QUARTERLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Third Quarterly EM&A Report (1 May 2012 to 31 July 2012)

Issue Date: September 2012

Environmental Resources Management

16/F

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Central Police Station Conservation and Revitalisation Project: Third Quarterly EM&A Report (1 May 2012 to 31 July 2012)

Issue Date: September 2012

Reference 0095646

| For and on behalf of | | | |
|------------------------|-------------------------------------|--|--|
| ERM-Hong Kong, Limited | | | |
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| | ironmental Team Leader – Winnie Ko) | | |
| Date: | September 2012 | | |

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

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Attn: Ms Winnie Ko

Dear Winnie.

Central Police Station Conservation and Revitalization Project Verification of Third Quarterly EM&A Report

We refer to your letter dated 4 September 2012 regarding the Third Quarterly EM&A Report of the Project. Atkins China Ltd. verifies, in the capacity of Independent Environmental Checker, that the Third Quarterly EM&A Report, in principle, conforms the requirements provided in Section 10.4 of the EM&A Manual.

Yours sincerely, For Atkins China Ltd.

Independent Environmental Checker

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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 third quarterly Environmental Monitoring and Audit (EM&A) summary report presenting the EM&A works carried out during the period from 1 May 2012 and 31 July 2012 in accordance with the EM&A Manual.

Environmental Monitoring and Audit Progress

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

| • | Construction Noise Monitoring during normal weekdays at | |
|---|---|----------|
| | each monitoring station | 16 times |
| • | Joint Environmental Site Inspection | 3 times |
| • | Joint Heritage Site Inspection | 3 times |
| • | Landscape & Visual Monitoring | 3 times |
| • | Tree Inspection | 3 times |
| • | Vibration monitoring for demolition works | 40 times |
| • | Vibration monitoring for trial piling works | 46 times |
| • | Vibration monitoring for other construction works | 74 times |
| | | |

Noise

16 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 Limit Level of construction noise was recorded during the reporting period. Three exceedances of Action Level of noise were recorded during the reporting period.

Cultural Heritage

40 vibration measurement events for Stage 1 and Stage 2 demolition works and 46 vibration measurement events for trial piling works were undertaken during the reporting period. Additionally, a total of 74 numbers of vibration monitoring events for underpinning, strengthening and structural alteration works at Block 8 were carried out throughout the reporting period.

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

Three monthly heritage site inspections were conducted and the Contractor has generally implemented the necessary protection measures as recommended.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Three monthly tree inspections have been conducted by the

arborist during the reporting period. Most recommended actions have been performed by the Contractor as advised in the reporting period.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. 1093.42 tonnes of inert C&D materials and 86.96 tonnes of non-inert C&D materials were generated during the reporting period. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 2,850 kg of metals and 568 kg of paper/cardboard packaging were produced and sent to recyclers for recycling. 40 kg of solid chemical waste and 45 L of liquid chemical waste were generated during the reporting period. No plastics waste was generated during the reporting period.

Environmental Site Inspection

Three joint environmental site inspections were carried out by the representatives of the Contractor, the IEC and the ET during the reporting period. The Contractor has generally implemented the mitigation measures as recommended.

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

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

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

One enquiry was received during the reporting period.

No non-compliance event was recorded during the reporting period.

There were three complaints received during the reporting period.

No summons/prosecutions were received in this reporting period.

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1 INTRODUCTION

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 third quarterly EM&A summary report, which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 May and 31 July 2012.

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 contract 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 Mitigation Measures

summarises the implementation of environmental protection measures during the reporting period.

Section 5: **Monitoring Results**

summarises the monitoring and waste management results obtained in the reporting period.

Section 6: **Environmental Site Inspection**

summarises the audit findings of the monthly site inspections undertaken within the reporting period.

Section 7: **Environmental Non-conformance** summarises any monitoring exceedance, environmental complaints and environmental summons received within the reporting period.

Section 8: **Review of the EM&A Data and EIA Predictions** compares the monitoring data and waste quantity against predictions in the approved Project EIA report.

Section 9: Conclusions

2 PROJECT INFORMATION

2.1 BACKGROUND

The Chief Executive (CE)'s 2007-2008 Policy Address highlighted revitalisation as the guiding principle of heritage conservation and the Project was among one of the specific proposals put forward by the CE in the same Policy Address. At the meeting of the Executive Council (ExCo) on 15 July 2008, the ExCo advised and the CE ordered that Government should enter into a partnership with the Hong Kong Jockey Club (HKJC) in the form of an agreement (or agreements) to take forward the conservation and revitalisation of the CPS project based on various guiding parameters. The Project is now being undertaken in partnership with the Development Bureau of the HKSAR Government. The HKJC has taken on board the decision at the ExCo meeting and further investigated the design and implementation of the Project. The Project is now implemented by the CPS Limited.

2.2 SITE DESCRIPTION

The location of the Project Site is shown in *Annex A1*. The Site is bounded by Hollywood Road to the north, Arbuthnot Road to the east, Chancery Lane to the south and Old Bailey Street to the west.

The Site comprises three Declared Monuments designated under the *Antiquities and Monuments Ordinance* in 1995. They are:

- Central Police Station;
- Former Central Magistracy; and
- Victoria Prison Compound.

They are collectively named the Central Police Station (CPS). *Annex A2* shows the location of the Declared Monuments within CPS and the buildings within the CPS.

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*.

Table 2.1 Summary of Construction Activities undertaken in this Reporting Period

Construction Activities Undertaken

- Demolition works (Stage 2)
- Underpinning works, strengthening works and structural alteration works (Blocks 8 and Block 17);
- Trial piling works (including grouting works); and
- Preservation by record.

2.4 CONSTRUCTION PROGRAMME

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

2.5 PROJECT ORGANISATION AND MANAGEMENT STRUCTURE

The Project organization chart, hotline number and contact details are shown in *Annex B*.

2.6 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP in April 2011 is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

| Permit/ Licences/ Notification | Reference | Validity Period | Remarks |
|--|---------------------------------------|--|--|
| Environmental Permit (EP) | EP-408/2011 | - | superseded by EP- 408/2001/A |
| | EP-408/2011/A | - | superseded by EP- 408/2001/B |
| | EP-408/2011/B | Throughout the Contract | Permit granted on 22 March 2012 |
| Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation | Ref. No. 332920 | Throughout the Contract | - |
| Registration of Waste Producer under Waste Disposal Ordinance | Waste Producer No.: 5213-122-G2347-25 | Throughout the Contract | - |
| Effluent Discharge License under Water Pollution Control Ordinance | License No. WT00010633-2011 | 21 Oct 2011 - 31 Oct 2016 | - |
| Notification of Commencement of Asbestos Abatement Work under Air Pollution Control Ordinance | - | Throughout the Contract | EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO |
| Approval of Asbestos Abatement Work (Phase 2) | - | Earliest commencement date on 26 January 2012. | EPD's letter (EPD's ref:() in EPAC/A/4/000/23 3) dated 18 January 2012. |
| Construction Noise Permit (CNP) | GW-RS0734-12 | 11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours | - |

3.1 Noise Monitoring

3.1.1 Monitoring Location

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

 Table 3.1
 Construction Phase Noise Monitoring Locations

| Monitoring Location | Proposed Construction Noise Monitoring Station | | | |
|--------------------------------|--|-----|------------------------|---|
| | ID in EM&A Manual | ID | Type of Measurement | Remark |
| Rooftop of Ho Fook Building | N2 | NM2 | Façade | - |
| Rooftop of Chancery Mansion | | NM6 | Façade | Accesses to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), were rejected; 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 (L_{eq}) in decibels dB(A). $L_{eq~(30min)}$ 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 L_{10} and 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 IEC 651: 1979 and 804:1985 (Type 1) specification. The calibration certificates of the sound level meters are included in *Annex E*.

Table 3.2 Noise Monitoring Equipment

| Monitoring Stations | Monitoring Equipment (Sound Level Meter and Calibrator) |
|----------------------------|---|
| NM2, NM6 | <u>Calibrator</u> Rion NC-73 (S/N 10997142) |
| | Sound Level Meter Rion-NL52 (S/N 00710259) |

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 dB.

3.1.4 Event / Action Plan

Table 3.3 Action and Limit Levels for Construction Noise Monitoring

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

Notes:

- a) Acceptable Noise Levels for Area Sensitivity Rating of A/B/C. Limit Level is reduced to 70dB(A) for schools and 65dB(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.

A set of initial readings should be recorded prior to commencement of each stage of demolition works or trial piling works. The baseline vibration monitoring should be conducted for duration of 5 minutes on the measurement day(s) at each vibration monitoring location.

Vibration Monitoring for Demolition Works

There are five phases/stages of vibration monitoring to be carried out for demolition works, namely Initial Reading Phase, Monitoring Stage 1, Monitoring Stage 2, Monitoring Stage 3 and Monitoring Stage 4. The monitoring location is shown in *Annex L*. The vibration monitoring should be conducted for duration of 5 minutes on the days with demolition works at each vibration monitoring location.

Vibration Monitoring for Trial Piling Works

Vibration monitoring for trial piling works is required. The monitoring location is shown in *Annex M*. The vibration monitoring should be conducted for duration of 5 minutes on the days with trial piling works at each vibration monitoring location.

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than the demolition and trial piling works are also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex N*. 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 Monitoring | Horizontal Movement | 2.0 mm/s | 2.5 mm/s | 3.0 mm/s |

The Event / Action Plan (EAP) for vibration monitoring is shown in *Table 3.5*.

Table 3.5 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 in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

3.3 LANDSCAPE AND VISUAL MONITORING

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.

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL MITIGATION MEASURES

The Contractor has generally implemented the environmental mitigation measures and requirements as stated in the EIA Report, EM&A Manual, EP and the contract documents. The implementation status during the reporting period is summarised in *Annex G*.

Status of required submissions under the EP during the reporting period is presented in *Table 4.1*.

Table 4.1 Status of Required Submissions

| Submission | | Submission Date |
|----------------|---|-----------------|
| EP Condition | | |
| Conditions 3.4 | Sixth Monthly EM&A Report | 14 May 2012 |
| | Seventh Monthly EM&A Report | 14 June 2012 |
| | Eighth Monthly EM&A Report | 17 July 2012 |
| EM&A manual | | |
| Section 10.4 | Second Quarterly EM&A Report | 14 June 2012 |

5.1 Noise

A total of 16 sets of 30-minute construction noise measurements were carried out at each monitoring station, 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 Limit level of construction noise was recorded during the reporting period. Three exceedances of Action Level of noise were recorded during the reporting period. Investigations of the exceedances are presented in *Section 7.1.4*.

5.2 LANDSCAPE AND VISUAL MONITORING

Three monthly tree inspections were conducted by the arborist during the reporting period on 21 May 2012, 7 June 2012 and 19 July 2012 and key findings and recommendations are summarised in *Table 5.1*.

Table 5.1 Findings of Monthly Tree Inspections in the Reporting Period

| Tree No. | Botanical Name | Overall Health Condition | Arborist's Observation / Recommendations |
|-------------|---------------------------|-----------------------------|---|
| 21 May 201 | 2 | | |
| Tree -5 | Mangifera indica | Good | To trim the lower branches; and |
| | | | To remove all undergrowth. |
| Tree -6 | Aleurites moluccana | Fair | • To trim the lower branches. |
| Tree-7 | Aleurites moluccana | Fair | • To trim the lower branches. |
| Tree-8 | Plumeria rubra | Fair | No further action required. |
| Tree-9 | Araucaria cunninghamia | Fair | Wounds of the tree have been recovered. |
| Tree-11 | Dracaena marginata | Fair | To remove the dead branches before typhoon seasons. |
| 7 June 2012 | | | |
| Tree -5 | Mangifera indica | Good | To trim the lower branches. |
| | | | All the undergrowth was removed on 7 June 2012. |
| Tree -6 | Aleurites moluccana | Fair | • Overgrown branches/leaves were pruned on 1 June 2012. |

| Tree No. | Botanical Name | Overall Health Condition | Arborist's Observation / Recommendations | |
|-------------|---------------------------|-----------------------------|---|--|
| Tree-7 | Aleurites moluccana | Fair | Overgrown branches/leaves were pruned on 1 June 2012. | |
| Tree-8 | Plumeria rubra | Fair | No further action required. | |
| Tree-9 | Araucaria cunninghamia | Fair | The tree emits transparent juice on a cavity. Close observation is required in the coming months. | |
| Tree-11 | Dracaena marginata | Fair | To remove the dead branches before typhoon seasons. | |
| 19 July 201 | 2 | | | |
| Tree -5 | Mangifera indica | Good | To trim the lower branches. | |
| Tree -6 | Aleurites moluccana | Fair | No further action required. | |
| Tree-7 | Aleurites moluccana | Fair | No further action required. | |
| Tree-8 | Plumeria rubra | Fair | No further action required. | |
| Tree-9 | Araucaria cunninghamia | Fair | No further action required. | |
| Tree-11 | Dracaena marginata | Fair | • To remove the dead branches; | |
| | | | To remove litter and weeds. | |

Follow-up actions needed to be implemented were recommended to the Contractor and the status of the follow-up actions was reviewed during the subsequent monthly site inspections. Most recommendations have been implemented by the Contractor during the reporting period, but some are yet to be implemented as presented in *Table 5.1*.

5.3 CULTURAL HERITAGE

5.3.1 Vibration Monitoring

26 numbers of vibration monitoring were taken in May 2012 for the Stage 1 and Stage 2 demolition works of Building M and Wall 12. In June 2012, a total of 14 vibration monitoring measurements were conducted for the Stage 2 demolition works of Building M and Building P. No demolition works were carried out in the subsequent month and thus no vibration monitoring for the demolition works were undertaken in July 2012. The records of vibration monitoring are shown in *Annex L*.

A total of 26 vibration monitoring measurements in May 2012 and 20 vibration monitoring measurements in June 2012 were conducted for the trial piling works. No trial piling works were reported by the Contractor in July 2012 and thus no vibration monitoring for the trial piling works were carried out in that month. The monitoring readings during the reporting period are presented in *Annex M*.

Vibration monitoring for underpinning, strengthening and structural alteration works at Block 8 has been conducted throughout the reporting period in which a total of 26, 25 and 23 numbers of vibration monitoring

measurements were taken in May, June and July, respectively. The records of vibration monitoring are presented in *Annex N*.

All monitoring results were below the Alert/ Alarm/ Action Levels.

5.3.2 Heritage Site Audit

Three monthly heritage site audits were conducted on 16 May, 15 June, and 12 July 2012 by the Heritage Checker. Follow-up actions were undertaken as reported by the Contractor and observed in the subsequent monthly site inspections conducted in the reporting period. Key site audit findings and recommendations are summarised below.

16 May 2012

Excessive amount of pigeon guano were observed in the Barrack Block.
 The Contractor was advised to clean the guano on a daily basis.

15 June 2012

- the Contractor was reminded to ensure that all demolition works at the interfaces with the historical buildings are conducted in accordance with the method statements; and
- Remove debris from the ladder store to Building 13.

12 July 2012

• The stacking of Building 8 doors in Building 06 was not adequate. The Contractor has been recommended to provide additional support to doors at high level or stack the doors on their long length.

A summary of the current condition of character defining elements, historic buildings and structures is contained in *Annex O*.

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. 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*. The summary of Waste Flow Table prepared by the Contractor is shown in *Annex J*. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 2,850 kg of metals and 568 kg of paper/cardboard packaging were produced and sent to recyclers for recycling. 40 kg of solid chemical waste and 45 L of liquid chemical waste were generated during the reporting period. No plastics waste was generated during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

| Month / Year | Quantity | | | | | | |
|--------------|--------------|--------------|--------|--------------------|-----------------|----------|--------|
| | C&D | C&D Chemical | | Recycled materials | | | |
| | Materials | Materials | Waste | | | | |
| | (inert) | (non-inert) | Liquid | Solid | Paper/cardboard | Plastics | Metals |
| | (tonnes) (a) | (tonnes) (b) | (L) | (kg) | (kg) | (kg) | (kg) |
| May 2012 | 492.33 | 36.33 | 0 | 0 | 266 | 0 | 0 |
| June 2012 | 383.11 | 27.41 | 45 | 40 | 0 | 0 | 1100 |
| July 2012 | 217.98 | 23.22 | 0 | 0 | 302 | 0 | 1750 |
| Total | 1,093.42 | 86.96 | 45 | 40 | 568 | 0 | 2,850 |

Notes:

- (a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.
- (b) Non-inert C&D materials include wastes such as general refuse which were disposed of at SENT Landfill and recyclable materials are paper, cardboard, plastics and metals. The figure presented under non-inert C&D materials represents quantities of non-recyclable materials. Recycled materials are reported separately.

5.5 EFFECTIVENESS OF MITIGATION MEASURES AND MONITORING

The mitigation measures recommended in the EIA report and required by the EP are considered effective in minimising environmental impacts.

The EM&A for the Project was conducted as scheduled during the reporting period. No non-compliance events were observed during site inspections but three exceedances of Action Level of noise were recorded during the reporting period.

6 ENVIRONMENTAL SITE INSPECTION

Three monthly environmental site inspections were conducted on 16 May, 15 June and 12 July 2012 during the reporting period. There was no non-compliance recorded during the site inspections. Key site audit findings and recommendations are summarised below. Monthly recommendations and observations were implemented and rectified by the Contractor in the subsequent monthly site inspections.

16 May 2012

- Stagnant water was observed in the yellow rubbish bin near the site office.
 The Contractor was reminded to remove the stagnant water and cover the holes on all rubbish bins on site with plastic sheet to prevent water entering the rubbish bins.
- Stockpile of soil was observed near the Arbuthnot Wing. The Contractor
 was recommended to cover the temporary stockpile of soil with
 impervious sheet to avoid fugitive dust emission and the generation of
 muddy water during raining season.
- No noise barrier or noise insulating sheet was provided for the trial piling works during the site inspection. The Contractor was reminded to implement proper noise mitigation measures to reduce the noise impact.

15 June 2012

• Nil.

12 July 2012

• Nil.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1.1 Summary of Monitoring Exceedance

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

7.1.2 Summary of Enquiry

One enquiry was recorded during the reporting period. On 22 May 2012, an enquiry letter from residents at Mood@Soho on start time of construction work was received by Gammon Construction Limited (GCL). The enquiry was raised whether the construction works can be delayed 30 minutes to an hour each day for heavy/noisy machinery. GCL has liaised with the managing agent of Mood@Soho, and a written reply to the enquiry has been provided by GCL to the management office of Mood@Soho. The letter of reply is presented in *Annex K*.

7.1.3 Summary of Environmental Non-Compliance

No non-compliance event was recorded during the reporting period.

7.1.4 Summary of Environmental Complaint

Three complaints about noise nuisance were received during reporting period. They are summarised in *Table 7.1*.

Table 7.1 Summary of Complaint Received

| Date | Means by which complaint was received | Nature of complaint |
|--------------|---|---------------------|
| 14 June 2012 | Environmental Protection Department | Noise nuisance |
| 28 June 2012 | Central Police Station Website, Enquiry System | Noise nuisance |
| 20 July 2012 | Police | Noise nuisance |

Complaints Received on 14 June 2012 and 28 June 2012

On 14 June, the Contractor received a complaint from the EPD that a neighbourhood resident complained the noise nuisance from Project Site near the Chancery Lane at around 8:30 pm on 13 June 2012. According to the works summary provided by the Contractor, no major construction activities were carried out but only manual washing of pile tubes was conducted near Block 17 at around 8:30pm on 13 June 2012. In light of the proximity of the location of the complainant and that of the works taken, manual washing of pile tubes could be the possible source of noise nuisance.

On 28 June, the Contractor was informed of a complaint about the noise nuisance generated from the Project Site at 8:30 pm on 12 June 2012, which

was recorded on the Enquiry System of the Central Police Station Website on 12 June 2012. According to the information provided by the Contractor, no major construction activities were carried out but only manual washing of grouting tube and casing and site cleaning work were conducted near Block 17 at around 8:30 pm on 12 June 2012.

The Contractor was reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers. The following measures have also been implemented by the Contractor to further minimise the noise nuisance to the adjacent users:

- Operation team (e.g. site agent, sub-agent) has conducted site inspection at 6:00 pm since 14 June 2012 to ensure all construction works cease and to switch off the operating PME (e.g. ventilation fan) if no valid CNP was granted by the EPD;
- Reminder letters regarding the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor on 18 June 2012;
- An internal meeting with manager of Gammon, the Engineer and site agent was carried out on 18 June 2012 to emphasize the application of CNP, period of restricted hours and in-house rules for working in the restricted hours;
- Tool Box Talk about good site practices, work during restricted hours and Permit to Work System has been conducted for frontline workers and operation supervisor team on 20 June 2012; and
- Electricity supply to the construction on site has been automatically switched off at 6:50 pm besides the supply for the office and emergency lighting since 25 June 2012.

Complaint Received on 20 July 2012

On 20 July 2012, the Police had received a complaint on a noise nuisance in the morning. Subsequent to the receipt of the complaint, a policeman carried out a site inspection at the Project Site at around 9:30am. According to the works summary provided by the Contractor, there were no major construction activities undertaken on 20 July 2012 and the works carried out on that day are not considered to give rise to significant noise due to the work nature and the equipment used for each work. Handheld electric grinder and electric welding machine were only used for five to ten minutes during the embellishing work for the concrete spiral staircase mockup. Ventilation fan was used during underpinning works, while hand tools such as shovels or trowels were used for manual back filling of archaeological pits. No major construction activities were carried out during the date of complaint.

The Contractor has been advised to notify all workers and operation supervisor of the complaint dated 20 July 2012 and to remind them to minimise the potential noise generated as much as possible during any work activities. The Contractor has also been recommended to provide Tool Box Training about good site practices, work during restricted hours and Permit to Work System to all frontline workers and operation supervisor. Additionally, the Contractor has been reminded to provide acoustic curtain, where applicable, to the handheld mechanical equipment and properly install noise barriers during major construction activities in the future.

The complaint investigation reports are presented in *Annex K*.

7.1.5 Summary of Environmental Summons and Successful Prosecution

No summons was received during the reporting period. The cumulative summons/prosecution log is shown in *Annex K*.

8

8.1 NOISE

A comparison was made between the monitoring results in this reporting period and the Noise Standard for general construction works during 0700 – 1900 hrs on normal weekdays (*Table 8.1*).

Table 8.1 Comparison of Construction Noise Standard and Noise Monitoring Results

| Reporting | Monitoring | Corresponding | Noise | Predicted | Measured |
|-----------|------------|---------------|-------------------------------|-------------------------------|-------------------------------|
| Month | Stations | NSR in EIA | Limit | Construction | Construction |
| | | | Level | Noise Level (With | Noise Level |
| | | | | Mitigation) in EIA | |
| | | | L _{wq, 30 min} dB(A) | L _{wq, 30 min} dB(A) | L _{wq, 30 min} dB(A) |
| May 2012 | NM2 | N2 | 75 | 67 - 72 | 64.4 – 68.8 |
| | NM6 | N6 | 75 | 73 - 75 | 65.0 - 66.6 |
| June 2012 | NM2 | N2 | 75 | 67 - 72 | 63.3 – 67.5 |
| | NM6 | N6 | 75 | 73 - 75 | 64.0 - 67.5 |
| July 2012 | NM2 | N2 | 75 | 67 - 72 | 64.0 – 65.6 |
| | NM6 | N6 | 75 | 73 - 75 | 63.7 – 74.5 |

The monitoring results recorded since the commencement of the construction works have been well below the Limit Level and comparable to the predicted construction noise level in the approved EIA. Recommended mitigation measures in *Section 5.9.1* of EIA will continue to be implemented throughout the construction stage.

8.2 WASTE MANAGEMENT

The estimated amount of waste generated in the approved EIA and the accumulated quantities of waste generated up to this reporting period are presented in *Table 8.2*. The accumulated amount of inert and non-inert C&D materials is within the estimated amount in EIA. The major chemical waste generated on site was primarily asbestos which was not estimated in the approved EIA and hence no data is available for comparison. Recommended mitigation measures in *Section 8.5.1* of the EIA will continue to be implemented throughout the construction stage.

Table 8.2 Quantity of Actual Amount of C&D Materials, General Wastes and Chemical Wastes Generated and EIA Estimation

| Type of Material | Estimated Amount of Waste in EIA | Accumulated Actual Amount of Waste Recorded (a) (b) |
|---|----------------------------------|---|
| Amount of C&D Materials (Inert) Arising | 16,440 m ³ | 1560.0 m ³ |
| Amount of C&D Materials (Non-inert) Arising | 890 m ³ | 346.13 m ³ |
| General Refuse | 130 kg per day | _ (c) |
| Chemical Waste | Less than 100L per month | 45 L (June 2012)7,000 kg of asbestos generated |

Notes:

- (a) The accumulated actual amount of C&D Materials was recorded since the commencement of construction works.
- (b) The volume of waste materials are provided by the Contractor based on the updated waste record in July 2012.
- (c) The amount of general refuse generated was not recorded.

8.3 SUMMARY OF REVIEW

The EIA predictions and the monitoring results since the commencement of construction works have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment and the monitoring results have also indicated the same so far. Mitigation measures recommended in the EP, EIA and EM&A Manual were implemented by the Contractor as far as practicable and were considered effective. The recommended mitigation measures will continue to be implemented throughout the construction phase of the Project.

The effectiveness of the monitoring programme has been exhibited therefore change to the programme is not considered to be necessary.

9 CONCLUSIONS

This third Quarterly EM&A Report presents the EM&A works undertaken during the reporting period from 1 May 2012 to 31 July 2012 in accordance with EM&A Manual and the requirements under EP-408/2011/B.

No exceedance of Limit Level of construction noise was recorded at the monitoring stations during the reporting period. Three exceedances of Action Level of noise were recorded during the reporting period.

Tree inspections were conducted in this reporting period. Most of the necessary landscape and visual mitigation measures recommended in the EIA Report were implemented by the Contractor.

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

One enquiry was received during the reporting period.

No non-compliance event for heritage and environmental site inspections was recorded during the reporting period.

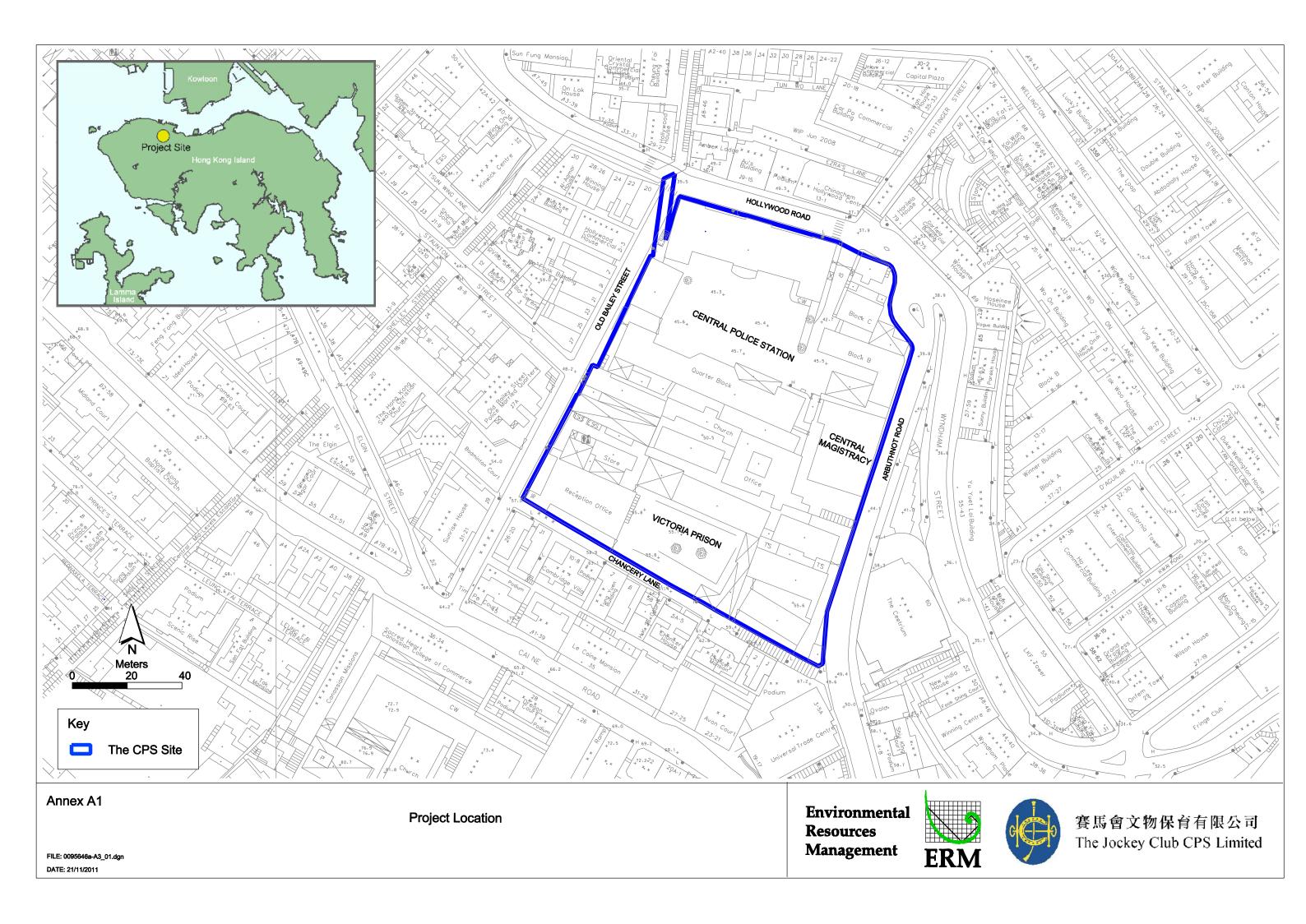
There were three complaints received during the reporting period.

No summons/prosecution was received during the reporting period.

