materials. Non-inert C\&D materials were made up of wastes such as general refuse and mixed construction waste. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in Table 5.2. No metal, paper/cardboard packaging or plastic waste was recycled during the reporting period. No chemical waste was collected by licenced chemical waste collector during the reporting period.

## Table 5.2 Quantities of Waste Generated from the Project

| Month/Year | Quantity |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C\&D <br> Materials (inert) ${ }^{(a)}$ | $\begin{gathered} \text { C\&D } \\ \text { Materials } \\ \text { (non-inert) }{ }^{(b)} \end{gathered}$ | Chemical Waste |  | Recycled materials |  |  |
|  |  |  | Solid | Liquid | Paper/ cardboard (e) | Plastics | Metals |
| January 2018 | 87.24 tonnes <br> (c) | 186.5 tonnes <br> (d) | 0 kg | 0 L | 0 kg | 0 kg | 0 kg |

Notes:
(a) Inert C\&D materials include bricks, concrete, building debris, rubble and excavated soil.
(b) Non-inert C\&D materials include general refuse and mixed construction waste which were disposed of at landfill site and/or sorting facilities.
(c) 87.24 tonnes of inert C\&D materials were sent to Chai Wan Public Fill Barging Point.
(d) 186.5 tonnes of non-inert C\&D materials were disposed of at SENT Landfill.

Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 16 January 2018. There was no non-compliance recorded during the site inspection.

Follow-up Actions for the Last Site Audit

- The chemical drums observed outside Block 14 were removed.
- All wastewater generated from the site has been properly treated prior to discharge to the stormwater drainage system.


## Observations and Recommendations of this Reporting Month

- Nil.


### 7.1 Summary of Monitoring Exceedance

No exceedance of the Action or Limit Level of construction noise or Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

### 7.2 Summary of EnQuiry

No enquiry was recorded during the reporting period.

### 7.3 SUMMARY OF NON-COMPLIANCE

No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

## 7.4 <br> Summary of Environmental Complaint

One complaint was received during the reporting period. A complaint on improper storage of construction waste was received by the EPD on 29 January 2018 and transferred to the ET on 2 February 2018. The complaint investigation is under progress and the findings will be reported in the next reporting period. The cumulative number of complaints is presented in Annex K.

No summons/prosecution was received during the reporting period.

### 8.1 Key Issues for the Coming Month

Construction works at the CPS site have resumed except for Block 4. Works to be undertaken for the coming monitoring period are summarised in Table 8.1.

## Table 8.1 Construction Works to be Undertaken in the Coming Month

## Work to be Undertaken

- Sitewide hard landscape construction;
- Timber elements repair and replacement at Blocks 3, 9 and 10;
- Fitting out works at Blocks 1, 3, 9, 10, 12, 14, 17 and Old Bailey Wing;
- Metal works repair at Blocks 1, 3, 9, 10, 12 and 14;
- External façade repair at Blocks 3, 9, 10 and 13;
- E\&M fixing at Blocks 1, 3, 9, 10, 14, Arbuthnot Wing and Old Bailey Wing;
- Footbridge construction; and
- Structural enhancement works at Block 1, 3, 8, 10 and 14.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

### 8.2 Monitoring Schedule for the Next Month

The tentative schedule of noise monitoring for the next reporting period is presented in Annex D.

### 8.3 CONStRUCTION PROGRAMME FOR THE NEXT MONTH

The most updated construction programme for the Project is presented in Annex I.

The Environmental Monitoring and Audit (EM\&A) Report presents the EM\&A works undertaken during the period from 1 to 31 January 2018 in accordance with EM\&A Manual and the requirement under EP-408/2011/C.

No exceedance of the Action or Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.
No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

One complaint was received during the reporting period. A complaint on improper storage of construction waste was received by the EPD on 29 January 2018 and transferred to the ET on 2 February 2018. The complaint investigation is under progress and the findings will be reported in the next reporting period.

No summons/ prosecution was received during the reporting period.
The ET will keep track on the EM\&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Annex A

Locations of Works Areas and the Surroundings




Annex B

## Project Organization Chart and Contact Detail



Annex C

Locations of Noise
Monitoring Stations and
Noise Sensitive Receivers


Annex D

Monitoring Schedule of the Reporting Period and Next Month

Central Police Station Compound Conservation and Revitalisation
(Ho Fook Building - NM2 \& Chancery Mansion - NM6)
Monitoring Schedule for Reporting Month - January 2018

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 01-Jan | 02-Jan | 03-Jan | 04-Jan | 05-Jan | 06-Jan |
|  | Public Holiday |  |  | Noise Monitoring at NM2 \& NM6 |  |  |
| 07-Jan | 08-Jan | 09-Jan | 10-Jan | 11-Jan | 12-Jan | 13-Jan |
|  |  |  | Noise Monitoring at NM2 \& NM6 |  |  |  |
| 14-Jan | 15-Jan | 16-Jan | 17-Jan | 18-Jan | 19-Jan | 20-Jan |
|  |  | Noise Monitoring at NM2 \& NM6 |  |  |  |  |
| 21-Jan | 22-Jan | 23-Jan | 24-Jan | 25-Jan | 26-Jan | 27-Jan |
|  | Noise Monitoring at NM2 \& NM6 |  |  |  | Noise Monitoring at NM2 \& NM6 |  |
| 28-Jan | 29-Jan | 30-Jan | 31-Jan |  |  |  |
|  |  |  |  |  |  |  |

Central Police Station Compound Conservation and Revitalisation
(Ho Fook Building - NM2 \& Chancery Mansion - NM6)
Monitoring Schedule for Next Reporting Month - February 2018

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 01-Feb | 02-Feb | 03-Feb |
|  |  |  |  | Noise Monitoring at NM2 \& NM6 |  |  |
| 04-Feb | 05-Feb | 06-Feb | 07-Feb | 08-Feb | 09-Feb | 10-Feb |
|  |  |  | Noise Monitoring at NM2 \& NM6 |  |  |  |
| 11-Feb | 12-Feb | 13-Feb | 14-Feb | 15-Feb | 16-Feb | 17-Feb |
|  |  | Noise Monitoring at NM2 \& NM6 |  | Noise Monitoring at NM2 \& NM6 | Public Holiday | Public Holiday |
| 18-Feb | 19-Feb | 20-Feb | 21-Feb | 22-Feb | 23-Feb | 24-Feb |
|  | Public Holiday |  | Noise Monitoring at NM2 \& NM6 |  |  |  |
| 25-Feb | 26-Feb | 27-Feb | 28-Feb |  |  |  |
|  |  | Noise Monitoring at NM2 \& NM6 |  |  |  |  |

Annex E

## Calibration Reports for <br> Calibrators and Sound <br> Level Meters

## Certificate of Calibration校正證書

Certificate No．：C176743
證書編號

ITEM TESTED／送檢項目（Job No．／序引編號：IC17－2654 ）Date of Receipt／收件日期：14 November 2017
Description／儀器名稱 ：Acoustic Calibrator
Manufacturer／製造商 ：Casella
Model No．／型號 ：CEL－120／1
Serial No．／編號 ： 3421612
Supplied By／委託者 ：Envirotech Services Co．
Room 113，1／F，My Loft， 9 Hoi Wing Road，Then Mun， New Territories，Hong Kong

