#### MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project:
Thirty-fifth Monthly EM&A Report
(1 September to 30 September 2014)

Issue Date: October 2014

#### **Environmental Resources Management**

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### Central Police Station Conservation and Revitalisation Project: Thirty-fifth Monthly EM&A Report (From 1 September to 30 September 2014)

Issue Date: October 2014

Reference 0095646

For and on behalf of					
ERM-Hong Kong, Limited					
	<u> </u>				
Approved b	oy: Frank Wan				
	Warden T.				
Signed:	Turker .				
Position:	Partner				
Position:	rarmer				
Certified by	· Mar				
	vironmental Team Leader – Winnie Ko)				
,	,				
Date:	13 October 2014				

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.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.



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**Date:** 14 October 2014

#### By Email and Post

ERM-Hong Kong Limited, 16/F DCH Commercial Centre, 25 Westlands Road, Quarry Bay, Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project Verification of Monthly EM&A Report No.35

We refer to your letter dated 14 October 2014 regarding the Monthly EM&A Report No.35. Atkins China Ltd. verifies, in the capacity of Independent Environmental Checker, that the report, in principle, conforms the requirements provided in Condition 3.4 of the Environmental Permit (EP-408/2011/B).

Yours sincerely, For Atkins China Ltd.

**Sharifah Or** 

**Independent Environmental Checker** 

c.c. HKJC – Mr. Kenneth Lee
Rocco Design Architect – Mr. Charles Kung

By Email By Email

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#### **EXECUTIVE SUMMARY**

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the thirty-fifth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 September to 30 September 2014 in accordance with the EM&A Manual.

#### Summary of Construction Works undertaken during Reporting Period

The major construction works undertaken during the reporting period include:

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block
   9, Block 10, Block 12, Block 13, Block 15 and Block 17;
- Roof repair works at Block 4, Block 9, Block 10 and Block 19;
- Demolition works at Block 3, Block 4, Block 9, Block 13 and Block 14;
- New RC structure construction at Block 2, Block 3, Block 12, Block 13 and Block 14;
- Dismantle temp work at Block 8;
- Builders work and E&M to transformer room at Block 8;
- Conceal conduit construction and E&M installation at Block 1, Block 6 and Block 7;
- E&M opening at Block 2, Block 6 and Block 7;
- Underground drainage at Block 1, Block 2 and Block 11;
- Builders work in basement plant room;
- Timber doors and windows repair works at Block 3, Block 4, Block 6, Block 7, Block 8, Block 9 and Block 10;
- Paint stripping and plaster works at Block 1, Block 2, Block 3, Block 6, Block 7, Block 9, Block 14 and Block 15;
- Metal works repair at Block 15;
- Façade works at Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, Block 10 and Block 14;
- Structural timber floor repair at Block 3;
- New balcony construction at Block 6;
- Balcony repair at Block 6 and Block 7;
- Service trench construction of L2;
- Excavation of M3;
- Preservation by record works at U2;
- Arbuthnot Road West works;
- Core wall construction at Arbuthnot Wing;
- Basement construction at Old Bailey Wing; and
- R22, R177 upgrading.

#### **Environmental Monitoring and Audit Progress**

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

•	Construction noise monitoring during normal weekdays at each	
	monitoring station	5 times
•	Joint environmental site inspection	1 time
•	Heritage site inspections	20 times
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration monitoring for piling works	125 times
•	Vibration monitoring for other construction works	75 times

#### Noise

5 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. No exceedance of the Limit Level of construction noise was recorded during the reporting period. The Action Level of noise (complaint received) was triggered twice during the reporting period and investigations are being carried out.

#### Cultural Heritage

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 25 vibration monitoring measurements for the basement construction at Parade Ground;
- 25 vibration monitoring measurements at Block 8;
- 25 vibration monitoring measurements at Old Bailey Wing (Block 50);
- 25 vibration monitoring measurements at Block 51; and
- 25 vibration monitoring measurements at Block 17.

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

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 14.
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 11.

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

Heritage site audits were conducted on 1-5, 8, 10-12, 15, 17-19, 22-26, 29-30 September 2014 by the Heritage Checker during the reporting period. Major observations and recommendations during the site inspections were listed below:

#### 2 September 2014

• It was observed that one section of the timber cornice to Block 6 east balcony was laid on the top of the scaffold without protection. The Contractor was informed to follow up.

#### 24 September 2014

• It was observed that the holding cell to Block 9 lower ground floor area was being used as a rubbish store. The Contractor was reminded to clear the rubbish immediately.

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

The follow-up actions recommended in the heritage site audits from the last reporting period (August 2014) have generally been implemented.

#### Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 3 September 2014 by the arborist during the reporting period. There was no observation or recommendation from the arborist.

#### Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 1,216.97 tonnes of inert C&D materials were generated during the reporting period. 264.83 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 9,720 kg of metal was produced and sent to recyclers for recycling. No plastic waste or paper/cardboard packaging was generated during the reporting period. No chemical waste was produced during the reporting period.

#### **Environmental Site Inspection**

A joint environmental site inspection was carried out by the representatives of the Contractor, the IEC and the ET on 23 September 2014. There was no major observation identified during the site inspection.

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

No exceedance of the Limit Level of construction noise was recorded at designated monitoring stations during the reporting period. Two exceedances of the Action Level of noise (complaint received) were recorded during the reporting period.

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

No enquiry was received during the reporting period.

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

Two complaints were received during the reporting period.

No summons/prosecution was received during the reporting period.

#### **Future Key Issues**

Works to be undertaken in the next month include:

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block
   9, Block 10, Block 11, Block 12, Block 13 and Block 14;
- Roof repair works at Block 10 and Block 19;
- Demolition works to Block 3, Block 4, Block 5, Block 13 and Block 14;
- New RC structure construction at Block 2, Block 3 and Block 13;
- Paint stripping and plaster repair at Block 2, Block 3, Block 4, Block 6, Block 7, Block 9, Block 11, Block 14 and Block 15;
- Builders work at basement plant room;
- Timber doors and windows repair works at Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, and Block 9;
- E&M opening at Block 2, Block 6 and Block 7;
- Conceal conduit construction / E&M installation at Block 1, Block 6 and Block 7;
- Structural timber floor repair at Block 3, Block 4, Block 6, Block 7, Block 10 and Block 14;
- Façade works at Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, Block 10, Block 11, Block 14, Block 15, Block 17 and Block 19;
- Balcony repair at Block 6 and Block 7;
- New balcony construction at Block 6;
- Erection of rain shelter at Block 15;
- Metal works repair at Block 15;
- Underground drainage at Block 2, Block 6, Block 7 and Block 11;
- Arbuthnot Wing core wall structure construction;

- Old Bailey Wing basement construction;
- Service trench construction of L2;
- Preservation by record works at U2;
- Final reinstatement of pavement at lower Arbuthnot Road east and traffic island at junction between Arbuthnot Road East and Wyndham Street;
- Excavation works for HEC power cable laying at Old Bailey Street east; and
- R22, R23 and R177 upgrading.

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

#### 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 thirty-fifth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 September to 30 September 2014.

#### 1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

#### Section 1: **Introduction**

details the scope and structure of the report.

#### Section 2: **Project Information**

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

#### Section 3: Environmental Monitoring Requirements

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

## Section 4: Implementation Status on Environmental Protection Requirements

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

#### Section 5: Monitoring Results

summarises the monitoring results obtained in the reporting period.

#### Section 6: Environmental Site Inspection

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

#### Section 7: Environmental Non-conformance

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

#### Section 8: Future Key Issues

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

#### Section 9: Conclusions

#### 2 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 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 Jockey Club 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 from 1 September to 30 September 2014

#### **Construction Activities Undertaken**

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block 9, Block 10, Block 12, Block 13, Block 15 and Block 17;
- Roof repair works at Block 4, Block 9, Block 10 and Block 19;
- Demolition works at Block 3, Block 4, Block 9, Block 13 and Block 14;
- New RC structure construction at Block 2, Block 3, Block 12, Block 13 and Block 14;
- Dismantle temp work at Block 8;
- Builders work and E&M to transformer room at Block 8;
- Conceal conduit construction and E&M installation at Block 1, Block 6 and Block 7;
- E&M opening at Block 2, Block 6 and Block 7;
- Underground drainage at Block 1, Block 2 and Block 11;
- Builders work in basement plant room;
- Timber doors and windows repair works at Block 3, Block 4, Block 6, Block 7, Block 8, Block 9 and Block 10;
- Paint stripping and plaster works at Block 1, Block 2, Block 3, Block 6, Block 7, Block 9, Block 14 and Block 15;
- Metal works repair at Block 15;
- Façade works at Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, Block 10 and Block 14;
- Structural timber floor repair at Block 3;
- New balcony construction at Block 6;
- Balcony repair at Block 6 and Block 7;
- Service trench construction of L2;
- Excavation of M3;
- Preservation by record works at U2;
- Arbuthnot Road West works;
- Core wall construction at Arbuthnot Wing;
- Basement construction at Old Bailey Wing; and
- R22, R177 upgrading.

#### 2.4 PROJECT ORGANISATION

The Project organisation chart and contact details are shown in *Annex B*.

#### 2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the 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 on 10 January 2012
	EP-408/2011/A	-	Superseded on 22 March 2012
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under <i>Air</i> <i>Pollution Control</i> ( <i>Construction Dust</i> ) <i>Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under <i>Waste</i> <i>Disposal Ordinance</i>	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	Expired.
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.
	GW-RS1162-12	1 December 2012 at 0000 hours to 28 March 2013 at 0600 hours	Expired.
	GW-RS0113-13	1 February 2013 at 0200 hours to 31 May 2013 at 0400 hours	Expired.

GW-RS1301-12 2 January 2013 at 1900 hours to 29 June 2013 at 2300 hours  GW-RS0084-13 24 January 2013 at Expired.	
1900 hours to 29 June 2013 at 0700 hours	
GW-RS0638-13 16 June 2013 at Expired. 0700 hours to 15 September 2013 at 1900 hours	
GW-RS0901-13 14 August 2013 at Expired. 0000 hours to 31 October 2013 at 0600 hours	
GW-RS0714-13 29 June 2013 at Expired. 1900 hours to 28 December 2013 at 2400 hours	
GW-RS0745-13 5 July 2013 at 1900 Expired. hours to 30 December 2013 at 2300 hours	
GW-RS1110-13 7 October 2013 at Expired. 0200 hours to 31 December 2013 at 0400 hours	
GW-RS1205-13 4 November 2013 Expired. at 0000 hours to 30 January 2014 at 2400 hours	
GW-RS1275-13 13 November 2013 Expired. at 0000 hours to 30 April 2014 at 2400 hours	
GW-RS0062-14 10 February 2014 at Expired. 0000 hours to 31 March 2014 at 2400 hours.	
GW-RS1461-13 29 December 2013 Expired. at 0000 hours to 28 June 2014 at 2400 hours.	
GW-RS0271-14 1 April 2014 at 0100 Expired. hours to 30 June 2014 at 0600 hours	
GW-RS0434-14 8 May 2014 at 0000 Expired. hours to 30 September 2014 at 2400 hours	
GW-RS0651-14 28 July 2014 at 0000 Expired. hours to 26 September 2014 at 2400 hours	
GW-RS0658-14 29 June 2014 at -	

	0000 hours to 28 December 2014 at 2400 hours	
GW-RS0749-14	1 August 2014 at 0000 hours to 31 January 2015 at 2400 hours	-
GW-RS0918-14	29 September 2014 at 0000 hours to 31 December 2014 at 2400 hours	-

#### 3

#### 3.1 Noise Monitoring

#### 3.1.1 Monitoring Location

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

Table 3.1 Construction Phase Noise Monitoring Station

<b>Monitoring Location</b>	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 denied; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD.