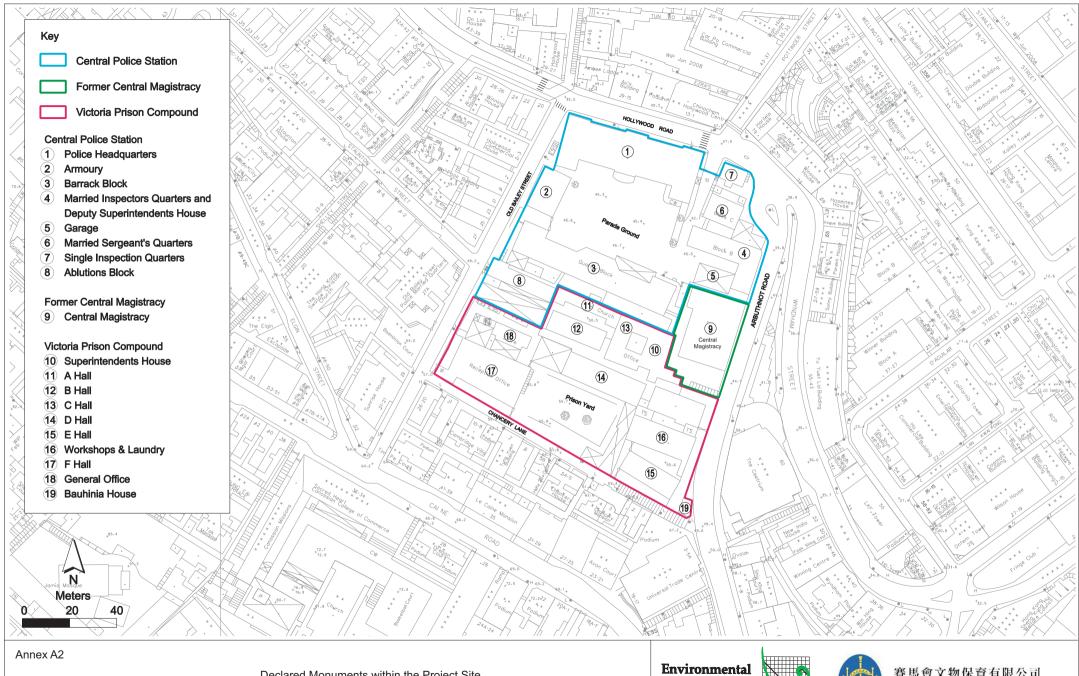
The monitoring programme was considered effective in reflecting the environmental conditions at the designated representative sensitive receivers. The monitoring results also indicate that the Project have not caused adverse impacts on the environment with implementation of appropriate mitigation measures. Change to the monitoring programme is not considered to be necessary. 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 in the coming periods.

Location of Works Areas and the Surroundings

Project Location



Declared Monuments with the Project Site



FILE: 0095646b1-A3.dgn DATE: 07/12/2011

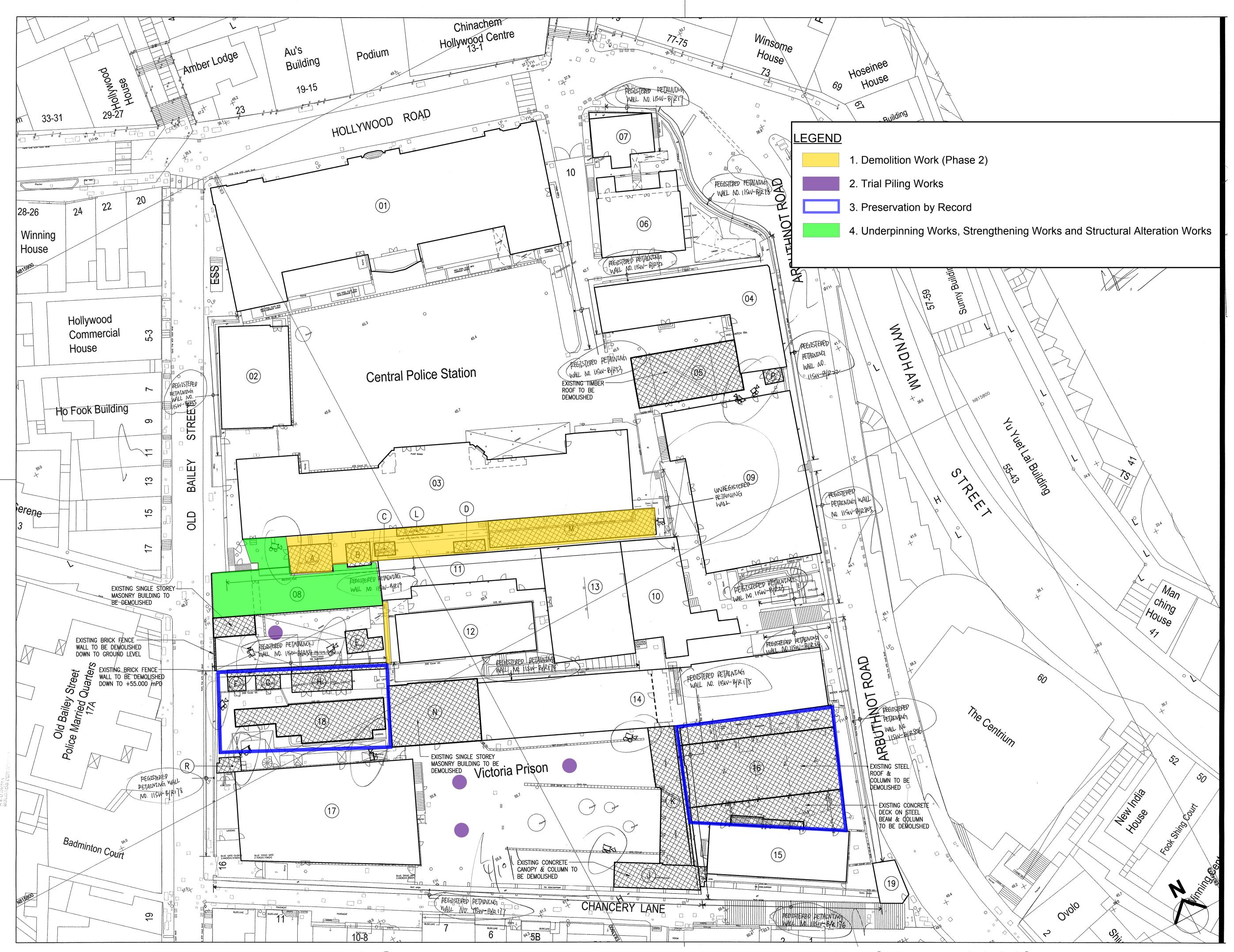
Declared Monuments within the Project Site

Resources Management

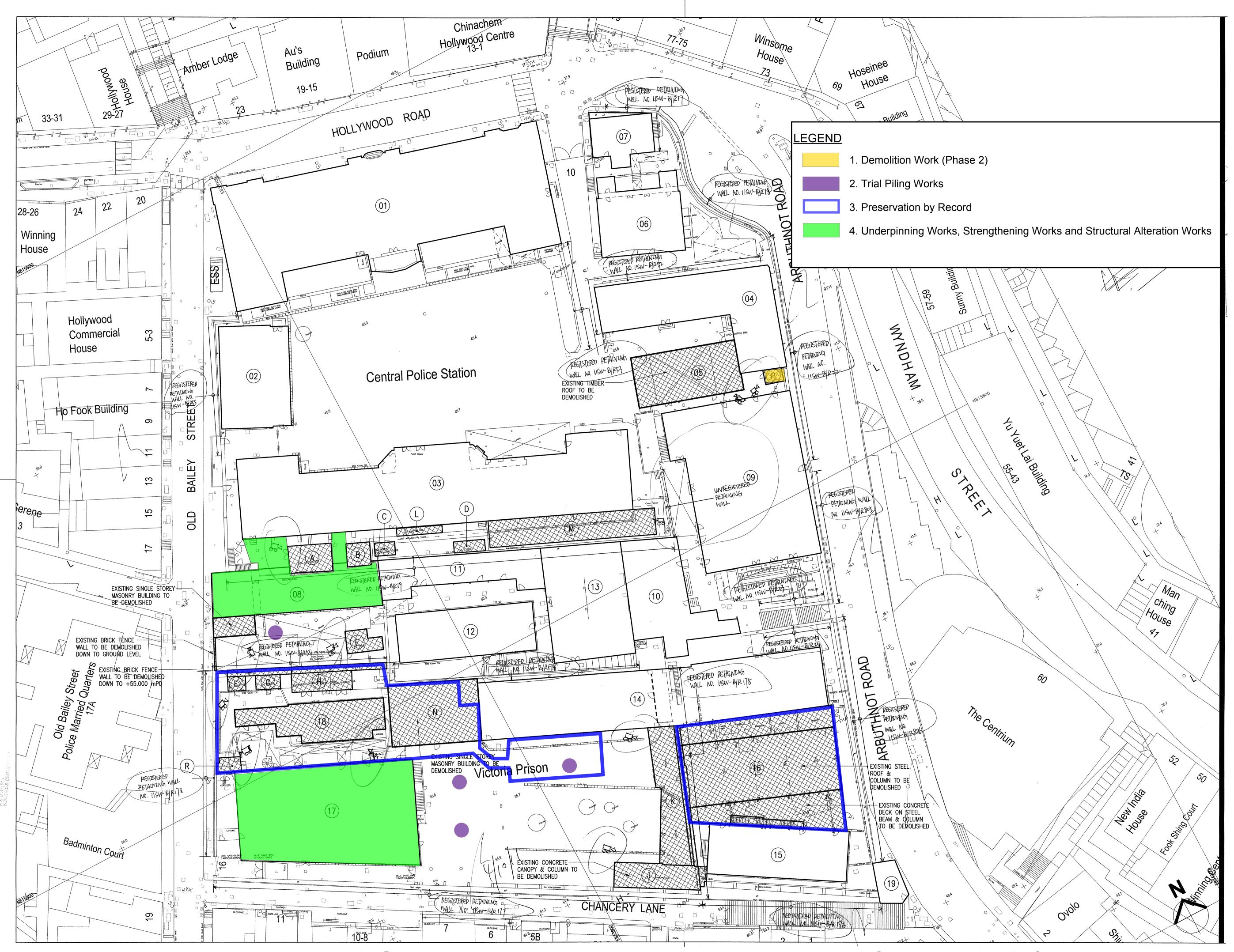




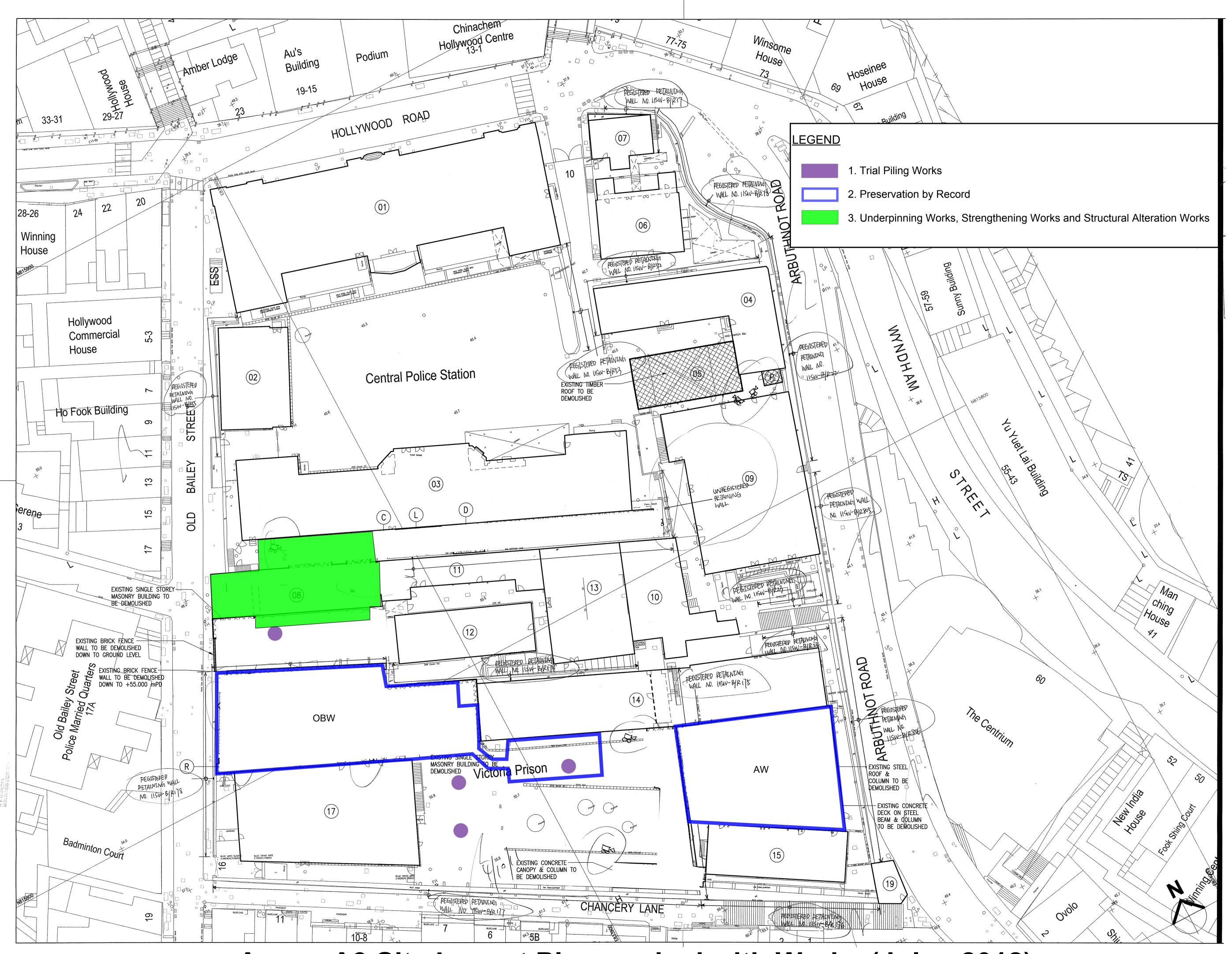
Site Layout Plan marked with Works



Annex A3 Site Layout Plan marked with Works (May - 2012)



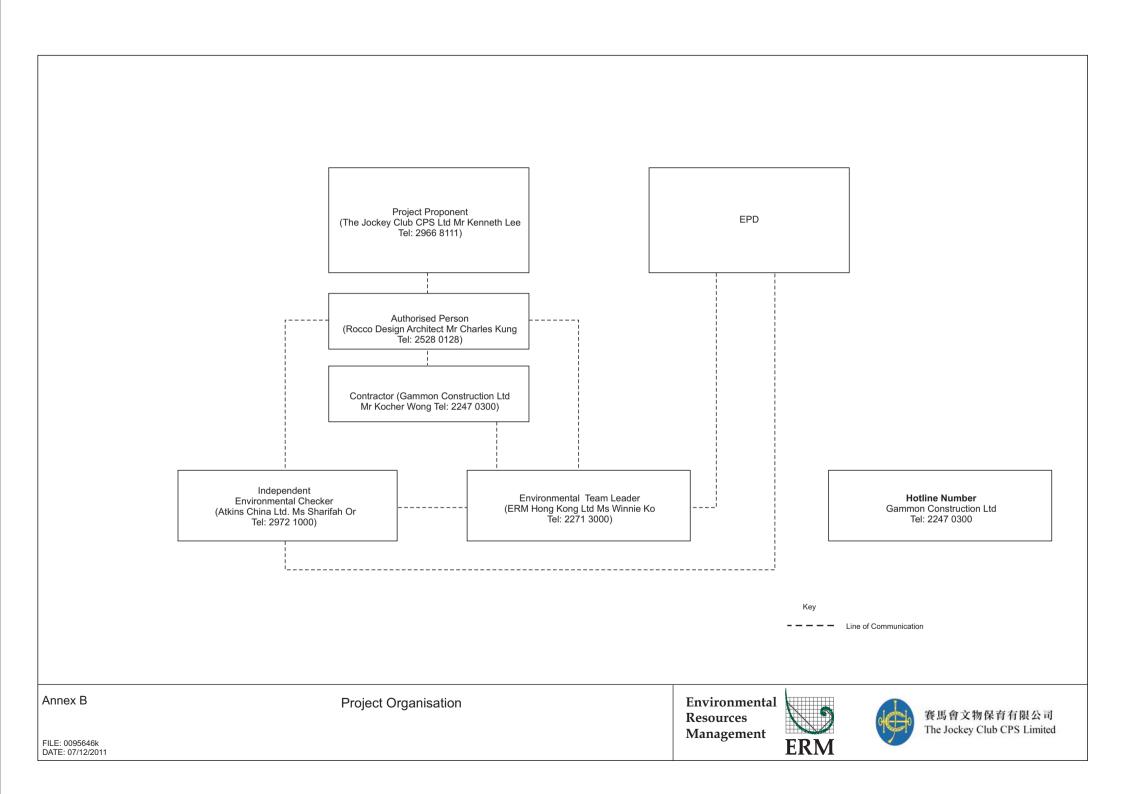
Annex A3 Site Layout Plan marked with Works (June - 2012)



Annex A3 Site Layout Plan marked with Works (July - 2012)

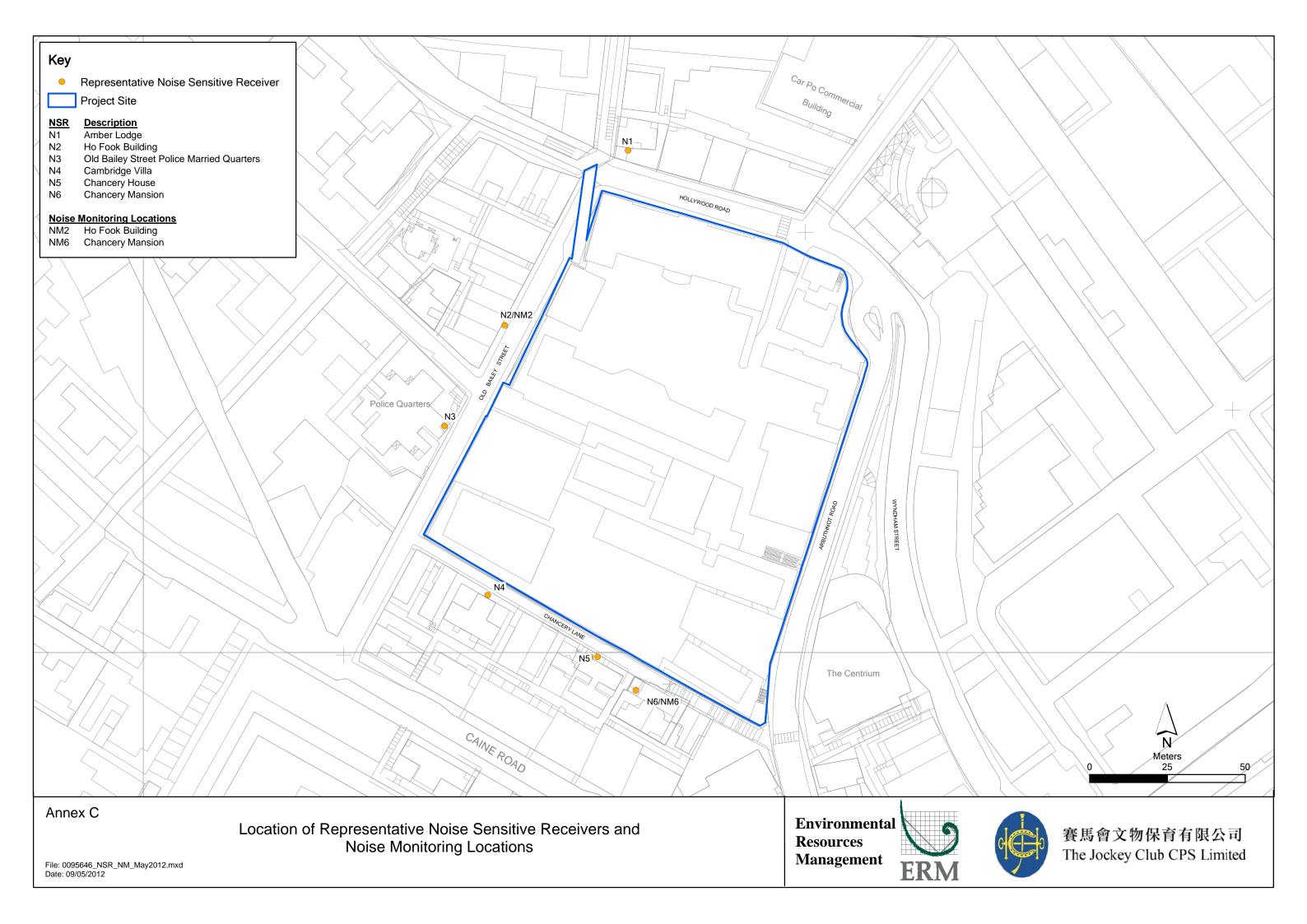
Annex B

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

Central Police Station Compound Coservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - May 2012

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------|----------------------------------|
| · | | 1-May | 2-May | | 4-May | |
| | | | | Noise Monitoring at NM2 & NM6 | | |
| 6-May | 7-May | 8-May | 9-May | 10-May | 11-May | 12-May |
| | | | Noise Monitoring at NM2 & NM6 | | | |
| 13-May | 14-May | 15-May | 16-May | 17-May | 18-May | 19-May |
| | | Noise Monitoring at NM2 & NM6 | | | | |
| 20-May | 21-May | 22-May | 23-May | 24-May | 25-May | 26-May |
| | Noise Monitoring at NM2 & NM6 | | | | | Noise Monitoring at NM2 & NM6 |
| 27-May | 28-May | 29-May | 30-May | 31-May | | |
| | | | | | | |

Central Police Station Compound Coservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - June 2012

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | | | | | 1-Jun | 2-Jun |
| | | | | | Noise Monitoring at NM2 & NM6 | |
| 3-Jun | 4-Jun | 5-Jun | 6-Jun | 7-Jun | 8-Jun | 9-Jun |
| | | | | Noise Monitoring at NM2 & NM6 | | |
| 10-Jun | 11-Jun | 12-Jun | 13-Jun | 14-Jun | 15-Jun | 16-Jun |
| | | | Noise Monitoring at NM2 & NM6 | | | |
| 17-Jun | 18-Jun | 19-Jun | 20-Jun | 21-Jun | 22-Jun | 23-Jun |
| | | Noise Monitoring at NM2 & NM6 | | | | |
| 24-Jun | 25-Jun | 26-Jun | 27-Jun | 28-Jun | 29-Jun | 30-Jun |
| | Noise Monitoring at NM2 & NM6 | | | | | Noise Monitoring at NM2 & NM6 |

Central Police Station Compound Coservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - July 2012

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

Annex E

Calibration Reports for Calibrators and Sound Level Meters

Certificate No.: C113870

Certificate of Calibration

This is to certify that the equipment

Description: Sound Level Calibrator

Manufacturer: Rion

Model No.: NC-73

Serial No.: 10997142

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C113870.

The equipment is supplied by

Co. Name: Envirotech Services Co.

Address: Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue: 11 July 2011

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No.: C113870

Calibration Report

ITEM TESTED

DESCRIPTION

Sound Level Calibrator

MANUFACTURER: Rion

MODEL NO.

: NC-73

SERIAL NO.

: 10997142

TEST CONDITIONS

AMBIENT TEMPERATURE : $(23 \pm 2)^{\circ}$ C

RELATIVE HUMIDITY: $(55 \pm 20)\%$

LINE VOLTAGE

TEST SPECIFICATIONS

Calibration

DATE OF TEST: 11 July 2011

JOB NO. : IC11-1713

TEST RESULTS

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by:

Date: 11 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No.: C113870

Calibration Report

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 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 TST150A CL130 CL281

Description
Measuring Amplifier
Universal Counter
Multifunction Acoustic Calibrator

Certificate No. C101008 C113350 C1006860

4. Test procedure: MA100N.

- 5. Results:
- 5.1 Sound Level Accuracy

5.1.1 Before Adjustment

| Delore Hajasantent | | | |
|--------------------|----------------|-------------|-------------------------------|
| UUT | Measured Value | Mfr's Spec. | Uncertainty of Measured Value |
| Nominal Value | (dB) | (dB) | (dB) |
| 94 dB, 1 kHz | 94.3 | ± 0.5 | ± 0.2 |

5.1.2 After Adjustment

| Titter Trajastillerit | | | |
|-----------------------|----------------|-------------|-------------------------------|
| UUT | Measured Value | Mfr's Spec. | Uncertainty of Measured Value |
| Nominal Value | (dB) | (dB) | (dB) |
| 94 dB, 1 kHz | 94.0 | ± 0.5 | ± 0.2 |

5.2 Frequency Accuracy

5.2.1 Before Adjustment

| UUT Nominal Value | Measured Value | Mfr's | Uncertainty of Measured Value |
|-------------------|----------------|-------------|-------------------------------|
| (kHz) | (kHz) | Spec. | (Hz) |
| 1 | 0.991 | 1 kHz ± 2 % | ± 1 |

5.2.2 After Adjustment

| Atter Aujustinent | | | |
|-------------------|----------------|-------------|-------------------------------|
| UUT Nominal Value | Measured Value | Mfr's | Uncertainty of Measured Value |
| (kHz) | (kHz) | Spec. | (Hz) |
| 1 | 0.991 | 1 kHz ± 2 % | ± 1 |

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No.: C113870

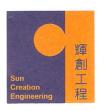
Calibration Report

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

Note:

The values given in this Calibration Report 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.

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC12-1674)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號

NC-73

Serial No. / 編號

10997142

Supplied By / 委託者

Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,

Hong Kong

TEST CONDITIONS/測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

9 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試

L K Yeung

Certified By 核證

K C Lee

Date of Issue

:

10 July 2012

簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel 電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

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 <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C123541 DC110233 C120886

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

| UUT | Measured Value | Mfr's Spec. | Uncertainty of Measured Value |
|---------------|----------------|-------------|-------------------------------|
| Nominal Value | (dB) | (dB) | (dB) |
| 94 dB, 1 kHz | 94.0 | ± 0.5 | ± 0.2 |

5.2 Frequency Accuracy

| 1 Todata j 1 Todatao j | | | |
|------------------------|----------------|--------------------------|-------------------------------|
| UUT Nominal Value | Measured Value | Mfr's | Uncertainty of Measured Value |
| (kHz) | (kHz) | Spec. | (Hz) |
| 1 | 0.990 | $1 \text{ kHz} \pm 2 \%$ | ± 1 |

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

Note:

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.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533 Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name : Precision sound level meter

Model : NL-52 S/No. : 00710259

(NX-42EX installed)

Microphone: UC-59 S/No.: 02695

Preamplifier: NH-25 S/No.: 10253

Date of Calibration: September, 20, 2011

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.