TEST CONDITIONS／測試條件
Temperature／溫度 ：（23 $\pm 2)^{\circ} \mathrm{C} \quad$ Relative Humidity／相對濕度 ：（55 $\left.\pm 20\right) \%$
Line Voltage／電壓 ：－－－

## TEST SPECIFICATIONS／測試規範

Calibration check

DATE OF TEST／測試日期 ： 2 December 2017

## TEST RESULTS／測試結果

The results apply to the particular unit－under－test only．
The results do not exceed manufacturer＇s specification．
The results are detailed in the subsequent pages）
The test equipment used for calibration are traceable to National Standards via ：
－The Government of The Hong Kong Special Administrative Region Standard \＆Calibration Laboratory
－Agilent Technologies／Keysight Technologies
－Ronde \＆Schwarz Laboratory，Germany
－Fluke Everett Service Center，USA

Tested By
測試


Certified By
核證


Date of Issue簽發日期

[^0]Sun Creation Figmeering I muted（ Calibration \＆Testing I aboratory
co 4 F，Ting Shan Wan Exchange Burldmg， 1 Hing On Lane，Ten Mun．New Territories，Hong Kong
硨創厂程付限公明一校正及檢澌賏驗所

Tel 菓話： 29272606 Fax 傳真： 27448986

## Certificate of Calibration校正證書

1．The unit－under－test（UUT）was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test．

2．The results presented are the mean of 3 measurements at each calibration point．
3．Test equipment ：

Equipment ID
CL130
CL281
TST150A

Description
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No． C173864
PA160023
C161175

4．Test procedure ：MA100N．
5．Results ：
5．1 Sound Level Accuracy

| UUT <br> Nominal Value | Measured Value <br> $(\mathrm{dB})$ | Mfr＇s Spec． <br> $(\mathrm{dB})$ | Uncertainty of Measured Value <br> $(\mathrm{dB})$ |
| :---: | :---: | :---: | :---: |
| $94 \mathrm{~dB}, 1 \mathrm{kHz}$ | 94.0 | $\pm 0.25$ | $\pm 0.2$ |
| $114 \mathrm{~dB}, 1 \mathrm{kHz}$ | 114.1 |  |  |

5．2 Frequency Accuracy

| UUT Nominal Value <br> $(\mathrm{kHz})$ | Measured Value <br> $(\mathrm{kHz})$ | Mfr＇s <br> Spec． | Uncertainty of Measured Value <br> $(\mathrm{Hz})$ |
| :---: | :---: | :---: | :---: |
| 1 | 1.0000 | $1 \mathrm{kHz} \pm 5 \mathrm{~Hz}$ | $\pm 0.1$ |

Remark ：The uncertainties are for a confidence probability of not less than $95 \%$ ．

Note ：
Only the original copy or the laboratory＇s certified true copy is valid．
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift，variations with environment changes， vibration and shock during transportation，overloading，mis－handling，or the capability of any other laboratory to repeat the measurement．Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment．

[^1]Sun Creatron Fngmeering Limited Cahbration \＆Testing Laboratory
co 4 F，Tsing Shan Wan Exchange Bunldng．I Hing On I anc，Tuen Mum，New Temtones，Hong Kong
棩創厂程们限公司 校正及檢測盁驗所

Tel電㖇： 29272606 Fax偷真： 27448986

輝創工程有限公司<br>Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration校正證書

Certificate No．：C176744
證書編號

ITEM TESTED／送檢項目（Job No．／序引編號：IC17－2654 ）Date of Receipt／收件日期：14 November 2017
Description／儀器名稱 ：Sound Level Meter
Manufacturer／製造商 ：Casella
Model No．／型號 ：CEL－633A
Serial No．／編號 ： 3521757
Supplied By／委託者 ：Envirotech Services Co．
Room 113，1／F，My Loft， 9 Hi Wing Road，Tuen Mun， New Territories，Hong Kong

TEST CONDITIONS／測試條件
Temperature／溫度 ：$(23 \pm 2)^{\circ} \mathrm{C}$
Relative Humidity／相對濕度 ：（55 $\pm 20) \%$
Line Voltage／電壓 ：－－－

TEST SPECIFICATIONS／測試規範
Calibration check

DATE OF TEST／測試日期 ：2 December 2017

## TEST RESULTS／測試結果

The results apply to the particular unit－under－test only．
The results do not exceed manufacturer＇s specification．
The results are detailed in the subsequent pages）．
The test equipment used for calibration are traceable to National Standards via ：
－The Government of The Hong Kong Special Administrative Region Standard \＆Calibration Laboratory
－Agilent Technologies／Keysight Technologies
－Rohde \＆Schwarz Laboratory，Germany
－Fluke Everett Service Center，USA

Tested By測試


Certified By核證


Date of Issue ：4 December 2017簽發日期

[^2]輝創工程有限公司<br>Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration校正證書

Certificate No．：C176744
證書編號

1．The unit－under－test（UUT）was allowed to stabilize in the laboratory for over 12 hours，and switched on to warm up for over 10 minutes before the commencement of the test．

2．Self－calibration using the Casella Acoustic Calibrator CEL－120／1，S／N： 3421612 was performed before the test．
3．The results presented are the mean of 3 measurement at each calibration point．
4．Test equipment ：

| Equipment ID | $\underline{\text { Description }}$ | Certificate No． |
| :--- | :--- | :--- |
| CL280 | 40 MHz Arbitrary Waveform Generator | C170048 |
| CL281 | Multifunction Acoustic Calibrator | PA160023 |

5．Test procedure ：MA101N．
6．Results ：

6．1 Sound Pressure Level

6．1．1 Reference Sound Pressure Level

| UUT Setting |  | Applied Value |  | UUT <br> Reading <br> $(\mathrm{dB})$ | IEC 61672 Class 1 <br> Spec． <br> $(\mathrm{dB})$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Time <br> Weighting | Frequency <br> Weighting | Level <br> $(\mathrm{dB})$ | Freq． <br> $(\mathrm{kHz})$ |  | $\pm 1.1$ |
| $\mathrm{~L}_{\mathrm{F}}$ | A | 114.00 | 1 | 114 |  |

6．1．2 Linearity

| UUT Setting |  | Applied Value |  | UUT <br> Reading <br> $(\mathrm{dB})$ |
| :---: | :---: | :---: | :---: | :---: |
| Time <br> Weighting | Frequency <br> Weighting | Level <br> $(\mathrm{dB})$ | Freq． <br> $(\mathrm{kHz})$ |  |
| $\mathrm{L}_{\mathrm{F}}$ | A | 114.00 | 1 | 103.9 |
|  |  | 104.00 |  | 93.8 |
|  | 94.00 |  |  |  |

IEC 61672 Class 1 Spec．$: \pm 0.6 \mathrm{~dB}$ per 10 dB step and $\pm 1.1 \mathrm{~dB}$ for overall different．
6．2 Time Weighting

| UUT Setting |  | Applied Value |  | UUT <br> Reading （dB） | IEC 61672 Class 1 Spec． <br> （dB） |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Time Weighting | Frequency Weighting | Level （dB） | Freq． $(\mathrm{kHz})$ |  |  |
| $\mathrm{L}_{\mathrm{F}}$ | A | 114.00 | 1 | 114.0 | Ref． |
| $\mathrm{L}_{S}$ |  |  |  | 114.0 | $\pm 0.3$ |