The noise sensitive receivers are also shown in *Annex C*.

#### 3.1.2 Monitoring Parameters, Frequency and Programme

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

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ) 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 the IEC 651: 1979 and 804:1985 (Type 1) specifications. The calibration certificates of the sound level meters are appended in *Annex E*.

Table 3.2 Noise Monitoring Equipment

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10486660)
	Sound Level Meter
	Rion NL-52 (S/N 00131627)

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(A).

#### 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 <sub>eq(30mins)</sub> , 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 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 and Pipe/Bored Piling Works

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

Vibration Monitoring for Other Construction Works

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

Alert, Alarm and Action Levels

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

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

Instrument Type	Item Monitored	Alert Level	Alarm Level	Action Level
Vibration	Horizontal	2.0 mm/s	2.5 mm/s	3.0 mm/s
Monitoring	Movement			

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

Events	Action
Exceedance of Action Level	Cease Works and submit mitigation

#### 3.2.2 Mitigation Measures

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

#### 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 PROTECTION REQUIREMENTS

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

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

Table 4.1 Status of Required Submissions

Submission		Submission Date
EP Condition		
Condition 3.4	Thirty-fourth Monthly EM&A Report	18 September 2014

#### 5 MONITORING RESULTS

#### 5.1 Noise

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

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

No exceedance of the Limit Level of construction noise was recorded during the reporting period. The Action Level of construction noise (complaint received) was triggered twice during the reporting period. Investigations are being carried out.

#### 5.2 CULTURAL HERITAGE

#### 5.2.1 Vibration Monitoring

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 25 vibration monitoring measurements for the basement construction at Parade Ground;
- 25 vibration monitoring measurements at Block 8;
- 25 vibration monitoring measurements at Old Bailey Wing (Block 50);
- 25 vibration monitoring measurements at Block 51; and
- 25 vibration monitoring measurements at Block 17.

The monitoring results are presented in *Annex L*.

Other Construction Works

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

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 1;
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 14;
- 25 vibration monitoring measurements for the structural addition and alteration works at Block 11.

The monitoring results are presented in *Annex M*.

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

#### 5.2.2 Heritage Site Audit

Heritage site audits were conducted on 1-5, 8, 10-12, 15, 17-19, 22-26, 29-30 September 2014 by the Heritage Checker during the reporting period. The cultural heritage requirements (including the recommended mitigation measures) stated in the approved EIA Report (AEIAR-162/2011) are being carried out. Major observations with respect to the requirements of the contract documents during the site inspections were listed below:

#### 2 September 2014

• It was observed that one section of the timber cornice to Block 6 east balcony was laid on the top of the scaffold without protection. The Contractor was informed to follow up.

#### 24 September 2014

• It was observed that the holding cell to Block 9 lower ground floor area was being used as a rubbish store. The Contractor was reminded to clear the rubbish immediately.

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

The follow-up actions recommended in the heritage site audits from the last reporting period (August 2014) have been implemented.

#### 5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 3 September 2014 and major observations and recommendations in the reporting period are summarised in *Table 5.1*. The tree inspection report is contained in *Annex J*.

Table 5.1 Findings of Monthly Tree Inspection in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observations / Recommendations	
Tree -5	Mangifera indica	Good	No further action required.	
Tree -6	Aleurites moluccana	Fair	No further action required.	
Tree-7	Aleurites moluccana	Fair	<ul> <li>No further action required.</li> </ul>	
Tree-8	Plumeria rubra	Fair	No further action required.	
Tree-9	Araucaria cunninghamia	Fair	No further action required.	
Tree-11	Dracaena marginata	Fair	No further action required.	

#### 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 non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 9,720 kg of metal was generated and sent to recyclers for recycling. No plastic waste or paper/cardboard packaging was generated during the reporting period. No chemical waste was produced during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

Month / Year		Qı	uantity				
_	C&D	C&D	Chemical Waste		Recycled materials		
	Materials (inert) <sup>(a)</sup>	Materials (non-inert) (b)	Solid	Liquid	Paper / cardboard	Plastics	Metals
September 2014	1,216.97 tonnes	264.83 tonnes	0 kg	0 L	0 kg	0 kg	9,720 kg

#### Notes:

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

#### 6 ENVIRONMENTAL SITE INSPECTION

Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 23 September 2014. There was no non-compliance recorded during the site inspection.

#### Follow-up Actions for the Last Site Audit

• Chemical containers observed without drip tray near Block 8 have been removed.

#### Observations and Recommendations of this Reporting Month

• Nil.

#### 7 ENVIRONMENTAL NON-CONFORMANCE

#### 7.1 SUMMARY OF MONITORING EXCEEDANCE

No exceedance of the Limit Level of construction noise or Alert, Alarm and Action Levels of vibration was recorded during the reporting period. The Action Level of construction noise (complaint received) was triggered twice during the reporting period.

#### 7.2 SUMMARY OF ENQUIRY

No enquiry was recorded during the reporting period.

#### 7.3 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

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

#### 7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

Two complaints were received during the reporting period. Information about the complaints is summarised in *Table 7.1*.

#### Table 7.1 Summary of Complaints Received

Date of Complaint Received by the Contractor	Means by which complaint was received	Nature of complaint
28 August 2014 (a)	Environmental Protection Department	Noise nuisance
22 September 2014 (b)	Environmental Protection Department	Noise nuisance
26 September 2014 (b)	Environmental Protection Department	Noise nuisance

#### Note:

- a) The complaint investigation for the complaint received on 28 August 2014 was in progress in the last reporting period and the complaint investigation report is provided in this reporting period.
- b) The complaint investigations for the complaints received on 22 and 26 September 2014 are in progress and the complaint investigation reports will be provided in the next reporting period.

On 28 August 2014, EPD received a complaint on noise nuisance from a resident living on Chancery Lane. The complaint was transferred to the Project's Environmental Team on 11 September 2014. The complainant mentioned that construction noise was emanated from manual construction activities within the CPS Project Site, particularly from loading and unloading metal materials at about 8:00am on 28 August 2014. The noise nuisance is suspected to be related to loading and unloading of a batch of rebar at the upper platform area during normal working hours. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the

past 4 weeks showed compliance with the construction noise standard. After the receipt of the complaint, the time of commencement of noisy construction works at the upper platform area would be postponed to after 9:00am on a daily basis. Also, the operation team and works contractor have been reminded to perform material handling and other works activities with care to avoid causing noise nuisance as much as possible.

The Complaint Investigation Reports and the cumulative number of complaints are presented in *Annex K*.

#### 7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons was received during the reporting period.

#### 8.1 KEY ISSUES FOR THE COMING MONTH

Works to be undertaken for the coming monitoring period are summarised in *Table 8.1*.

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

#### Work to be Undertaken

- Structural addition and alteration works at Block 2, Block 3, Block 4, Block 9, Block 10, Block 11, Block 12, Block 13 and Block 14;
- Roof repair works at Block 10 and Block 19;
- Demolition works to Block 3, Block 4, Block 5, Block 13 and Block 14;
- New RC structure construction at Block 2, Block 3 and Block 13;
- Paint stripping and plaster repair at Block 2, Block 3, Block 4, Block 6, Block 7, Block 9, Block 11, Block 14 and Block 15;
- Builders work at basement plant room;
- Timber doors and windows repair works at Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, and Block 9;
- E&M opening at Block 2, Block 6 and Block 7;
- Conceal conduit construction / E&M installation at Block 1, Block 6 and Block 7;
- Structural timber floor repair at Block 3, Block 4, Block 6, Block 7, Block 10 and Block 14;
- Façade works at Block 2, Block 3, Block 4, Block 6, Block 7, Block 8, Block 10, Block 11, Block 14, Block 15, Block 17 and Block 19;
- Balcony repair at Block 6 and Block 7;
- New balcony construction at Block 6;
- Erection of rain shelter at Block 15;
- Metal works repair at Block 15;
- Underground drainage at Block 2, Block 6, Block 7 and Block 11;
- Arbuthnot Wing core wall structure construction;
- Old Bailey Wing basement construction;
- Service trench construction of L2;
- Preservation by record works at U2;
- Final reinstatement of pavement at lower Arbuthnot Road east and traffic island at junction between Arbuthnot Road East and Wyndham Street;
- Excavation works for HEC power cable laying at Old Bailey Street east; and
- R22, R23 and R177 upgrading.

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

#### 8.2 MONITORING SCHEDULE FOR THE NEXT MONTH

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

# 8.3 Construction Programme for the Next Month The most updated construction programme for the Project is presented in Annex I.

#### 9 CONCLUSIONS

The *Environmental Monitoring and Audit (EM&A) Report* presents the EM&A works undertaken during the period from 1 September to 30 September 2014 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

No exceedance of Limit Level of construction noise was recorded at designated monitoring stations during the reporting period. The Action Level of noise (complaint received) was triggered twice during the reporting period and investigations are being carried out.

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

No enquiry was received during the reporting period.

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

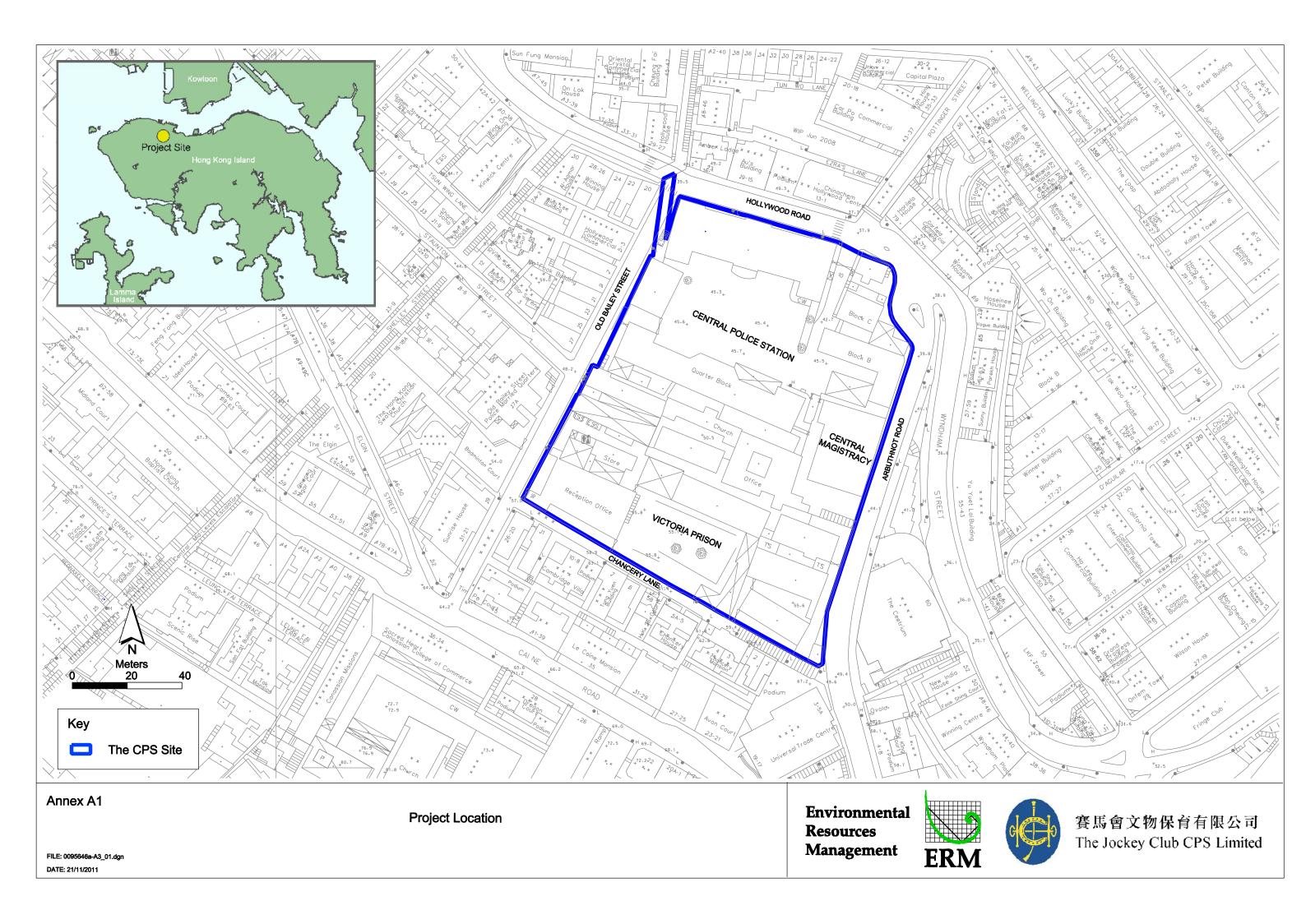
Two complaints were received during the reporting period.