Annex F

Event/Action Plans for Noise

Annex F Event and Action Plan for Noise

| Event | | | Ac | tion | | | |
|--------------|---|----|--|--|---|--|--|
| | Environmental Team (ET) | | dependent Environmental tecker (IEC) | A | uthorised Person (AP) | C | ontractor |
| Action Level | Notify IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, AP and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. | 3. | Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the AP accordingly; Supervise the implementation of remedial measures. | 2. 3. 4. | Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to proposed remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented. | 1. | Submit noise mitigation proposals to IEC; Implement noise mitigation proposals. |
| Limit Level | Identify source; Inform IEC and AP; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, AP and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results; If exceedance stops, cease additional monitoring. | 2. | Discuss amongst AP, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; Supervise the implementation of remedial measures. | 1. 2. 3. 4. 5. | Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; 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. 2. 3. 4. 5. | Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; 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 (1 May to 31 May 2012)

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|---|---|--------------|
| Cultura | al Heritag | ge | | | |
| 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. | To be advised | During detailed design and construction | \checkmark |
| S3.9.2 | S3.3.1 | Vibration Monitoring 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 | √ |
| S3.9.2 | S3.3.3 | Compliance of the Approved Measures and Auditing 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. 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 proposal of the regular audit such as methodology (e.g. performance | Whole site | Prior to and during construction | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|------------|---|--|
| | | 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. | | | |
| S3.9.3 | S3.3.4 | An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of asbuilt drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan. | Whole Site | During detailed design, construction and prior to operation | N/A – Archival recording will be conducted at later stage. |
| S3.7.3 | - | General Construction Methods Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be checked and confirmed by the contractor. Non-percussive piling | Whole site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------------|--------------|--|------------|---|--|
| S3.7.1 & 3.7.2 | - | 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. 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: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. One set of | Whole site | During detailed design, construction, post-construction and operation | √ - CMP was implemented during the the reporting month. There were no updates for the CMP. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status | | | | | |
|-------------|--------------------|---|------------|-------------------------------------|-----------|--|--|--|--|--|
| Landsca | Landscape & Visual | | | | | | | | | |
| S4.7.27 | | <u>In-situ Tree Protection - Cordon Zone (CZ)</u> | Whole site | During construction | √ | | | | | |
| | | Cordon off each tree along its drip line (below the crown) with a chain-link 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 CZ, 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 | | | | | | | | |
| 01.70 | | wastewater from intruding the soil inside the CZ. | | | | | | | | |
| S4.7.2 | - | In-situ Tree Protection - Advanced & Phased Root Pruning | Whole site | During construction | $\sqrt{}$ | | | | | |
| | | 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 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. | | | | | | | | |
| S4.7.2 | - | In-situ Tree Protection - Foliage cleansing system A sprinkler cleansing system will be installed either in the crown of the | Whole site | During construction | √ | | | | | |
| | | tree or at a suitable location on an adjacent building to provide the | | | | | | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|---|---|--|
| | | means to wash the foliage of the accumulated dust when necessary, particularly in the dry season. | | | |
| S4.7.2 | S4 | In-situ Tree Protection - Monthly inspection Monthly inspection of affected trees by an experienced and | Whole site | During construction | √ |
| | | 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. | | | |
| S4.7.2 | - | <u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs. | Whole site | During construction and operation | √ |
| S4.7.2 | S4 | A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. 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. | At identified compensatory tree planting location at the Parade Ground | During detailed design and construction | N/A – Compensatory Tree Planting will be conducted at later stage. |
| | | The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|---------------------|---|--|
| | | 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. 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. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested:: Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. | | | |
| S4.7.2 | S4 | Vertical Greening Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible. As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the | Inner Southern Wall | During detailed design and construction | N/A – No vertical greening was conducted during the reporting month. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|------------|---|--|
| | | top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall. | | | |
| S4.7.2 | - | New Custom Paving New, Porous, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces. | Whole site | During detailed design and construction | N/A – No custom paving was conducted during the reporting month. |
| S4.7.2 | S4 | In-situ Tree Protection - Quarterly inspection 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 | • | | | | |
| S5.9 | - | The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; | Whole Site | During construction | N/A – Not observed. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|------------------|--------------|--|------------|-------------------------------------|---------------------|
| S5.9 | - | 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; 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 Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. Noise insulating sheet would be adopted for certain PME (eg drill rig, | Whole Site | During | √ |
| | | 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 one | construction | |
| 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 m^{-2} and have no openings or gaps. | Whole Site | During construction | N/A – Not observed. |
| 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 | √ |
| 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 | √ · |
| Air Qu S6.8.1 | | Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions. | Whole Site | During construction | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|-----------------------------|-------------------------------------|---------------------|
| S6.8.1 | - | In particular: 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 | During construction | √ |
| S6.8.1 | - | Impervious sheet will be provided for skip hoist for material transport. | Whole Site | During construction | V |
| S6.8.1 | - | Vehicle washing facilities will be provided at the designated vehicle exit points. | Whole Site | During construction | √ |
| 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 | During construction | √ |
| S6.8.1 | - | Road sections between vehicle-wash areas and vehicular entrances will be paved. | Whole Site | During construction | V |
| 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 | V |
| S6.8.1 | - | Hoarding of not less than 2.4m 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 | V |
| 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 | N/A – Not observed. |
| S6.8.1 | - | An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings. | Whole Site | During construction | V |
| 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 | V |
| 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 | V |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|------------|-------------------------------------|---------------------|
| S6.8.1 | - | ULSD will be used for all construction plant on-site. | Whole Site | During construction | N/A – Not observed. |
| S6.8.1 | - | The engine of the construction equipment or trucks during idling will be switched off. | Whole Site | During construction | √ |
| 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 | √ |
| Water (| Quality | | l | <u>l</u> | |
| 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 <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . 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 | √ |
| 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. |
| 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 | N/A – Not observed. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|------------|-------------------------------------|---------------------|
| 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 <i>ProPECC PN 1/94</i> . 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 | √ |
| S7.6 | - | All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas. | Whole Site | During construction | V |
| 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 | V |
| 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 | V |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|-----------------------------|---|------------|-------------------------------------|---------------------|
| 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 stomwater 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 | √ |
| 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 | √ · |
| Waste N | Manageme | nt | | | |
| S8.5 | S6.3.1 & Table 6.1 | General 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 | ✓ |
| S8.5 | - | Management of Waste Disposal 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 | |
| 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 system will be included as one of the contractual requirements and implemented by the contractor. | Whole Site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|----------------------|---|------------|---|--------|
| S8.5 | S6 & Table 6.1 | A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase. | Whole Site | During construction | √ · |
| S8.5 | S6.3 | Reduction of Construction Waste Generation 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 | √ |
| S8.5 | S6 | <u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD. | Whole Site | During construction and operation | √ |
| S8.5 | S6 | Containers used for storage of chemical waste shall: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. | Whole Site | During construction and operation | √ |
| S8.5 | S6 | Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; 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; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. | Whole Site | During construction and operation | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|----------------------|--|---|-------------------------------------|---------------------|
| S8.5 | S6 | A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility. | Chemical Waste Treatment Centre at Tsing Yi | During construction and operation | N/A – Not observed. |
| S8.5 | S6 & Table 6.1 | General Refuse 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 | √ |
| 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 | √ |
| S8.5 | S6 | Staff Training 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 | Commence-ment of construction | √ |
| S8.7 | S6.1 & 6.3 | 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 | √ |

Remark:

- √ 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
- Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

Annex G Implementation Schedule for Environmental Protection Measures (1 June to 30 June 2012)

| EIA Ref. | EM&A 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. | To be advised | During detailed design and construction | \checkmark |
| S3.9.2 | S3.3.1 | Vibration Monitoring 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 | ✓ |
| S3.9.2 | S3.3.3 | Compliance of the Approved Measures and Auditing 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. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the | Whole site | Prior to and during construction | |
| | | 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 proposal of the regular audit such as methodology (e.g. performance | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|------------|---|--|
| | | 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. | | | |
| S3.9.3 | S3.3.4 | An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of asbuilt drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan. | Whole Site | During detailed design, construction and prior to operation | N/A – Archival recording will be conducted at later stage. |
| S3.7.3 | - | General Construction Methods Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be checked and confirmed by the contractor. Non-percussive piling | Whole site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------------|--------------|--|------------|---|--|
| S3.7.1 & 3.7.2 | - | 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. 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: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. One set of | Whole site | During detailed design, construction, post-construction and operation | √ - CMP was implemented during the the reporting month. There were no updates for the CMP. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status | | | | | |
|-------------|--------------------|---|------------|-------------------------------------|-----------|--|--|--|--|--|
| Landsca | Landscape & Visual | | | | | | | | | |
| S4.7.27 | - | <u>In-situ Tree Protection - Cordon Zone (CZ)</u> | Whole site | During construction | $\sqrt{}$ | | | | | |
| | | Cordon off each tree along its drip line (below the crown) with a chain-link 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 CZ, 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 | | | | | | | | |
| S4.7.2 | - | wastewater from intruding the soil inside the CZ. <u>In-situ Tree Protection - Advanced & Phased Root Pruning</u> | Whole site | During construction | √ | | | | | |
| | | 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 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. | | | | | | | | |
| S4.7.2 | - | In-situ Tree Protection - Foliage cleansing system A sprinkler cleansing system will be installed either in the crown of the | Whole site | During construction | √ | | | | | |
| | | tree or at a suitable location on an adjacent building to provide the | | | | | | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|--|---|--|
| | | means to wash the foliage of the accumulated dust when necessary, particularly in the dry season. | | | |
| S4.7.2 | S4 | In-situ Tree Protection - Monthly inspection 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 | ✓ |
| S4.7.2 | - | Light Control Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs. | Whole site | During construction and operation | √ |
| S4.7.2 | S4 | Compensatory Tree Planting A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. 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 underneath so that fertilizers and conditioners could be added on a | At identified compensatory tree planting location at the Parade Ground | During detailed design and construction | N/A – Compensatory Tree Planting will be conducted at later stage. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|---------------------|---|--|
| | | 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. 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. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the | | | |
| | | proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested:: - Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late | | | |
| | | autumn to early spring. Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. | | | |
| | | Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. | | | |
| S4.7.2 | S4 | <u>Vertical Greening</u> Within the limitations of the consequation of the CPS sharestor. | Inner Southern Wall | During detailed design and construction | N/A – No vertical greening was conducted during the reporting month. |
| | | Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible. As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the | | eorisii uction | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|------------|---|--|
| | | top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall. | | | |
| S4.7.2 | - | New Custom Paving New, Porous, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces. | Whole site | During detailed design and construction | N/A – No custom paving was conducted during the reporting month. |
| S4.7.2 | S4 | In-situ Tree Protection - Quarterly inspection 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 | • | - | | , | |
| S5.9 | - | The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; | Whole Site | During construction | N/A – Not observed. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|------------------|--------------|--|------------|-------------------------------------|---------------------|
| S5.9 | - | 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; 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 Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. Noise insulating sheet would be adopted for certain PME (eg drill rig, | Whole Site | During | \checkmark |
| | | 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. | Trace site | construction | |
| 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 m^{-2} and have no openings or gaps. | Whole Site | During construction | N/A – Not observed. |
| 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 | √ · |
| 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 | √ · |
| Air Qu S6.8.1 | | Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions. | Whole Site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|-----------------------------|-------------------------------------|---------------------|
| S6.8.1 | - | In particular: 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 | During construction | √ |
| S6.8.1 | - | Impervious sheet will be provided for skip hoist for material transport. | Whole Site | During construction | V |
| S6.8.1 | - | Vehicle washing facilities will be provided at the designated vehicle exit points. | Whole Site | During construction | √ |
| 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 | During construction | √ |
| S6.8.1 | - | Road sections between vehicle-wash areas and vehicular entrances will be paved. | Whole Site | During construction | V |
| 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 | V |
| S6.8.1 | - | Hoarding of not less than 2.4m 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 | V |
| 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 | N/A – Not observed. |
| S6.8.1 | - | An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings. | Whole Site | During construction | V |
| 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 | V |
| 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 | V |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|------------|-------------------------------------|---------------------|
| S6.8.1 | - | ULSD will be used for all construction plant on-site. | Whole Site | During construction | N/A – Not observed. |
| S6.8.1 | - | The engine of the construction equipment or trucks during idling will be switched off. | Whole Site | During construction | √ |
| 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 | √ |
| Water (| Quality | | l | <u>l</u> | |
| 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 <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . 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 | √ |
| 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. |
| 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 | N/A – Not observed. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|------------|-------------------------------------|---------------------|
| 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 <i>ProPECC PN 1/94</i> . 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 | √ |
| S7.6 | - | All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas. | Whole Site | During construction | V |
| 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 | V |
| 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 | V |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|-----------------------------|---|------------|-------------------------------------|---------------------|
| 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 stomwater 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 | √ |
| 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 | √ · |
| Waste N | Manageme | nt | | | |
| S8.5 | S6.3.1 & Table 6.1 | General 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 | ✓ |
| S8.5 | - | Management of Waste Disposal 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 | |
| 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 system will be included as one of the contractual requirements and implemented by the contractor. | Whole Site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|----------------------|---|------------|---|--------|
| S8.5 | S6 & Table 6.1 | A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase. | Whole Site | During construction | √ · |
| S8.5 | S6.3 | Reduction of Construction Waste Generation 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 | √ |
| S8.5 | S6 | <u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD. | Whole Site | During construction and operation | √ |
| S8.5 | S6 | Containers used for storage of chemical waste shall: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. | Whole Site | During construction and operation | √ |
| S8.5 | S6 | Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; 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; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. | Whole Site | During construction and operation | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|----------------|---|---|-------------------------------------|---------------------|
| S8.5 | S6 | A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility. | Chemical Waste Treatment Centre at Tsing Yi | During construction and operation | N/A – Not observed. |
| S8.5 | S6 & Table 6.1 | General Refuse 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 | √ |
| 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 | √ |
| S8.5 | S6 | 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 | Commence-ment of construction | |
| S8.7 | S6.1 & 6.3 | 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 | ✓ |

Remark:

- √ 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
- N/A Not Applicable in Reporting Period

Annex G Implementation Schedule for Environmental Protection Measures (1 July to 31 July 2012)

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|---|---|--------|
| Cultura | al Heritag | ge | | | |
| 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. | To be advised | During detailed design and construction | √ |
| S3.9.2 | S3.3.1 | Vibration Monitoring 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 | √ |
| S3.9.2 | S3.3.3 | Compliance of the Approved Measures and Auditing 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. 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 proposal of the regular audit such as methodology (e.g. performance) | Whole site | Prior to and during construction | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|------------|---|--|
| | | 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. | | | |
| S3.9.3 | S3.3.4 | An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of asbuilt drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan. | Whole Site | During detailed design, construction and prior to operation | N/A – Archival recording will be conducted at later stage. |
| S3.7.3 | - | General Construction Methods Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be checked and confirmed by the contractor. Non-percussive piling | Whole site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------------|--------------|--|------------|---|--|
| S3.7.1 & 3.7.2 | - | 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. 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: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. One set of | Whole site | During detailed design, construction, post-construction and operation | √ - CMP was implemented during the the reporting month. There were no updates for the CMP. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|------------|-------------------------------------|---|
| Landsca | ape & Visi | ıal | l | • | |
| S4.7.27 | - | <u>In-situ Tree Protection - Cordon Zone (CZ)</u> | Whole site | During construction | √ |
| | | Cordon off each tree along its drip line (below the crown) with a chain-link 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 CZ, 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 | | | |
| S4.7.2 | - | wastewater from intruding the soil inside the CZ. <u>In-situ Tree Protection - Advanced & Phased Root Pruning</u> | Whole site | During construction | N/A – no root pruning has been conducted yet. |
| | | 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 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. | | | |
| S4.7.2 | - | In-situ Tree Protection - Foliage cleansing system A sprinkler cleansing system will be installed either in the crown of the | Whole site | During construction | √ |
| | | tree or at a suitable location on an adjacent building to provide the | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|---|---|--|
| | | means to wash the foliage of the accumulated dust when necessary, particularly in the dry season. | | | |
| S4.7.2 | S4 | In-situ Tree Protection - Monthly inspection Monthly inspection of affected trees by an experienced and | Whole site | During construction | √ |
| | | 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. | | | |
| S4.7.2 | - | <u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs. | Whole site | During construction and operation | √ |
| S4.7.2 | S4 | A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. 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. | At identified compensatory tree planting location at the Parade Ground | During detailed design and construction | N/A – Compensatory Tree Planting will be conducted at later stage. |
| | | The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|---------------------|---|--|
| | | 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. 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. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested:: - Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. - Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter. | | | |
| | | flowers in spring to early summer often when the tree has little or no leaves. | | | |
| S4.7.2 | S4 | Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible. | Inner Southern Wall | During detailed design and construction | N/A – No vertical greening was conducted during the reporting month. |
| | | As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the | | | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|------------|---|--|
| | | top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall. | | | |
| S4.7.2 | - | New Custom Paving New, Porous, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces. | Whole site | During detailed design and construction | N/A – No custom paving was conducted during the reporting month. |
| S4.7.2 | S4 | In-situ Tree Protection - Quarterly inspection 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 | • | | | | |
| S5.9 | - | The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; | Whole Site | During construction | N/A – Not observed. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|------------------|--------------|--|------------|-------------------------------------|---------------------|
| S5.9 | - | 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; 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 Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. Noise insulating sheet would be adopted for certain PME (eg drill rig, | Whole Site | During | \checkmark |
| | | 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. | Trace site | construction | |
| 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 m^{-2} and have no openings or gaps. | Whole Site | During construction | N/A – Not observed. |
| 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 | √ · |
| 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 | √ · |
| Air Qu S6.8.1 | | Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions. | Whole Site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|-----------------------------|-------------------------------------|---------------------|
| S6.8.1 | - | In particular: 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 | During construction | √ |
| S6.8.1 | - | Impervious sheet will be provided for skip hoist for material transport. | Whole Site | During construction | √ · |
| S6.8.1 | - | Vehicle washing facilities will be provided at the designated vehicle exit points. | Whole Site | During construction | √ |
| 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 | During construction | √ · |
| S6.8.1 | - | Road sections between vehicle-wash areas and vehicular entrances will be paved. | Whole Site | During construction | √ |
| 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 | √ |
| S6.8.1 | - | Hoarding of not less than 2.4m 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 | √ |
| 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 | N/A – Not observed. |
| S6.8.1 | - | An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings. | Whole Site | During 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 | √ · |
| 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 | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|--|------------|-------------------------------------|---------------------|
| S6.8.1 | - | ULSD will be used for all construction plant on-site. | Whole Site | During construction | N/A – Not observed. |
| S6.8.1 | - | The engine of the construction equipment or trucks during idling will be switched off. | Whole Site | During construction | √ |
| 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 | √ |
| Water (| Quality | | l | <u>l</u> | |
| 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 <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . 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 | √ |
| 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. |
| 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 | N/A – Not observed. |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|--------------|---|------------|-------------------------------------|---------------------|
| 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 <i>ProPECC PN 1/94</i> . 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 | √ |
| S7.6 | - | All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas. | Whole Site | During construction | V |
| 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 | V |
| 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 | V |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|-----------------------------|---|------------|-------------------------------------|---------------------|
| 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 stomwater 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 | √ |
| 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 | √ · |
| Waste N | Manageme | nt | | | |
| S8.5 | S6.3.1 & Table 6.1 | General 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 | ✓ |
| S8.5 | - | Management of Waste Disposal 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 | |
| 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 system will be included as one of the contractual requirements and implemented by the contractor. | Whole Site | During construction | √ |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|----------------------|---|------------|-------------------------------------|--------|
| S8.5 | S6 & Table 6.1 | A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase. | Whole Site | During construction | √ · |
| S8.5 | S6.3 | Reduction of Construction Waste Generation 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 | √ |
| S8.5 | S6 | <u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD. | Whole Site | During construction and operation | √ · |
| S8.5 | S6 | Containers used for storage of chemical waste shall: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. | Whole Site | During construction and operation | √ |
| S8.5 | S6 | Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; 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; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. | Whole Site | During construction and operation | |

| EIA Ref. | EM&A Ref. | Recommended Mitigation Measures | Location | When to Implement the Measure | Status |
|-------------|----------------|---|---|-------------------------------------|---------------------|
| S8.5 | S6 | A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility. | Chemical Waste Treatment Centre at Tsing Yi | During construction and operation | N/A – Not observed. |
| S8.5 | S6 & Table 6.1 | General Refuse 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 | √ |
| 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 | √ |
| S8.5 | S6 | 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 | Commence-ment of construction | |
| S8.7 | S6.1 & 6.3 | 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 | ✓ |

Remark:

- √ 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
- Δ 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

NM6 Chancery Mansion

| Date | Start Time | End Time | Weather | Noise level (dB(A)), 30 min | | | Major Construction Noise Source(s) | Other Noise Source(s) | Remarks | Wind Speed (m/s) | Noise Meter Model / ID | Calibrator Model / ID |
|-----------|------------|----------|---------|-----------------------------|------|------|--|--------------------------|---------|---------------------|----------------------------------|----------------------------------|
| | | | | Leq | L10 | L90 | Observed | Observed | | () | | |
| 3-May-12 | 8:32 | 9:02 | Fine | 65.3 | 67.2 | 62.6 | Crawler Crane, excavator, breaker (within the project site) | - | - | 0.3 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 9-May-12 | 14:57 | 15:27 | Sunny | 65.0 | 67.0 | 63.2 | Crawler Crane, compressor, breaker (within the project site) | - | - | 0.5 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 15-May-12 | 13:02 | 13:32 | Fine | 66.5 | 68.4 | 64.2 | Crawler Crane, compressor Breaker (within the project site) | Traffic Noise | - | 0.2 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 21-May-12 | 13:05 | 13:35 | Sunny | 66.6 | 68.7 | 64.3 | Breaker, lifting, excavator (within the project site) | Traffic Noise | - | 0.8 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 26-May-12 | 10:15 | 10:45 | Cloudy | 66.2 | 67.8 | 63.5 | Lifting, excavator (within the project site) | Traffic Noise | - | 0.5 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| - | | | Min. | 65.0 | | • | | • | | | • | |
| | | | Max. | 66.6 | | | | | | | | |

NM2 Ho Fook Building

| | | | | Noise | level (dB(A) |), 30 min | Major Construction | Other Noise | | Wind Speed | Noise Meter | Calibrator |
|-----------|------------|----------|---------|-------|--------------|-----------|--|-----------------------|---------|------------|---------------------------------|----------------------------------|
| Date | Start Time | End Time | Weather | Leq | L10 | L90 | Noise Source(s) Observed | Source(s) Observed | Remarks | (m/s) | Model / ID | Model / ID |
| 3-May-12 | 9:40 | 10:10 | Fine | 64.4 | 66.0 | 61.6 | Crawler Crane, excavator, breaker (within the project site) | - | - | 0.2 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 9-May-12 | 14:15 | 14:45 | Sunny | 65.0 | 66.6 | 62.8 | Crawler Crane (within the project site) | Traffic Noise | - | 0.3 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 15-May-12 | 14:09 | 14:39 | Fine | 65.2 | 67.2 | 63.3 | Crawler Crane, compressor, breaker (within the project site) | Traffic Noise | - | 0.3 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 21-May-12 | 14:42 | 15:12 | Sunny | 68.8 | 70.8 | 66.3 | Breaker, lifting, excavator (within the project site) | Traffic Noise | - | 0.5 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 26-May-12 | 11:52 | 12:22 | Cloudy | 65.9 | 67.6 | 63.1 | Breaker, lifting (within the project site) | Traffic Noise | - | 0.3 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| | | | Min. | 64.4 | | • | | • | | • | • | · |

Min. 64.4 Max. 68.8

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

NM6 Chancery Mansion

| Date | Start Time | End Time | Weather | Noise | level (dB(A) |), 30 min | Major Construction Noise Source(s) | Other Noise Source(s) | Remarks | Wind Speed (m/s) | Noise Meter Model / ID | Calibrator Model / ID |
|-----------|------------|----------|------------|-------|--------------|-----------|---|--------------------------|---------|---------------------|----------------------------------|----------------------------------|
| | | | | Leq | L10 | L90 | Observed | Observed | | () | | |
| 1-Jun-12 | 11:20 | 11:50 | Fine | 64.2 | 65.3 | 63.1 | Lifting (within the project site) | Traffic Noise | - | 0.3 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 7-Jun-12 | 10:25 | 10:55 | Sunny | 66.4 | 67.5 | 63.2 | Lifting, interior fitting (within the project site) | Traffic Noise | - | 0.2 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 13-Jun-12 | 15:25 | 15:55 | Trace rain | 67.5 | 69.8 | 65.0 | Breaker, lifting (within the project site) | Traffic Noise | - | 0.3 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 19-Jun-12 | 10:30 | 11:00 | Cloudy | 65.6 | 67.2 | 63.4 | Lifting (within the project site) | Traffic Noise | - | 0.3 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 25-Jun-12 | 10:45 | 11:15 | Cloudy | 64.2 | 65.6 | 63.0 | Lifting (within the project site) | Traffic Noise | - | 0.5 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 30-Jun-12 | 11:30 | 12:00 | Cloudy | 64.0 | 65.3 | 63.0 | - | Traffic Noise | - | 0.5 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| | | | Min. | 64.0 | | | | | | | | |
| | | | Max. | 67.5 | | | | | | | | |

NM2 Ho Fook Building

| Start Time | End Time | e Weather | Noise level (dB(A)), 30 min | | | | r Construction Other Noise | | Wind Speed | Noise Meter | Calibrator |
|------------|---------------------------------|--|--|--|--|---|----------------------------|---------|----------------------|--|----------------------------------|
| | | | Leq | L10 | L90 | Noise Source(s) Observed | Source(s) Observed | Remarks | (m/s) | Model / ID | Model / ID |
| 10:42 | 11:12 | Fine | 67.5 | 69.2 | 65.1 | Lifting (within the project site) | Traffic noise | - | 0.2 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 9:48 | 10:18 | Sunny | 64.1 | 65.9 | 61.9 | Lifting, interior fitting (within the project site) | Traffic Noise | - | 0.2 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 13:00 | 13:30 | Trace rain | 66.0 | 67.7 | 63.5 | Breaker, lifting (within the project site) | Traffic Noise | ı | 0.3 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 11:08 | 11:38 | Cloudy | 64.5 | 66.4 | 61.9 | Lifting (within the project site) | Traffic Noise | - | 0.2 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 10:05 | 10:35 | Cloudy | 63.6 | 65.3 | 61.8 | Lifting (within the project site) | Traffic Noise | - | 0.5 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 10:50 | 11:20 | Cloudy | 63.3 | 64.5 | 61.8 | - | Traffic Noise | 1 | 0.2 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| | 10:42 9:48 13:00 11:08 | 10:42 11:12 9:48 10:18 13:00 13:30 11:08 11:38 10:05 10:35 | 10:42 11:12 Fine 9:48 10:18 Sunny 13:00 13:30 Trace rain 11:08 11:38 Cloudy 10:05 10:35 Cloudy | 10:42 11:12 Fine 67.5 9:48 10:18 Sunny 64.1 13:00 13:30 Trace rain 66.0 11:08 11:38 Cloudy 64.5 10:05 10:35 Cloudy 63.6 10:50 11:20 Cloudy 63.3 | 10:42 11:12 Fine 67.5 69.2 9:48 10:18 Sunny 64.1 65.9 13:00 13:30 Trace rain 66.0 67.7 11:08 11:38 Cloudy 64.5 66.4 10:05 10:35 Cloudy 63.6 65.3 10:50 11:20 Cloudy 63.3 64.5 | 10:42 11:12 Fine 67.5 69.2 65.1 9:48 10:18 Sunny 64.1 65.9 61.9 13:00 13:30 Trace rain 66.0 67.7 63.5 11:08 11:38 Cloudy 64.5 66.4 61.9 10:05 10:35 Cloudy 63.6 65.3 61.8 10:50 11:20 Cloudy 63.3 64.5 61.8 | 10:42 | 10:42 | 10:42 11:12 Fine | 10:42 11:12 Fine 67.5 69.2 65.1 Lifting (within the project site) Traffic noise - 0.2 9:48 10:18 Sunny 64.1 65.9 61.9 Lifting (within the project site) Traffic Noise - 0.2 13:00 13:30 Trace rain 66.0 67.7 63.5 Breaker, lifting (within the project site) Traffic Noise - 0.3 11:08 11:38 Cloudy 64.5 66.4 61.9 Lifting (within the project site) Traffic Noise - 0.2 10:05 10:35 Cloudy 63.6 65.3 61.8 Lifting (within the project site) Traffic Noise - 0.5 10:50 11:20 Cloudy 63.3 64.5 61.8 - Traffic Noise - 0.2 | 10:42 |

Min. 63.3 Max. 67.5

Annex H Noise Monitoring Results

Daytime Noise Monitoring Results

NM6 Chancery Mansion

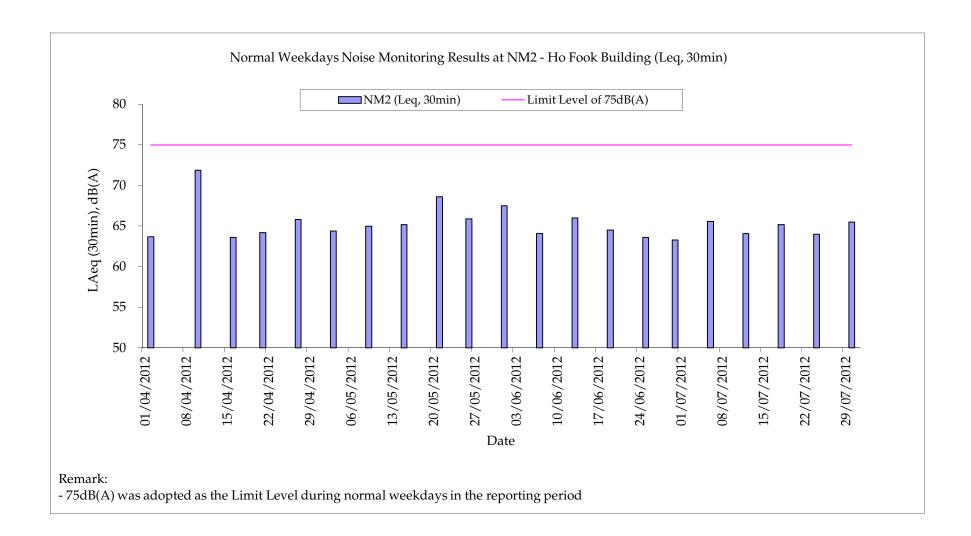
| Date | Start Time | End Time | Weather | Noise | level (dB(A) |), 30 min | Major Construction Noise Source(s) | Other Noise Source(s) | Remarks | Wind Speed (m/s) | Noise Meter Model / ID | Calibrator Model / ID |
|-----------|------------|----------|---------|-------|--------------|-----------|--|--------------------------|---------|---------------------|----------------------------------|----------------------------------|
| | | | 1 | Leq | L10 | L90 | Observed | Observed | | () | odor / ID | odo: / i.b |
| 06-Jul-12 | 9:55 | 10:25 | Sunny | 74.5 | 77.2 | 64.2 | Breaker, crane (within the project site) | Traffic Noise | - | 0.3 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 12-Jul-12 | 9:45 | 10:15 | Sunny | 64.6 | 66.2 | 61.9 | Lifting (within the project site) | Traffic Noise | - | 0.3 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 18-Jul-12 | 15:20 | 15:50 | Fine | 67.4 | 68.6 | 65.7 | Excavation, electric breaker (within the project site) | Traffic Noise | - | 0.2 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 24-Jul-12 | 14:53 | 15:23 | Cloudy | 63.7 | 65.4 | 60.7 | - | Traffic Noise | - | 0.8 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 30-Jul-12 | 10:40 | 11:10 | Sunny | 65.9 | 67.5 | 62.4 | Lifting, excavation (within the project site) | Traffic Noise | - | 0.2 | RION - NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| | · | | Min. | 63.7 | | · | | | · | | | |
| | | | Max. | 74.5 | | | | | | | | |

NM2 Ho Fook Building

| | | | | Noise | level (dB(A) |), 30 min | Major Construction | Other Noise | | Wind Speed | Noise Meter | Calibrator |
|-----------|------------|----------|---------|-------|--------------|-----------|--|-----------------------|---------|------------|---------------------------------|----------------------------------|
| Date | Start Time | End Time | Weather | Leq | L10 | L90 | Noise Source(s) Observed | Source(s) Observed | Remarks | (m/s) | Model / ID | Model / ID |
| 06-Jul-12 | 10:34 | 11:04 | Sunny | 65.6 | 67.8 | 63.5 | Breaker, crane (within the project site) | Traffic noise | - | 0.3 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 12-Jul-12 | 10:27 | 10:57 | Sunny | 64.1 | 65.9 | 61.9 | Lifting (within the project site) | Traffic Noise | - | 0.3 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 18-Jul-12 | 14:42 | 15:12 | Fine | 65.2 | 66.6 | 63.2 | Excavation, electric breaker (within the project site) | Traffic Noise | - | 0.3 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 24-Jul-12 | 14:15 | 14:45 | Cloudy | 64.0 | 65.7 | 61.2 | - | Traffic Noise | - | 0.5 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| 30-Jul-12 | 10:00 | 10:30 | Sunny | 65.5 | 67.3 | 62.6 | Lifting, excavation (within the project site) | Traffic Noise | - | 0.2 | RION- NL52 (S/N 00710259) | RION - NC73 (S/N 10997142) |
| | | | Min. | 64.0 | | | | | | | | |