[^3]輝創工程有限公司<br>Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration

## 校正證書

Certificate No．：C176744
證書編號

## 6．3 Frequency Weighting

6．3．1 A－Weighting

| UUT Setting |  | Applied Value |  |  | IEC 61672 Class 1 Spec． <br> （dB） |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Time Weighting | Frequency Weighting | Level <br> （dB） | Freq． |  |  |
| $\mathrm{L}_{\mathrm{F}}$ | A | 94.00 | 63 Hz | 87.7 | $-26.2 \pm 1.5$ |
|  |  |  | 125 Hz | 97.8 | $-16.1 \pm 1.5$ |
|  |  |  | 250 Hz | 105.3 | $-8.6 \pm 1.4$ |
|  |  |  | 500 Hz | 110.8 | $-3.2 \pm 1.4$ |
|  |  |  | 1 kHz | 114.0 | Ref． |
|  |  |  | 2 kHz | 115.2 | $+1.2 \pm 1.6$ |
|  |  |  | 4 kHz | 114.9 | $+1.0 \pm 1.6$ |
|  |  |  | 8 kHz | 112.6 | －1．1（＋2．1；－3．1） |
|  |  |  | 12.5 kHz | 108.4 | －4．3（＋3．0；－6．0） |

6．3．2 C－Weighting

| UUT Setting |  | Applied Value |  | UUT Reading （dB） | IEC 61672 Class 1 Spec． <br> （dB） |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Time Weighting | Frequency Weighting | Level <br> （dB） | Freq． |  |  |
| $\mathrm{L}_{\mathrm{F}}$ | C | 94.00 | 63 Hz | 113.2 | $-0.8 \pm 1.5$ |
|  |  |  | 125 Hz | 113.8 | $-0.2 \pm 1.0$ |
|  |  |  | 250 Hz | 114.0 | $0.0 \pm 1.0$ |
|  |  |  | 500 Hz | 114.0 | $0.0 \pm 1.0$ |
|  |  |  | 1 kHz | 114.0 | Ref． |
|  |  |  | 2 kHz | 113.8 | $-0.2 \pm 1.0$ |
|  |  |  | 4 kHz | 113.1 | $-0.8 \pm 1.0$ |
|  |  |  | 8 kHz | 110.7 | $-3.0(+1.5 ;-3.0)$ |
|  |  |  | 12.5 kHz | 106.5 | $-6.2(+3.0 ;-6.0)$ |

[^4]Sun Creation Fngmeering 1 imited Calbration \＆Iesting Laboratory
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輝㓣 1 程仍限公司 校玉及检䁌算験所

Certificate of Calibration
Certificate No．：C176744
證書編號

Remarks ：－UUT Microphone Model No．：CEL－251 \＆S／N ： 1950
－Mfr＇s Spec．：IEC 61672 Class 1
－Uncertainties of Applied Value： $114 \mathrm{~dB} \quad: 63 \mathrm{~Hz}-125 \mathrm{~Hz} \quad: \pm 0.45 \mathrm{~dB}$
$250 \mathrm{~Hz}-500 \mathrm{~Hz} \quad: \pm 0.40 \mathrm{~dB}$
$1 \mathrm{kHz} \quad: \pm 0.30 \mathrm{~dB}$
$2 \mathrm{kHz}-4 \mathrm{kHz} \quad: \pm 0.45 \mathrm{~dB}$
$8 \mathrm{kHz} \quad: \pm 0.55 \mathrm{~dB}$
$12.5 \mathrm{kHz} \quad: \pm 0.80 \mathrm{~dB}$
$104 \mathrm{~dB}: 1 \mathrm{kHz} \quad: \pm 0.10 \mathrm{~dB}$（Ref． 114 dB ）
$94 \mathrm{~dB}: 1 \mathrm{kHz} \quad: \pm 0.10 \mathrm{~dB}$（Ref． 114 dB ）
－The uncertainties are for a confidence probability of not less than $95 \%$ ．

Note ：
Only the original copy or the laboratory＇s certified true copy is valid．
The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift，variations with environment changes，vibration and shock during transportation，overloading，mis－handling，or the capability of any other laboratory to repeat the measurement．Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment．

[^5]Annex F

Event / Action Plans for
Noise

## Annex $F$

## Event and Action Plan for Noise

| Event | Action |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Environmental Team (ET) | Independent Environmental Checker (IEC) | Authorised Person (AP) | Contractor |
| Action Level | 1. Notify IEC and Contractor; <br> 2. Carry out investigation; <br> 3. Report the results of investigation to the IEC, AP and Contractor; <br> 4. Discuss with the Contractor and formulate remedial measures; <br> 5. Increase monitoring frequency to check mitigation effectiveness. | 1. Review the analysed results submitted by the ET; <br> 2. Review the proposed remedial measures by the Contractor and advise the AP accordingly; <br> 3. Supervise the implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing; <br> 2. Notify Contractor; <br> 3. Require Contractor to proposed remedial measures for the analysed noise problem; <br> 4. Ensure remedial measures are properly implemented. | 1. Submit noise mitigation proposals to IEC; <br> 2. Implement noise mitigation proposals. |
| Limit Level | 1. Identify source; <br> 2. Inform IEC and AP; <br> 3. Repeat measurements to confirm findings; <br> 4. Increase monitoring frequency; <br> 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; <br> 6. Inform IEC, AP and EPD the causes and actions taken for the exceedances; <br> 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results; <br> 8. If exceedance stops, cease additional monitoring. | 1. Discuss amongst AP, ET, and Contractor on the potential remedial actions; <br> 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; <br> 3. Supervise the implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing; <br> 2. Notify Contractor; <br> 3. Require Contractor to propose remedial measures for the analysed noise problem; <br> 4. Ensure remedial measures properly implemented; <br> 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | 1. Take immediate action to avoid further exceedance; <br> 2. Submit proposals for remedial actions to IEC within 3 working days of notification; <br> 3. Implement the agreed proposals; <br> 4. Resubmit proposals if problem still not under control; <br> 5. Stop the relevant portion of works as determined by the AP until the exceedance is abated. |