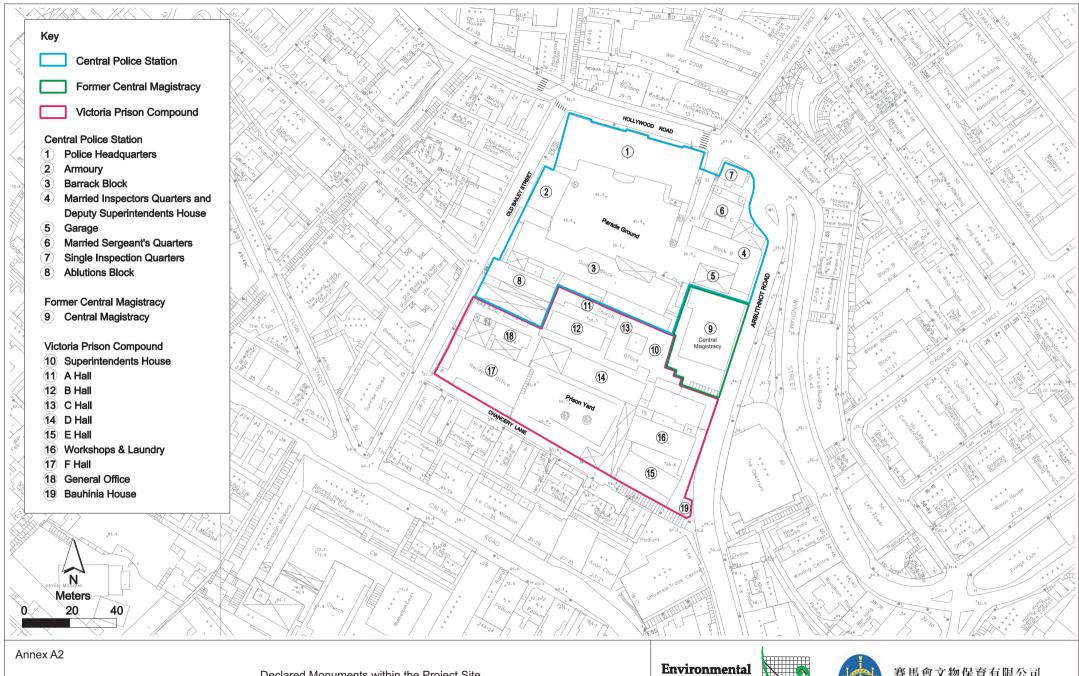
No summons/prosecution was received during the reporting period.

The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

#### Annex A

# Locations of Works Areas and the Surroundings





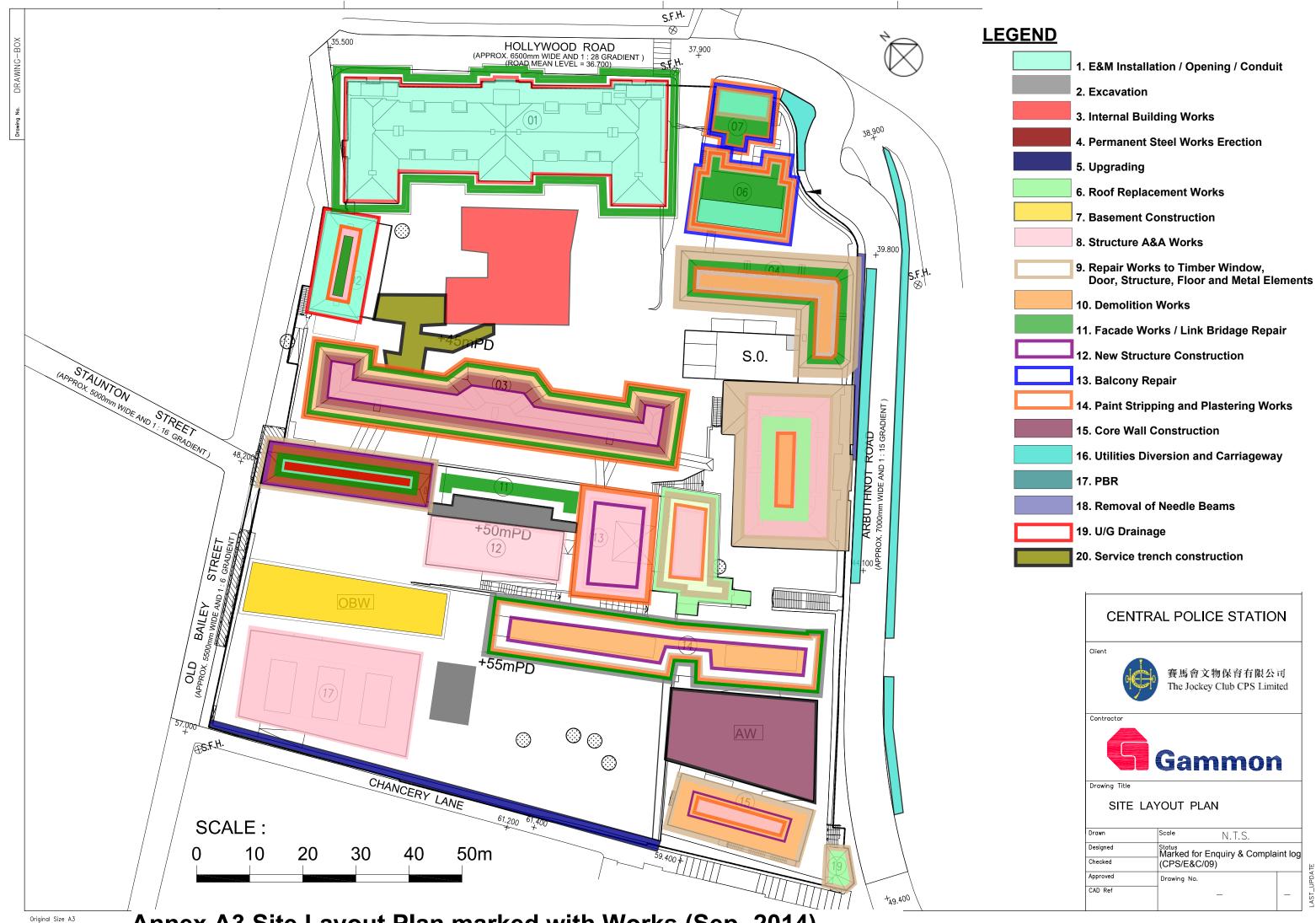
FILE: 0095646b1-A3.dgn DATE: 07/12/2011

Declared Monuments within the Project Site

Resources Management



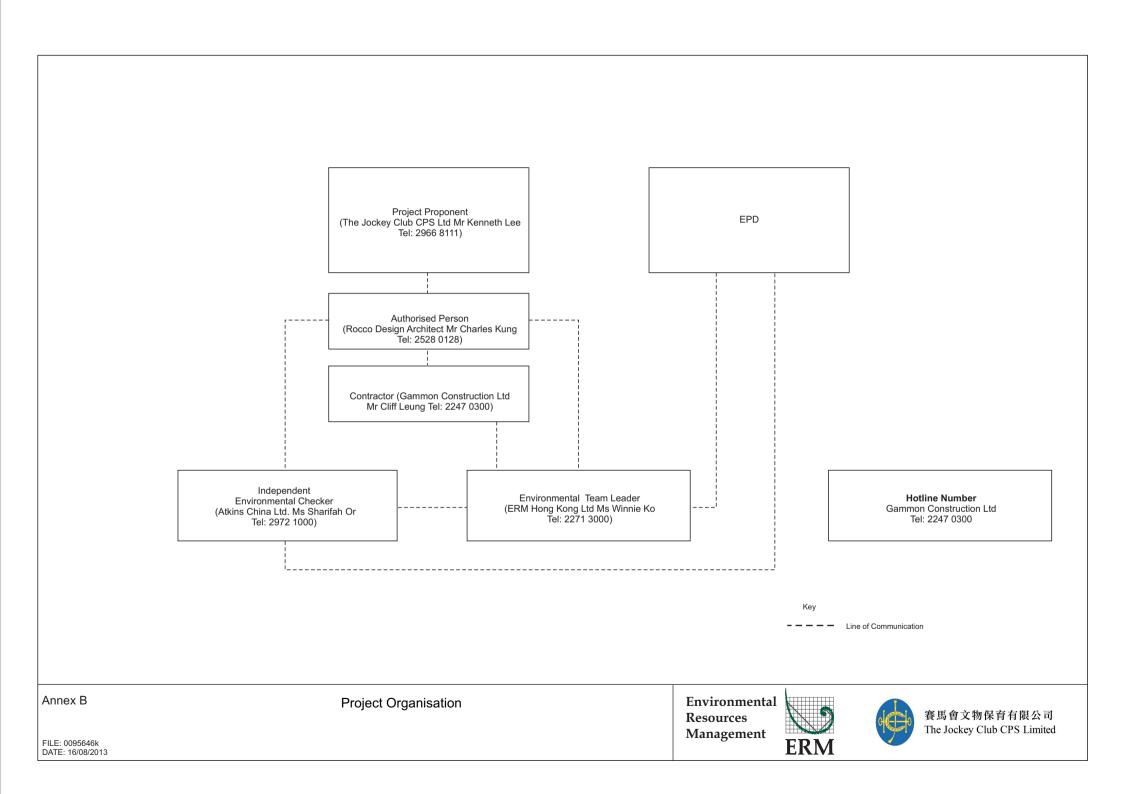




Annex A3 Site Layout Plan marked with Works (Sep- 2014)