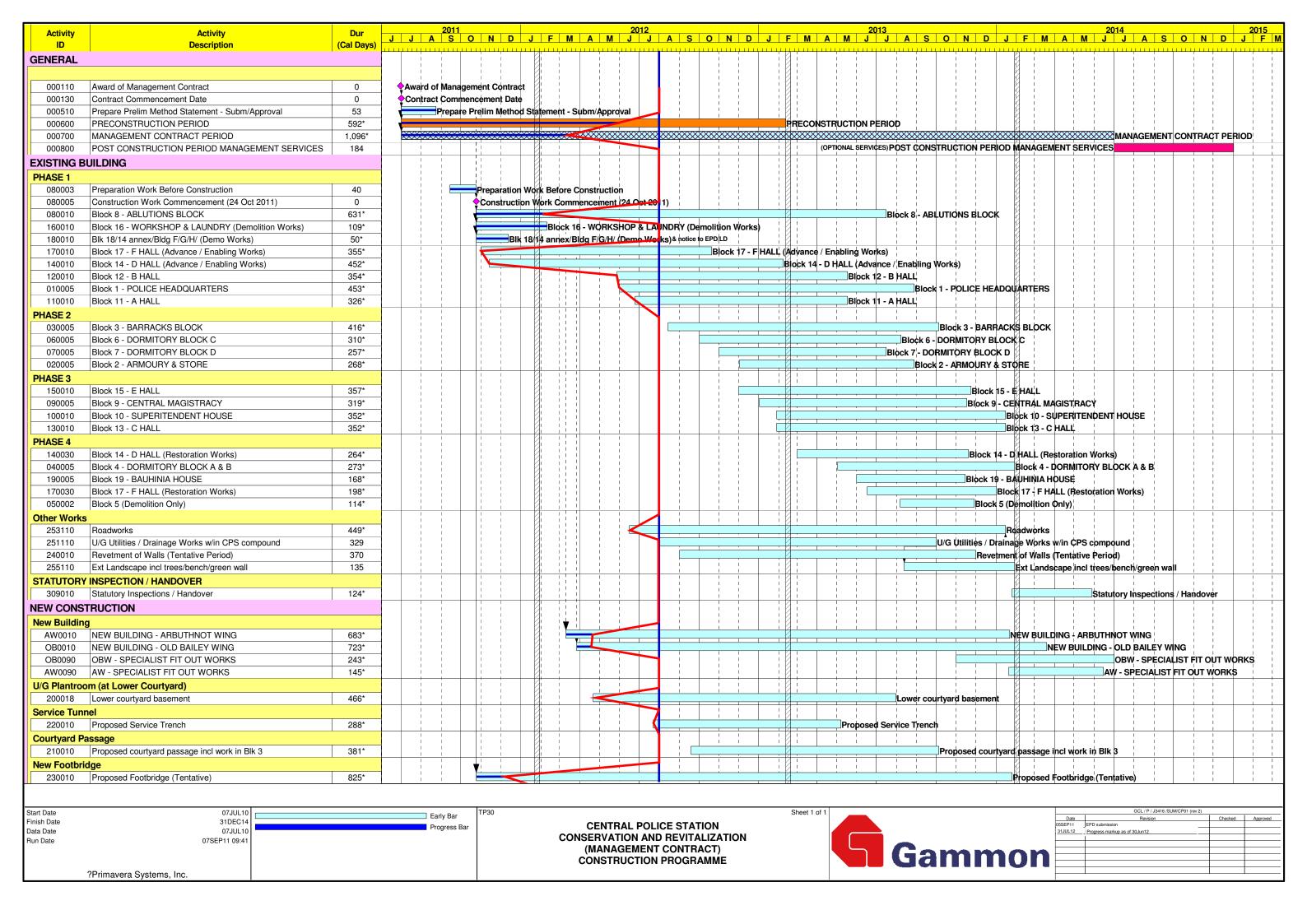
65.6





Annex I

Construction Programme of the Project



Annex J

Waste Flow Table

Annex J - Waste Flow Table

| Month / Year | | | | | Qι | ıantity | | | | | |
|----------------|---------------------------------|---------------------------------------|-----------------------|-----------------|---------------------------------------|---|------|-------------------|----------------------|---------------|-------------|
| | C&D Materials | Number of Trucks for C&D Materials | | D C&D Materials | Number of Trucks for C&D Materials | Volume of C&D Materials (non- | | Chemical Waste | Recycled materials | | |
| | (inert) (tonnes) ^(a) | Disposal (inert) | (m ³) (c) | | Disposal (non-inert) | inert) (m ³) (c) | | (Liquid/L) | - | | |
| | | Disposai (mert) | (m [*]) ··· | (tonnes) (b) | Disposar (non-mert) | inert) (m [*]) ^{···} | /kg) | (Liquiu/L) | Paper/cardboard (kg) | Plastics (kg) | Metals (kg) |
| October 2011 – | | | | | | | | | | | |
| November 2011 | 0 | 0 | 0 | 33.5 | 12 | 58.50 | 0 | 0 | 38 | 6 | 36423 |
| December-11 | 0 | 0 | 0 | 18.25 | 6 | 29.25 | 0 | 0 | 112 | 0 | 24000 |
| January-12 | 354.14 | 40 | 195.00 | 16.88 | 5 | 24.38 | 2400 | 0 | 0 | 0 | 3820 |
| February-12 | 252.35 | 15 | 73.13 | 17.13 | 5 | 24.38 | 1400 | 0 | 223 | 0 | 8910 |
| March-12 | 666.43 | 62 | 302.25 | 28.56 | 9 | 43.88 | 3200 | 0 | 0 | 0 | 48490 |
| April-12 | 688.68 | 72 | 351.00 | 17.54 | 5 | 24.38 | 0 | 0 | 0 | 0 | 124030 |
| May-12 | 492.33 | 61 | 297.38 | 36.33 | 13 | 63.38 | 0 | 0 | 266 | 0 | 0 |
| June-12 | 383.11 | 45 | 219.38 | 27.41 | 8 | 39.00 | 40 | 45 | 0 | 0 | 1100 |
| July-12 | 217.98 | 25 | 121.88 | 23.22 | 8 | 39.00 | 0 | 0 | 302 | 0 | 1750 |
| Tota | al 3055.02 | 320 | 1560.00 | 218.82 | 71 | 346.13 | 7040 | 45 | 941 | 6 | 248523 |

Notes:

⁽a) Inert C&D materials (public fill) include bricks, concrete, building debris, rubble and excavated soil.

⁽b) Non-inert C&D materials include steel, paper / cardboard packaging waste, plastics and other wastes such as general refuse. Steel materials generated from the Project are grouped into construction wastes as the materials were not disposed of with other inert C&D materials and were recycled. The non-inert C&D materials other than steel, plastics and paper/ cardboard packaging were disposed of at SENT Landfill.

⁽c) If necessary, use the conversion factor: 3/4 load of dumping truck being equivalent to $6.5~\text{m}^3$ by volume.

Annex K

Environmental Complaint, Enquiry, Environmental Summons and Prosecution Log

Annex K Cumulative Complaint, Enquiry and Summons/Prosecutions Log

| Reporting Month | Number of Complaints in Reporting Month | Number of Enquiries in Reporting Month | Number of Summons/Prosecutions in Reporting Month |
|-----------------|---|--|--|
| November 2011 | 0 | 0 | 0 |
| December 2011 | 0 | 0 | 0 |
| January 2012 | 0 | 0 | 0 |
| February 2012 | 0 | 0 | 0 |
| March 2012 | 4 | 0 | 0 |
| April 2012 | 0 | 0 | 0 |
| May 2012 | 0 | 1 | 0 |
| June 2012 | 2 | 0 | 0 |
| July 2012 | 1 | 0 | 0 |
| Overall Total | 7 | 1 | 0 |



Ref: J3416/2014.2/D01583

22 June 2012



Central Police Station Revitalization

Central, Hong Kong

Thank you for your enquiry regarding construction noise coming from our CPS Revitalization project site.

Please accept my sincerely apology for having caused inconvenience to your tenants. To reduce construction noise, we have adopted various measures including but not limited to the following:-

- 1. Use pneumatic crusher instead of breaker for demolition works as far as practicable.
- 2. Cover the demolition area with acoustic blankets.
- Cover the breaker with acoustic blankets.

In addition, we have delayed the start time of heavy machinery operation from 7:00am (per Noise Control Ordinance) to around 8.30am and 9.00am so, as to minimize disturbing the neighbourhood.

We also monitor noise levels of construction works regularly and the noise levels are within statutory limits. In accordance with our current works schedule, heavy machinery work for this project will be completed by mid 2014.

We shall endeavour to apply noise alleviation measures to minimize the disturbance. We also appreciate your continuous feedbacks.

Yours faithfully
For and on behalf of
Gammon Construction Limited



CL/ic



Gammon Construction Limited

28/F Devon House TaiKoo Place 979 King's Road

金門建築有限公司

香港英皇道979號太古坊 德宏大廈廿八樓

Tel 電話 (852) 2516 8823 Fax 傳真 (852) 2516 6260 www.gammonconstruction.com

Hong Kong











Central Police Station Conservation and Revitalisation Project

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

| Log Number: | 2012/06/001 |
|----------------------------|--|
| Date of Complaint Received | 14 June 2012 |
| Location of Complaint | Project Site |
| Nature of Complaint | Noise nuisance |
| Complaint Received by | Environmental Protection Department (EPD), Mr Tang |
| Complainant | A neighborhood resident |

Details of Complaint

EPD has received a complaint from a neighbourhood resident of Central Police Station on the noise nuisance came from Chancery Lane at 8:30pm on 13 June 2012.

Investigation Report

1. According to the works summary provided by the Contractor, no major construction activities were carried out but only manual washing of pile tube was conducted near block 17 at around 8:30pm on 13 June 2012. The location of the work area is presented in the Figure 1.

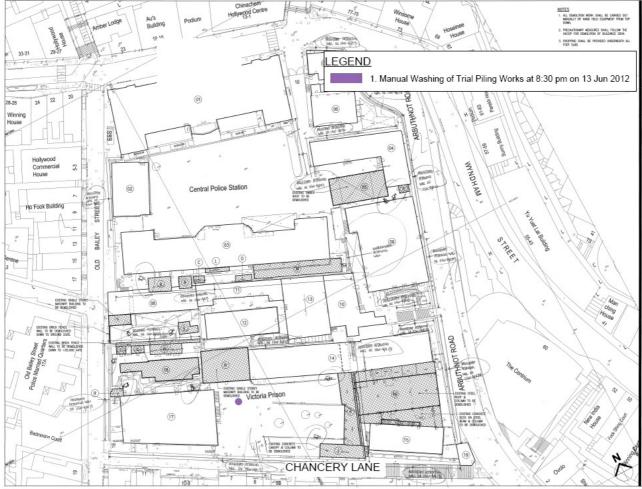


Figure 1 Site layout plan marking for Enquiry & Complaint log (CPS/E&C/06)

2. In view of the location of the information of the complaint and the location of the works taken, manual washing of pipe tube could be the possible source of noise nuisance. Follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers.

The following measures have been implemented by the Contractor to further minimize the noise nuisance to the adjacent users after receiving the complaint immediately:

- Reminder letters concerning the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor
- An internal meeting with manager of Gammon, the Engineer and site agent has been conducted on 18 June 2012 to emphasis the application of CNP, period of restricted hours and in-house rules for working in the restricted hours.
- Besides, Tool Box Talk about good site practices, work during restricted hours and Permit to Work System will be conducted for frontline workers and operation supervisor team on 20 June 2012.

Date of File Closed:

20 June 2012

Approved by:

ET Leader

IEC

JCCPS's Representative Rocco Design Architect's Representative

(Name: Winnie Ko)

Date: 20 June 2012

(Name: Sharifah Or)

Date: 20 June 2012

(Name: C. W. Sham)

(Name: CHARLES Date: 20 Vun 2012 Date: 20 Jun 2012

Gammon's Representative

(Name: Date:











Central Police Station Conservation and Revitalisation Project

COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

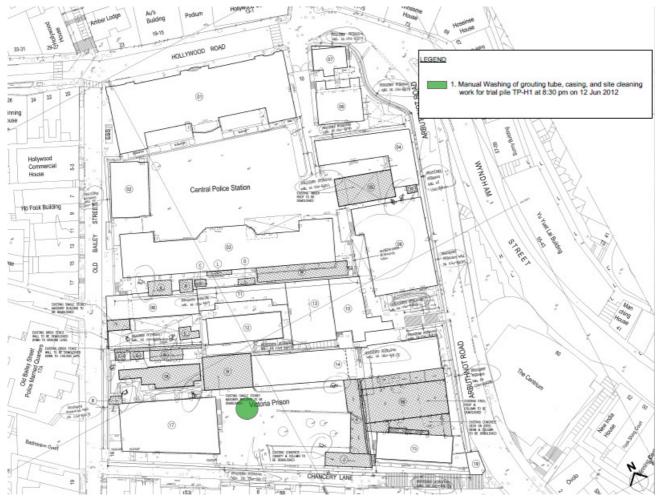
| Log Number: | 2012/06/002 |
|----------------------------|--|
| Date of Complaint Received | 28 June 2012 |
| Location of Complaint | Project Site |
| Nature of Complaint | Noise nuisance |
| Complaint Received by | Central Police Station Website, Enquiry System |
| Complainant | |

Details of Complaint

The Enquiry System of Central Police Station Website has recorded a complaint on the noise nuisance generated from the Project Site at 8:30pm on 12 June 2012. The complaint was received by Gammon Construction Limited on 28 June 2012.

Investigation Report

1. According to the information provided by the Contractor, no major construction activities were carried out, but only manual washing of grouting tube and casing and site cleaning work were conducted near Block 17 at around 8:30pm on 12 June 2012. The location of the work area is presented in the Figure 1.



2. Manual washing of grouting tube and casing and site cleaning work could be the possible source of noise nuisance. Follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers.

A similar complaint was received on 14 June 2012 by EPD about noise nuisance came from project site near Chancery Lane at 8:30pm on 13 June 2012, which is one day after receiving the complaint on CPS website. The following measures have been implemented by the Contractor to further minimize the noise nuisance to the adjacent users after receiving the complaint dated 14 June 2012:

- Operation team (e.g. site agent, sub-agent) has conducted site inspection at 6:00 pm since 14 June 2012 to ensure all
 construction works cease and to switch off the operating PME (e.g. ventilation fan) if no valid CNP was granted by the
 EPD;
- Reminder letters concerning the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor on 18 June 2012;
- Tool Box Talk about good site practices, work during restricted hours and Permit to Work System has been conducted for frontline workers and operation supervisor team on 20 June 2012;
- An internal meeting with manager of Gammon, the Engineer and site agent has been conducted to emphasize the
 application of CNP, period of restricted hours and in-house rules for working in the restricted hours on 18 June 2012;
- Electricity supply to the construction site has been automatically switched off at 6:50 pm besides the supply for the
 office and emergency lighting since 25 June 2012.

| Date of File Closed: |
|----------------------|
|----------------------|

09 July 2012

Approved by:

ET Leader

IEC

JCCPS's

Representative

Rocco Design Architect's

Representative

(Name: CHARUFS

(Name: Winnie Ko)

Date: 9 July 2012

(Name: Sharifah Or)

Date: 10 July 2012

(Name: (CENNETH LEE)

Date:

Gammon's Representative

(Name: CUIT LAND

Date:

JULY 2212









Central Police Station Conservation and Revitalisation Project



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

| Log Number: | 2012/07/001 |
|----------------------------|----------------|
| Date of Complaint Received | 20 July 2012 |
| Location of Complaint | Project Site |
| Nature of Complaint | Noise nuisance |
| Complaint Received by | Police |
| Complainant | Not provided |

Details of Complaint

Police has received a complaint on a noise nuisance in the morning on 20 July 2012. Subsequent to the receipt of the complaint, a policeman carried out a site inspection at the Project Site at 9:30am. The complaint was transferred to Gammon Construction Limited on 20 July 2012.

Investigation Report

- 1. According to the information provided by the Contractor, the following activities were carried out on 20 July 2012:
 - Installation of handrails and other embellishing work for the concrete spiral staircase mockup in the vicinity of the site office;
 - Underpinning works of Block 8 (i.e. outdoor rebar fixing work); and
 - Manual back filling using hand tools at the Preservation by Record Area adjoining Block 17 with the aid of a light lorry.
- 2. The locations of the work areas are presented in Figure 1.

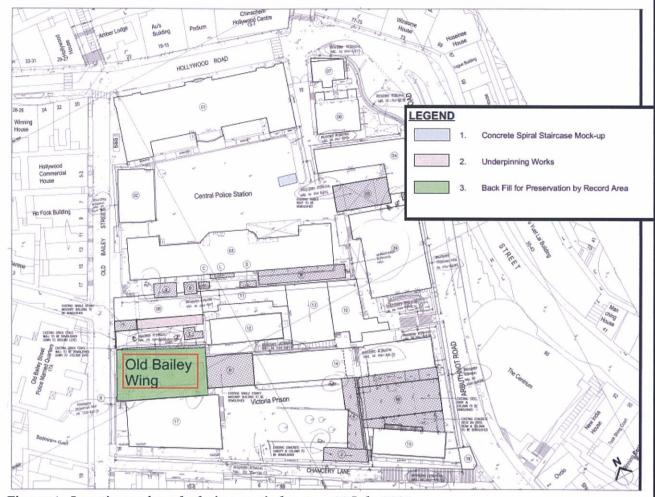


Figure 1. Locations of works being carried out on 20 July 2012

3. The above works carried out on 20 July 2012 are not considered to give rise a significant noise due to the work nature and the equipment used for each work. Handheld electric grinder and electric welding machine were only used for five to ten minutes during the embellishing work for the concrete spiral staircase mockup. Ventilation fan was used during underpinning works, while hand tools such as shovels or trowels were used for manual back filling. No major construction activities were carried out during the date of complaint. However, to avoid potential noise nuisance in the future, follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been advised to notify all workers and operation supervisor of the complaint dated 20 July 2012 and to remind them to minimise the potential noise generated as much as possible during any work activities. The Contractor has also been recommended to provide Tool Box Training about good site practices, work during restricted hours and Permit to Work System to all frontline workers and operation supervisor. Additionally, the Contractor has been reminded to provide acoustic curtain, where applicable, to the handheld mechanical equipment and properly install noise barriers during major construction activities in the future.

Date of File Closed:

26 July 2012

Approved by:

ET Leader

IEC

JCCPS's

Representative

Rocco Design Architect's

Representative

(Name: Winnie Ko)

Date: 26 July 2012

(Name: Sharifah Or)

Date: 26 July 2012

(Name: C.W. Sham)

(Name:

Gammon's Representative

(Name: Date:

2012-07-26

Annex L

Records of Vibration Monitoring for Demolition Works



Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report no.8

(16 April 2012 ~ 5 May 2012)





Stage: Initial Stage (Baseline) for stage 1

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 23 Dec 2011 | 11:05 | VM1 | 0.51 | 5 | |
| 23 Dec 2011 | 14:18 | VM4 | 0.25 | 5 | |
| 23 Dec 2011 | 14:27 | VM5 | 0.63 | 5 | |
| 23 Dec 2011 | 13:30 | VM6 | 0.13 | 5 | No demolition |
| 23 Dec 2011 | 14:40 | VM7 | 0.13 | 5 | activity |
| 23 Dec 2011 | 14:06 | VM8 | 0.13 | 5 | |
| 23 Dec 2011 | 13:21 | VM9 | 0.13 | 5 | |
| 23 Dec 2011 | 13:41 | VM10 | 0.13 | 5 | |

Stage: Initial Stage (Baseline) for stage 2

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 24 February 2012 | 17:41 | VM1 | 0.25 | 5 | |
| 24 February 2012 | 17:17 | VM3 | 0.25 | 5 | |
| 24 February 2012 | 17:50 | VM5 | 0.25 | 5 | |
| 24 February 2012 | 17:53 | VM6 | 0.32 | 5 | |
| 24 February 2012 | 17:57 | VM8 | 0.35 | 5 | |
| 24 February 2012 | 18:02 | VM9 | 0.35 | 5 | |
| 24 February 2012 | 15:01 | VM11 | 0.13 | 5 | No demolition |
| 24 February 2012 | 15:57 | VM12 | 0.13 | 5 | activity |
| 24 February 2012 | 15:37 | VM13 | 1.14 | 5 | |
| 24 February 2012 | 15:20 | VM14 | 0.13 | 5 | |
| 24 February 2012 | 15:48 | VM15 | 0.13 | 5 | |
| 24 February 2012 | 16:18 | VM16 | 0.89 | 5 | |
| 24 February 2012 | 16:02 | VM17 | 0.13 | 5 | |
| 24 February 2012 | 16:51 | VM18 | 0.13 | 5 | |
| 24 February 2012 | 16:39 | VM19 | 0.13 | 5 | |





Stage: stage 1 & 2

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:59 | VM1 | 0.54 | 5 | |
| | 11:13 | VM3 | 0.32 | 5 | |
| | 10:39 | VM5 | 0.41 | 5 | |
| | 08:42 | VM6 | 0.78 | 5 | |
| | 10:28 | VM7 | 0.32 | 5 | |
| | 08:33 | VM8 | 0.64 | 5 | |
| | 08:51 | VM9 | 0.98 | 5 | Demolition of |
| 16 Apr 2012 | 10:20 | VM11 | 0.75 | 5 | Building 16, |
| | 13:12 | VM12 | 0.25 | 5 | Revetment |
| | 10:03 | VM13 | 0.57 | 5 | Wall 10 |
| | 10:11 | VM14 | 0.52 | 5 | |
| | 13:19 | VM15 | 0.25 | 5 | |
| | 11:18 | VM16 | 0.25 | 5 | |
| | 11:48 | VM17 | 0.13 | 5 | |
| | 11:37 | VM18 | 0.25 | 5 | |
| | 11:26 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 14:56 | VM1 | 0.76 | 5 | |
| | 15:08 | VM3 | 0.52 | 5 | |
| | 14:39 | VM5 | 0.25 | 5 | |
| | 13:19 | VM6 | 0.89 | 5 | |
| | 14:27 | VM7 | 0.46 | 5 | |
| | 13:13 | VM8 | 0.72 | 5 | |
| | 13:27 | VM9 | 0.63 | 5 | Demolition of |
| 17Apr 2012 | 13:43 | VM11 | 0.54 | 5 | Building B, 16, |
| | 16:03 | VM12 | 0.25 | 5 | Revetment Wall 10 |
| | 14:10 | VM13 | 0.46 | 5 | |
| | 13:54 | VM14 | 0.38 | 5 | |
| | 16:17 | VM15 | 0.25 | 5 | |
| | 15:21 | VM16 | 0.38 | 5 | |
| | 15:47 | VM17 | 0.13 | 5 | |
| | 15:39 | VM18 | 0.25 | 5 | |
| | 15:28 | VM19 | 0.13 | 5 | |





| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 18 Apr 2012 | 15:58 | VM1 | 0.54 | 5 | Revetment |
| | 15:42 | VM6 | 0.32 | 5 | Wall 10 |

| Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------|--|---|--|---|
| 09:12 | VM1 | 0.57 | 5 | Demolition of |
| 09:33 | VM3 | 0.76 | 5 | Building C, |
| 08:47 | VM6 | 0.32 | 5 | Revetment |
| 09:42 | VM16 | 0.13 | 5 | Wall 10 |
| 10:08 | VM17 | 0.13 | 5 | |
| 09:59 | VM18 | 0.25 | 5 | |
| 09:50 | VM19 | 0.25 | 5 | |
| | | | | |
| | 09:12 09:33 08:47 09:42 10:08 09:59 | Time of Check Points 09:12 VM1 09:33 VM3 08:47 VM6 09:42 VM16 10:08 VM17 09:59 VM18 | Time of Check Point) (mm/s) (Max. Point) (mm/s) 09:12 VM1 0.57 09:33 VM3 0.76 08:47 VM6 0.32 09:42 VM16 0.13 10:08 VM17 0.13 09:59 VM18 0.25 | Time of Check Points (Max. Point) (mm/s) Duration (Mins) 09:12 VM1 0.57 5 09:33 VM3 0.76 5 08:47 VM6 0.32 5 09:42 VM16 0.13 5 10:08 VM17 0.13 5 09:59 VM18 0.25 5 |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 20 Apr 2012 | 09:07 | VM1 | 0.52 | 5 | Demolition of |
| | 09:19 | VM3 | 0.63 | 5 | Building C,D,L |
| | 08:43 | VM6 | 0.89 | 5 | Revetment |
| | 09:34 | VM16 | 0.32 | 5 | Wall 10 |
| | 10:02 | VM17 | 0.13 | 5 | |
| | 09:51 | VM18 | 0.25 | 5 | |
| | 09:43 | VM19 | 0.13 | 5 | |





| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 21 Apr 2012 | 08:34 | VM1 | 0.67 | 5 | Demolition of |
| | 08:56 | VM3 | 0.54 | 5 | Building C,D,L, |
| | 08:17 | VM6 | 0.75 | 5 | Revetment |
| | 09:04 | VM16 | 0.37 | 5 | Wall 10 |
| | 09:22 | VM17 | 0.25 | 5 | |
| | 09:31 | VM18 | 0.25 | 5 | |
| | 09:13 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 23 Apr 2012 | 09:12 | VM1 | 0.25 | 5 | Demolition of |
| | 09:25 | VM3 | 0.54 | 5 | Building M, |
| | 08:53 | VM6 | 0.25 | 5 | |
| | 09:44 | VM16 | 0.13 | 5 | |
| | 10:23 | VM17 | 0.23 | 5 | |
| | 10:07 | VM18 | 0.25 | 5 | |
| | 09:53 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 13:44 | VM1 | 0.25 | 5 | |
| | 14:03 | VM3 | 0.54 | 5 | |
| | 13:17 | VM5 | 0.37 | 5 | Domolition of |
| 24Apr 2012 | 14:12 | VM16 | 0.25 | 5 | Demolition of Building M, |
| · | 14:34 | VM17 | 0.13 | 5 | |
| | 14:28 | VM18 | 0.25 | 5 | |
| | 14:20 | VM19 | 0.13 | 5 | |



| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:32 | VM1 | 0.54 | 5 | |
| | 09:55 | VM3 | 0.25 | 5 | |
| | 09:17 | VM5 | 0.25 | 5 | Domolition of |
| 25 Apr 2012 | 10:06 | VM16 | 0.13 | 5 | Demolition of Building M |
| · | 10:43 | VM17 | 0.13 | 5 | |
| | 10:27 | VM18 | 0.25 | 5 | |
| | 10:14 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 08:45 | VM1 | 0.64 | 5 | |
| | 09:03 | VM3 | 0.32 | 5 | |
| | 10:07 | VM5 | 0.25 | 5 | Domolition of |
| 26 Apr 2012 | 09:17 | VM16 | 0.13 | 5 | Demolition of Building M, |
| · | 09:42 | VM17 | 0.13 | 5 | |
| | 09:36 | VM18 | 0.25 | 5 | |
| | 09:28 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:57 | VM1 | 0.37 | 5 | |
| | 09:38 | VM3 | 0.32 | 5 | |
| | 09:17 | VM5 | 0.46 | 5 | Domolition of |
| 27 Apr 2012 | 09:55 | VM16 | 0.25 | 5 | Demolition of Building M, |
| · | 10:42 | VM17 | 0.13 | 5 | |
| | 10:28 | VM18 | 0.25 | 5 | |
| | 10:07 | VM19 | 0.13 | 5 | |



| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 08:34 | VM1 | 025 | 5 | |
| | 09:43 | VM3 | 0.13 | 5 | |
| | 09:23 | VM5 | 0.25 | 5 | Demolition of |
| | 09:58 | VM16 | 0.13 | 5 | |
| 30 Apr 2012 | 10:13 | VM17 | 0.13 | 5 | Building M |
| | 09:51 | VM18 | 0.13 | 5 | |
| | 10:06 | VM19 | 0.13 | 5 | |
| | 09:01 | VM7 | 0.63 | 5 | Preparation |
| | 09:10 | VM9 | 0.25 | 5 | Wall 12 |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:13 | VM1 | 0.25 | 5 | |
| | 09:35 | VM3 | 0.32 | 5 | |
| | 08:47 | VM5 | 0.25 | 5 | Domolition of |
| 02 May 2012 | 09:46 | VM16 | 0.17 | 5 | Demolition of Building M |
| , | 10:16 | VM17 | 0.28 | 5 | |
| | 10:07 | VM18 | 0.25 | 5 | |
| | 09:54 | VM19 | 0.13 | 5 | |