Annex G

Summary of
Implementation Status

Annex G Implementation Schedule for Environmental Protection Measures

| $\begin{array}{\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A <br> Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cultural Heritage |  |  |  |  |  |
| S3.9.1 | S3.2.6 | Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO. | In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO | During detailed design and construction | $\checkmark$ |
| S3.9.2 | S3.3.1 | Vibration Monitoring <br> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works. | Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road) | During detailed design and construction | $\checkmark$ |
| S3.9.2 | S3.3.3 | Compliance of the Approved Measures and Auditing <br> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. <br> Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed | Whole site | Prior to and during construction | <> |


| $\begin{array}{l}\text { EIA } \\ \text { Ref. }\end{array}$ | $\begin{array}{l}\text { EM\&A } \\ \text { Ref. }\end{array}$ |  | $\begin{array}{l}\text { Recommended Mitigation Measures }\end{array}$ | $\begin{array}{l}\text { Location } \\ \text { Implement the } \\ \text { Measure }\end{array}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| proposal of the regular audit such as methodology (e.g. performance |  |  |  |  |
| and monitoring indicators, control tools, frequency of the audit, etc.) |  |  |  |  |
| and the conservation professionals to be engaged should be agreed with |  |  |  |  |
| AMO prior to work commencement. |  |  |  |  |
| The Heritage Checker shall also attend the regular site meetings with |  |  |  |  |
| AMO and report the compliance and effectiveness of the mitigation |  |  |  |  |
| measures for cultural heritage. |  |  |  |  |$]$| Status |
| :--- |
| S3.9.3 |


| $\begin{array}{\|l\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. |  |  | west balcony, floor structure in room 04/5/03. Temporary propping has been undertaken to prevent further collapse. Construction works have resumed except Block 4. |
| $\begin{aligned} & \hline \text { S3.7.1 } \\ & \& \text { 3.7.2 } \end{aligned}$ | - | Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: <br> - one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and <br> - an updated inventory list of the historic features together with the cross referenced location plans and photo records. <br> One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project. | Whole site | During detailed design, construction, postconstruction and operation | $\sqrt{ }$ - CMP was implemented during the reporting month. There were no updates for the CMP. |


| $\begin{array}{\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A <br> Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Landscape \& Visual |  |  |  |  |  |
| S4.7.27 |  | In-situ Tree Protection - Cordon Zone (CZ) <br> Cordon off each tree along its drip line (below the crown) with a chainlink fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the $C Z$, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ . | Whole site | During construction | The chain-link fencing for the retained trees has been removed to enable the laying of floor slab and repairing of the planters. A tree protection zone around the planter of each tree has been provided. Barricades are set up for Tree 6, 7, 8 and 9 and the barricaded zone is clear of construction materials or equipment. The vicinity of Tree 5 is also clear of construction materials or equipment. A temporary shelter has been erected around Tree 11. No major construction works in the vicinity of the trees or within the CPS site are being carried out. |
| S4.7.2 | - | In-situ Tree Protection - Advanced \& Phased Root Pruning <br> All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter $>20 \mathrm{~mm}$ encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree. | Whole site | During construction | N/A - no root pruning has been conducted yet |
| S4.7.2 | - | In-situ Tree Protection - Foliage cleansing system <br> A sprinkler cleansing system will be installed either in the crown of the | Whole site | During construction | N/A - The sprinkler cleansing system has been removed as major dust-generating works within the |


| $\begin{array}{\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | tree or at a suitable location on an adjacent building to provide the means to wash the foliage of the accumulated dust when necessary, particularly in the dry season. |  |  | CPS site have been completed. |
| S4.7.2 | S4 | In-situ Tree Protection - Monthly inspection <br> Monthly inspection of affected trees by an experienced and appropriately trained arborist or horticulturist using Form 1 - Tree Group Inspection Form and Form 2 - Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days. | Whole site | During construction | $\checkmark$ |
| S4.7.2 | - | Light Control <br> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs. | Whole site | During construction and operation | $\checkmark$ |
| S4.7.2 | S4 | Compensatory Tree Planting <br> A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10 and T10a. The existing tree site will be enlarged to become a wide tree strip to accommodate the compensatory trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. <br> The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil | At identified compensatory tree planting location at the Parade Ground | During detailed design and construction | $\sqrt{ }$ - Planters of the compensatory trees are being built in the Parade Ground during the reporting period. |


| $\begin{array}{\|l\|l} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | underneath so that fertilizers and conditioners could be added on a regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation. <br> Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. An aggregate DBH of the new trees would be 60 cm , the rate of compensation is beyond the requirements <br> The replacement trees should be planted in accordance with the requirement of the landscape proposal approved by the Planning Department. |  |  |  |
| S4.7.2 | S4 | Existing Granite Revetment Wall <br> The inner stone face along the southern wall of the Site shall be preserved to its original historical appearance. | Inner Southern Wall | During detailed design and construction | $\checkmark$ |
| S4.7.2 | - | New Custom Paving <br> New, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces. | Whole site | During detailed design and construction | $\checkmark$ |
| S4.7.2 | S4 | In-situ Tree Protection - Quarterly inspection <br> Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 - Tree Group Inspection Form and Form 2 - Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction. | Whole site | During post construction and operation | N/A - The quarterly inspection will be conducted at later stage. |
| Noise |  |  |  |  |  |


| $\begin{array}{\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A <br> Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S5.9 | - | The following site practices should be followed during the construction of the Project: <br> - Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; <br> - Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; <br> - Mobile plant, if any, will be sited as far away from NSRs as possible; <br> - Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; <br> - Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and <br> - Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. | Whole Site | During construction | $\checkmark$ |
| S5.9 | - | Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints. | Whole Site | During construction | $\checkmark$ |
| S5.9 | - | Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg $\mathrm{m}^{-2}$ and have no openings or gaps. | Whole Site | During construction | $\checkmark$ |
| S5.9 | - | Use quiet PME as far as practicable to mitigate the construction noise impact. | Whole Site | During construction | $\checkmark$ |
| S5.9 | - | Scheduling of construction activities with identified grouping of PMEs. | Whole Site | During construction | $\checkmark$ |


| $\begin{array}{\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S5.11 | S5 | Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage. | Whole Site | During construction | $\checkmark$ |
| Air Quality |  |  |  |  |  |
| S6.8.1 | - | Dust control measures stipulated in the Air Pollution Control (Construction Dust) Regulation will be implemented during the construction phase to control the potential fugitive dust emissions. | Whole Site | $\begin{array}{\|l\|} \hline \text { During } \\ \text { construction } \end{array}$ | $\checkmark$ |
| S6.8.1 | - | In particular: <br> Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time. | Whole Site | $\begin{array}{\|l\|} \hline \text { During } \\ \text { construction } \end{array}$ | $\checkmark$ |
| S6.8.1 | - | Impervious sheet will be provided for skip hoist for material transport. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | Vehicle washing facilities will be provided at the designated vehicle exit points. | Whole Site | $\begin{aligned} & \text { During } \\ & \text { construction } \end{aligned}$ | $\checkmark$ |
| S6.8.1 | - | Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite. | Whole Site | $\begin{array}{\|l\|} \hline \text { During } \\ \text { construction } \end{array}$ | $\checkmark$ |
| S6.8.1 | - | Road sections between vehicle-wash areas and vehicular entrances will be paved. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | Hoarding of not less than 2.4 m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3 -sides. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | An effective dust screen will be provided to enclose scaffolding, if | Whole Site | During | $\checkmark$ |


| EIA Ref. | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | required, from the ground floor level of building for construction of superstructure of the new buildings. |  | construction |  |
| S6.8.1 | - | Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity. | Area for Demolition Work | During construction | $\checkmark$ |
| S6.8.1 | - | ULSD will be used for all construction plant on-site. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | The engine of the construction equipment or trucks during idling will be switched off. | Whole Site | During construction | $\checkmark$ |
| S6.8.1 | - | Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions. | Whole Site | During construction | N/A - Not observed. |
| S6.10 | S3.2 | Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period. | Whole Site | During construction | $\checkmark$ |
| Water Quality |  |  |  |  |  |
| S7.6 | - | Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in Appendix A1 of ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly. | Whole Site | During construction | $\checkmark$ |
| S7.6 | - | All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of. | Whole Site | During construction | N/A - Not observed. |