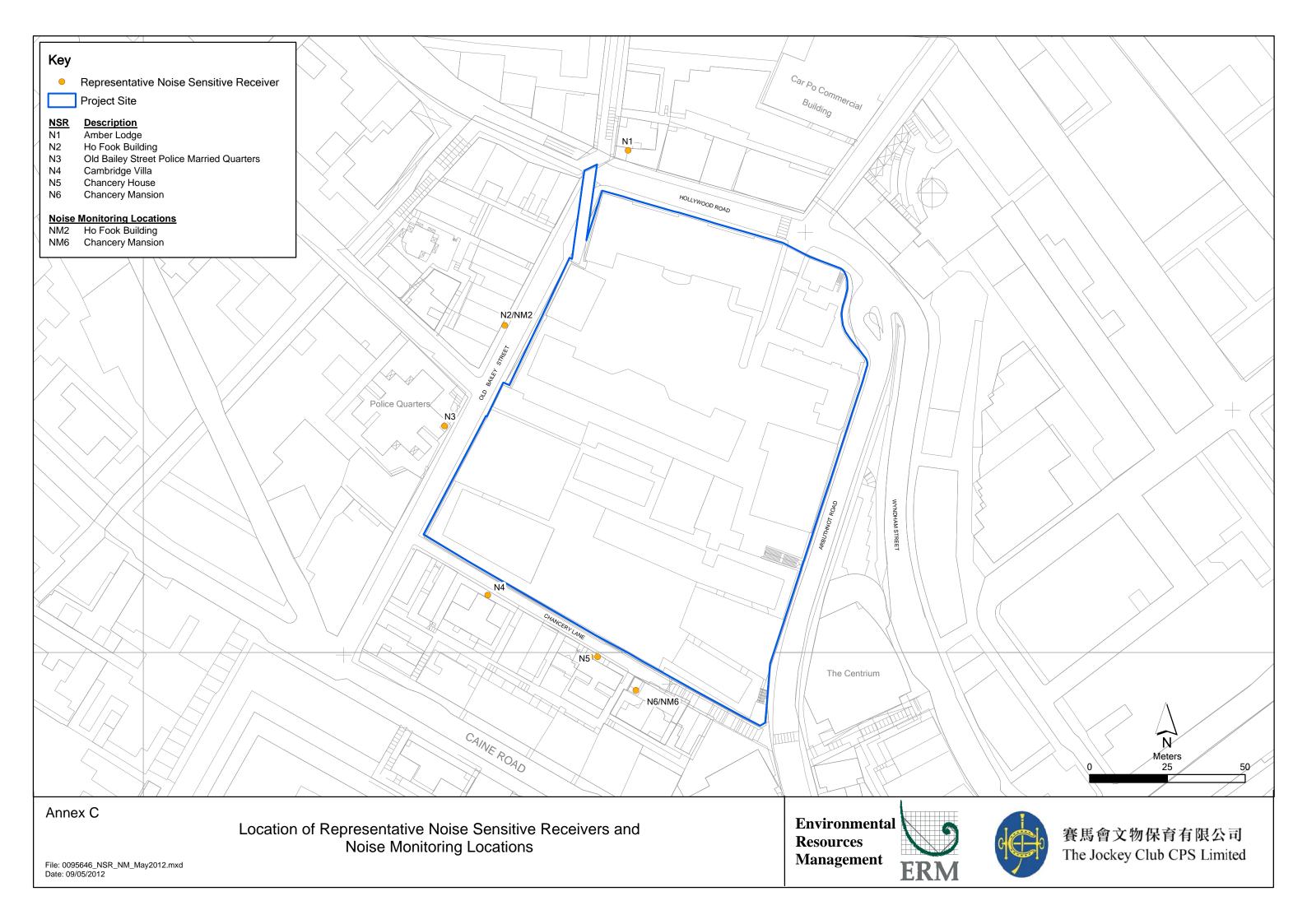
### Annex B

# Project Organization Chart and Contact Detail



### Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



### Annex D

Monitoring Schedule of the Reporting Period and Next Month

### Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - September 2014

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

### Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Next Reporting Month - October 2014

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

### Annex E

Calibration Reports for Calibrators and Sound Level Meters



## 輝 創 工 程 有 限 公 司

### Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration

校正證書

Certificate No.:

C141622

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC14-0645)

Date of Receipt / 收件日期: 11 March 2014

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商 Model No. / 型號

Rion

Serial No. / 編號

NL-52 00131627

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 / 温度 :

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

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$ 

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

17 March 2014

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
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Rohde & Schwarz Laboratory, Germany

Tested By 測試

Project Engineer

Certified By 核證

K M Wu Engineer Date of Issue

20 March 2014

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

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co香港新界屯門與安里一號青山灣機樓四樓 Tel 電話: 2927 2606 Fax/傳真: 2744 8986

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Page 1 of 3



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Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.: C141622

證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment:

Equipment ID CL280 CL281 <u>Description</u>
40 MHz Arbitrary Waveform Generator
Multifunction Acoustic Calibrator

Certificate No. C140016

- 5. Test procedure: MA101N.
- 6. Results:
- 6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

	UUT Setting				Applied Value		IEC 61672
Range	Function	Frequency	Time	Level	Freq.	UUT Reading	Class 1 Spec.
(dB)	1 011011	Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L <sub>A</sub>	A	Fast	94.00	1	94.1	± 1.1

6.1.2 Linearity

	UU	Γ Setting	Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	$L_{A}$	A	Fast	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

IEC 61672 Class 1 Spec. :  $\pm$  0.6 dB per 10 dB step and  $\pm$  1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	$L_A$	A	Fast	94.00	1	94.1	Ref.
			Slow			94.1	± 0.3

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。 香港新界屯門興安里一號青山灣機樓四樓

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Certificate No.: C141622

證書編號

#### 6.3 Frequency Weighting

6.3.1 A-Weighting

Tr Weighting										
	UUT	Setting		Appl	ied Value	UUT	IEC 61672			
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.			
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)			
30 - 130	$L_A$	A	Fast	94.00	63 Hz	67.8	$-26.2 \pm 1.5$			
					125 Hz	77.8	$-16.1 \pm 1.5$			
					250 Hz	85.4	$-8.6 \pm 1.4$			
					500 Hz	90.8	$-3.2 \pm 1.4$			
					1 kHz	94.1	Ref.			
					2 kHz	95.3	$+1.2 \pm 1.6$			
					4 kHz	95.1	$+1.0 \pm 1.6$			
					8 kHz	93.0	-1.1 (+2.1; -3.1)			
					12.5 kHz	89.6	-4.3 (+3.0; -6.0)			

6.3.2 C-Weighting

	UUT Setting			Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L <sub>A</sub>	С	Fast	94.00	63 Hz	93.2	$-0.8 \pm 1.5$
					125 Hz	93.8	$-0.2 \pm 1.5$
					250 Hz	94.0	$0.0 \pm 1.4$
					500 Hz	94.1	$0.0 \pm 1.4$
					1 kHz	94.1	Ref.
					2 kHz	93.9	$-0.2 \pm 1.6$
					4 kHz	93.3	$-0.8 \pm 1.6$
					8 kHz	91.1	-3.0 (+2.1; -3.1)
					12.5 kHz	87.7	-6.2 (+3.0 ; -6.0)

Remarks: - UUT Microphone Model No.: UC-59 & S/N: 04663

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value: 94 dB: 63 Hz - 125 Hz  $\pm 0.35 \, dB$ 

250 Hz - 500 Hz :  $\pm 0.30 \text{ dB}$ 1 kHz  $:\pm 0.20~dB$ 2 kHz - 4 kHz  $: \pm 0.35 \text{ dB}$ 8 kHz  $: \pm 0.45 \text{ dB}$ 12.5 kHz

 $: \pm 0.70 \text{ dB}$ 104 dB: 1 kHz  $: \pm 0.10 \text{ dB (Ref. 94 dB)}$ 

114 dB: 1 kHz  $: \pm 0.10 \text{ dB (Ref. 94 dB)}$ 

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

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.

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## Certificate of Calibration

校正證書

Certificate No.:

C137683

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號:IC13-3109)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No. / 編號 NC-73 10486660

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 / 温度 :

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

Relative Humidity / 相對濕度 :

 $(55 \pm 20)\%$ 

Line Voltage / 電壓 :

....

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

3 December 2013

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

. . . .

Certified By 核證 K O Lee

K M Wn

Date of Issue

4 December 2013

簽發日期

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## Certificate of Calibration 校正證書

Certificate No.: C137683

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. C133632 DC130171 C120886

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

Sound Level Accuracy			
UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.8	± 0.5	± 0.2

5.2 Frequency Accuracy

Frequency Accuracy			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.991	1 kHz ± 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.

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### Annex F

Event / Action Plans for Noise

### Annex F Event and Action Plan for Noise

Event	Action									
	Environmental Team (ET)		dependent Environmental tecker (IEC)	A	uthorised Person (AP)	C	ontractor			
Action Level	<ol> <li>Notify IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, AP and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	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.	<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	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	<ol> <li>Identify source;</li> <li>Inform IEC and AP;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, AP and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	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.	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	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.	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Culture	al Heritag	ge e			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	No field work in the reporting month.
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	<b>√</b>
S3.9.2	\$3.3.3	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	Whole site	Prior to and during construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement.  The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
S3.9.3	53.3.4	Archival Recording 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	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	-	checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure.  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	Whole site	During detailed design, construction, post-construction and operation	√- CMP was implemented during 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	ipe & Visu	al		1	
S4.7.27	-	In-situ Tree Protection - Cordon Zone (CZ)  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 wastewater from intruding the soil inside the CZ.	Whole site	During construction	√ - Part of the cordon zone of Tree-5 has been used as a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times.  Scaffolding has been set up close to Tree-5 within the cordon zone. The Contractor was reminded to perform proper measures to protect Tree-5 during the carrying out of works within the cordon zone.
S4.7.2	-	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.	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system  A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	<b>√</b>

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	<b>√</b>
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. 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::			
		<ul> <li>Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring.</li> </ul>			
		<ul> <li>Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter.</li> </ul>			
		<ul> <li>Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves.</li> </ul>			
S4.7.2	S4	Vertical Greening	Inner Southern Wall	During detailed design and	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.		construction	
		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, 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	II.			1	
S5.9	-	<ul> <li>The following site practices should be followed during the construction of the Project:</li> <li>Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase;</li> <li>Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase;</li> <li>Mobile plant, if any, will be sited as far away from NSRs as possible;</li> </ul>	Whole Site	During construction	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<ul> <li>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;</li> <li>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</li> <li>Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> </ul>			
S5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	√ ·
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 <sup>-2</sup> and have no openings or gaps.	Whole Site	During construction	√
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	√ ·
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	<b>√</b>

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	$\sqrt{}$
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	<b>√</b>
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	V
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	√
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	V
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	<b>√</b>
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	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	V
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	V
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	V
Water (	Quality		I		
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	V
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	<b>V</b>

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	V
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	<b>√</b>

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 stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	√
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	<b>√</b>
Waste N	Manageme	nt			
S8.5	\$6.3.1 & 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	<b>√</b>

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	V
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	V
S8.5	S6	<ul> <li>Containers used for storage of chemical waste shall:</li> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>.</li> </ul>	Whole Site	During construction and operation	V
S8.5	S6	<ul> <li>Storage areas for chemical waste shall:</li> <li>Be clearly labelled and used solely for the storage of chemical waste;</li> <li>Be enclosed on at least 3 sides;</li> <li>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;</li> <li>Have adequate ventilation;</li> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>Be arranged so that incompatible materials are appropriately separated.</li> </ul>	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	√ ·
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	<b>V</b>
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	<b>√</b>
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	Commencement 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	<b>√</b>