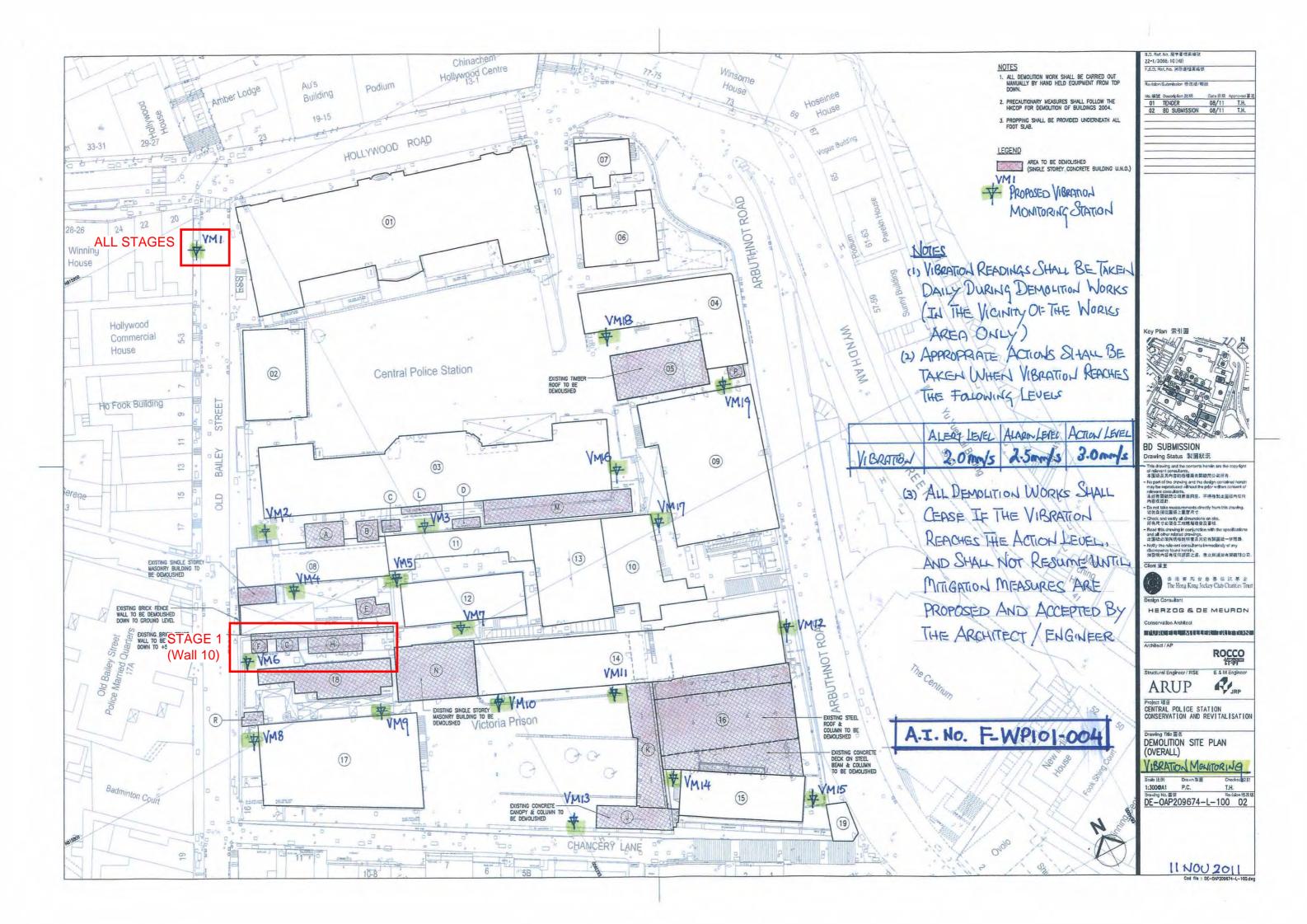
| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:23 | VM1 | 0.54 | 5 | |
| | 10:34 | VM3 | 0.25 | 5 | |
| | 10:07 | VM5 | 0.25 | 5 | Demolition of |
| 03 May 2012 | 10:42 | VM16 | 0.25 | 5 | Building M |
| · | 11:16 | VM17 | 0.32 | 5 | |
| | 11:08 | VM18 | 0.27 | 5 | |
| | 10:57 | VM19 | 0.13 | 5 | |

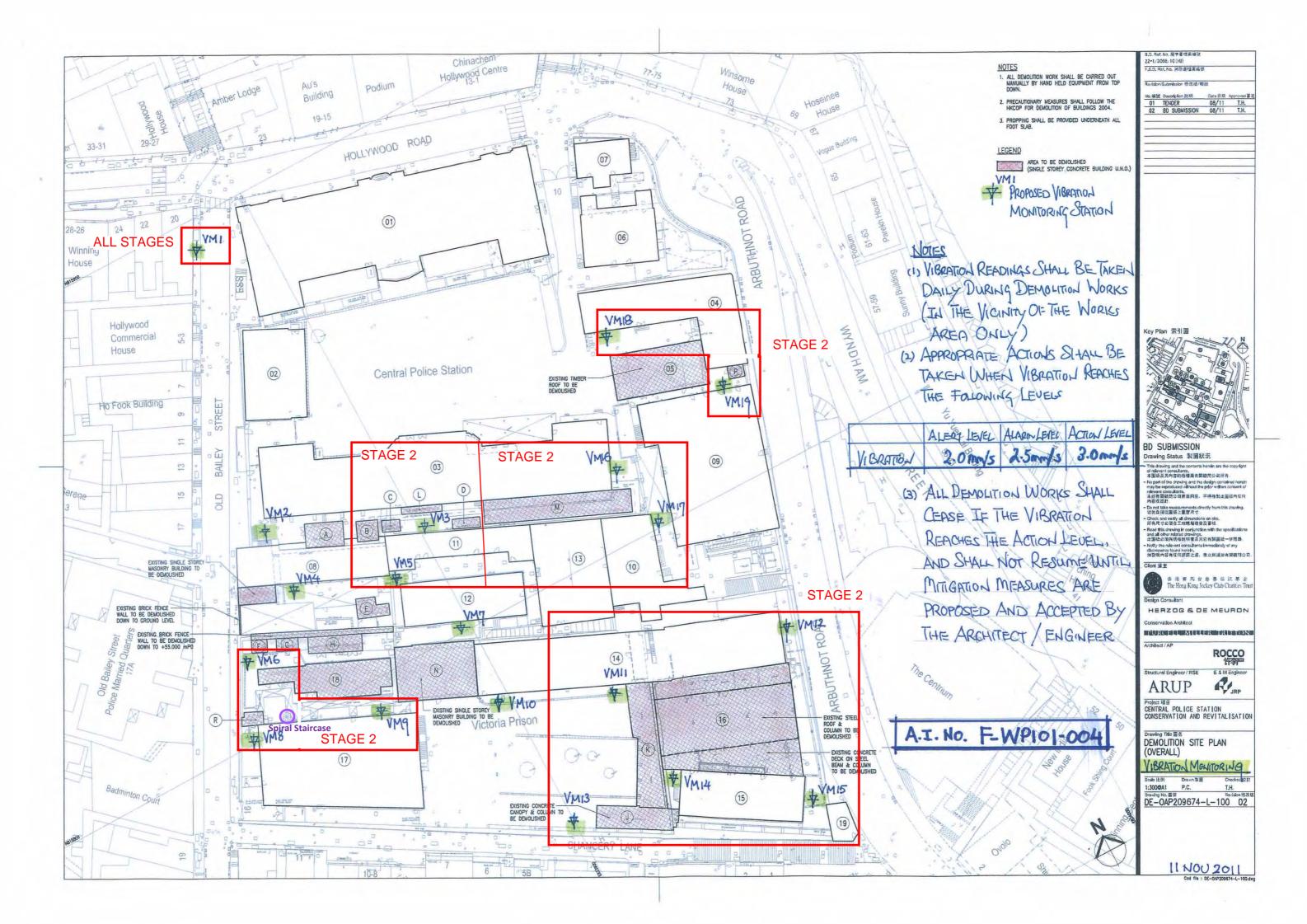


| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:03 | VM1 | 0.25 | 5 | |
| | 09:27 | VM3 | 0.27 | 5 | |
| | 08:47 | VM5 | 0.25 | 5 | Domolition of |
| 04 May 2012 | 09:44 | VM16 | 0.13 | 5 | Demolition of Building M |
| · | 10:12 | VM17 | 0.22 | 5 | |
| | 10:01 | VM18 | 0.16 | 5 | |
| | 09:53 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:38 | VM1 | 0.62 | 5 | |
| | 09:56 | VM3 | 0.26 | 5 | |
| | 09:22 | VM5 | 0.24 | 5 | Domolition of |
| 05 May 2012 | 10:08 | VM16 | 0.22 | 5 | Demolition of Building M |
| • | 10:42 | VM17 | 0.21 | 5 | |
| | 10:28 | VM18 | 0.16 | 5 | |
| | 10:19 | VM19 | 0.16 | 5 | |









Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report no.9

(07 May 2012 ~ 19 May 2012)





Stage: Initial Stage (Baseline) for stage 1

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 23 Dec 2011 | 11:05 | VM1 | 0.51 | 5 | |
| 23 Dec 2011 | 14:18 | VM4 | 0.25 | 5 | |
| 23 Dec 2011 | 14:27 | VM5 | 0.63 | 5 | |
| 23 Dec 2011 | 13:30 | VM6 | 0.13 | 5 | No demolition |
| 23 Dec 2011 | 14:40 | VM7 | 0.13 | 5 | activity |
| 23 Dec 2011 | 14:06 | VM8 | 0.13 | 5 | |
| 23 Dec 2011 | 13:21 | VM9 | 0.13 | 5 | |
| 23 Dec 2011 | 13:41 | VM10 | 0.13 | 5 | |

Stage: Initial Stage (Baseline) for stage 2

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 24 February 2012 | 17:41 | VM1 | 0.25 | 5 | |
| 24 February 2012 | 17:17 | VM3 | 0.25 | 5 | |
| 24 February 2012 | 17:50 | VM5 | 0.25 | 5 | |
| 24 February 2012 | 17:53 | VM6 | 0.32 | 5 | |
| 24 February 2012 | 17:57 | VM8 | 0.35 | 5 | |
| 24 February 2012 | 18:02 | VM9 | 0.35 | 5 | |
| 24 February 2012 | 15:01 | VM11 | 0.13 | 5 | No demolition |
| 24 February 2012 | 15:57 | VM12 | 0.13 | 5 | activity |
| 24 February 2012 | 15:37 | VM13 | 1.14 | 5 | |
| 24 February 2012 | 15:20 | VM14 | 0.13 | 5 | |
| 24 February 2012 | 15:48 | VM15 | 0.13 | 5 | |
| 24 February 2012 | 16:18 | VM16 | 0.89 | 5 | |
| 24 February 2012 | 16:02 | VM17 | 0.13 | 5 | |
| 24 February 2012 | 16:51 | VM18 | 0.13 | 5 | |
| 24 February 2012 | 16:39 | VM19 | 0.13 | 5 | |

Stage: Initial Stage (Baseline) for stage 2a

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|---------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 30 April 2012 | 09:01 | VM7 | 0.63 | 5 | No demolition |
| 30 April 2012 | 09:10 | VM9 | 0.25 | 5 | activity |





Stage: stage 2 & 2a

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 14:52 | VM 1 | 0.25 | 5 | |
| | 13:57 | VM 3 | 0.56 | 5 | |
| | 13:42 | VM 5 | 0.55 | 5 | Domolition of |
| 7 May 2012 | 14:08 | VM16 | 0.13 | 5 | Demolition of Building M, |
| • | 14:41 | VM17 | 0.34 | 5 | |
| | 14:29 | VM18 | 0.13 | 5 | |
| | 14:18 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:43 | VM 1 | 0.43 | 5 | |
| | 09:42 | VM 3 | 0.25 | 5 | |
| | 09:17 | VM 5 | 0.29 | 5 | Domolition of |
| 8 May 2012 | 09:53 | VM16 | 0.36 | 5 | Demolition of Building M, |
| | 10:19 | VM17 | 0.25 | 5 | |
| | 10:11 | VM18 | 0.13 | 5 | |
| | 10:02 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 11:03 | VM 1 | 0.62 | 5 | |
| | 09:11 | VM 3 | 0.43 | 5 | |
| | 08:57 | VM 5 | 0.25 | 5 | |
| | 08:44 | VM 7 | 0.25 | 5 | Demolition of |
| 9 May 2012 | 08:32 | VM 9 | 0.36 | 5 | Building M, |
| | 09:19 | VM16 | 0.41 | 5 | Wall 12 |
| | 09:38 | VM17 | 0.25 | 5 | |
| | 09:44 | VM18 | 0.25 | 5 | |
| | 09:28 | VM19 | 0.13 | 5 | |





| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:17 | VM 1 | 0.34 | 5 | |
| | 09:12 | VM 3 | 0.42 | 5 | |
| | 08:59 | VM 5 | 0.38 | 5 | |
| | 08:43 | VM 7 | 0.25 | 5 | Demolition of |
| 10 May 2012 | 08:32 | VM 9 | 0.28 | 5 | Building M, |
| | 09:24 | VM16 | 0.36 | 5 | Wa12 |
| | 09:41 | VM17 | 0.27 | 5 | |
| | 09:58 | VM18 | 0.25 | 5 | |
| | 09:47 | VM19 | 0.25 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 16:12 | VM 1 | 0.53 | 5 | |
| | 14:53 | VM 3 | 0.37 | 5 | |
| | 14:39 | VM 5 | 0.32 | 5 | |
| | 14:18 | VM 7 | 0.25 | 5 | Demolition of |
| 11 May 2012 | 14:07 | VM 9 | 0.25 | 5 | Building M, |
| | 15:12 | VM16 | 0.38 | 5 | Wall 12 |
| | 15:37 | VM17 | 0.25 | 5 | |
| | 15:48 | VM18 | 0.25 | 5 | |
| | 15:26 | VM19 | 0.25 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 14:32 | VM1 | 025 | 5 | |
| | 13:34 | VM3 | 0.13 | 5 | |
| | 13:17 | VM5 | 0.25 | 5 | Domolition of |
| 12 May 2012 | 13:46 | VM16 | 0.13 | 5 | Demolition of Building M |
| · | 13:56 | VM17 | 0.13 | 5 | |
| | 14:13 | VM18 | 0.13 | 5 | |
| | 14:04 | VM19 | 0.13 | 5 | |





| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:38 | VM1 | 0.25 | 5 | |
| | 09:36 | VM3 | 0.36 | 5 | |
| | 09:17 | VM5 | 0.25 | 5 | Domolition of |
| 14 May 2012 | 09:47 | VM16 | 0.35 | 5 | Demolition of Building M, |
| | 09:58 | VM17 | 0.28 | 5 | |
| | 10:19 | VM18 | 0.25 | 5 | |
| | 10:08 | VM19 | 0.25 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:06 | VM1 | 0.56 | 5 | |
| | 09:04 | VM3 | 0.32 | 5 | |
| | 08:43 | VM5 | 0.25 | 5 | Domolition of |
| 15 May 2012 | 09:17 | VM16 | 0.47 | 5 | Demolition of Building M, |
| • | 09:28 | VM17 | 0.25 | 5 | |
| | 09:52 | VM18 | 0.35 | 5 | |
| | 09:39 | VM19 | 0.25 | 5 | |

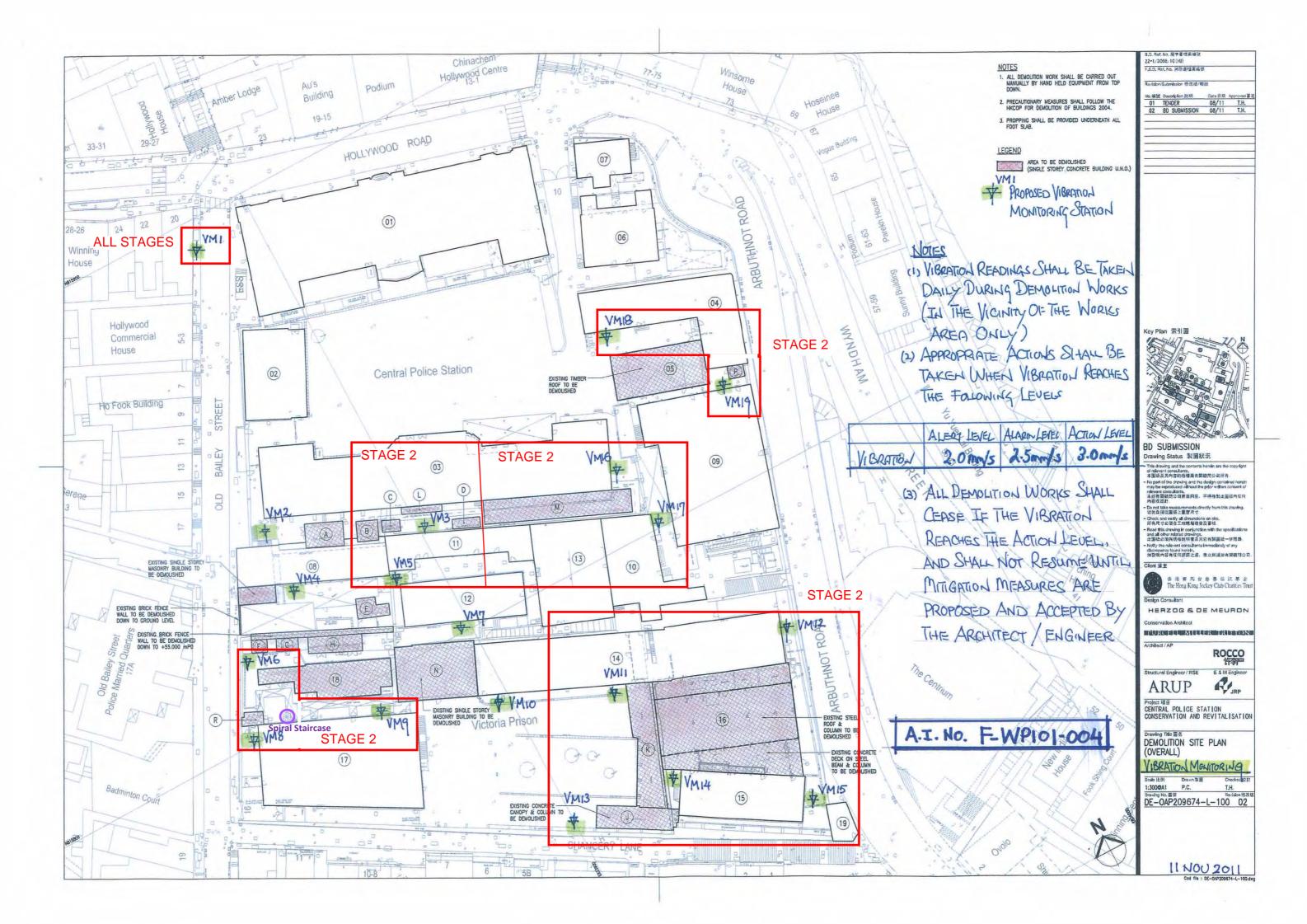
| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:47 | VM1 | 0.32 | 5 | |
| | 08:45 | VM3 | 0.32 | 5 | |
| | 08:32 | VM5 | 0.25 | 5 | Domolition of |
| 16 May 2012 | 08:58 | VM16 | 0.42 | 5 | Demolition of Building M |
| - | 09:07 | VM17 | 0.25 | 5 | |
| | 09:29 | VM18 | 0.25 | 5 | |
| | 09:19 | VM19 | 0.25 | 5 | |

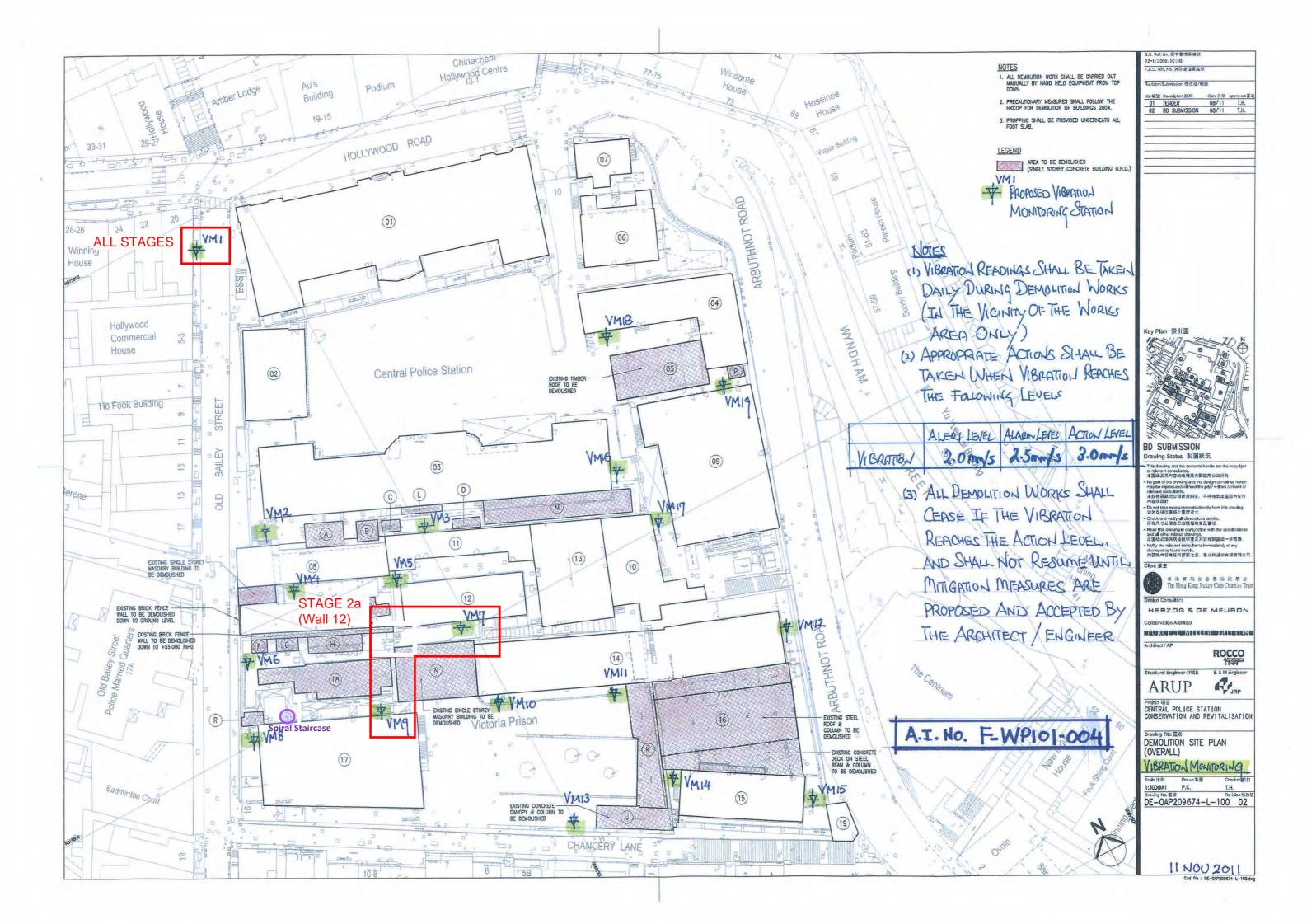


| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 11:32 | VM1 | 0.42 | 5 | |
| | 11:08 | VM3 | 0.36 | 5 | |
| | 10:57 | VM5 | 0.25 | 5 | Domolition of |
| 17 May 2012 | 10:17 | VM16 | 0.38 | 5 | Demolition of Building M, |
| · | 10:29 | VM17 | 0.25 | 5 | |
| | 10:44 | VM18 | 0.27 | 5 | |
| | 10:36 | VM19 | 0.25 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:15 | VM1 | 0.36 | 5 | |
| | 09:49 | VM3 | 0.37 | 5 | |
| | 10:03 | VM5 | 0.28 | 5 | Domolition of |
| 18 May 2012 | 09:13 | VM16 | 0.40 | 5 | Demolition of Building M, |
| | 09:21 | VM17 | 0.25 | 5 | |
| | 09:38 | VM18 | 0.27 | 5 | |
| | 09:30 | VM19 | 0.25 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:47 | VM1 | 0.25 | 5 | |
| | 09:19 | VM3 | 0.32 | 5 | |
| | 09:33 | VM5 | 0.36 | 5 | Domolition of |
| 19 May 2012 | 08:42 | VM16 | 0.36 | 5 | Demolition of Building M |
| | 08:50 | VM17 | 0.25 | 5 | |
| | 09:07 | VM18 | 0.25 | 5 | |
| | 08:58 | VM19 | 0.25 | 5 | |







Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report no.10

(21 May 2012 ~ 2 June 2012)





Stage: Initial Stage (Baseline) for stage 1

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 23 Dec 2011 | 11:05 | VM1 | 0.51 | 5 | |
| 23 Dec 2011 | 14:18 | VM4 | 0.25 | 5 | |
| 23 Dec 2011 | 14:27 | VM5 | 0.63 | 5 | |
| 23 Dec 2011 | 13:30 | VM6 | 0.13 | 5 | No demolition |
| 23 Dec 2011 | 14:40 | VM7 | 0.13 | 5 | activity |
| 23 Dec 2011 | 14:06 | VM8 | 0.13 | 5 | |
| 23 Dec 2011 | 13:21 | VM9 | 0.13 | 5 | |
| 23 Dec 2011 | 13:41 | VM10 | 0.13 | 5 | |

Stage: Initial Stage (Baseline) for stage 2

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 24 February 2012 | 17:41 | VM1 | 0.25 | 5 | |
| 24 February 2012 | 17:17 | VM3 | 0.25 | 5 | |
| 24 February 2012 | 17:50 | VM5 | 0.25 | 5 | |
| 24 February 2012 | 17:53 | VM6 | 0.32 | 5 | |
| 24 February 2012 | 17:57 | VM8 | 0.35 | 5 | |
| 24 February 2012 | 18:02 | VM9 | 0.35 | 5 | |
| 24 February 2012 | 15:01 | VM11 | 0.13 | 5 | No demolition |
| 24 February 2012 | 15:57 | VM12 | 0.13 | 5 | activity |
| 24 February 2012 | 15:37 | VM13 | 1.14 | 5 | |
| 24 February 2012 | 15:20 | VM14 | 0.13 | 5 | |
| 24 February 2012 | 15:48 | VM15 | 0.13 | 5 | |
| 24 February 2012 | 16:18 | VM16 | 0.89 | 5 | |
| 24 February 2012 | 16:02 | VM17 | 0.13 | 5 | |
| 24 February 2012 | 16:51 | VM18 | 0.13 | 5 | |
| 24 February 2012 | 16:39 | VM19 | 0.13 | 5 | |

Stage: Initial Stage (Baseline) for stage 2a

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|---------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 30 April 2012 | 09:01 | VM7 | 0.63 | 5 | No demolition |
| 30 April 2012 | 09:10 | VM9 | 0.25 | 5 | activity |





Stage: stage 2

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:42 | VM1 | 0.25 | 5 | |
| | 09:41 | VM3 | 0.13 | 5 | |
| | 09:22 | VM5 | 0.13 | 5 | Domolition of |
| 21 May 2012 | 09:52 | VM16 | 0.25 | 5 | Demolition of Building M, |
| | 10:03 | VM17 | 0.13 | 5 | |
| | 10:24 | VM18 | 0.22 | 5 | |
| | 10:13 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:16 | VM1 | 0.56 | 5 | |
| | 09:14 | VM3 | 0.13 | 5 | |
| | 08:53 | VM5 | 0.15 | 5 | Domolition of |
| 22 May 2012 | 09:27 | VM16 | 0.15 | 5 | Demolition of Building M, |
| , | 09:58 | VM17 | 0.15 | 5 | |
| | 09:42 | VM18 | 0.25 | 5 | |
| | 09:49 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:42 | VM1 | 0.32 | 5 | |
| | 08:40 | VM3 | 0.25 | 5 | |
| | 08:27 | VM5 | 0.25 | 5 | Domolition of |
| 23 May 2012 | 08:53 | VM16 | 0.25 | 5 | Demolition of Building M |
| , | 09:02 | VM17 | 0.13 | 5 | |
| | 09:24 | VM18 | 0.25 | 5 | |
| | 09:15 | VM19 | 0.13 | 5 | |





| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:32 | VM1 | 0.42 | 5 | |
| | 10:08 | VM3 | 0.25 | 5 | |
| | 09:57 | VM5 | 0.25 | 5 | Domolition of |
| 24 May 2012 | 09:17 | VM16 | 0.25 | 5 | Demolition of Building M, |
| | 09:29 | VM17 | 0.13 | 5 | |
| | 09:44 | VM18 | 0.25 | 5 | |
| | 09:36 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:15 | VM1 | 0.36 | 5 | |
| | 08:49 | VM3 | 0.37 | 5 | |
| | 09:03 | VM5 | 0.25 | 5 | Domolition of |
| 25 May 2012 | 08:13 | VM16 | 0.27 | 5 | Demolition of Building M, |
| | 08:21 | VM17 | 0.13 | 5 | |
| | 08:38 | VM18 | 0.25 | 5 | |
| | 08:30 | VM19 | 0.23 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:37 | VM1 | 0.25 | 5 | |
| | 09:19 | VM3 | 0.32 | 5 | |
| | 09:23 | VM5 | 0.36 | 5 | Domolition of |
| 26 May 2012 | 08:32 | VM16 | 0.36 | 5 | Demolition of Building M |
| · | 08:40 | VM17 | 0.25 | 5 | |
| | 09:07 | VM18 | 0.25 | 5 | |
| | 08:49 | VM19 | 0.25 | 5 | |



| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:47 | VM1 | 0.25 | 5 | |
| | 09:46 | VM3 | 0.12 | 5 | |
| | 09:27 | VM5 | 0.12 | 5 | Domolition of |
| 28 May 2012 | 09:57 | VM16 | 0.24 | 5 | Demolition of Building M, |
| | 10:08 | VM17 | 0.12 | 5 | |
| | 10:29 | VM18 | 0.21 | 5 | |
| | 10:18 | VM19 | 0.12 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:11 | VM1 | 0.56 | 5 | |
| | 09:09 | VM3 | 0.13 | 5 | |
| | 08:48 | VM5 | 0.15 | 5 | Domolition of |
| 29 May 2012 | 09:22 | VM16 | 0.15 | 5 | Demolition of Building M, |
| • | 09:53 | VM17 | 0.15 | 5 | |
| | 09:37 | VM18 | 0.25 | 5 | |
| | 09:44 | VM19 | 0.13 | 5 | |