| $\begin{array}{\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S7.6 | - | Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities. | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system. | Whole Site | During construction | $\checkmark$ |
| S7.6 | - | Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system. | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention will be paid to the control of silty surface runoff during storm events. | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required. | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor. | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal. | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | Waste streams classifiable as chemical wastes will be properly stored, collected and treated. | Whole Site | During construction | $\checkmark$ |
| S7.6 | - | All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas. | Whole Site | During construction | $\checkmark$ |


| $\begin{array}{\|l\|l\|} \hline \text { EIA } \\ \text { Ref } \end{array}$ | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S7.6 | - | The storage areas will be surrounded by bunds with a capacity equal to $110 \%$ of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters. | Whole Site | During construction | $\checkmark$ |
| S7.6 | - | The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals. | Whole Site | During construction | $\checkmark$ |
| S7.6 | - | Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable. | Whole Site | During construction | N/A - Not observed. |
| S7.6 | - | The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer. | Whole Site | During construction | $\checkmark$ |
| S7.8 | S5.2 | Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem. | Whole Site | During construction | $\checkmark$ |
| Waste Management |  |  |  |  |  |
| S8.5 | $\begin{array}{\|l} \hline \text { S6.3.1 } \\ \& \\ \text { Table } \\ 6.1 \end{array}$ | General <br> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works. | Whole Site | During construction | $\checkmark$ |
| S8.5 | ${ }^{-}$ | Management of Waste Disposal <br> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer. | Whole Site | During construction | $\checkmark$ |
| S8.5 | S6.2 | A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket | Whole Site | During construction | $\checkmark$ |


| $\begin{aligned} & \text { EIA } \\ & \text { Ref } \end{aligned}$ | EM\&A <br> Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | system will be included as one of the contractual requirements and implemented by the contractor. |  |  |  |
| S8.5 | $\begin{aligned} & \hline \text { S6 \& } \\ & \text { Table } \\ & 6.1 \end{aligned}$ | A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase. | Whole Site | During construction | $\checkmark$ |
| S8.5 | S6.3 | Reduction of Construction Waste Generation <br> C\&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable. | Whole Site | During construction | $\checkmark$ |
| S8.5 | S6 | Chemical Waste <br> The contractor will register as a chemical waste producer with the EPD. | Whole Site | During construction and operation | $\checkmark$ |
| S8.5 | S6 | Containers used for storage of chemical waste shall: <br> - Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; <br> - Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and <br> - Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations. | Whole Site | During construction and operation | $\checkmark$ |
| S8.5 | S6 | Storage areas for chemical waste shall: <br> - Be clearly labelled and used solely for the storage of chemical waste; <br> - Be enclosed on at least 3 sides; <br> - Have an impermeable floor and bunding, of capacity to accommodate $110 \%$ of the volume of the largest container or $20 \%$ by volume of the chemical waste stored in that area, whichever is the greatest; <br> - Have adequate ventilation; <br> - Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and | Whole Site | During construction and operation | $\checkmark$ |


| $\begin{array}{\|l\|} \hline \text { EIA } \\ \text { Ref. } \end{array}$ | EM\&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | - Be arranged so that incompatible materials are appropriately separated. |  |  |  |
| S8.5 | S6 | A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility. | Chemical Waste <br> Treatment <br> Centre at Tsing Yi | During construction and operation | $\checkmark$ |
| S8.5 | $\begin{aligned} & \hline \text { S6 \& } \\ & \text { Table } \\ & 6.1 \end{aligned}$ | General Refuse <br> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts. | Whole site | During construction | $\checkmark$ |
| S8.5 | S6 | Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling. | Whole site | During construction and operation | $\checkmark$ |
| S8.5 | S6 | Staff Training <br> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling. | Whole site | Commencement of construction | $\checkmark$ |
| S8.7 | $\begin{aligned} & \text { S6.1 \& } \\ & 6.3 \end{aligned}$ | Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal. | Whole site | During construction | $\checkmark$ |

Remark:
$\sqrt{ }$ Compliance of Mitigation Measures
<> Compliance of Mitigation but need improvement
x Non-compliance of Mitigation Measures

- Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd
$\Delta \quad$ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
N/A Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results


NM2 Ho Fook Building




Annex I

## Construction Programme for the Project






Annex J

## Tree Inspection Reports

Yan Wing（Hong Kong）Environment Management Limited

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Our Ref．：YW／TP／GAMMON／2018／1／1

Gammon Construction Limited
Tel． 25168823
28／F Devon House，
Fax． 25166260

TaiKoo Place 979 King＇s Road
Hong Kong
Attn ：Mr．Cliff C．H．LEUNG，Ms．Oley C．T．WONG

Dear Madam／Sir，

## Summary of Monthly Inspection Report for the Six Existing Trees at Central Police Station Compound for Jan． 2018 <br> （ Contract Ref．：J3416／400．4／D00025 ）

| Tree <br> No． | Botanical <br> Name | Date of Inspection | Overall Health Condition Good／Fair／Poor | Comments and Recommendations |
| :---: | :---: | :---: | :---: | :---: |
| Tree－5 | Mangifera indica芒果 | 10．1．2018 | Good | 1．No further action is required． |
| Tree－6 | Aleurites <br> moluccana石栗 | 10．1．2018 | Fair | 1．Leaves on the crown are rather sparse． <br> 2．Keep close monitoring on the growth of the tree． |
| Tree－7 | Aleurites moluccana石栗 | 10．1．2018 | Fair | 1．Leaves on the crown are rather sparse． <br> 2．Keep close monitoring on the growth of the tree． |
| Tree－8 | Plumeria rubra <br> 紅雞蛋花 | 10．1．2018 | Good | 1．No further action is required． |
| Tree－9 | Araucaria cunninghamia花旗杉 | 10．1．2018 | Good | 1．No further action is required． |


| Tree－11 | Dracaena <br> marginata <br> 馬尾鐵 | 10.1 .2018 | Fair | $1 . \quad$ Withered leaves still appear on the tree． <br> $2 . \quad$ Keep monitoring on the growth of the tree especially <br> during the nearby renovation works are in progress． |
| :--- | :--- | :--- | :--- | :--- |

Tree Inspection Reports and Tree Group Inspection Form（Form 1）are attached for your reference and record，please．

I should be much grateful if you could endorse the attached Invoice（No．1136）and fax it to my office at 24824667 Thank you．

Yours faithfully

For and on behalf of Yan Wing（HK）Environment Management Ltd．


General Information 基本資料

| Company 公司： | Gammon Construction Ltd | Name of Tree Inspection officer 巡相人員姓名： | LAU Man Chung |
| :--- | :--- | :--- | :--- | :--- |
| File Ref．檔案編號： | YW／TP／GAMMON／2018／1／2 | Name of Endorsement Officer 覆核人員姓名： | WONG Pak Hay |
| Date of Inspection 巡査日期： | January 10，2018 |  |  |
| Project／Contract No．合約／工程編號： | J3416／400．4／D00025 |  |  |