#### Remark:

- $\sqrt{\phantom{a}}$  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**

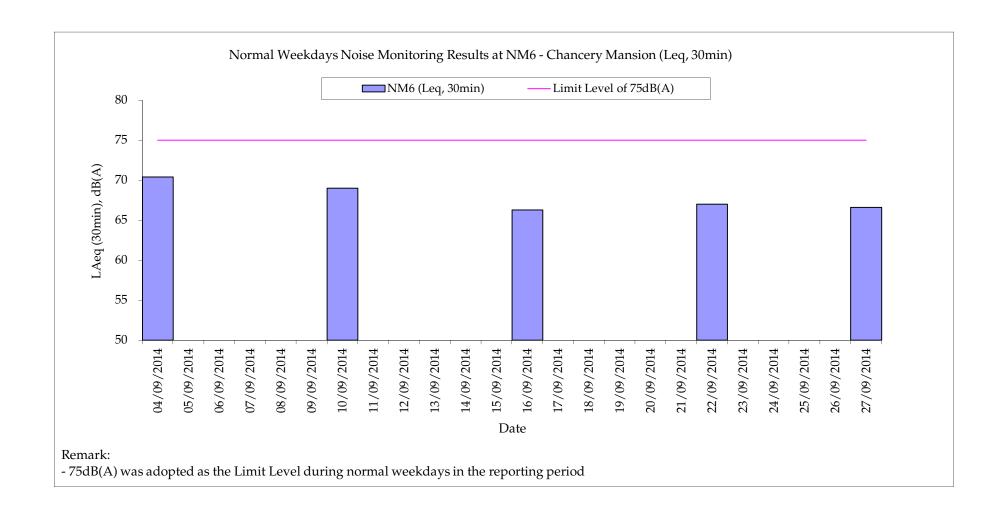
NM6 Chancery Mansion

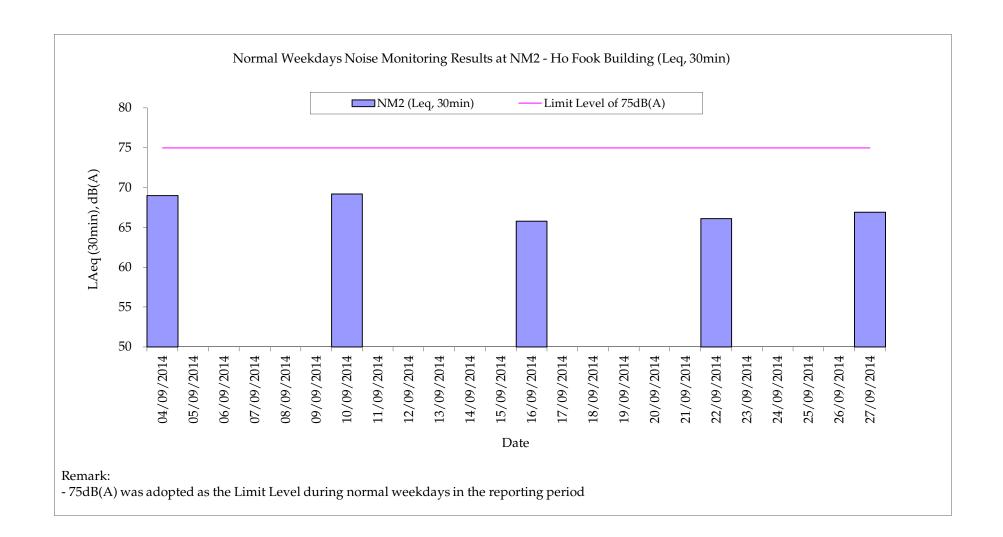
Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90		Observed		( /		
04-Sep-14	15:30	16:00	Fine	70.4	71.5	66.2	Interior fitting, lifting, steel bending (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
10-Sep-14	15:15	15:45	Sunny	69.0	70.6	66.2	Interior fitting, lifting, steel bending (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
16-Sep-14	15:50	16:20	Cloudy	66.3	68.0	64.2	Interior fitting (within the project site)	Traffic Noise	-	0.8	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
22-Sep-14	10:18	10:48	Sunny	67.0	68.4	63.3	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
27-Sep-14	13:38	14:08	Sunny	66.6	68.2	63.0	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
			Min.	66.3								
			Max.	70.4								

NM2 Ho Fook Building

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise	Other Noise		Wind Speed	Noise Meter	Calibrator
				Leq	L10	L90	Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
04-Sep-14	14:15	14:45	Fine	69.0	71.0	66.1	Interior fitting, lifting (within the project site)	Traffic noise	-	0.3	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
10-Sep-14	14:15	14:45	Sunny	69.2	71.6	65.1	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
16-Sep-14	16:40	17:10	Cloudy	65.8	67.2	63.9	Interior fitting (within the project site)	Traffic Noise	-	0.8	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
22-Sep-14	8:25	8:55	Sunny	66.1	67.9	63.4	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
27-Sep-14	14:15	14:45	Sunny	66.9	68.3	63.8	Interior fitting, lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00131627)	RION - NC73 (S/N 10486660)
			Min.	65.8								

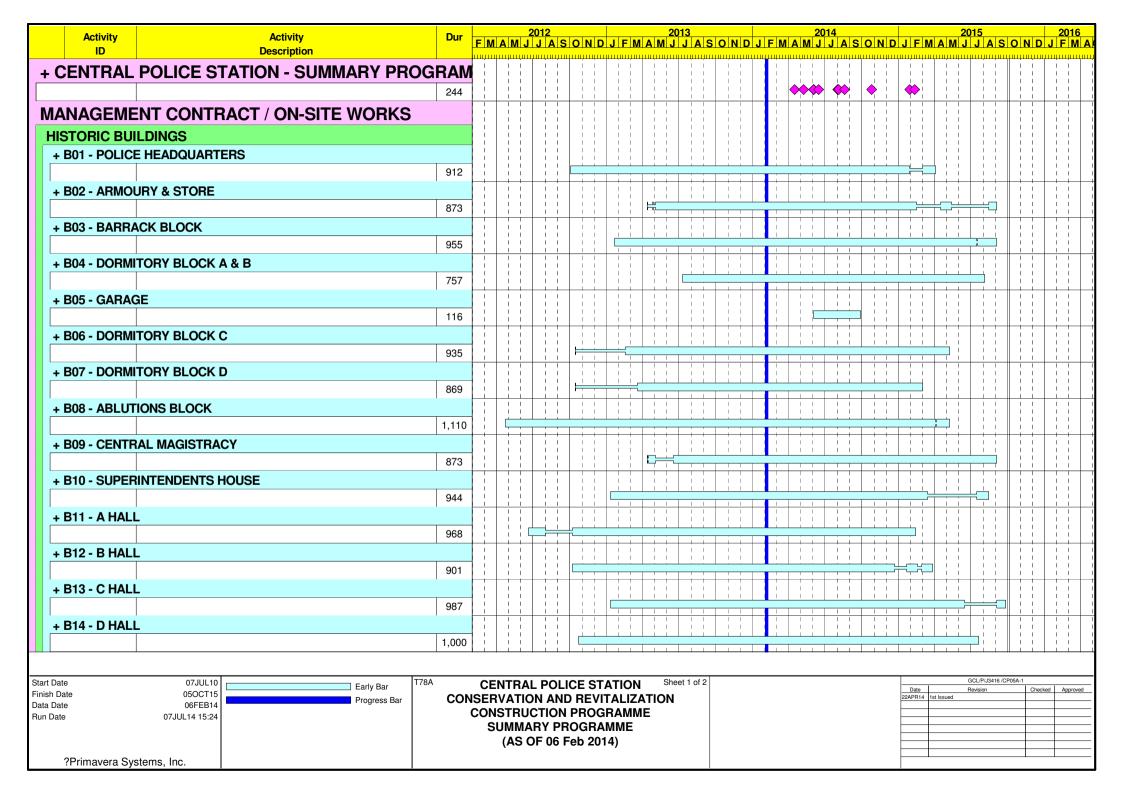
Min. 65.8 Max. 69.2

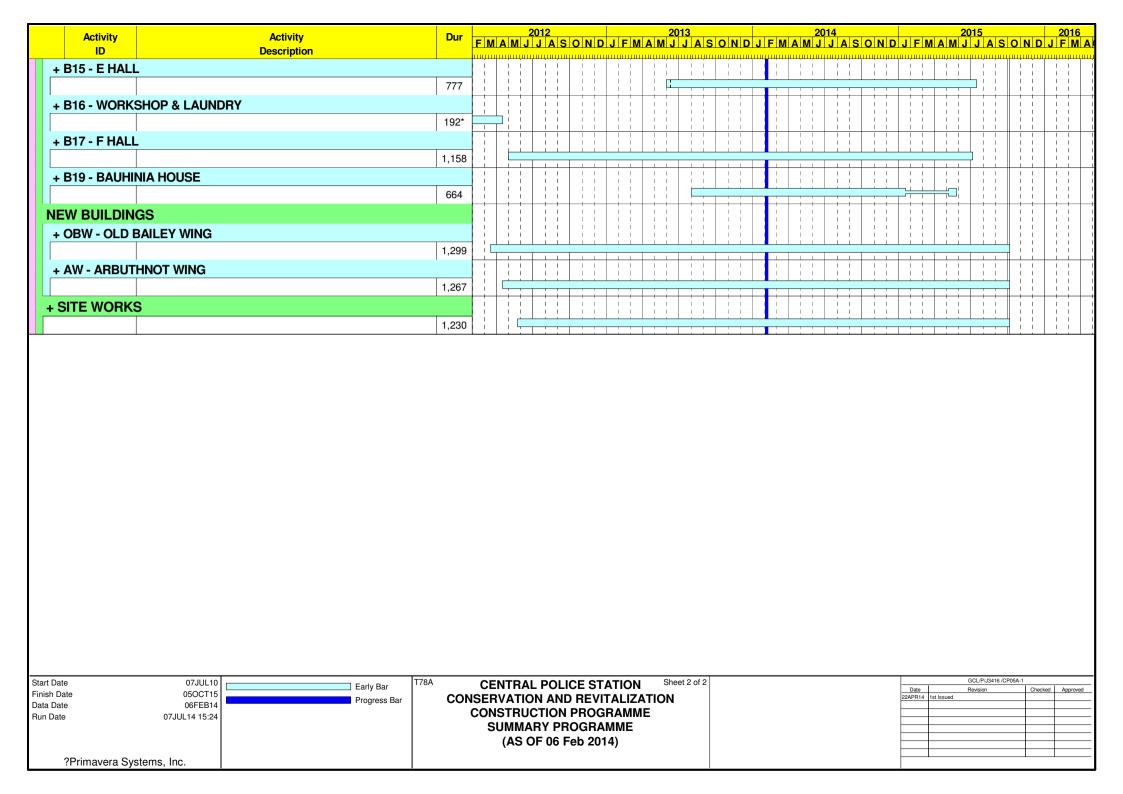




### Annex I

# Construction Programme for the Project





Annex J

Tree Inspection Reports

#### Yan Wing (Hong Kong) Environment Management Limited

香港 新界 沙頭角 新樓街 15號 二樓 No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong

通信地址 (Mail Address): 上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

Our Ref.: YW/TP/GAMMON/2014/09/1

30<sup>th</sup> September 2014

**Gammon Construction Limited** 28/F Devon House, TaiKoo Place 979 King's Road Hong Kong

Tel. 2516 8823 Fax.2516 6260

Attn: Mr. Cliff C.H. LEUNG, Ms. Oley C.T. WONG

Dear Madam/Sir,

### **Summary of Monthly Inspection Report for the Six Existing Trees** at Central Police Station Compound for August 2014 (Contract Ref.: J3416/400.4/D00025)

Tree	Botanical	Date of	Overall Health Condition	
No.	Name	Inspection	Good/Fair/Poor	Remarks
Tree-5	Mangifera indica 芒果	3 <sup>rd</sup> Sept. 2014	Good	No further action is required.
Tree-6	Aleurites moluccana 石栗	3 <sup>rd</sup> Sept. 2014	Fair	No further action is required.
Tree-7	Aleurites moluccana 石栗	3 <sup>rd</sup> Sept. 2014	Fair	No further action is required.
Tree-8	Plumeria rubra 紅雞蛋花	3 <sup>rd</sup> Sept. 2014	Fair	No further action is required.
Tree-9	Araucaria cunninghamia 花旗杉	3 <sup>rd</sup> Sept. 2014	Fair	No further action is required.
Tree-11	Dracaena marginata 馬尾鐵	3 <sup>rd</sup> Sept. 2014	Fair	No further action is required.