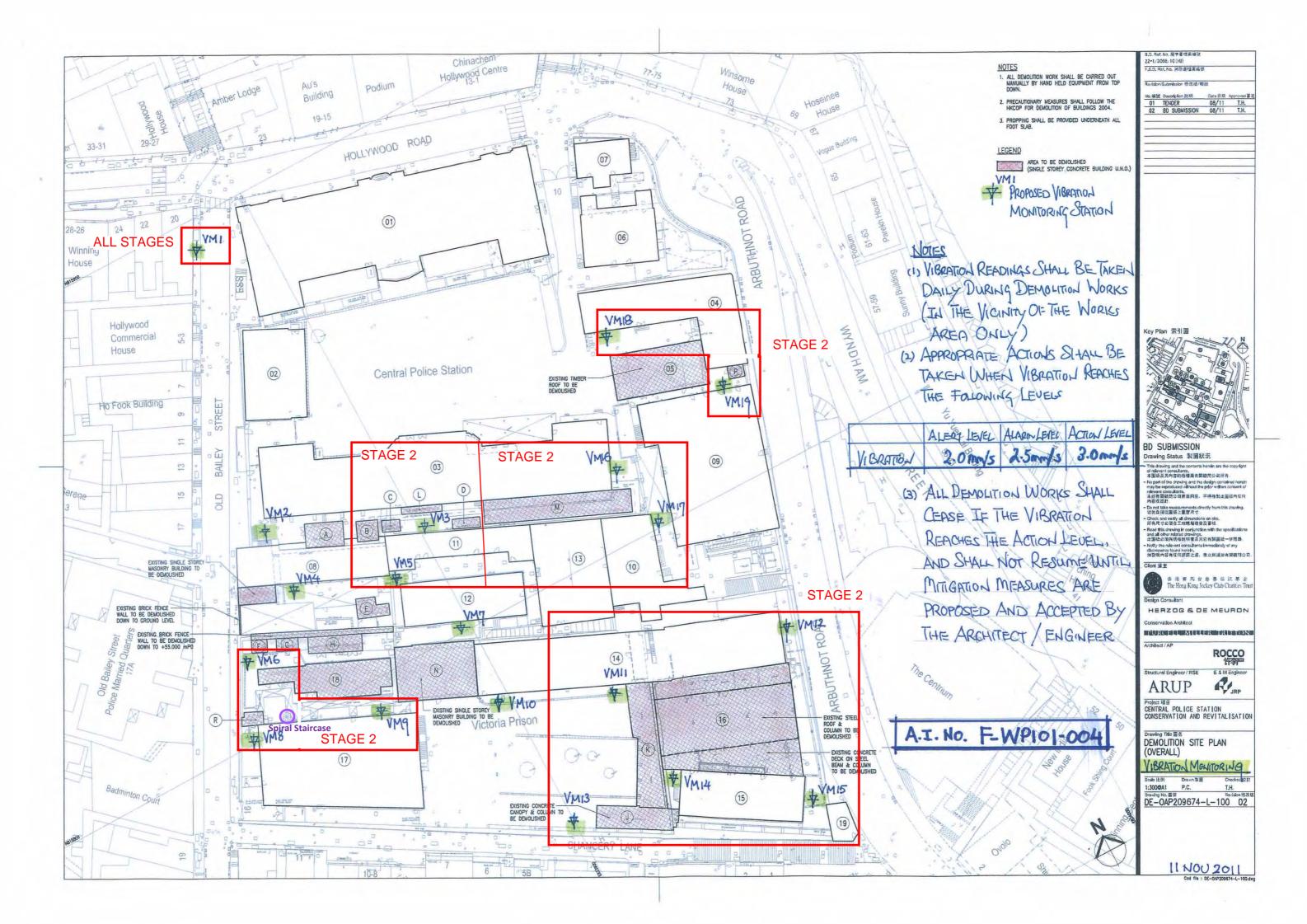
| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:42 | VM1 | 0.32 | 5 | |
| | 09:40 | VM3 | 0.25 | 5 | |
| | 09:27 | VM5 | 0.25 | 5 | Domolition of |
| 30 May 2012 | 09:53 | VM16 | 0.25 | 5 | Demolition of Building M |
| | 10:02 | VM17 | 0.13 | 5 | |
| | 10:24 | VM18 | 0.25 | 5 | |
| | 10:15 | VM19 | 0.13 | 5 | |



| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:35 | VM1 | 0.42 | 5 | |
| | 10:13 | VM3 | 0.25 | 5 | |
| | 10:03 | VM5 | 0.25 | 5 | Domolition of |
| 31 May 2012 | 09:22 | VM16 | 0.25 | 5 | Demolition of Building M, |
| | 09:34 | VM17 | 0.13 | 5 | |
| | 09:49 | VM18 | 0.25 | 5 | |
| | 09:41 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:15 | VM1 | 0.36 | 5 | |
| | 08:49 | VM3 | 0.32 | 5 | |
| | 09:03 | VM5 | 0.25 | 5 | Domolition of |
| 1 June 2012 | 08:13 | VM16 | 0.27 | 5 | Demolition of Building M, |
| | 08:21 | VM17 | 0.13 | 5 | |
| | 08:38 | VM18 | 0.25 | 5 | |
| | 08:30 | VM19 | 0.23 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:37 | VM1 | 0.25 | 5 | |
| | 09:19 | VM3 | 0.28 | 5 | |
| | 09:23 | VM5 | 0.32 | 5 | Domolition of |
| 2 June 2012 | 08:32 | VM16 | 0.25 | 5 | Demolition of Building M |
| | 08:40 | VM17 | 0.13 | 5 | |
| | 09:07 | VM18 | 0.25 | 5 | |
| | 08:49 | VM19 | 0.13 | 5 | |





Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report no.11

(4 June 2012 ~ 16 June 2012)





Stage: Initial Stage (Baseline) for stage 1

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 23 Dec 2011 | 11:05 | VM1 | 0.51 | 5 | |
| 23 Dec 2011 | 14:18 | VM4 | 0.25 | 5 | |
| 23 Dec 2011 | 14:27 | VM5 | 0.63 | 5 | |
| 23 Dec 2011 | 13:30 | VM6 | 0.13 | 5 | No demolition |
| 23 Dec 2011 | 14:40 | VM7 | 0.13 | 5 | activity |
| 23 Dec 2011 | 14:06 | VM8 | 0.13 | 5 | |
| 23 Dec 2011 | 13:21 | VM9 | 0.13 | 5 | |
| 23 Dec 2011 | 13:41 | VM10 | 0.13 | 5 | |

Stage: Initial Stage (Baseline) for stage 2 and 3

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|------------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 24 February 2012 | 17:41 | VM1 | 0.25 | 5 | |
| 24 February 2012 | 17:17 | VM3 | 0.25 | 5 | |
| 24 February 2012 | 17:50 | VM5 | 0.25 | 5 | |
| 24 February 2012 | 17:53 | VM6 | 0.32 | 5 | |
| 24 February 2012 | 17:57 | VM8 | 0.35 | 5 | |
| 24 February 2012 | 18:02 | VM9 | 0.35 | 5 | |
| 24 February 2012 | 15:01 | VM11 | 0.13 | 5 | No demolition |
| 24 February 2012 | 15:57 | VM12 | 0.13 | 5 | activity |
| 24 February 2012 | 15:37 | VM13 | 1.14 | 5 | |
| 24 February 2012 | 15:20 | VM14 | 0.13 | 5 | |
| 24 February 2012 | 15:48 | VM15 | 0.13 | 5 | |
| 24 February 2012 | 16:18 | VM16 | 0.89 | 5 | |
| 24 February 2012 | 16:02 | VM17 | 0.13 | 5 | |
| 24 February 2012 | 16:51 | VM18 | 0.13 | 5 | |
| 24 February 2012 | 16:39 | VM19 | 0.13 | 5 | |

Stage: Initial Stage (Baseline) for stage 2a

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|---------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| 30 April 2012 | 09:01 | VM7 | 0.63 | 5 | No demolition |
| 30 April 2012 | 09:10 | VM9 | 0.25 | 5 | activity |





Stage: stage 2

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:47 | VM1 | 0.25 | 5 | |
| | 09:46 | VM3 | 0.12 | 5 | |
| | 09:27 | VM5 | 0.12 | 5 | Domolition of |
| 4 June 2012 | 09:57 | VM16 | 0.24 | 5 | Demolition of Building P |
| | 10:08 | VM17 | 0.12 | 5 | |
| | 10:29 | VM18 | 0.21 | 5 | |
| | 10:18 | VM19 | 0.12 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:11 | VM1 | 0.56 | 5 | |
| | 09:09 | VM3 | 0.13 | 5 | |
| | 08:48 | VM5 | 0.15 | 5 | Domolition of |
| 5 June 2012 | 09:22 | VM16 | 0.15 | 5 | Demolition of Building P |
| | 09:53 | VM17 | 0.15 | 5 | |
| | 09:37 | VM18 | 0.25 | 5 | |
| | 09:44 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:42 | VM1 | 0.32 | 5 | |
| | 09:40 | VM3 | 0.25 | 5 | |
| | 09:27 | VM5 | 0.25 | 5 | Domolition of |
| 6 June 2012 | 09:53 | VM16 | 0.25 | 5 | Demolition of Building P |
| | 10:02 | VM17 | 0.13 | 5 | |
| | 10:24 | VM18 | 0.25 | 5 | |
| | 10:15 | VM19 | 0.13 | 5 | |



| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 10:35 | VM1 | 0.42 | 5 | |
| | 10:13 | VM3 | 0.25 | 5 | |
| | 10:03 | VM5 | 0.25 | 5 | Demolition of |
| 7 June 2012 | 09:22 | VM16 | 0.25 | 5 | Building P |
| | 09:34 | VM17 | 0.13 | 5 | building F |
| | 09:49 | VM18 | 0.25 | 5 | |
| | 09:41 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:15 | VM1 | 0.36 | 5 | |
| | 08:49 | VM3 | 0.32 | 5 | |
| | 09:03 | VM5 | 0.25 | 5 | Demolition of |
| 8 June 2012 | 08:13 | VM16 | 0.27 | 5 | Building P |
| | 08:21 | VM17 | 0.13 | 5 | building F |
| | 08:38 | VM18 | 0.25 | 5 | |
| | 08:30 | VM19 | 0.23 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|-------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:37 | VM1 | 0.25 | 5 | |
| | 09:19 | VM3 | 0.28 | 5 | |
| | 09:23 | VM5 | 0.32 | 5 | Demolition of |
| 9 June 2012 | 08:32 | VM16 | 0.25 | 5 | Building P |
| | 08:40 | VM17 | 0.13 | 5 | Building F |
| | 09:07 | 09:07 VM18 0 | | 5 | |
| | 08:49 | VM19 | 0.13 | 5 | |





| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|--------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 11:13 | VM1 | 0.57 | 5 | |
| | 10:39 | VM3 | 0.52 | 5 | |
| | 08:42 | VM5 | 0.25 | 5 | Demolition of |
| 11 June 2012 | 10:28 | VM16 | 0.25 | 5 | Building P |
| | 08:33 | VM17 | 0.13 | 5 | building F |
| | 08:51 | VM18 | 0.25 | 5 | |
| | 10:20 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|--------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 14:56 | VM1 | 0.46 | 5 | |
| | 15:08 | VM3 | 0.38 | 5 | |
| | 14:39 | VM5 | 0.25 | 5 | Demolition of |
| 12 June 2012 | 13:19 | VM16 | 0.38 | 5 | Building P |
| | 14:27 | VM17 | 0.13 | 5 | building F |
| | 13:13 | VM18 | 0.25 | 5 | |
| | 13:27 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|--------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:12 | VM1 | 0.57 | 5 | |
| | 09:33 | VM3 | 0.76 | 5 | |
| | 08:47 | VM5 | 0.32 | 5 | Demolition of |
| 13 June 2012 | 09:42 | VM16 | 0.13 | 5 | Building P |
| | 10:08 | VM17 | 0.13 | 5 | Building F |
| | 09:59 | VM18 | 0.25 | 5 | |
| | 09:50 | VM19 | 0.25 | 5 | |

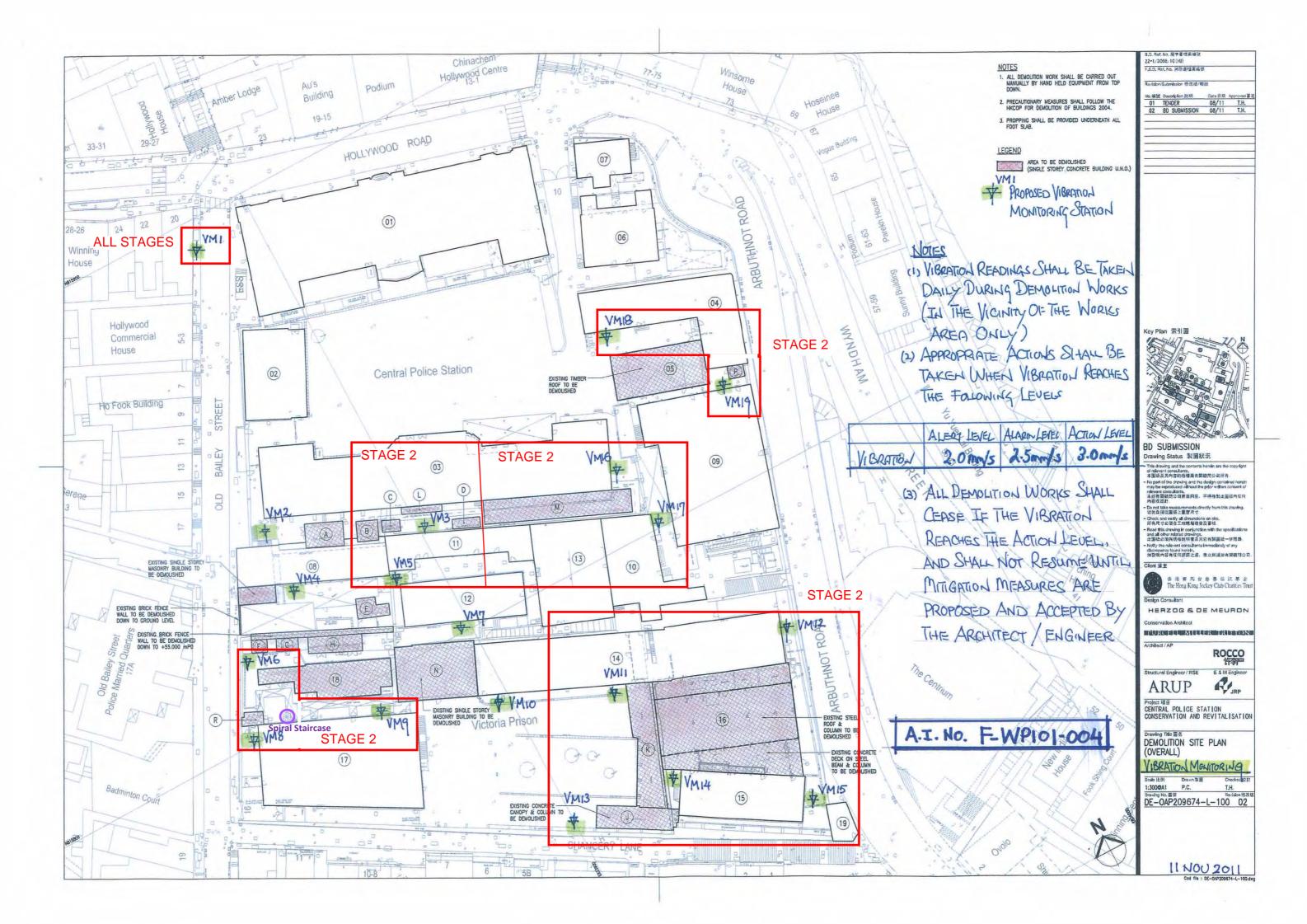


| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|--------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 09:07 | VM1 | 0.52 | 5 | |
| | 09:19 | VM3 | 0.63 | 5 | |
| | 08:43 | VM5 | 0.89 | 5 | Demolition of |
| 14 June 2012 | 09:34 | VM16 | 0.32 | 5 | Building P |
| | 10:02 | VM17 | 0.13 | 5 | building F |
| | 09:51 | VM18 | 0.25 | 5 | |
| | 09:43 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|--------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 14:10 | VM1 | 0.67 | 5 | |
| | 13:54 | VM3 | 0.54 | 5 | |
| | 16:17 | VM5 | 0.75 | 5 | Demolition of |
| 15 June 2012 | 15:21 | VM16 | 0.37 | 5 | Building P |
| | 15:47 | VM17 | 0.25 | 5 | building F |
| | 15:39 | VM18 | 0.25 | 5 | |
| | 15:28 | VM19 | 0.13 | 5 | |

| Date | Time | Location of Check Points | Result (Max. Point) (mm/s) | Monitoring Duration (Mins) | Location of Demolition Work |
|--------------|-------|-----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
| | 15:01 | VM1 | 0.25 | 5 | |
| | 15:57 | VM3 | 0.54 | 5 | |
| | 15:37 | VM5 | 0.25 | 5 | Demolition of |
| 16 June 2012 | 15:20 | VM16 | 0.13 | 5 | Building P |
| | 15:48 | VM17 | 0.23 | 5 | Dulluling F |
| | 16:18 | VM18 | 0.25 | 5 | |
| | 16:02 | VM19 | 0.13 | 5 | |





Annex M

Records of Vibration Monitoring for Trial Pile Works

State of the dis-



Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 Date: 2012-4-22 To 2012-5-5

| POIN | ĪT | VM1 | VM2 | VM3 | VM4 | VM5 | VM6 | VM7 | VM8 | VM9 | VM10 | VM11 | VM12 | VM13 | VM14 | VM15 |
|-----------|----------|------|------|------|------|------|------|------|-------------|------|------|------|------|------|------|------|
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 2/4/2012(| Initial) | 0.58 | 0.18 | 0.18 | 0.66 | 1.4 | 0.25 | 1.14 | 0.65 | 0.28 | 0.22 | 0.18 | 0.22 | 0.18 | 0.22 | 0.22 |
| 23/4/2012 | | 0.54 | 0.19 | 0.75 | 1.01 | 0.24 | 0.91 | 0.18 | 0.13 | 0.22 | 0.36 | 0.68 | 0.21 | 0.67 | 0.27 | 0.13 |
| 24/4/2012 | | 0.63 | 0.13 | 0.81 | 1.21 | 1.01 | 1.08 | 0.19 | 0.27 | 0.22 | 0.64 | 0.38 | 0.13 | 1.01 | 0.19 | 0.22 |
| 25/4/2012 | | 0.27 | 0.13 | 0.19 | 0.98 | 1.08 | 0.67 | 0.81 | 0.23 | 0.61 | 0.13 | 0.13 | 0.27 | 0.22 | 0.13 | 0.13 |
| 26/4/2012 | | 0.13 | 0.19 | 0.62 | 0.81 | 0.71 | 0.53 | 0.13 | 0.13 | 0.19 | 0.22 | 0.47 | 0.13 | 0.19 | 0.13 | 0.13 |
| 27/4/2012 | | 0.19 | 0.22 | 0.13 | 0.13 | 0.13 | 0.13 | 0.19 | 0.21 | 0.13 | 0.27 | 0.13 | 0.33 | 0.13 | 0.19 | 0.13 |
| 28/4/2012 | | | | | | | | Pı | ıblic Holid | lay | | | | | | |
| | | | | | | | | | | | | | | | | |
| 30/4/2012 | | 0.23 | 0.21 | 0.37 | 0.31 | 0.34 | 0.41 | 0.22 | 0.33 | 0.27 | 0.19 | 0.32 | 0.21 | 0.35 | 0.25 | 0.13 |
| 1/5/2012 | | | | | | | | Pt | ıblic Holid | lay | | | | | | |
| 2/5/2012 | | 0.23 | 0.13 | 0.19 | 0.21 | 0.63 | 0.13 | 0.22 | 0.13 | 0.19 | 0.13 | 0.13 | 0.19 | 0.31 | 0.13 | 0.22 |
| 3/5/2012 | | 0.19 | 0.27 | 0.61 | 0.13 | 0.13 | 0.17 | 0.21 | 0.36 | 0.63 | 0.17 | 0.22 | 0.21 | 0.63 | 0.13 | 0.24 |
| 4/5/2012 | | 0.63 | 0.27 | 0.6 | 0.22 | 0.23 | 0.61 | 0.71 | 0.21 | 0.13 | 0.61 | 0.79 | 0.81 | 0.13 | 0.13 | 0.13 |
| 5/5/2012 | | 0.61 | 0.21 | 0.13 | 0.13 | 0.19 | 0.13 | 0.27 | 0.13 | 0.23 | 0.34 | 0.13 | 0.61 | 0.69 | 0.14 | 0.88 |

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| Monitoring Check Pts. | Trigger Levels | | | | | | | | |
|-----------------------|----------------|-------------|--------------|--|--|--|--|--|--|
| Monitoring Check Fts. | Alert level | Alarm level | Action level | | | | | | |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s | | | | | | |

Vibration Record

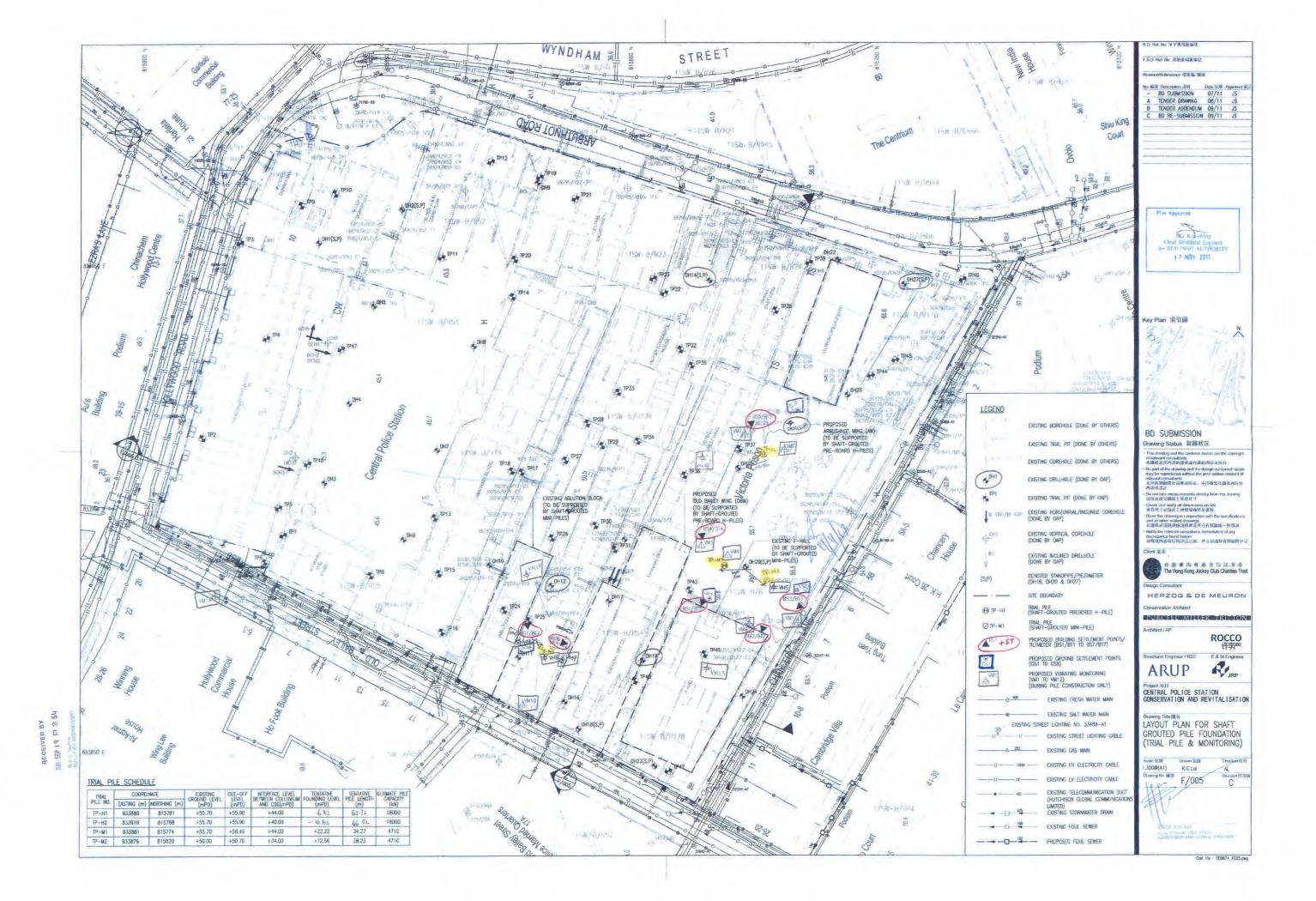
Project Title: Central Police Station Conservation & Revitalization Project No: WP201 Date: 2012-5-6 To 2012-5-19

| POIN | T | VM1 | VM2 | VM3 | VM4 | VM5 | VM6 | VM7 | VM8 | VM9 | VM10 | VM11 | VM12 | VM13 | VM14 | VM15 |
|-------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| DATE | PD/(m) | mm/s |
| 2/4/2012(Initial) | | 0.58 | 0.18 | 0.18 | 0.66 | 1.4 | 0.25 | 1.14 | 0.65 | 0.28 | 0.22 | 0.18 | 0.22 | 0.18 | 0.22 | 0.22 |
| 6-May-2012 | | | | | | | | | | | | | | 0.10 | 0120 | 0.22 |
| 7-May-2012 | | 0.22 | 0.13 | 0.61 | 0.13 | 0.17 | 0.21 | 0.22 | 0.63 | 0.13 | 0.92 | 0.13 | 0.22 | 0.27 | 0.19 | 0.40 |
| 8-May-2012 | | 0.13 | 0.27 | 0.55 | 0.19 | 0.27 | 0.61 | 0.27 | 0.63 | 0.23 | 0.81 | 0.27 | 0.62 | 0.19 | 0.22 | 0.22 |
| 9-May-2012 | | 0.23 | 0.61 | 0.37 | 0.27 | 0.31 | 0.13 | 0.13 | 0.19 | 0.61 | 0.51 | 0.51 | 0.41 | 0.27 | 0.27 | 0.13 |
| 0-May-2012 | | 0.13 | 0.24 | 0.26 | 0.91 | 0.11 | 0.13 | 0.27 | 0.13 | 0.60 | 0.27 | 0.19 | 0.50 | 0.27 | 0.19 | 0.13 |
| 1-May-2012 | | 0.27 | 0.30 | 0.21 | 0.13 | 0.13 | 0.69 | 0.13 | 0.27 | 0.19 | 0.61 | 0.30 | 0.40 | 0.17 | 0.19 | 0.21 |
| 2-May-2012 | | 0.71 | 0.60 | 0.13 | 0.23 | 0.17 | 0.21 | 0.27 | 0.44 | 0.39 | 0.90 | 0.13 | 0.40 | 0.19 | 0.27 | 0.61 |
| 13-May-2012 | | 450 | | | | | | | | | | | | | | |
| 14-May-2012 | | 0.21 | 0.3 | 0.27 | 0.19 | 0.13 | 0.22 | 0.19 | 0.52 | 0.17 | 0.51 | 0.23 | 0,6 | 0.37 | 0.13 | 0.13 |
| 15-May-2012 | | 0.3 | 0.55 | 0.19 | 0.31 | 0.13 | 0.27 | 0.19 | 0.23 | 0.51 | 0.79 | 0.4 | 0.19 | 0.22 | 0.22 | 0.13 |
| 16-May-2012 | | 0.22 | 0.13 | 0.23 | 0.27 | 0.37 | 0.11 | 0.61 | 0.13 | 0.13 | 0.61 | 0.51 | 0.63 | 0.27 | 0.42 | 0.9 |
| 7-May-2012 | | 0.27 | 0.19 | 0.13 | 0.23 | 0.61 | 0.55 | 0.6 | 0.61 | 0.3 | 0.79 | 0.79 | 0.81 | 0.22 | 0.19 | 0.13 |
| 8-May-2012 | | 0.5 | 0.21 | 0.13 | 0.6 | 0.17 | 0.61 | 0.27 | 0.19 | 0.21 | 0.51 | 0.4 | 0.62 | 0.19 | 0.13 | 0.69 |
| 9-May-2012 | | 0.23 | 0.22 | 0.13 | 0.19 | 0.27 | 0.23 | 0.62 | 0.27 | 0.26 | 0.13 | 0.81 | 0.23 | 0.13 | 0.27 | 0.33 |