Location Information 位置資料


General Tree Information 基本樹木資料

| General Tree Information 基本樹木資料 |  |  |  | ＊Delete as appropriate 請把不合適的删除 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Main tree species in the group or minority tree species of significant size在群組內的主要樹種或樹幹胸徑或高度或樹冠範圍較大的樹種 <br> （Note 2） | Approx．number of trees in the relevant species or as a \％of tree group該樹種在群組內的百份比／數目＊ |  | Range of tree height（ m ）該樹種高度範圍 | Overall health condition整體健康狀況 （good，fair， poor <br> 好，良，差） | Overall structural condition整體結構狀況 （good，fair， poor好，良，差） | Other remarks（Any special tree condition，e．g．dying／dead， pest／disease problem and structural defects；and soil condition其他評語 <br> （樹木狀况例如：凋謝／枯樹／病蟲害或結構問題；及泥土狀况） |
| Mangifera indica 芒果 | 17\％， | 1 No． | 16M | GOOD | GOOD | N．F．A． |
| Aleurites moluccana | 32\％ | 2 Nos． | 10－13M | FAIR | FAIR | 1．Leaves on the crown are rather sparse． <br> 2．Keep close monitoring on the growth of the two trees． |
| Plumeria rubra紅雞蛋花 | 17\％ | 1 No． | 7M | GOOD | GOOD | N．F．A．， |
| Araucaria cunninghamia 花旗杉 | 17\％ | 1 No． | 13M | GOOD | GOOD | N．F．A． |
| Dracaena <br> marginata 馬尾鐵 | 17\％ | 1 No． | 8M | FAIR | FAIR | Keep close monitoring on the growth of the tree． |

Target 目標


Identification of Trees for Remedial Action or Detailed Tree Risk Assessment
識別下述剸木，以便探取風隃緩滅措施或進行詳細樹木風隃評估

| Trees falling under the following criteria樹木屬於以下任何一項或多於一項類別 |  | Number of trees樹木數量 | Remedial action of detailed tree risk assessment緩減措施或進行詳細樹木風險評估 |
| :---: | :---: | :---: | :---: |
| （1） | Trees on complaint list with structural or health problems投訴個案中，結構或健康問題的樹木（Note 1） | NII |  |
| （2） | Mature trees belonging to species with brittle wood structure and having unsatisfactory health or structural conditions with failure potential屬木質脆弱品種並已達成熟期及有倒堸風險的樹木（Note l） | NII |  |
| （3） | Tree with major defects or health problems有明顯缺陷或健康問題的樹木（Note I） | NII |  |
| （4） | Trees growing in very stressful site conditions with failure potential生長於非常㧧堅環境而有倒塌風險的樹木（Note I） | NII |  |

Signature of Tree Inspection Officer ： Signature of Endorsement Officer：


Name of Contractor

Date：


Note 1：If remedial action（such as pruning）undertaken cannot mitigate the potential risk of tree or branch failure，detailed tree risk assessment（using Form 2）should be carried out

Note 2：Please read in conjunction with TMO＇s Guidelines on Tree Risk Assessment and Management Arrangement（Para．4．3，refers．）
備䚾 2：請参閱樹木管理辨事處的樹木風險評估安排及管理指引（第4．3節）

Inspection Report for the 6 Existing Trees
at Central Police Station Compound
( Contract Ref. : J3416/400.4/D00025 )
I. TREE NUMBER: Tree-5 Mangifera indica 芒果
II. BASIC INFORMATION :

| Height (m) | 16 m | Crown spread (m) | 18 m |
| :--- | :---: | :--- | :---: |
| DBH $(\mathrm{mm})$ | 1000 mm | Overall Health Condition <br> Good/Fair/Poor | Good |
| Date of Inspection | $10^{\text {th }}$ January 2018 | Last Inspection Date | $1^{\text {st }}$ December 2017 |

III. COMMENTS :

1. Overall health condition of the tree is good.
2. The crown is full of vigorous and green leaves.
3. Many young and green leaves appear on the branches.
4. Flowers are growing on the tree.
5. Some mango fruits also appear on the tree.
IV. RECOMMENDATIONS:
6. No further action is required.
V. PHOTO RECORD :

Fig 1. Tree number.


Fig 2. The root collar is normal. The planter is covered with small pieces of pine bark.


Fig. 3 Health condition of the lower trunk is fair.


Fig. 4 Health condition of the mid trunk is fair.


Fig. 5 Health condition of the upper trunk also is fair.


Fig. 6 The crown is full of vigorous and green leaves.


Fig. 7 Vigorous and green leaves also are growing on the lower branches.


Fig. 8 Many young and green leaves appear on the tree.


Fig. 9 Flowers also appear on Tree-5.


Fig. 10 Several mango fruits are found hanging on the tree.


Fig. 11 The site near the planter is clean and tidy.


Fig. 12 Overall view of Tree-5 during inspection on $10^{\text {th }}$ January 2018.


Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)
Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)


Dated this :


7

## Inspection Report for the 6 Existing Trees

at Central Police Station Compound
( Contract Ref. : J3416/400.4/D00025 )
I. TREEE NUMBER: Tree-6 Aleurites moluccana 石栗
II. BASIC INFORMATION :

| Height $(\mathrm{m})$ | 10 m | Crown spread $(\mathrm{m})$ | 10 m |
| :--- | :---: | :---: | :---: |
| DBH $(\mathrm{mm})$ | 510 mm | Overall Health Condition <br> Good/Fair/Poor | Fair |
| Date of Inspection | $10^{\text {th }}$ January 2018 | Last Inspection Date | $1^{\text {st }}$ December 2017 |

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Leaves on the crown are rather sparse.
3. Leaves on the lower branches are normal.
4. As dry season has come, some leaves on the tree become faded.
5. The site near Tree-6 seems to be re-constructed.
IV. RECOMMENDATIONS:
6. Keep close monitoring on the growth of the tree.
V. PHOTO RECORD :


Fig 2. Root collar is normal. The planter is covered with mulch and some hessian clothes.


Fig 3. Health condition of the lower trunk is fair.


Fig. 4 Health condition of the mid trunk is fair.


Fig. 5 Health condition of the upper trunk also is fair.



Fig. 7 Leaves on the lower branches are normal.


Fig. 8 Some young and green leaves appear on the tree.


Fig. 9 As dry season has come, some leaves on the tree become faded.


Fig. 10 The tree protection zone is in good order.


Fig. 11 The site near Tree-6 seems to be re-constructed.


Fig. 12 Overall view of Tree-6 during inspection on $10^{\text {th }}$ January 2018.


Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A) Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)


Name of Contractor :

Dated this :


Inspection Report for the 6 Existing Trees
at Central Police Station Compound
( Contract Ref. : J3416/400.4/D00025 )
I. TREEE NUMBER: Tree-7 Aleurites moluccana 石栗
II. BASIC INFORMATION :

| Height $(\mathrm{m})$ | 13 m | Crown spread $(\mathrm{m})$ | 12 m |
| :--- | :---: | :--- | :---: |
| DBH $(\mathrm{mm})$ | 650 mm | Overall Health Condition <br> Good/Fair/Poor | Fair |
| Date of Inspection | $10^{\text {th }}$ January 2018 | Last Inspection Date | $1^{\text {st }}$ December 2017 |

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Leaves on the crown are rather sparse.
3. Leaves on the lower branches are normal.
4. Some young and green leaves appear on the tree.
5. The site near Tree-7 seems to be re-constructed.
IV. RECOMMENDATIONS:
6. Keep close monitoring on the growth of the tree.
V. PHOTO RECORD :


Fig. 2 Root collar is normal. The planter is covered with wet hessian clothes.