### Yan Wing (Hong Kong) Environment Management Limited

香港 新界 沙頭角 新樓街 15 號 二樓 No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong

通信地址 (Mail Address): 上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

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

I should be much grateful if you could endorse the attached Invoice (No.1077) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

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

( WONG Pak Hay ) Contract Manager

### FORM 1: TREE GROUP INSPECTION FORM 表格 1: 樹群檢查表格

General Inform	ation 基	本資料							
Company 公司: Gammon Construction Ltd		n Ltd	Name of Tree Inspe	ction officer 巡查	人員姓名:		lan Chung		
File Ref. 檔案編號: YW/TP/GAMMON/2014/09/2			4/09/2	Name of Endorseme	ent Officer 覆核	人員姓名:	WONG	Pak Hay	
Date of Inspection			September 2,						
Project/Contract	No.合約/	工程編號	J34	16/400.4/D00025					
Location Inform	nation 位	置資料							
Location 地點:			ation Compo	und.	Nearby Utility P	ost No. 就近公月	月設施編號:		
Location Types 地點	類別:		Roadside			Community		區會堂 / 中	7/\cdot\
Address :	21,34		X Open st				lanter 路旁花圃		u.
(multiple answers allo	owed)			_			pavilion 避雨亭		
可選多於一項)	<i>'</i>			n Centre 展覽中心		_	•	"/(水宁	
1925 911 194				nt 觀景台		Sitting out ar	ea 休恕處		
			Walking /	nature trail 行山徑	/ 自然徑				
			Others (p.	lease specify)其他 (記	清說明:				
							-		e I.I. marilità
General Tree In		1			0 111 11		appropriate		
Main tree species in			prox. number Range of tree		Overall health	Overall	Other remar		
or minority tree spe	ecies of		of trees in the height (		condition	structural	condition, e.		eau, nd structural
significant size	스타바뉴-골타		relevant species or as a % of tree 該樹種高度筆			整體結構狀況	defects; and		
在群組內的主要植胸徑或高度或樹冠		group	or tree		(good, fair,	全題が可特別へのし (good, fair,	其他評語	son condi	uon
的樹種	4世里19人	1 - 1	<b>在群組內</b>		好,良,差)	poor 好,良,	(樹木狀况例	1位1:7周額	/枯樹/病蟲害
(Note 2)			}比/數目*		N X L	差)	或結構問題	夏, 及泥土	:狀况 )
					2227				
Mangifera indica Aleurites molu		17%,	1 No.	16M	GOOD	GOOD		IFA	
Aleuriles molu	石栗	32%	2 Nos.	10-13M	FAIR	FAIR	N	JFA	
Plumeria rubra	i L雞蛋花	17%	1 No.	7M	FAIR	FAIR	ı	NFA .	
Araucaria cunninghamia	花旗杉	17%	1 No.	13M	FAIR	FAIR	ı	JFA	
Dracaena marginata	馬尾鐵	17%	1 No.	8M	FAIR	FAIR	l l	IFA	
「arget 目標									
TARGET (people	or propert	y potentia	lly affected by	tree/branch failur	re) 目標 (因樹木倒場	]或枝條斷裂而受影	響的人或財產	5)	
Does target exist		9.00	x Yes 是	☐ No 否					
Can target be mo			Yes ;	是 x No 否					
Can the use of sit					es 是 No 否				
Frequency of use				THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	, — <u>hand</u> pag				
Occasional u					Frequent use經常使	Consta	nt use恆常使	H	

#### Identification of Trees for Remedial Action or Detailed Tree Risk Assessment

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

Signature of Tree Inspection Officer: Signature of Endorsement Officer:

Name of Contractor

Date:

Yan Wing (HK) Environment Management Ltd.

30-9-2014



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

備註 1: 若鳳險緩減措施(如枝幹修剪)仍未能解決倒塌或枝條斷裂的潛在風險,應爲該樹進行詳細的樹木風險評估(表格 2)。
Note 2: Please read in conjunction with TMO's Guidelines on Tree Risk Assessment and Management Arrangement (Para. 4.3. refers.)

備註 2: 請參閱樹木管理辨事處的樹木風險評估安排及管理指引(第 4.3 節)

( Contract Ref. : J3416/400.4/D00025 )

Mangifera indica 芒果 TREE NUMBER: Tree-5 ١.

#### **BASIC INFORMATION:** 11.

Height (m)	16m	Crown spread (m)	18m
DBH (mm)	1000mm	Overall Health Condition	Good
		Good/Fair/Poor	
Date of Inspection	3 <sup>rd</sup> September 2014	Last Inspection Date	2 <sup>nd</sup> August 2014

#### III. COMMENTS:

- 1. Overall health condition of the tree is good.
- 2. The crown is full of green and dense leaves.
- 3. The site near Tree-05 is clean and tidy.
- 4. The store room next to the tree is clean and tidy.
- 5. Construction works are in progress outside the cordon zone.

#### IV. RECOMMENDATIONS:

1. No further action is required.

#### PHOTO RECORD:

Tree number. Fig 1. Tree - 5 Mang Jera indica Maintaried by 欣樂(香港)環境管理有限公司 Tel. 9776 1987 3/SEP/2014



Fig 2. The root collar of Tree-5 is good. The planter is full of mulch.



Fig. 3 The small cordon zone is in good order.





Fig. 4 The site near Tree-5 is clean and tidy.



Fig. 5 Health condition of the mid trunk is good.





Fig. 6 Health condition of the upper trunk also is good.



Fig. 7 The crown is full of dense and green leaves.





Fig. 8 Two pipes are leading water to the crown for irrigation.



Fig. 9 Renovation work is in progress near the tree





Fig.10 The store-room next to the tree is clean and tidy.



Fig. 11 Construction works are in progress outside the cordon zone.

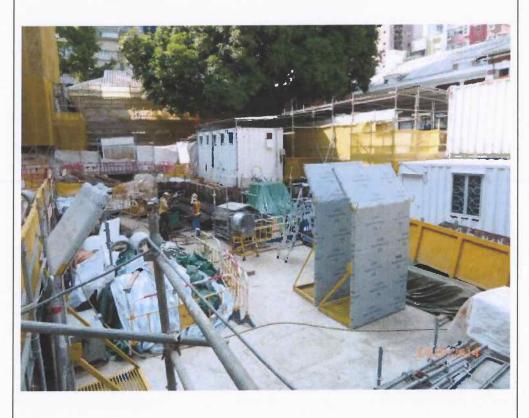
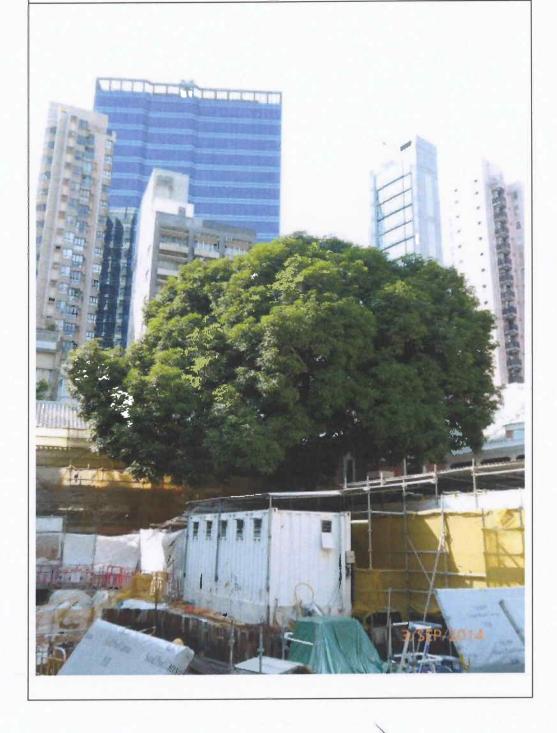




Fig. 12 Overall view of Tree-5 during inspection on 3<sup>rd</sup> Sept. 2014.



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

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30<sup>th</sup> September 2014.



( Contract Ref. : J3416/400.4/D00025 )

I. TREEE NUMBER: Tree-6 Aleurites moluccana 石栗

#### II. BASIC INFORMATION:

Height (m)	10m	Crown spread (m)	10m
DBH (mm)	510mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 <sup>rd</sup> September 2014	Last Inspection Date	2 <sup>nd</sup> August 2014

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The root collar of Tree-6 is normal. The planter is full of mulch.
- 3. The crown is full of green and dense leaves.
- 4. The access outside the cordon zone is clean and tidy.
- 5. Construction works are in progress outside the cordon zone.

#### IV. RECOMMENDATIONS:

1. No further action is required.

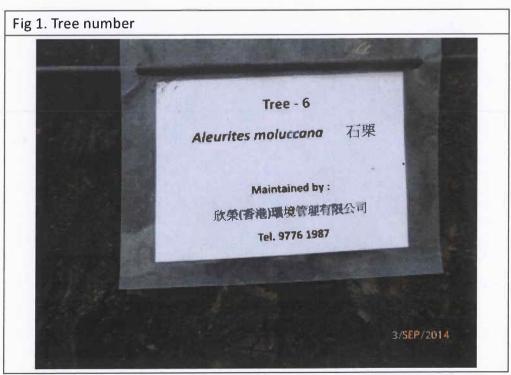




Fig 2. The root collar is normal. The planter is full of mulch.



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





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



Fig. 5 The crown is full of green and dense leaves.





Fig. 6 The small cordon zone is in good order.



Fig. 7 Many construction items are placed near the planter. Tree-6





Fig. 8 The access outside the cordon zone is clean and tidy.

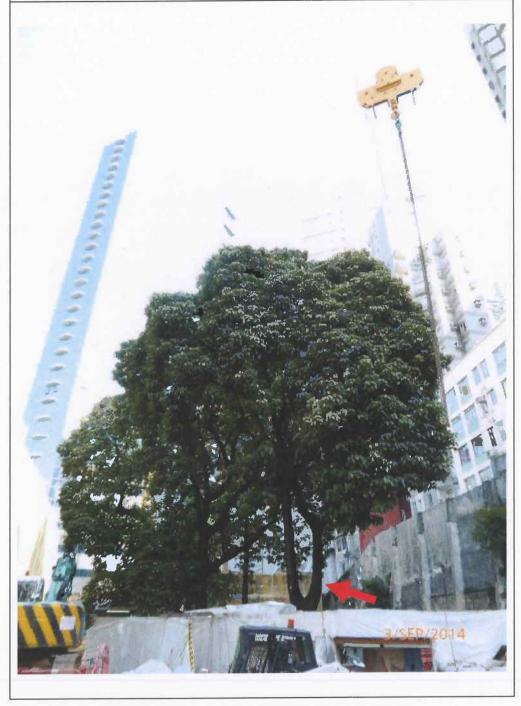


Fig. 9 Construction works are in progress outside the cordon zone.





Fig. 10 Overall view of Tree-6 during inspection on 3<sup>rd</sup> September 2014.



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

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30<sup>th</sup> September 2014



( Contract Ref. : J3416/400.4/D00025 )

I. TREEE NUMBER: Tree-7 Aleurites moluccana 石栗

#### II. BASIC INFORMATION:

Height (m)	13m	Crown spread (m)	12m
DBH (mm)	650mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 <sup>rd</sup> September 2014	Last Inspection Date	2 <sup>nd</sup> August 2014

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The root collar is normal. The planter is full of mulch.
- 3. The small cordon is in good order.
- 4. The crown is full of vigorous and dense leaves.
- 5. Construction works are in progress outside the cordon zone.

#### IV. RECOMMENDATIONS:

1. No further action is required.





Fig 2. Root collar of Tree-7 is normal. The planter is full of mulch.



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





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



Fig. 5 The crown is full of vigorous and dense leaves.