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| Monitoring Check Pts. | Trigger Levels | | | | | | | | | |
|-----------------------|----------------|-------------|--------------|--|--|--|--|--|--|--|
| Monitoring Check Fis. | Alert level | Alarm level | Action level | | | | | | | |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s | | | | | | | |

| Projec | ct Title: | Central 1 | Police St | ation Co | nservatio | n & Rev | italizatio | n P | roject N | o: WP20 | 01 Date: 20-5-2012 To 2-6-2012 | | | | | | | |
|-------------|-----------|-----------|-----------|----------|-----------|---------|------------|------|----------|---------|--------------------------------|------|------|---|------|------|--|--|
| POIN | Т | VM1 | VM2 | VM3 | VM4 | VM5 | VM6 | VM7 | VM8 | VM9 | VM10 | VM11 | VM12 | VM13 | VM14 | VM15 | | |
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | | |
| 2-Apr-2012 | (Initial) | 0.58 | 0.18 | 0.18 | 0.66 | 1.4 | 0.25 | 1.14 | 0.65 | 0.28 | 0.22 | 0.18 | 0.22 | 0.18 | 0.22 | 0.22 | | |
| 20-May-2012 | | | | | | | | | | | | | | | | | | |
| 21-May-2012 | | 0.24 | 0.26 | 0.31 | 0.13 | 0.23 | 0.31 | 0.69 | 0.62 | 0.90 | 0.79 | 0.27 | 0.27 | 0.13 | 0.13 | 0.19 | | |
| 22-May-2012 | | 0.61 | 0.13 | 0.27 | 0.69 | 0.51 | 0.22 | 0.40 | 0.30 | 0.71 | 0.27 | 0.13 | 0.37 | 0.19 | 0.60 | 0.30 | | |
| 23-May-2012 | | 0.13 | 0.27 | 0.19 | 0.21 | 0.31 | 0.69 | 0.30 | 0.23 | 0.60 | 0.51 | 0.27 | 0.41 | 0.16 | 0.44 | 0.31 | | |
| 24-May-2012 | | 0.26 | 0.22 | 0.27 | 0.31 | 0.21 | 0.27 | 0.27 | 0.30 | 0.33 | 0.51 | 0.19 | 0.81 | 1.01 | 0.69 | 1.27 | | |
| 25-May-2012 | | 0.13 | 0.27 | 0.19 | 0.22 | 0.63 | 0.81 | 0.61 | 0.27 | 0.31 | 0.98 | 1.01 | 0.13 | 1.21 | 0.62 | 0.19 | | |
| 26-May-2012 | | 0.30 | 0.21 | 0.71 | 0.61 | 0.13 | 0.69 | 0.31 | 0.27 | 0.71 | 0.13 | 0.19 | 1.13 | 0.22 | 0.26 | 0.22 | | |
| 27-May-2012 | | | | | | | | | | | | | | *************************************** | 2 | | | |
| 28-May-2012 | | 0.27 | 0.13 | 0.27 | 0.17 | 0.19 | 0.52 | 0.61 | 1.08 | 0.71 | 0.13 | 0.24 | 0.17 | 1.22 | 0.69 | 0.23 | | |
| 29-May-2012 | | 0.31 | 0.22 | 0.19 | 0.13 | 0.13 | 0.41 | 0.19 | 0.91 | 0.51 | 0.21 | 0.19 | 0.51 | 0.19 | 0.13 | 0.27 | | |
| 30-May-2012 | | 0.61 | 0.13 | 0.72 | 0.19 | 0.13 | 0.19 | 0.82 | 1.11 | 0.27 | 0.17 | 0.24 | 0.23 | 0.61 | 0.55 | 0.13 | | |
| 31-May-2012 | | 0.22 | 0.19 | 0.41 | 0.57 | 0.32 | 0.81 | 0.69 | 0.90 | 1.05 | 1.07 | 0.13 | 0.13 | 0.19 | 0.22 | 0.41 | | |
| 1-Jun-2012 | | 0.23 | 0.28 | 0.13 | 0.13 | 0.67 | 0.52 | 0.33 | 0.13 | 0.19 | 0.27 | 0.18 | 1.08 | 0.61 | 0.21 | 0.13 | | |
| 2-Jun-2012 | | 0.22 | 0.61 | 0.88 | 0.34 | 0.13 | 0.13 | 0.13 | 0.19 | 0.27 | 0.22 | 0.18 | 0.90 | 1.02 | 0.73 | 0.90 | | |



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Win Win Way Construction Company Ltd.

| Monitoring Check Pts. | Trigger Levels | | | | | | | | | | |
|-----------------------|----------------|-------------|--------------|--|--|--|--|--|--|--|--|
| Wolltoning Check Pts. | Alert level | Alarm level | Action level | | | | | | | | |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s | | | | | | | | |

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 Date: 3-6-2012 To 16-6-2012

| POINT | , | VM1 | VM2 | VM3 | VM4 | VM5 | VM6 | VM7 | VM8 | VM9 | VM10 | VM11 | VM12 | VM13 | VM14 | VM15 |
|--------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| DATE | PD/(m) | mm/s |
| 2-Apr-2012 (| Initial) | 0.58 | 0.18 | 0.18 | 0.66 | 1.4 | 0.25 | 1.14 | 0.65 | 0.28 | 0.22 | 0.18 | 0.22 | 0.18 | 0.22 | 0.22 |
| 3-Jun-2012 | | | | | | | | | | | | | | | | |
| 4-Jun-2012 | | 0.13 | 0.29 | 0.13 | 0.19 | 0.13 | 0.61 | 0.22 | 0.27 | 0.30 | 0.38 | 0.27 | 0.38 | 0.61 | 0.13 | 0.17 |
| 5-Jun-2012 | | 0.21 | 0.13 | 0.69 | 0.71 | 0.33 | 0.16 | 0.23 | 0.79 | 0.32 | 0.22 | 0.13 | 0.23 | 0.63 | 0.14 | 0.19 |
| 6-Jun-2012 | | 0.31 | 0.33 | 0.22 | 0.27 | 0.13 | 0.61 | 0.51 | 0.13 | 0.21 | 1.01 | 0.21 | 0.34 | 0.27 | 0.38 | 0.61 |
| 7-Jun-2012 | | 0.29 | 0.13 | 0.18 | 0.17 | 0.13 | 0.19 | 0.29 | 0.28 | 0.30 | 0.61 | 0.33 | 0.22 | 0.81 | 0.31 | 0.13 |
| 8-Jun-2012 | | 0.13 | 0.21 | 0.29 | 0.81 | 0.21 | 0.23 | 0.33 | 0.60 | 0.18 | 0.55 | 0.23 | 0.31 | 0.79 | 0.13 | 0.16 |
| 9-Jun-2012 | | 0.61 | 0.13 | 0.31 | 0.29 | 0.21 | 0.34 | 0.61 | 0.19 | 0.22 | 0.21 | 0.23 | 0.19 | 0.70 | 1.05 | 0.69 |
| 10-Jun-2012 | | | | | | | | | | | | | | | | |
| 11-Jun-2012 | | 0.27 | 0.13 | 0.60 | 0.71 | 0.33 | 0.16 | 0.29 | 0.66 | 0.32 | 0.22 | 0.19 | 0.23 | 0.61 | 0.19 | 0.26 |
| 12-Jun-2012 | | 0.33 | 0.21 | 0.46 | 0.32 | 0.13 | 0.23 | 1.12 | 0.56 | 0.21 | 0.34 | 0.69 | 0.32 | 0.55 | 0.39 | 0.25 |
| 13-Jun-2012 | | 0.66 | 0.19 | 0.16 | 0.23 | 0.79 | 0.32 | 0.22 | 0.13 | 0.23 | 0.71 | 0.13 | 0.19 | 0.29 | 0.28 | 0.30 |
| 14-Jun-2012 | | 0.61 | 0.79 | 0.32 | 0.22 | 0.13 | 0.23 | 0.63 | 0.14 | 0.13 | 0.21 | 0.16 | 0.29 | 0.66 | 0.32 | 0.22 |
| 15-Jun-2012 | | 0.22 | 0.27 | 0.30 | 0.38 | 0.27 | 0.28 | 0.71 | 0.33 | 0.13 | 0.61 | 0.51 | 0.13 | 0.21 | 1.01 | 0.21 |
| 16-Jun-2012 | | 0.33 | 0.16 | 0.23 | 0.79 | 0.32 | 0.22 | 0.63 | 0.56 | 0.34 | 0.27 | 0.21 | 0.29 | 0.81 | 0.21 | 0.23 |

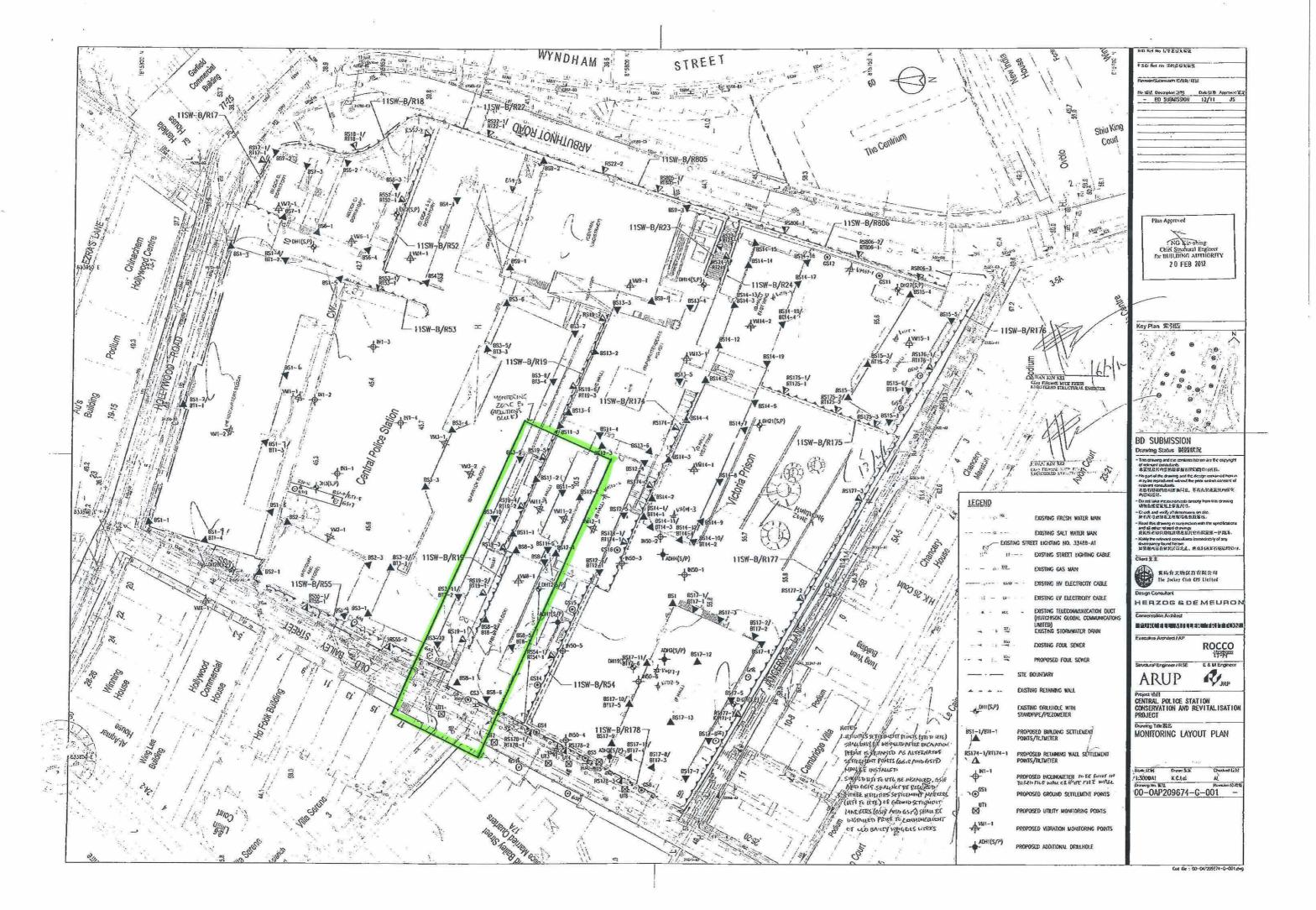
WW 恆誠建築工程有限公司 Win Win Way Construction Company Ltd.

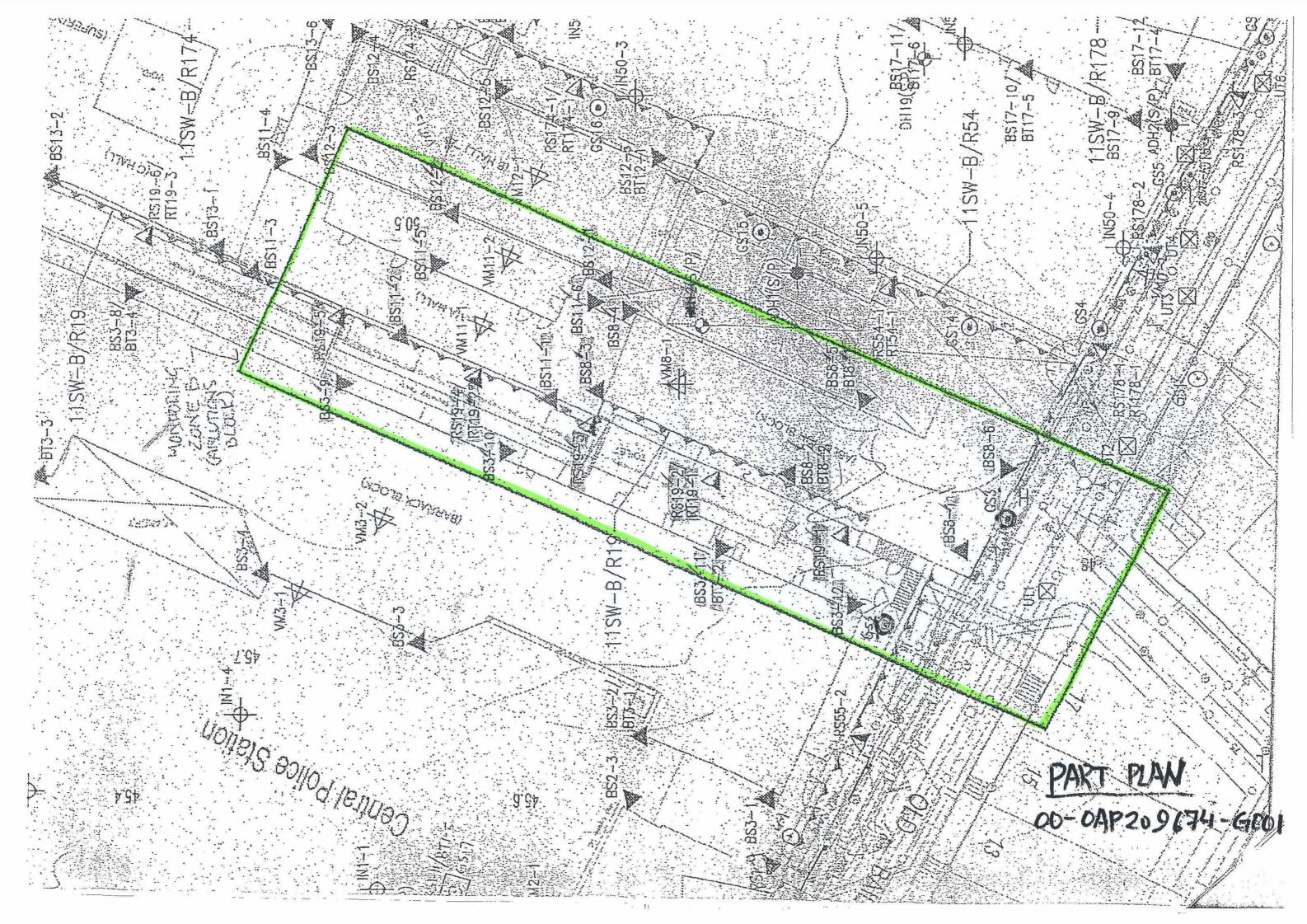
| Monitoring Check Pts. | Trigger Levels | | | | | | | | | |
|-----------------------|----------------|-------------|--------------|--|--|--|--|--|--|--|
| Wolldoning Check Fts. | Alert level | Alarm level | Action level | | | | | | | |
| Vibrating Monitoring | 5mm/s | 6mm/s | 7.5mm/s | | | | | | | |

| Project T | itle: Cer | ntral Poli | ice Statio | n Conse | rvation & | k Revital | ization | Proje | ect No: V | VP201 | | | D | ate: 17-6-2 | 2012 To 3 | 0-6-2012 |
|-------------|-----------|------------|------------|---------|-----------|-----------|---------|-------|-----------|---------|------|------|-----------------|-------------|-----------|----------|
| POIN | Т | VM1 | VM2 | VM3 | VM4 | VM5 | VM6 | VM7 | VM8 | VM9 | VM10 | VM11 | VM12 | VM13 | VM14 | VM15 |
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 2-Apr-2012 | (Initial) | 0.58 | 0.18 | 0.18 | 0.66 | 1.4 | 0.25 | 1.14 | 0.65 | 0.28 | 0.22 | 0.18 | 0.22 | 0.18 | 0.22 | 0.22 |
| 17-Jun-2012 | | | | | | | | | | | | | | | | |
| 18-Jun-2012 | | 0.32 | 0.22 | 0.13 | 0.23 | 0.71 | 0.13 | 0.19 | 0.14 | 0.81 | 0.21 | 0.23 | 0.33 | 0.22 | 0.13 | 0.22 |
| 19-Jun-2012 | | 0.66 | 0.29 | 0.28 | 0.30 | 0.61 | 0.13 | 0.69 | 0.71 | 0.33 | 0.16 | 0.23 | 0.32 | 0.13 | 0.23 | 1.12 |
| 20-Jun-2012 | | 0.22 | 0.13 | 0.23 | 0.63 | 0.14 | 0.13 | 0.21 | 0.16 | 0.23 | 0.79 | 0.32 | 0.22 | 0.19 | 0.70 | 1.05 |
| 21-Jun-2012 | | 0.29 | 0.21 | 0.34 | 0.61 | 0.21 | 0.34 | 0.69 | 0.32 | 0.55 | 0.63 | 0.14 | 0.13 | 0.21 | 0.16 | 0.16 |
| 22-Jun-2012 | | 0.22 | 0.19 | 0.23 | 0.61 | 0.32 | 0.13 | 0.23 | 1.12 | 0.56 | 0.23 | 0.71 | 0.13 | 0.19 | 0.14 | 0.81 |
| 23-Jun-2012 | | | | | | | | | Public | Holiday | | | | | | |
| 24-Jun-2012 | | | | | | | | | | | | | | | | |
| 25-Jun-2012 | | 0.13 | 0.61 | 0.51 | 0.13 | 0.21 | 1.01 | 0.21 | 0.34 | 0.27 | 0.56 | 0.34 | 0.27 | 0.21 | 0.29 | 0.81 |
| 26-Jun-2012 | | | | | | | | | | | | | | | | |
| 27-Jun-2012 | | | | | | | | | | | | | | | | |
| 28-Jun-2012 | | | | | | | | | | | | | we compensation | | | |
| 29-Jun-2012 | | | | | | | | | | | | | | | | |
| 30-Jun-2012 | | | | | | | | | | | | | | | | |

Annex N

Records of Vibration Monitoring for Other Construction Works





| Monitoring Check Pts. | 3 | Trigger Levels | | | | | | | | | |
|-----------------------|-------------|----------------|--------------|--|--|--|--|--|--|--|--|
| Wonttoning Check Pts. | Alert level | Alarm level | Action level | | | | | | | | |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s | | | | | | | | |

| Projec | t Title: | Central | Police St | ation Cons | ervation & R | evitalization | n Proj | ect No: W | P203 | Date | Pate: 24-4-2012 To 5-5-2012 | | | | |
|-------------|----------|---------|-----------|------------|--------------|---------------|--------|---------------------------------------|-------|------|-----------------------------|--|--|--|--|
| POIN | Т | VM8-1 | VM11-1 | VM11-2 | | | | | | | | | | | |
| DATE | PD/(m) | mm/s | mm/s | mm/s | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| 23/4/2012 (| Initial) | 0.212 | 0.087 | 0.116 | | | | | | | | | | | |
| 24-Apr-2012 | | 0.154 | 0.054 | 0.124 | | | | | | - | | | | | |
| 25-Apr-2012 | | 0.142 | 0.042 | 0.130 | | | | | | | | | | | |
| 26-Apr-2012 | | 0.124 | 0.042 | 0.021 | | | | | | | | | | | |
| 27-Apr-2012 | | 0.142 | 0.057 | 0.046 | | | | | | | | | | | |
| 28-Apr-2012 | | | | | | | | | | | | | | | |
| 29-Apr-2012 | | | | | | | | | | | | | | | |
| 30-Apr-2012 | | 0.142 | 0.027 | 0.146 | | | | | | | | | | | |
| 1-May-2012 | | | | | | | | | | | | | | | |
| 2-May-2012 | | 0.112 | 0.187 | 0.116 | | | | | | | | | | | |
| 3-May-2012 | | 0.130 | 0.047 | 0.046 | | | | | 2.025 | | | | | | |
| 4-May-2012 | | 0.182 | 0.195 | 0.156 | | | | | | | | | | | |
| 5-May-2012 | | 0.178 | 0.165 | 0.126 | | | | | | | | | | | |



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| Monitoring Check Pts. | | S | |
|-----------------------|-------------|-------------|-------------|
| Monitoring Check Fis. | Alert level | Alarm level | Action leve |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s |

| | rioject riu | T Central | Police Stati | 1011 | rioject | No: WP2 | 203 I | | | Date: 6-5-2 | 012 10 1 | 9-3-2012 | | | | |
|-------------|-------------|-----------|--------------|--------|---------|----------|----------|----------|---------|-------------|----------|------------|------|------|----------------|------|
| POIN | IT | VM8-1 | VM11-1 | VM11-2 | | | | | | | | | | | | |
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 23-Apr-2012 | 2 (Initial) | 0.212 | 0.087 | 0.116 | | | | | | | | | | | AKUI — TOTALIS | |
| 6-May-2012 | | | | | | | | | | | | | | | | |
| 7-May-2012 | | 0.153 | 0.087 | 0.116 | | | | | | | | | | | | |
| 8-May-2012 | | 0.142 | 0.068 | 0.132 | | | | | | A.V. | | | | | | |
| 9-May-2012 | | 0.142 | 0.042 | 0.130 | | 7 3 | | 2. 1 | | | | | | | | |
| 10-May-2012 | | 0.124 | 0.042 | 0.021 | 7 | - 20 | | 15 | | | | | | | | |
| 11-May-2012 | | 0.142 | 0.057 | 0.046 | A 3 | - BV - B | | | 1 1 1 | | | | | | | |
| 12-May-2012 | | 0.087 | 0.116 | 0.126 | | E1 0 40 | | | in in i | | | | | | | |
| 13-May-2012 | | | | | | | 11-12-3 | | | | | | | | | |
| 14-May-2012 | | 0.178 | 0.165 | 0.126 | | | | C ARRIVE | | | | | | | | |
| 15-May-2012 | | 0.153 | 0.087 | 0.116 | | | | | | | | 7.11 | | | | |
| 16-May-2012 | | 0.142 | 0.068 | 0.132 | 130 | "11" | 8/0 / | | | | -6-216 | STEELINGS. | | 4-7 | | |
| 17-May-2012 | | 0.142 | 0.042 | 0.130 | | | | | | | | | | | | |
| 18-May-2012 | | 0.124 | 0.042 | 0.021 | | | | 0001000 | 07075 | | | | | | | |
| 19-May-2012 | | 0.142 | 0.057 | 0.046 | | | | | | | | | | | | |



仁利建築有限公司 Yan Lee Construction Co., Ltd.

| Monitoring Check Pts. | Trigger Levels | | | | | | | | | | |
|-----------------------|----------------|-------------|-------------|--|--|--|--|--|--|--|--|
| Monitoring Check Fis. | Alert level | Alarm level | Action leve | | | | | | | | |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s | | | | | | | | |

| POIN | T | VM8-1 | VM11-1 | VM11-2 | | _ | | | | | | | | | | |
|-------------|-----------|-------|--------|--------|------------|---------|-----------|-------------|------|------|--------|--------------|-------------|-------------------------|--------|------|
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 23-Apr-2012 | (Initial) | 0.212 | 0.087 | 0.116 | | | | | | | | | | | | |
| 20-May-2012 | | | | | | | | | | | | | | | | |
| 21-May-2012 | | 0.210 | 0.085 | 0.120 | | | | | | | | | | | | |
| 22-May-2012 | | 0.053 | 0.124 | 0.142 | 10 加 | | | | | | | | | | | |
| 23-May-2012 | | 0.121 | 0.186 | 0.132 | | | | | | | | | | | | |
| 24-May-2012 | | 0.098 | 0.068 | 0.128 | | | | | | | | -10-50 | | | | |
| 25-May-2012 | | 0.046 | 0.118 | 0.132 | | | | All Control | | | | | | | 40.000 | |
| 26-May-2012 | | 0.052 | 0.097 | 0.107 | | | | | | | | | | | | |
| 27-May-2012 | | | | | | | | | | | | | | 0. 52 - 230 III - Garde | | |
| 28-May-2012 | | 0.142 | 0.107 | 0.125 | PITME. | Tringal | FT - 7.44 | | | | 12/ 18 | R. Lurkeon | en en mes d | | | |
| 29-May-2012 | | 0.179 | 0.102 | 0.110 | N 7111 (m) | | | | | | | Same Colores | | | | |
| 30-May-2012 | | 0.098 | 0.102 | 0.111 | | | T 155 | | | | | | | | | |
| 31-May-2012 | | 0.121 | 0.112 | 0.118 | | | | | | | | | | | | |
| 1-Jun-2012 | | 0.124 | 0.072 | 0.122 | | | | | | | | | | | | |
| 2-Jun-2012 | | 0.097 | 0.063 | 0.082 | | | | | | | | | | | | |



| Monitoring Check Pts. | | Trigger Level | S |
|------------------------|-------------|---------------|-------------|
| wichitoring Check Pis. | Alcrt level | Alarm level | Action leve |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s |

|] | Project Title | e: Central | Police Static | on Conservati | on & Re | vitalizatio | on 1 | Project N | io: WP20 |)3 | | Da | te: 3-6-20 | 12 To 16- | 6-2012 | |
|-------------|---------------|------------|---------------|---------------|---------|-------------|------|-----------|----------|------|--------|---|------------|-----------|--------------|-------|
| POIN | T | VM8-1 | VM11-1 | VM11-2 | | | | | | | | | | | | |
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 23-Apr-12 | (Initial) | 0.212 | 0.087 | 0.116 | | | | | | | | | | | | - |
| 3-Jun-2012 | | | | | | | | | | | | | | | | |
| 4-Jun-2012 | | 0.121 | 0.102 | 0.113 | | | | | | | | | | | | |
| 5-Jun-2012 | | 0.118 | 0.087 | 0.098 | | * | | | | | | | | - | | |
| 6-Jun-2012 | | 0.132 | 0.110 | 0.121 | | | | | | | | | | W | | |
| 7-Jun-2012 | | 0.148 | 0.093 | 0.102 | | | | | | | | | | | | - |
| 8-Jun-2012 | | 0.102 | 0.086 | 0.093 | | | | | | | | | | | | |
| 9-Jun-2012 | | 0.108 | 0.090 | 0.097 | | | | | | | | *************************************** | | | | |
| 0-Jun-2012 | | | | | | | | | | | | | | | | |
| 1-Jun-2012 | | 0.113 | 0.104 | 0.117 | | | | | | | | 100-00-00 | | | | - |
| 12-Jun-2012 | | 0,101 | 0.092 | 0.098 | | | | | | | | | | | | į. |
| 13-Jun-2012 | | 0.126 | 0.113 | 0.121 | | | | | | | | | | | | |
| 4-Jun-2012 | | 0.116 | 0.083 | 0.094 | | | | | | | | | | | | |
| 5-Jun-2012 | | 0.118 | 0.092 | 0.105 | | | | | | 18 | 72 | | 0.5240 | | | |
| 16-Jun-2012 | 1 1/2/0 1/2 | 0.103 | 0.088 | 0.096 | | | | | | | 24,032 | | | | E (6/20) 200 | 15015 |



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| Monitoring Check Pts. | | Trigger Level | S |
|-----------------------|-------------|---------------|--------------|
| Womtoring Check Fts. | Alert level | Alarm level | Action level |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s |

| Project Title: Central Police Station Conservation & Revitalization Project No: WP203 Date: 7-6-2012 To 30 -6-2012 | | | | | | | | | 6-2012 | | | | | | | |
|--|-----------|-------|--------|--------|------|------|------|------|--------|------|------|------|------|------|------|------|
| POIN | T | VM8-1 | VM11-1 | VM11-2 | | | | | | | | | | | | |
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 23-Apr-12 | (Initial) | 0.212 | 0.087 | 0.116 | | | | | | | | | | | | |
| 17-Jun-2012 | | | | | | | | | | | | | | | | |
| 18-Jun-2012 | | 0.128 | 0.093 | 0.114 | | | | | | | | | | | | |
| 19-Jun-2012 | | 0.136 | 0.112 | 0.123 | | | | | | | - | | | | | |
| 20-Jun-2012 | | 0.116 | 0.083 | 0.095 | | | | | | | | | | | | |
| 21-Jun-2012 | | 0.126 | 0.097 | 0.113 | | | | | | | | | | | | |
| 22-Jun-2012 | | 0.103 | 0.108 | 0.121 | | | | | | | | | | | | |
| 23-Jun-2012 | | | | | | | | | | | | | | | | |
| 24-Jun-2012 | | | | | | | | | | | | | | | | |
| 25-Jun-2012 | | 0.132 | 0.110 | 0.118 | | | | | | | | | | | | |
| 26-Jun-2012 | | 0.127 | 0.098 | 0.105 | | | | | | | | | | | | |
| 27-Jun-2012 | | 0.118 | 0.086 | 0.093 | 80 | | | | | | | | | | | |
| 28-Jun-2012 | | 0.142 | 0.103 | 0.115 | | | | | | | | | | | | |
| 29-Jun-2012 | | 0.122 | 0.096 | 0.103 | | | | | | | | | | | | |
| 30-Jun-2012 | | 0.106 | 0.082 | 0.094 | | | | | | | | - | | | | |



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| Monitoring Check Pts. | // | Trigger Level | S |
|------------------------|-------------|---------------|--------------|
| Wichmoring Check 1 is. | Alert level | Alarm level | Action level |
| Vibrating Monitoring | 2mm/s | 2,5mm/s | 3min/s |

| POIN | T | VM8-1 | VM11-1 | VM11-2 | | | | | | | | | | | | |
|------------|-----------|-------|--------|-------------------------|---|------|---------------|---------------------|---|------------------|-------|-------------------|--------------------|------|------|-------------|
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 23-Apr-12 | (Initial) | 0.212 | 0.087 | 0.116 | | | | | | | | | H- BANKANIA SCHOOL | | | |
| 1-Jul-2012 | | | | III some Wale in a fill | | | | | | | | ILIEO LIVILIONINI | | | | 20:011112-1 |
| 2-Jul-2012 | | | | | | | | | | | | | | | | |
| 3-Jul-2012 | | 0.126 | 0.094 | 0.103 | | | | | | | | | | | | |
| 4-Jul-2012 | | 0.114 | 0.087 | 0.098 | property and the | | | -2 | | | 7.340 | | | | | |
| 5-Jul-2012 | | 0.112 | 0.093 | 0.110 | | | | | | | | | | | | |
| 6-Jul-2012 | | 0.121 | 0.086 | 0.094 | | | | | | | | 987 IIII III | | | | |
| 7-Jul-2012 | | 0.108 | 0.098 | 0.112 | | | | | | | | | | | | |
| 8-Jul-2012 | | | | | | | | | | | | 300-200 | | | | |
| 9-Jul-2012 | | 0.134 | 0.116 | 0.122 | 100000000000000000000000000000000000000 | | | | *************************************** | | | | | | | |
| 0-Jul-2012 | | 0.117 | 0.083 | 0.095 | | | | | | | | | | | | |
| 1-Jul-2012 | | 0.148 | 0.102 | 0.116 | 1000 | | | | | | | | CHILLETOWN QUANT | | | |
| 2-Jul-2012 | | 0.142 | 0.097 | 0.118 | | | | | | OH POLICE CONTRA | | | | | | |
| 3-Jul-2012 | | 0.146 | 0.104 | 0.112 | | | | | | | | | AURU | | | |
| 4-Jul-2012 | | 0.138 | 0.094 | 0.106 | | | 0.0 480 (UU.) | HAVAUS ONE SCANOLIS | 1525 | | | | | | | |



仁 釗 建 築 有 限 公 司 Yan Lee Construction Co., Ltd.

| Monitoring Check Pts. | | Trigger Level | S |
|------------------------|-------------|---------------|--------------|
| widinioring Check ris. | Alert level | Alarm level | Action level |
| Vibrating Monitoring | 2mm/s | 2.5mm/s | 3mm/s |

| Project Title: Central Police Station Conservation & Revitalization Project No: WP203 Date: 15-7-2012 To 28-7-2012 | | | | | | | | -7-2012 | | | | | | | | |
|--|----------|-------|--------|--------|------|------|------|---------|------|------|------|------|------|------|------|------|
| POIN | Т | VM8-1 | VM11-1 | VM11-2 | | | | | | | | | | | | |
| DATE | PD/(m) | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s | mm/s |
| 23-Apr-12 (| Initial) | 0.212 | 0.087 | 0.116 | | | 19 | | | | | | | | | |
| 15-Jul-2012 | | | | | | - 1 | | | | | | | | | | |
| 16-Jul-2012 | | 0.126 | 0.085 | 0.102 | | | | | | | | | | | | |
| 17-Jul-2012 | | 0.133 | 0.097 | 0.109 | | | | | | | | | | | | |
| 18-Jul-2012 | | 0.122 | 0.102 | 0.115 | | | | | | | | | | | | |
| 19-Jul-2012 | | 0.118 | 0.094 | 0.106 | | | | | | | | | | | | |
| 20-Jul-2012 | | 0.128 | 0.097 | 0.110 | | | | | | | | | | | | |
| 21-Jul-2012 | | 0.116 | 0.088 | 0.104 | | | | | | | | | | | | |
| 22-Jul-2012 | | | | | | | | | | | | | | | | |
| 23-Jul-2012 | | 0.124 | 0.092 | 0.113 | | | 77 | | -0, | | | | | | | |
| 24-Jul-2012 | | 0.119 | 0.086 | 0.099 | | | | | | | | | | | ¥8 | |
| 25-Jul-2012 | | 0.121 | 0.094 | 0.102 | | | | | | | | | | | A | |
| 26-Jul-2012 | | 0.127 | 0.085 | 0.098 | - | | | | | | | | | | | |
| 27-Jul-2012 | | 0.134 | 0.092 | 0.107 | | | | | | | | | | | | |
| 28-Jul-2012 | | 0.117 | 0.084 | 0.092 | | | | | | | | | | | | |

Annex O

A Summary of Current Condition of Character Defining Elements

Schedule of Character Defining Elements

Central Police Station

CENTRAL POLICE STATION. HONG KONG

SCHEDULE OF CHARACTER DEFINING ELEMENTS

This Schedule of Character Defining Elements has been prepared at the request of the Antiquities and Monuments Office (AMO) to support applications for S.6 approval under the Antiquities and Monuments Ordinance and the Environmental Impact assessment Ordinance. The levels of significance and their meanings are derived from the work of James Semple Kerr. Should new CDEs be discovered during the construction period, this Schedule will be updated.