Fig 3. Health condition of the lower trunk is fair.


Fig. 4 Health condition of the mid trunk also is fair.


Fig. 5 Leaves on the crown are rather sparse.


Fig. 6 Leaves on the lower branches are normal.


Fig. 7 Some young and green leaves appear on the tree.


Fig. 8 As dry season has come, some leaves on the tree become faded.


Fig. 9 The tree protection zone is in good order.


Fig. 10 The bare roots at the pits have been wrapped with hessian clothes.


Fig. 11 The site near Tree-7 seems to be re-constructed.


Fig. 12 Overall view of Tree-7 during inspection on $10^{\text {th }}$ January 2018.


Signature of Inspection Officer :
(Mr. Lau Man-chung, ISA CA-HK0045A) Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager) Name of Contractor :

Dated this :


Yan Wing (H) Environment Management Ltd.
$15^{\text {th }}$ January 2018


Inspection Report for the 6 Existing Trees at Central Police Station Compound
（ Contract Ref．：J3416／400．4／D00025 ）

1．TREEE NUMBER：Tree－8 Plumeria rubra 紅雞蛋花

11．BASIC INFORMATION ：

| Height（m） | 7 m | Crown spread（m） | 9 m |
| :--- | :---: | :--- | :---: |
| DBH $(\mathrm{mm})$ | 430 mm | Overall Health Condition <br> Good／Fair／Poor | Good |
| Date of Inspection | $10^{\text {th }}$ January 2018 | Last Inspection Date | $1^{\text {st }}$ December 2017 |

III．COMMENTS：
1．Overall health condition of the tree is good．
2．As dry season has come，leaves on the tree become sparse．
3．Tree protection zone is in good order．
4．The site near Tree－8 seems to be re－constructed．

IV．RECOMMENDATIONS ：
1．No further action is required．
v．PHOTO RECORD ：


Fig. 2 Root collar is normal. The planter is covered with mulch and dry leaves.


Fig. 3 Health condition of the lower trunk is fair.


Fig. 4 Health condition of the mid trunk is fair.


Fig. 5
Health condition of the upper trunk also is fair,


Fig. 6 As dry season has come, leaves on the tree become sparse.


Fig. 7 Some leaves still remain on the lower branches.


Fig. 8 Some leaves on the crown become faded.


Fig. 9 The tree protection zone is in good order.


Fig. 10 The site near the planter seems to be re-constructed.


Fig. 11 Many construction equipment are placed near Tree-8.


Fig. 12 Overall view of Tree-8 during inspection on $10^{\text {th }}$ January 2018.


Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A) Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)


Dated this:

Yan Wing(НН) Environment Management Ltd.
$15^{\text {th }}$ January 2018

## Inspection Report for the 6 Existing Trees

at Central Police Station Compound
（ Contract Ref．：J3416／400．4／D00025 ）

I．TREEE NUMBER：Tree－9 Araucaria cunninghamia 花旗杉

II．BASIC INFORMATION ：

| Height（m） | 13 m | Crown spread（m） | 5 m |
| :--- | :---: | :--- | :---: |
| DBH $(\mathrm{mm})$ | 230 mm | Overall Health Condition <br> Good／Fair／Poor | Good |
| Date of Inspection | $10^{\text {th }}$ January 2018 | Last Inspection Date | $1^{\text {st }}$ December 2017 |

III．COMMENTS ：
1．Overall health condition of the tree is good．
2．The crown is full of vigorous and green leaves．
3．Some young and green leaves appear on the tree．
4．The site near Tree－9 appears clean and tidy．

IV．RECOMMENDATIONS：
1．No further action is required．

V．PHOTO RECORD ：


Fig. 2 Root collar is normal. The planter is covered with mulch and dry leaves.


Fig. 3 Health condition of the lower trunk is fair.


Fig. 4 Health condition of the mid trunk is fair.


Fig. 5 Health condition of the upper trunk also is fair.


Fig. 6 The crown is full of vigorous and green leaves.


Fig. $7 \quad$ Vigorous and green leaves also are growing on the lower branches.


Fig. 8 Some young and green leaves appear on the mid trunk.


Fig. 9 Young and green leaves also appear on the lower branches.


Fig. 10 The tree protection zone is in good order.


Fig. 11 The site near Tree-9 is clean and tidy.


Fig. 12 Overall view of Tree-9 during inspection on $10^{\text {th }}$ January 2018.


Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)
Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)


Yan Wing (14K) Environment Management Ltd.


Dated this :


## Inspection Report for the 6 Existing Trees

at Central Police Station Compound
（ Contract Ref．：J3416／400．4／D00025 ）

I．TREEE NUMBER：Tree－11 Dracaena marginata 馬尾鐵

II．BASIC INFORMATION ：

| Height（m） | 8 m | Crown spread（m） | 2 m |
| :--- | :---: | :---: | :---: |
| DBH（mm） | 170 mm | Overall Health Condition <br> Good／Fair／Poor | Fair |
| Date of Inspection | $10^{\text {th }}$ January 2018 | Last Inspection Date | $1^{\text {st }}$ December 2017 |

III．COMMENTS：
1．Health condition of the tree is fair．
2．Withered leaves still appear on the tree．
3．A few construction debris remained at the planter．
4．Two large working platforms have been set up close to Tree－11 for renovation works．

IV．RECOMMENDATIONS
1．Remove the construction debris away from the planter．
2．Keep close monitoring on the growth of the tree especially during the nearby renovation works are in progress．

V．PHOTO RECORD ：


Fig. 2 Root collar is normal. A few construction debris remain at the planter.


Fig. 3 Health condition of the lower trunk is fair.


Fig. 4 Health condition of the mid trunk is fair.


Fig. 5 Health condition of the upper trunk also is fair.


Fig. 6 Some leaves on the bottom part of Tree-11 are covered with cement.


Fig. 7 Withered leaves still appear on the lower branches.


Fig. 8 Withered leaves also appear on the upper branches.


Fig. $9 \quad$ A large working platform has been set up close to Tree-11.


Fig. 10 Another large working platform also set up close to Tree-11 for renovation works.


Fig. 11 The tree protection zone is in order.


Fig. 12 Overall view of Tree-11 during inspection on $10^{\text {th }}$ January 2018.


Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)
Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)


Name of Contractor :
Yan Wing ( 4 K) Environment Management Ltd.