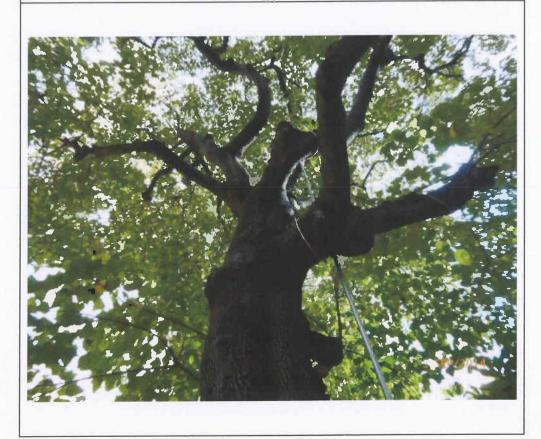




Fig. 6 The small cordon zone is in good order.



Fig. 7 The site near Tree-7 is clean and tidy.





Fig. 8 Construction works are in progress outside the cordon zone.

Tree-7

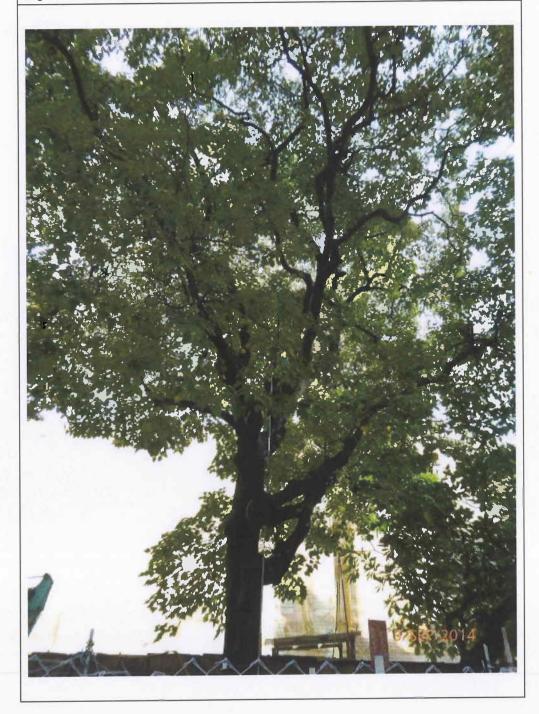


Fig. 9 The access near Tree-7 is clean and tidy.





Fig. 10 Overall view of Tree-7 during inspection on 3<sup>rd</sup> Sept. 2014.



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

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30<sup>th</sup> September 2014



( Contract Ref. : J3416/400.4/D00025 )

I. TREEE NUMBER: Tree-8 Plumeria rubra

#### II. BASIC INFORMATION:

Height (m)	7m	Crown spread (m)	9m
DBH (mm)	430mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 <sup>rd</sup> September 2014	Last Inspection Date	2 <sup>nd</sup> August 2014

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The site near the tree is clean and tidy.
- 3. The small cordon zone is in good order.
- 4. The crown is full of green and vigorous leaves.
- 5. Construction works are in progress outside the cordon zone.

#### IV. RECOMMENDATIONS:

1. No further action is required.





Fig 2. The root collar is normal. The planter is full of mulch.



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





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



Fig. 5 The crown is full of green and vigorous leaves.





Fig. 6 Front view of Tree-08 during inspection on 3<sup>rd</sup> Sept. 2014.

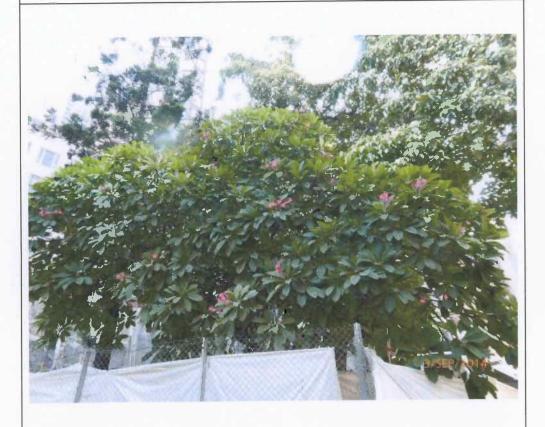


Fig. 7 The small cordon zone is in good order.





Fig. 8 The site near Tree-8 is clean and tidy.

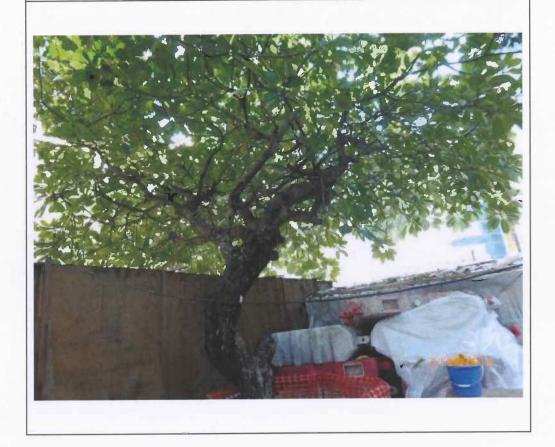


Fig. 9 Construction works are in progress outside the cordon zone.





Fig. 10 Overall view of Tree-8 during inspection on 3<sup>rd</sup> September 2014.



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

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30<sup>th</sup> September 2014



( Contract Ref. : J3416/400.4/D00025 )

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

#### II. BASIC INFORMATION:

Height (m)	13m	Crown spread (m)	5m
DBH (mm)	230mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 <sup>rd</sup> September 2014	Last Inspection Date	2 <sup>nd</sup> August 2014

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The site near Tree-9 is clean and tidy.
- 3. Vigorous branches/leaves appear on the tree.
- 4. The access near the tree is clean and tidy.
- 5. Construction works are in progress outside the cordon zone.

#### IV. RECOMMENDATIONS:

1. No further action is required.

Tree - 9

Araucaria cunninghamia 花旗杉

Maintained by:

於榮[香港]環境管理有限公司

Tel. 9776 1987



Fig 2. Root collar of Tree-9 is normal. The planter is full of mulch.



Fig. 3 Health condition of the mid trunk is fair





Fig. 4 Vigorous branches/leaves appear on the tree.



Fig. 5 The small cordon zone is in good order.





Fig. 6 Appropriate notice displays in front of the cordon zone.



Fig. 7 Many bulky items are placed near the planter.





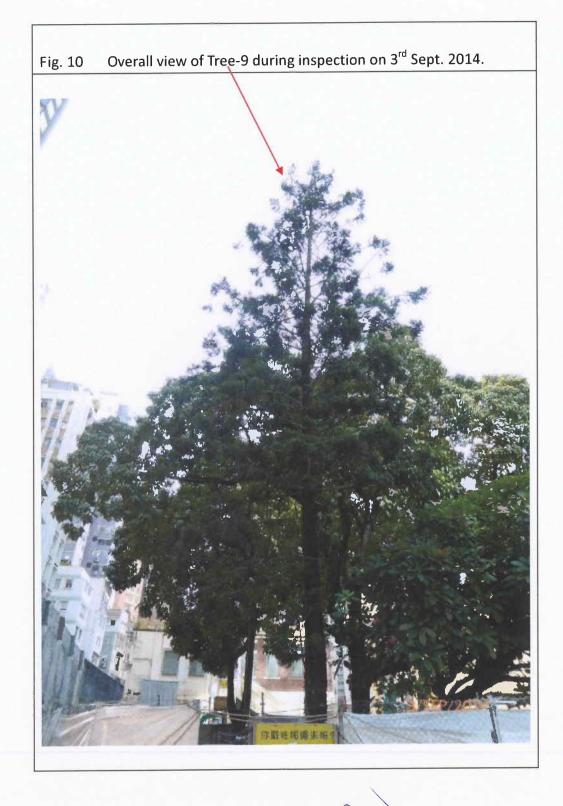
Fig. 8 Construction works are in progress outside the cordon zone.



Fig. 9 The access near the tree is clean and tidy.







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

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30<sup>th</sup> September 2014



# Inspection Report for the 6 Existing Trees at Central Police Station Compound

( Contract Ref. : J3416/400.4/D00025 )

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

#### II. BASIC INFORMATION:

Height (m)	8m	Crown spread (m)	2m
DBH (mm)	170mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 <sup>rd</sup> September 2014	Last Inspection Date	2 <sup>nd</sup> August 2014

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter appears clean and tidy.
- 3. The small cordon zone is in order.
- 4. Renovation works are in progress near the tree.
- 5. Cleanliness of the site outside the cordon zone is acceptable.

### IV. RECOMMENDATIONS:

1. No further action is required.

### V. PHOTO RECORD:





Fig. 2 The root collar is normal. The planter appears clean and tidy.



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





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



Fig. 5 The small cordon zone is in good order.





Fig. 6 The site near the planter is clean and tidy.



Fig. 7 Renovation works are in progress near the tree.





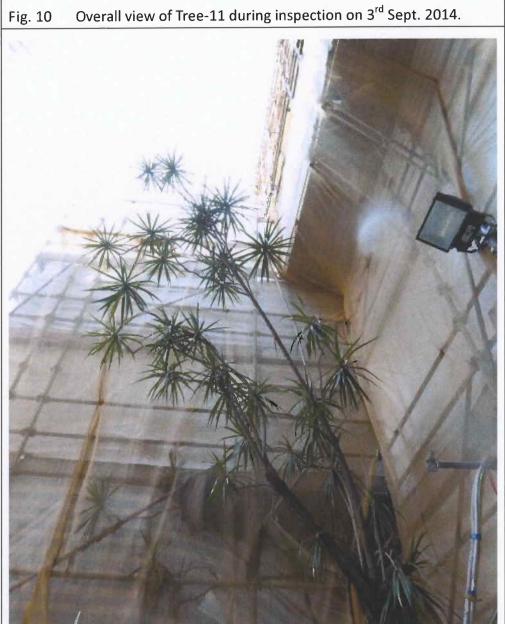
Fig. 8 The crown is full of green and vigorous leaves.



Fig. 9 Cleanliness of the site outside the cordon zone is acceptable.







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

Name of Contractor:

Dated this:

Yan Wing (HK) Environment Management Ltd.

30<sup>th</sup> September 2014



3/SEP/2014

### Annex K

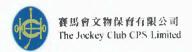
Environmental Complaint, Environmental Summons and Prosecution Log

Annex K Cumulative Complaint and Summons/Prosecutions Log

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

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
May 2013	0	0
June 2013	0	0
July 2013	0	0
August 2013	0	0
September 2013	0	0
October 2013	0	0
November 2013	0	0
December 2013	0	0
January 2014	2	0
February 2014	1	0
March 2014	1	0
April 2014	1	0
May 2014	0	0
June 2014	0	0
July 2014	2	0
August 2014	3	0
September 2014	2	0
Overall Total	23	0









# Central Police Station Conservation and Revitalisation Project



### **COMPLAINT INVESTIGATION REPORT**

### Basic Information of Complaint

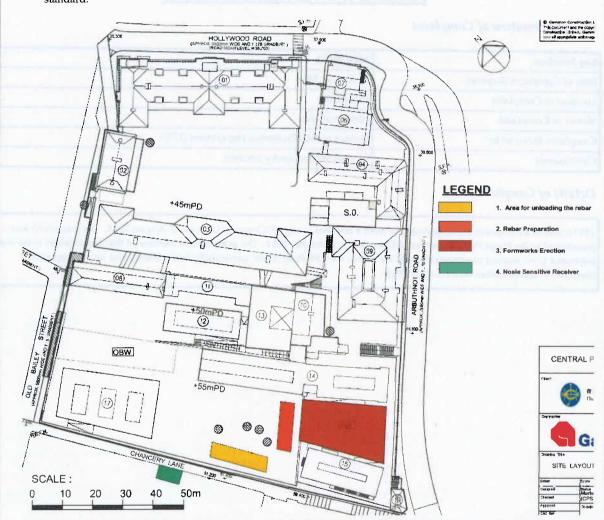
Log Number:	2014/08/003
Date of Complaint Received	28 August 2014
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD)
Complainant	Ik-s

### **Details of Complaint**

EPD received a complaint on noise nuisance from a resident living on Chancery Lane on 28 August 2014. The complaint was transferred to the Project's Environmental Team on 11 September 2014. The complainant mentioned that construction noise was emanated from manual construction activities within the CPS Project Site, particularly from loading and unloading metal materials at about 8:00am on 28 August 2014.