For each element, the level of significance is stated. The levels of significance and definitions as defined by Kerr are stated below. The criteria used to assess the significance of each element are, as directed by AMO: (i) the association with the operation of the Central Police Station Compound; and (ii) its architectural quality. Where these criteria conflict, the resultant assessment score is aggregated.

Each entry in the schedule is accompanied by a photograph of a sample of the item described. The location of each photograph is noted on the floor plans attached in the appendix to the schedule. Similar examples of each item can be seen by observation.

| | Level of | Meaning |
|----------|--------------|--|
| | significance | |
| | Exceptional | Where an individual space or element is assessed as displaying a strong contribution to the overall significance of the place. Spaces, elements or fabric exhibit a high degree of intactness and quality, though minor alterations or degradation may be evident. |
| | High | Where an individual space or element is assessed as making a substantial contribution to the overall significance of the place. Spaces, elements or fabric originally of substantial quality, yet may have undergone considerable alteration or adaption resulting in presentation which is either incomplete or ambiguous. The category also includes spaces, elements or fabric of average quality in terms of design and materials, but which exhibit a high degree of intactness. |
| Positive | Moderate | Where an individual space or element is assessed as making a moderate contribution to the overall significance of the place. Spaces, elements or fabric originally of some intrinsic quality, and may have undergone alteration or degradation. In addition, elements of relatively new construction, where the assessment of significance is difficult, may be included. This category also includes original spaces, elements or fabric of any quality which have undergone extensive alteration or adaption. |
| | Low | Where an individual space or element is assessed as making a minor contribution to the overall significance of the place, especially when compared to other features. Spaces, elements or fabric originally of little intrinsic quality, any may have undergone alteration or degradation. This category also includes original spaces, elements or fabric of any quality which have undergone extensive alteration or adaption to the extent that only isolated remnants survive (resulting in a low degree of intactness and quality of presentation). |
| | Neutral | Where an individual space or element is assessed as having an unimportant relationship with the overall significance of the place. Spaces, elements or fabric are assessed as having little or no significance. |
| | Adverse | Where an individual space or element detracts from the appreciation of cultural significance, by adversely affecting or obscuring other significant areas, elements or items. |

01 Police Headquarters

| Element no. | Description | Photo ref | Significance |
|-------------|--|-----------|--------------|
| 01.001 | Flat plywood ceiling lining with plain rectangular cover battens | | Adverse |
| 01.002 | Plaster coving at abutments of walls and ceilings | | Low |
| 01.003 | Lay-in grid suspended ceiling | | Adverse |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref | Significance |
|-------------|---|-----------|--------------|
| 01.004 | Timber thresholds at external doors and internal doors between main corridor and individual rooms | | Low |
| 01.005 | Plaster box cornice | | Moderate |
| 01.006 | Panelled doors | | Moderate |

| Element no. | Description | Photo ref | Significance |
|-------------|--------------------------------|-----------|--------------|
| 01.007 | External shutters | | High |
| 01.008 | External terraces at 1/F | | High |
| 01.009 | Plaster ceilings on GF and LG1 | | Moderate |

| Element no. | Description | Photo ref | Significance |
|-------------|------------------------------------|-----------|--------------|
| 01.010 | Timber door frames and architraves | | Moderate |
| 01.011 | Concrete floor | | Low |
| 01.012 | Rainwater goods | | Adverse |

| Element no. | Description | Photo ref | Significance |
|-------------|------------------------|-----------|--------------|
| 01.013 | Exterior decorations | | Adverse |
| 01.014 | Existing door openings | | Moderate |
| 01.015 | Existing walls | | Moderate |

| Element no. | Description | Photo ref | Significance |
|-------------|---|-----------|--------------|
| 01.016 | Altered doors and windows | | Adverse |
| 01.017 | Mezzanine floor in room 01/LG1/13 | | Adverse |
| 01.018 | Cast iron grilles above Service Corridor 01/LG1/35 | | High |

| Element no. | Description | Photo ref | Significance |
|-------------|--|-----------|--------------|
| 01.019 | Perforated concrete deck above lightwell | | Adverse |
| 01.020 | External airconditioning units and other external services | | Adverse |
| 01.021 | Stair balustrades | | High |

| Element no. | Description | Photo ref | Significance |
|-------------|----------------|--|--------------|
| 01.022 | Main corridors | | High |
| 01.023 | Painted signs | I COKLETT | High |
| 01.024 | Fixed signs | OCT STATE OF THE PROPERTY OF T | Low-High |

| Element no. | Description | Photo ref | Significance |
|-------------|--|-----------|--------------|
| 01.025 | Pitched roofs | | High |
| | | | |
| 01.026 | Enclosure at First Floor landing of main stair | | Adverse |

| Element no. | Description | Photo ref | Significance |
|-------------|--|-----------|--------------|
| 01.027 | Steel railing enclosure at FF level | | Low |
| 01.028 | Tongued and grooved timber boarded ceilings in East and West wings | | Moderate |
| 01.029 | Modern partitions | | Adverse |

| Element no. | Description | Photo ref | Significance |
|-------------|---|-----------|--------------|
| 01.030 | Tiled dado | | High |
| 01.031 | Reinforced concrete canopy and sash windows | | Moderate |

02 Armoury

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------------|------------|--------------|
| 02.001 | Lay-in grid suspended ceiling | | Adverse |
| 02.002 | Modern internal doors | | Adverse |
| 02.003 | Modern partitions | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 02.004 | External airconditioning units and other external services | | Adverse |
| 02.005 | Brickwork walls enclosing rooms at GF and FF East side | | Low |
| 02.006 | Concrete floors | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|---------------------------|------------|--------------|
| 02.007 | Rainwater goods | | Adverse |
| 02.008 | Altered doors and windows | | Adverse |
| 02.009 | Concrete stairs | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|---------------------------------|------------|--------------|
| 02.010 | Pitched roofs | | High |
| 02.011 | Roof structure and tiled soffit | | High |

Schedule of Character Defining Elements

Central Police Station

03 Barracks Block

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------------|------------|--------------|
| 03.001 | Lay-in grid suspended ceiling | | Adverse |
| 3.002 | Panelled doors | | Moderate |
| 03.003 | External shutters | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 03.004 | Timber thresholds at external doors and internal doors between main corridor and individual rooms | | Low |
| 03.005 | Timber spandrel panels below windows | | Low |
| 03.006 | Timber floors | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------------|------------|--------------|
| 03.007 | Rainwater goods | | Adverse |
| 03.008 | Exterior decorations | | Adverse |
| 03.009 | Block existing door openings | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 03.010 | Form new door openings | | Low |
| 03.011 | Altered doors and windows | | Adverse |
| 03.012 | External airconditioning units and other external services | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------|--|--------------|
| 03.013 | Stair balustrades | | High |
| 03.014 | Painted signs | NO VISITOR WILL BE ADMITTED WITHOUT THE PERMISSION OF THE D. O. OR FORMATION COMMANDER 或官管主得未如者转探 進續得不可許官警值當 | High |
| 03.015 | Fixed signs | NO. 3 PLATOON R. & F CHANGING ROOM 第三隊更衣室 | Low-High |
| 03.016 | Pitched roofs | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 03.017 | Lean-to structure adjacent North wall | | Moderate |
| 03.018 | Metal-frames windows at GF North elevation | | Adverse |
| 03.019 | Internal walls at Ground Floor level | | Moderate |
| 03.020 | Assembly rooms at centre of building (all floors) | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 03.021 | Exposed soffits of timber floors | | Moderate |
| 03.022 | Existing window frames/openings | | High |
| 03.023 | Single storey outbuildings on south side | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 03.024 | Bridge at east end | | Moderate |
| 03.025 | Chimneypiece on Ground Floor | | Low |
| 03.026 | Window in south wall; original dormitory space | | Moderate |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 03.027 | Clay-tiled floor in store room adjacent stairs | | Low |

04 Dormitory Block A & B

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 04.001 | Lay-in grid suspended ceiling | | Adverse |
| 04.002 | Timber thresholds at external doors and internal doors between main corridor and individual rooms | | Low |
| 04.003 | Plaster box cornice | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------------|------------|--------------|
| 04.004 | Rainwater goods | | Adverse |
| 04.005 | Exterior decorations | | Adverse |
| 04.006 | Block existing door openings | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 04.007 | Form new door openings | | Moderate |
| 04.008 | Altered doors and windows | BLOCK B | Adverse |
| 04.009 | Window frames in arcades of North and East elevations | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 04.010 | External airconditioning units and other external services | | Adverse |
| 04.011 | Stair balustrades | | High |
| 04.012 | Stair from First to Second Floor | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|--------------------|--|--------------|
| 04.013 | External verandahs | The state of the s | High |
| 04.014 | Painted signs | BLOCK A | High |
| 04.015 | Fixed signs | | Low-High |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------------|------------|--------------|
| 04.016 | Pitched roofs | | High |
| 04.017 | Toilets at ends of verandahs | | Adverse |
| 04.018 | Partitions at GF Dormitory A | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 04.019 | Switchgear in old porch 04/G/13 | | Adverse |
| 04.020 | Flat plywood ceiling lining with plain rectangular cover battens | | Adverse |
| 04.021 | Steps up to doorway on FF verandah | EXITED | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 04.022 | Timber boarded floors with moulded skirtings | | High |
| 04.023 | Cantilever balconies | | High |
| 04.024 | Clay tile floor | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 04.025 | Matched-boarded ceiling with perforated border | | Moderate |
| 04.026 | Ceiling rose | | Low |

06 Dormitory C

| Element no. | Description | Photo ref. | Significance |
|-------------|--------------------------------------|------------|--------------|
| 06.001 | Granite thresholds at external doors | | Low |
| 06.002 | Pitched roof | | High |
| 06.003 | Rainwater goods | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 06.004 | Exterior decorations | | Adverse |
| 06.005 | Altered doors and windows | | Adverse |
| 06.006 | External airconditioning units and other external services | | Adverse |
| 06.007 | Painted signs | CECEC | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|---|--------------|
| 06.008 | Fixed signs | 简生署 DEPARTMENT OF HEALTH 中央警署診療所 POLICE MEDICAL POST CENTRAL POLICE STATION | Low-High |
| 06.009 | Cantilever balconies | | High |
| 06.010 | Iron balustrades | | High |
| 06.011 | Perforated margin at perimeter of ceiling | SILED | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------------|------------|--------------|
| 06.012 | Block existing door openings | EXIT # D | Moderate |
| 06.013 | Form new door openings | | Moderate |
| 06.014 | Stair balustrades | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|---------------------------------|------------|--------------|
| 06.015 | Timber floors | | High |
| 06.016 | Vinyl tile floor | | Adverse |
| 06.017 | Batten and panel ceiling lining | | Low |
| 06.018 | Exposed roof covering | | Moderate |

07 Dormitory D

| Element no. | Description | Photo ref. | Significance |
|-------------|----------------------|------------|--------------|
| 07.001 | Pitched roofs | | High |
| 07.002 | Rainwater goods | | Adverse |
| 07.003 | Exterior decorations | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 07.004 | Altered doors and windows | | Adverse |
| 07.005 | External airconditioning units and other external services | | Adverse |
| 07.006 | Clothes drying racks | | Adverse |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 07.008 | Lay-in grid suspended ceiling | | Adverse |
| 07.009 | Corbelled brickwork at perimeter of room | | Low |
| 07.010 | Plywood floor | | Adverse |
| 07.011 | Timber thresholds at external doors and internal doors between main corridor and individual rooms | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------|-------------------------------------|--------------|
| 07.012 | Form new door openings | | Moderate |
| 07.013 | Stair balustrades | | High |
| 07.014 | Fixed signs | Descriptive Nation Mylerikou La if | Low-High |

| Element no. | Description | Photo ref. | Significance |
|-------------|---------------------|------------|--------------|
| 07.015 | Exposed roof tiling | | Moderate |
| 07.016 | Concrete floor | | Adverse |

Schedule of Character Defining Elements

Central Police Station

08 Ablutions Block

| Element no. | Description | Photo ref. | Significance |
|-------------|----------------------|------------|--------------|
| 08.001 | Panelled doors | | Low |
| 08.002 | Rainwater goods | | Adverse |
| 08.003 | Exterior decorations | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------------|------------|--------------|
| 08.004 | Block existing door openings | | Moderate |
| 08.005 | Timber roof structure | | High |
| 08.006 | External stair at west end | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|---|--------------|
| 08.007 | External airconditioning units and other external services | | Adverse |
| 08.008 | Painted signs | MO VISITOR WILL BE ADMITTED WITHOUT: THE PERMISSICM OF THE D.O. OR FORMANDOR ACT THE THE THE THE THE THE THE THE THE TH | High |
| 08.009 | Wire mesh screens | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------------------|------------|--------------|
| 08.010 | Internal walls and concrete floors | | Low |
| 08.011 | Cantilever balconies on north side | | Moderate |
| 08.012 | Bridge access to Barrack Block | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 08.013 | Balcony balustrades | | Low |
| 08.014 | Single-storey outbuilding with pitched roof over | | Low |
| 08.015 | Corrugated steel sheet on balcony balustrades | | Adverse |

09 Magistracy

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------------|------------|--------------|
| 09.001 | Lay-in grid suspended ceiling | | Adverse |
| 09.002 | Modern partitions | | Adverse |
| 09.003 | Internal walls | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------------------|------------|--------------|
| 09.004 | Plaster box cornice | | Moderate |
| 09.005 | Panelled doors | | Moderate |
| 09.006 | Block existing door openings | | Moderate |
| 09.007 | Form new door openings | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|--|--------------|
| 09.008 | Stair balustrades | | High |
| 09.009 | Fixed signs | WE MANAGED DEPARTMENT RECORD, SECTION RECORD OPERATMENT RECORD, SECTION RECORD OPERATMENT RECORD, OPERATMENT | Low-High |
| 09.010 | External airconditioning units and other external services | | Adverse |
| 09.011 | Pitched roofs | 0000 | High |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 09.012 | Rainwater goods | | Moderate |
| 09.013 | Metal walkways across lightwell | | Adverse |
| 09.014 | Altered doors and windows | | Adverse |
| 09.015 | Sloping canopy over external stair on west side | | Adverse |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 09.016 | Single storey secure shelter at North West corner | | Low |
| 09.017 | Iron railing adjacent south side of item 09.016 above | T E E E E | Moderate |
| 09.018 | Public toilets in 09/LG1/17, 24 | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|-----------------------------------|------------|--------------|
| 09.019 | Cell doors | | High |
| 09.020 | Meeting room at G/02-05 | | Moderate |
| 09.021 | Lobbies within entrance hall G/12 | | Adverse |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|----------------------------------|------------|--------------|
| 09.022 | Public galleries on FF | | Adverse |
| 09.023 | Chimney piece | | Moderate |
| 09.024 | Lanterns above entrance hall | | Adverse |
| 09.025 | Boarded ceilings on Second Floor | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 09.026 | Iron gates at top of external stair | | Moderate |
| 09.027 | Iron balustrade adjacent terrace at First Floor east side | | High |

10 Assistant Superintendent's Office

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------------|------------|--------------|
| 10.001 | Lay-in grid suspended ceiling | | Adverse |
| 10.002 | Plaster box cornice | | Moderate |
| 10.003 | Panelled doors and linings | | Moderate |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 10.004 | Timber boarded floor with moulded skirtings | | High |
| 10.005 | Exterior decorations | | Adverse |
| 10.006 | Block existing door openings | | Moderate |
| 10.007 | Form new door openings | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 10.008 | Altered doors and windows | | Adverse |
| 10.009 | External airconditioning units and other external services | | Adverse |
| 10.010 | Stair balustrades | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------|---|--------------|
| 10.011 | Fixed signs | ない。 は、 は、 は、 は、 は、 は、 は、 は、 は、 は、 | Low-High |
| 10.012 | Pitched roofs | | High |
| 10.013 | Internal walls | | Moderate |
| 10.014 | Partitions on SF | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 10.015 | Blocked windows on south elevation of south-east wing | | Adverse |
| 10.016 | Open-joisted ceiling on Ground Floor of south-east wing | | Moderate |
| 10.017 | Moulded timber picture rail | | Low |
| 10.018 | Timber roof structure above south-east wing | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 10.019 | Timber stair | | Moderate |
| 10.020 | Clay/terrazzo tile floor on Ground Floor and steps | | Adverse |
| 10.024 | Granite wall on North elevation | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 10.025 | Single storey outbuilding at South East corner | | Moderate |
| 10.026 | Blocked archway on East elevation | | Adverse |
| 10.027 | Chimney on east elevation | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------|------------|--------------|
| 10.028 | Cantilever balconies | | High |
| 10.029 | Steps on east elevation | | Moderate |

11 A Hall

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 11.001 | Form new door openings | | Low |
| 11.002 | External airconditioning units and other external services | | Adverse |
| 11.003 | Painted signs | E A HALL | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|-----------------|---|--------------|
| 11.004 | Fixed signs | 等生 小心地滑 CAUTION SLIPPERY FLOOR | Low-High |
| 11.005 | Concrete stairs | | Low |
| 11.006 | Flat roof | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------------|------------|--------------|
| 11.007 | Security screen at roof level | | Low |
| 11.008 | Rainwater goods | | Adverse |
| 11.009 | Rainwater goods | | Low |

| Element no. | Description | o ref. | Significance |
|-------------|--|------------|--------------|
| Eleme | Descr | Photo ref. | Signif |
| 11.010 | Timber doors | | Low |
| 11.011 | Security screen and door at First Floor | | Low |
| 11.012 | Door thresholds and plinth | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|----------------------------------|------------|--------------|
| 11.013 | Metal louvres on window openings | | Adverse |

12 B Hall

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 12.001 | Flat roof | | Moderate |
| 12.002 | Cells at GF level | | High |
| 12.003 | External airconditioning units and other external services | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|-----------------|--|--------------|
| 12.004 | Painted signs | THE RESERVE OF THE PROPERTY OF | High |
| 12.005 | Fixed signs | The state of the s | Low-High |
| 12.006 | Rainwater goods | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 12.007 | Corbelled brickwork at high level in cells | | Low |
| 12.008 | Barbed wire | | Moderate |
| 12.009 | External walls | | Moderate |

13 C Hall

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 13.001 | External airconditioning units and other external services | | Adverse |
| 13.002 | Door to Ladder Store | | Low |
| 13.003 | Security bars at window openings | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|---------------------------------------|------------|--------------|
| 13.004 | Flat roof | | Low |
| 13.005 | Eaves detail | | Low |
| 13.006 | Cantilever reinforced concrete canopy | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|--------------------------|--|--------------|
| 13.007 | Internal partition walls | | Low |
| 13.008 | Fixed signs | Name of the control o | Low-High |
| 13.009 | Metal window frames | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 13.010 | Internal security screens | | Moderate |
| 13.011 | Coving at abutments between RC beams and walls | | Low |
| 13.012 | Communal cells at Ground Floor | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 13.013 | Rooflight and security bars over communal cells | | Moderate |
| 13.014 | Granite threshold at external door openings | | Low |
| 13.015 | Timber boarded doors with fanlight over | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|------------------|------------|--------------|
| 13.015 | Vinyl tile floor | | Adverse |
| | | | |

14 D Hall East Wing

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.001 | West entrance at Lower Ground Floor | | Moderate |
| 14.002 | Half-round headed doorway and side lights | | Moderate |
| 14.003 | Granite surround to cells (generally north side, alternating with brick surrounds – see next item) | 3 | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 14.004 | Brick reveals with bull-nosed arrisses and segmental arch over (generally north side, alternating with granite surrounds – see previous item) | | High |
| 14.005 | Arched opening at East end First Floor | | Low |
| 14.006 | Concrete floor generally at Lower Ground Floor | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 14.007 | Part-blocked windows at Lower Ground Floor - extent of blocking varies. | | Moderate |
| 14.008 | External granite stair from Lower Ground to Ground Floor level | | Moderate |
| 14.009 | Ashlar pattern on external walls | | Moderate |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.010 | Blocked doorway at south-east corner | | Low |
| 14.011 | Metal security gate and screen | | Low |
| 14.012 | Half-round headed doorway and side lights at Ground Floor west end | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 14.013 | Structural steelwork bracing and temporary access stair | | Adverse |
| 14.014 | RC staircase at north-east corner | | Low |
| 14.015 | Vinyl tile floor on suspended timber floor | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.016 | Cell walls at Ground Floor | | Moderate |
| 14.017 | Mortuary | | High |
| 14.018 | Brickwork surrounds to doorways with segmental arches over | | Moderate |

| ıt no. | ıtion | .ef. | ance |
|-------------|---|------------|--------------|
| Element no. | Description | Photo ref. | Significance |
| 14.019 | Granite surrounds to doorways with lintels over | | Moderate |
| 14.020 | Flat ceilings at Ground Floor | P | Low |
| 14.021 | Arched opening at east end | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 14.022 | Top-lit central hall | | High |
| 14.023 | Arches across central hall at First Floor | | Moderate |
| 14.024 | Inset security gate and screen in First Floor cells | | Low |

14 D Hall West Wing

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 14.030 | Main stair | | High |
| 14.031 | Brick vault over central hall at Ground Floor | | High |
| 14.032 | Terrazzo floor in central hall at Ground floor | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.033 | Brick vaults above cells | | High |
| 14.034 | Cell walls (later additions) | | Moderate |
| 14.035 | Brickwork spandrels below cell windows on south side at Ground Floor | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.036 | Cell walls flanking central hall | | High |
| 14.037 | Cell floors | | Low |
| 14.038 | Partition wall across central hall at Ground Floor | | Low |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.039 | Granite pavement in cross- passage between East and West Wings | | Moderate |
| 14.040 | Granite threshold at doorway between cross-passage and East Wing | | Moderate |
| 14.041 | Brick vault over cross-passage | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.042 | Granite floor in central hall at First Floor | | Moderate |
| 14.043 | Cell walls flanking central hall at First Floor | | High |
| 14.044 | Brickwork spandrels below cell windows at Second Floor | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 14.045 | Metal security screen adjacent main stair | | Moderate |
| 14.046 | Double-height central hall at Second Floor | | High |
| 14.047 | View ports adjacent entrance doors | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|------------|--------------|
| 14.048 | Services installations | | Adverse |
| 14.049 | Metalwork and structural steel framing on exterior (typical) | | Adverse |
| 14.050 | Blind arcade, south elevation | | Low |
| 14.051 | Blind arcade, north elevation | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------------------|------------|--------------|
| 14.052 | Fence wall, east end of D Hall Yard | | Low |

15 E Hall

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 15.001 | Dividing walls at Lower Ground Floor | | Moderate |
| 15.002 | Dividing walls at Lower Ground Floor | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 15.003 | Staircase within Laundry Yard | | Moderate |
| 15.004 | Services installations | | Adverse |
| 15.005 | Metal louvres over cell window openings | | Low |

| Element no. | Description | Photo ref. | Significance |
|-------------|---------------------------------------|------------|--------------|
| 15.006 | Raised ground level adjacent entrance | | Low |
| 15.007 | Access balconies and apertures | | Moderate |
| 15.008 | Central staircase | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|----------------------------------|----------------|--------------|
| 15.009 | Cell walls flanking central hall | | High |
| 15.010 | Services installations | 18 30 00 00 00 | Adverse |
| 15.011 | Balcony balustrades | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---------------------------|------------|--------------|
| 15.012 | Second Floor central hall | | High |

17 F Hall

| Element no. | Description | Photo ref. | Significance |
|-------------|-------------------------------|------------|--------------|
| 17.001 | Lay-in grid suspended ceiling | | Adverse |
| 17.002 | Rainwater goods | | Low |
| 17.003 | Exterior decorations | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|-------------|--|---|--------------|
| 17.004 | External airconditioning units and other external services | | Adverse |
| 17.005 | Fixed signs | PRISONERS' PRIVATE CLOTHING STORE 犯人私家衣服儲藏室 | Moderate |
| 17.006 | Security screen at First Floor entrance | | Low |
| 17.007 | Metal windows | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|--------------------------------------|------------|--------------|
| 17.008 | Fixed furniture | | Moderate |
| 17.009 | Security screens | | Moderate |
| 17.010 | Timber windows | | Moderate |
| 17.011 | Communal washing/lavatory facilities | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|-----------------------------------|------------|--------------|
| 17.012 | Blocked up lantern light | | Low |
| 17.013 | Security gates at Ground openings | | Moderate |
| 17.014 | Interview booths | | High |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|--|--------------|
| 17.015 | External stair to First Floor | | Moderate |
| 17.016 | Ground Floor main entrance | | Low |
| 17.017 | Security screen at Ground Floor main entrance | The distance of the state of th | Low |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|--|--------------|--------------|
| 17.018 | Blue Entrance Gate (facing Old Bailey Street) | Tara da ante | High |
| 17.019 | Blue Entrance Gate (inner) and enclosed yard | | Moderate |
| 17.020 | Blue Entrance Gate (inner) facing Prison Yard | | Moderate |

| Element no. | Description | Photo ref. | Significance |
|-------------|---|------------|--------------|
| 17.021 | Barbed wire | | Moderate |
| 17.022 | Metal security bars at windows | | Moderate |
| 17.023 | External toilets at Ground Floor adjacent East elevation | | Low |

Schedule of Character Defining Elements

Central Police Station

| Element no. | Description | Photo ref. | Significance |
|-------------|-----------------|---|--------------|
| 17.024 | Open Visit Room | THE REAL PROPERTY OF THE PARTY | Low |

19 Bauhinia House

| Element no. | Description | Photo ref. | Significance |
|----------------|---|------------|--------------|
| 19.001 | Pitched roofs | | High |
| 19.002 | Chimney | | High |
| 19.003 | Rainwater goods and other external services | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|----------------|----------------------------|------------|--------------|
| 19.004 | External stone wall facing | | High |
| 19.005 | Gun loops | | High |
| 19.006 | Look-out turret | | High |

| Element no. | Description | Photo ref. | Significance |
|----------------|---------------------|------------|--------------|
| 19.007 | Windows | | Moderate |
| 19.008 | Modern partitions | | Adverse |
| 19.009 | Electrical services | | Adverse |

| Element no. | Description | Photo ref. | Significance |
|----------------|-------------------------------|------------|--------------|
| 19.010 | Lay-in grid suspended ceiling | | Adverse |
| 19.011 | Exposed timber roof structure | | High |
| 19.012 | Timber stair | | Moderate |