Dated this :


Annex K

## Environmental Complaint, Environmental Summons and Prosecution Log

## Annex K Cumulative Complaint and Summons/Prosecutions Log

| Reporting Month | Number of Complaints in Reporting Month | Number of Summons/Prosecutions in Reporting Month |
| :---: | :---: | :---: |
| November 2011 | 0 | 0 |
| December 2011 | 0 | 0 |
| January 2012 | 0 | 0 |
| February 2012 | 0 | 0 |
| March 2012 | 4 | 0 |
| April 2012 | 0 | 0 |
| May 2012 | 0 | 0 |
| June 2012 | 2 | 0 |
| July 2012 | 1 | 0 |
| August 2012 | 0 | 0 |
| September 2012 | 0 | 0 |
| October 2012 | 0 | 0 |
| November 2012 | 2 | 0 |
| December 2012 | 0 | 0 |
| January 2013 | 0 | 0 |
| February 2013 | 1 | 0 |
| March 2013 | 1 | 0 |
| April 2013 | 0 | 0 |


| Reporting Month | Number of Complaints in Reporting Month | Number of Summons/Prosecutions in Reporting Month |
| :---: | :---: | :---: |
| May 2013 | 0 | 0 |
| June 2013 | 0 | 0 |
| July 2013 | 0 | 0 |
| August 2013 | 0 | 0 |
| September 2013 | 0 | 0 |
| October 2013 | 0 | 0 |
| November 2013 | 0 | 0 |
| December 2013 | 0 | 0 |
| January 2014 | 2 | 0 |
| February 2014 | 1 | 0 |
| March 2014 | 1 | 0 |
| April 2014 | 1 | 0 |
| May 2014 | 0 | 0 |
| June 2014 | 0 | 0 |
| July 2014 | 2 | 0 |
| August 2014 | 3 | 0 |
| September 2014 | 2 | 0 |
| October 2014 | 1 | 0 |
| November 2014 | 0 | 0 |


| Reporting Month | Number of Complaints in Reporting Month | Number of Summons/Prosecutions in Reporting Month |
| :---: | :---: | :---: |
| December 2014 | 0 | 0 |
| January 2015 | 0 | 0 |
| February 2015 | 1 | 0 |
| March 2015 | 1 | 0 |
| April 2015 | 0 | 0 |
| May 2015 | 1 | 0 |
| June 2015 | 1 | 0 |
| July 2015 | 1 | 0 |
| August 2015 | 1 | 0 |
| September 2015 | 0 | 0 |
| October 2015 | 0 | 0 |
| November 2015 | 0 | 0 |
| December 2015 | 0 | 0 |
| January 2016 | 0 | 0 |
| February 2016 | 0 | 0 |
| March 2016 | 1 | 0 |
| April 2016 | 0 | 0 |
| May 2016 | 0 | 0 |


| Reporting Month | Number of Complaints in Reporting Month | Number of Summons/Prosecutions in Reporting Month |
| :---: | :---: | :---: |
| July 2016 | 0 | 0 |
| August 2016 | 0 | 0 |
| September 2016 | 1 | 0 |
| October 2016 | 0 | 0 |
| November 2016 | 0 | 0 |
| December 2016 | 0 | 0 |
| January 2017 | 0 | 0 |
| February 2017 | 0 | 0 |
| March 2017 | 0 | 0 |
| April 2017 | 0 | 0 |
| May 2017 | 0 | 0 |
| June 2017 | 0 | 0 |
| July 2017 | 0 | 0 |
| August 2017 | 0 | 0 |
| September 2017 | 0 | 0 |
| October 2017 | 0 | 0 |
| November 2017 | 0 | 0 |
| December 2017 | 1 | 0 |
| January 2018 | 0 | 0 |


| Reporting Month | Number of Complaints in Reporting Month | Number of Summons/Prosecutions in Reporting Month |
| :---: | :---: | :---: |
| Overall Total | 34 | 0 |

Annex L

## Records of Vibration Monitoring for Other Construction Works



## Vibration Monitoring Record (January)

|  | Block 11 |  |  |
| :---: | :---: | :---: | :---: |
| Point | VM11-1 | VM11-2 |  |
| Date | $\mathrm{mm} / \mathrm{s}$ | $\mathrm{mm} / \mathrm{s}$ |  |
| 1-Jan-2018 |  |  |  |
| 2-Jan-2018 | $\mathbf{0 . 1 0 7}$ | $\mathbf{0 . 1 0 8}$ |  |
| 3-Jan-2018 | $\mathbf{0 . 1 1 4}$ | $\mathbf{0 . 1 0 5}$ |  |
| 4-Jan-2018 | $\mathbf{0 . 1 0 5}$ | $\mathbf{0 . 1 0 4}$ |  |
| 5-Jan-2018 | $\mathbf{0 . 1 0 2}$ | $\mathbf{0 . 1 1 6}$ |  |
| 6-Jan-2018 | $\mathbf{0 . 1 0 9}$ | $\mathbf{0 . 1 0 4}$ |  |
| 7-Jan-2018 |  |  |  |
| 8-Jan-2018 | $\mathbf{0 . 1 0 5}$ | $\mathbf{0 . 1 0 2}$ |  |
| 9-Jan-2018 | $\mathbf{0 . 1 1 9}$ | $\mathbf{0 . 1 0 5}$ |  |
| 10-Jan-2018 | $\mathbf{0 . 1 0 7}$ | $\mathbf{0 . 1 0 3}$ |  |
| 11-Jan-2018 | $\mathbf{0 . 1 0 3}$ | $\mathbf{0 . 1 1 0}$ |  |
| 12-Jan-2018 | $\mathbf{0 . 1 1 6}$ | $\mathbf{0 . 1 0 2}$ |  |
| 13-Jan-2018 | $\mathbf{0 . 1 0 4}$ | $\mathbf{0 . 1 0 7}$ |  |
| 14-Jan-2018 |  |  |  |
| 15-Jan-2018 | $\mathbf{0 . 1 0 6}$ | $\mathbf{0 . 1 0 6}$ |  |
| 16-Jan-2018 | $\mathbf{0 . 1 0 9}$ | $\mathbf{0 . 1 0 3}$ |  |
| 17-Jan-2018 | $\mathbf{0 . 1 0 6}$ | $\mathbf{0 . 1 0 6}$ |  |
| 18-Jan-2018 | $\mathbf{0 . 1 2 3}$ | $\mathbf{0 . 1 0 2}$ |  |
| 19-Jan-2018 | $\mathbf{0 . 1 0 5}$ | $\mathbf{0 . 1 0 6}$ |  |
| 20-Jan-2018 | $\mathbf{0 . 1 0 4}$ | $\mathbf{0 . 1 0 3}$ |  |
| 21-Jan-2018 |  |  |  |
| 22-Jan-2018 | $\mathbf{0 . 1 1 2}$ | $\mathbf{0 . 1 0 4}$ |  |
| 23-Jan-2018 | $\mathbf{0 . 1 0 7}$ | $\mathbf{0 . 1 0 7}$ |  |
| 24-Jan-2018 | $\mathbf{0 . 1 0 4}$ | $\mathbf{0 . 1 0 3}$ |  |
| 25-Jan-2018 | $\mathbf{0 . 1 0 9}$ | $\mathbf{0 . 1 0 8}$ |  |
| 26-Jan-2018 | $\mathbf{0 . 1 0 2}$ | $\mathbf{0 . 1 0 2}$ |  |
| 27-Jan-2018 | $\mathbf{0 . 1 0 8}$ | $\mathbf{0 . 1 0 2}$ |  |
| 28-Jan-2018 |  |  |  |
| 29-Jan-2018 | $\mathbf{0 . 1 0 2}$ | $\mathbf{0 . 1 0 5}$ |  |
| 30-Jan-2018 | $\mathbf{0 . 1 0 4}$ | $\mathbf{0 . 1 0 3}$ |  |
| 31-Jan-2018 | $\mathbf{0 . 1 0 9}$ | $\mathbf{0 . 1 0 5}$ |  |
|  |  |  |  |
|  |  |  |  |


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