### **Investigation Report**

- 1. The noise nuisance is suspected to be related to loading and unloading of a batch of rebar at the upper platform area during normal working hours. The locations of these manual construction activities are shown in the figure below.
- 2. Weekly daytime noise monitoring at designated noise monitoring stations (NM2 and NM6) are conducted according to EM&A requirement. Noise monitoring results in the past 4 weeks showed compliance with the construction noise standard.



### Mitigation Measures and Follow-up Actions Recommended to Contractor

All construction works are carried out strictly following the necessary requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The time of commencement of noisy construction works at the upper platform area would be postponed to after 9:00am on a daily basis. Also, the operation team and works contractor have been reminded to perform material handling and other works activities with care to avoid causing noise nuisance as much as possible.

Date of File Closed:

7 October 2014

Approved by:

ET Leader

**IEC** 

JCCPS's

Representative

Rocco Design Architect's

Representative

(Name: Winnie Ko)

Date: 7 October 2014

(Name: Sharifah Or)

Date: 8 October 2014

(Name: CW Shan) Date: 8 Det. 2014

(Name: CHARLES Date:

Gammon's Representative

Date:

(Name: CUTT LEVAL) 2014.10.08 Annex L

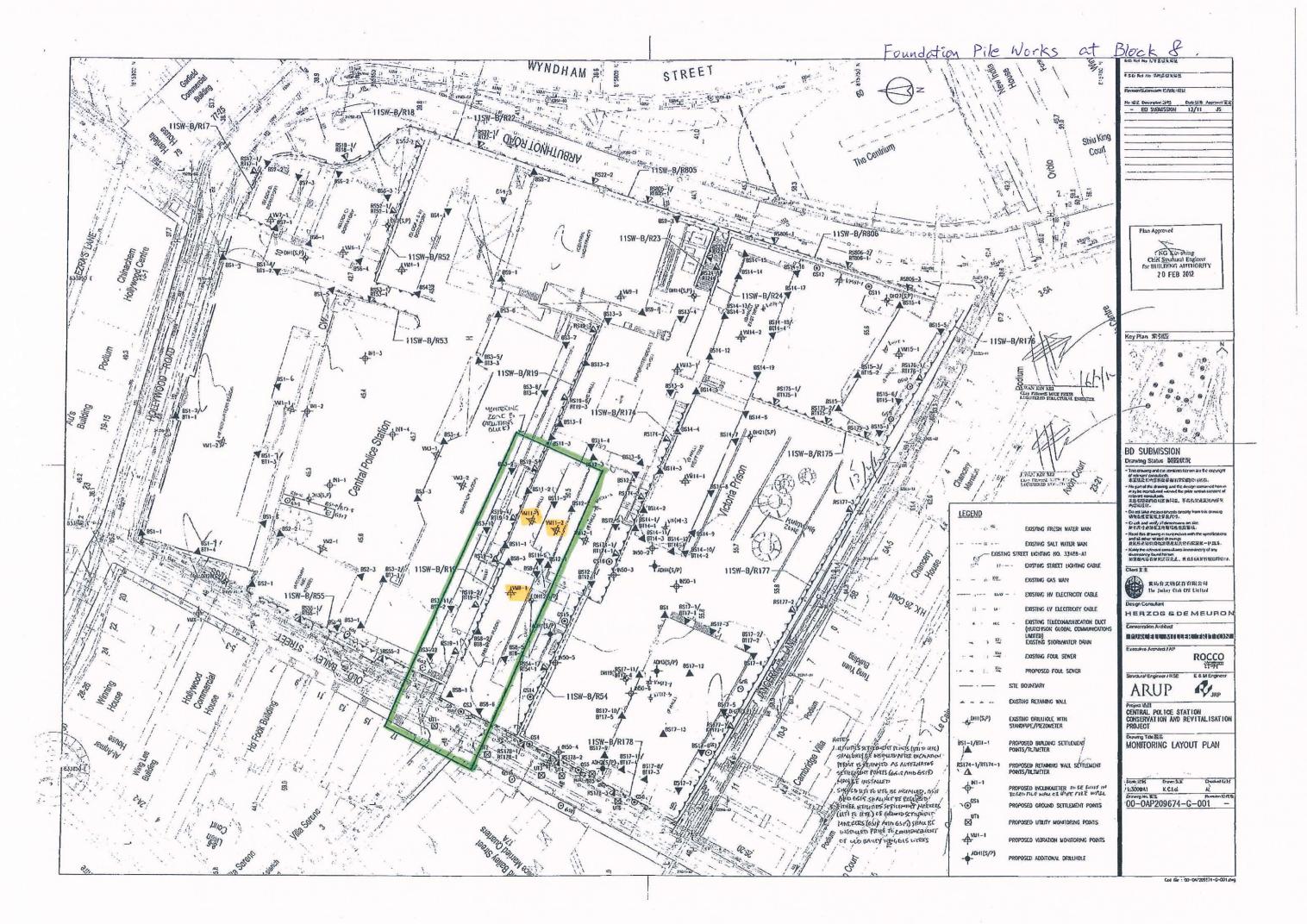
Records of Vibration Monitoring for Piling works





# **Vibration Monitoring Record (Sep 2014)**

	Parade Ground						
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2		
Date	mm/s	mm/s	mm/s	mm/s	mm/s		
01-Sep-14	0.169	0.158	0.096	0.132	0.328		
02-Sep-14	0.091	0.136	0.112	0.385	0.171		
03-Sep-14	0.348	0.087	0.176	0.314	0.198		
04-Sep-14	0.281	0.134	0.125	0.318	0.147		
05-Sep-14	0.355	0.191	0.158	0.285	0.106		
06-Sep-14	0.167	0.180	0.132	0.212	0.147		
07-Sep-14			Sunday				
08-Sep-14	0.349	0.083	0.117	0.327	0.098		
09-Sep-14			Holiday				
10-Sep-14	0.150	0.147	0.108	0.290	0.203		
11-Sep-14	0.198	0.121	0.087	0.211	0.285		
12-Sep-14	0.464	0.118	0.272	0.124	0.138		
13-Sep-14	0.174	0.215	0.093	0.241	0.156		
14-Sep-14			Sunday				
15-Sep-14	0.149	0.109	0.098	0.167	0.325		
16-Sep-14	0.154	0.166	0.158	0.335	0.241		
17-Sep-14	0.086	0.081	0.314	0.139	0.147		
18-Sep-14	0.098	0.139	0.227	0.093	0.151		
19-Sep-14	0.281	0.191	0.400	0.184	0.177		
20-Sep-14	0.119	0.145	0.188	0.174	0.132		
21-Sep-14			Sunday				
22-Sep-14	0.132	0.180	0.204	0.128	0.117		
23-Sep-14	0.211	0.142	0.165	0.227	0.114		
24-Sep-14	0.207	0.252	0.194	0.242	0.123		
25-Sep-14	0.151	0.086	0.164	0.291	0.120		
26-Sep-14	0.073	0.127	0.104	0.231	0.081		
27-Sep-14	0.395	0.172	0.102	0.235	0.196		
28-Sep-14		-	Sunday				
29-Sep-14	0.134	0.202	0.216	0.189	0.114		
30-Sep-14	0.154	0.126	0.236	0.335	0.157		



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

### ( Block 8 Foundation )

Monitoring Check Pts.	Trigger Levels			
Wolfforing Check I is.	Alert level	Alarm level	Action level	
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s	
#Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s	

Project Title:	ect Title: Central Police Station Conservation & Revitalization		Project No: WP20	01 1-Sep-2014	to	30-Sep-2014		
POINT		VM8-1	VM11-1#	VM11-2				
DATE	PD/(m)	mm/s	mm/s	mm/s				
19-Jun-2012	(Initial)	0.56	0.13	0.19				
1-Sep-2014		0.20	0.16	0.35				
2-Sep-2014		0.29	0.20	0.13				
3-Sep-2014		0.14	0.39	0.12				
4-Sep-2014		0.23	0.19	0.10				
5-Sep-2014		0.20	0.26	0.18				
6-Sep-2014		0.62	0.19	0.12				
7-Sep-2014					Sunday			
8-Sep-2014		0.20	0.20	0.08				
9-Sep-2014					Holiday			
10-Sep-2014		0.38	0.11	0.20				
11-Sep-2014		0.23	0.20	0.11				
12-Sep-2014		0.36	0.43	0.10				
13-Sep-2014		0.19	0.28	0.13				
14-Sep-2014					Sunday			
15-Sep-2014		0.36	0.43	0.13				
16-Sep-2014		0.12	0.12	0.09				
17-Sep-2014		0.13	0.33	0.14				
18-Sep-2014		0.22	0.27	0.20				
19-Sep-2014		0.34	0.24	0.16				
20-Sep-2014		0.29	0.15	0.12				
21-Sep-2014					Sunday			
22-Sep-2014		0.18	0.17	0.22				
23-Sep-2014		0.15	0.14	0.17				
24-Sep-2014		0.13	0.33	0.16				
25-Sep-2014		0.16	0.28	0.16				
26-Sep-2014		0.16	0.41	0.10				
27-Sep-2014		0.37	0.35	0.08				
28-Sep-2014					Sunday			
29-Sep-2014		0.29	0.22	0.17				
30-Sep-2014		0.32	0.31	0.16				

Mini-piles with post-pressurized grout in CDG and Steel Shear H-piles at Block 1, STREET 11SW-B/R18 11SW-B/R17-Shill King The Centrium CONT 11SW-B/R806 11SW-B/R23-11SW-B/R52 NG Kun-shing Chief Stractoral Engineer for BUILIPHG AUTHORITY 11SW-B/R24 W 1 9 MAR 2012 11SW-B/R53 11SW-B/R19-11SW-B/R174 11SW-B/R175-BD SUBMISSION wing Status 罗斯状识 LEGEND · 的文字是是是是一个一个一个一个 Chara and valify of altremones on sa 有有尺寸必能加工地指揮者非為資訊 STREET LIGHTING NO. 33488-A1 8S3-2/ 11SW-B/R19-11SW-B/R177 11SW-B/R55 EXISTING LY ELECTRICITY CABLE HERZOG&DEMEURON EXISTING TELECOMMUNICATION DUCT (HIJTCHISON OF OBAL COMMUNICATIONS LAMITED) EXISTING STORMWATER DRAIN ROCCO 许学 EXISTING FOUL SEWER R. JRP ARUP Projec 項註 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT EXISTING DRILLHOLE WITH 11SW-B/R54 STANDPIPE/PIEZOMETER Drawing Tale 整体 MONITORING LAYOUT PLAN 11SW-B/R178 8 PROPOSED BUILDING SETTLEMENT POINTS/THUTMETER RS174-1/RT174-PROPOSED INCLINOMETER TO BE BUILT IN BORIED PILE WALL OR PIPE PILE WALL 1:300**0**A1 K.C.(a) MOIES

JULIES SETLEMENT POINTS (UTI TO UT6)
SHALL ONLY BE INSTALLED AFTER EXCONATION
PERMIT IS OBTAINED, AS ALTERNATIVE.
SETTLEMENT POINTS (ISS AND ISSI) MAY BE
INSTALLED.
SHOULD UTI TO UTI6 BE RESTALLED, ISSIB AND
ISSID SHALL NOT BE REQUIRED.
JETHER UTILITIES SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (UTI TO
UT6) OR GROUND SETTLEMENT MARKETS (USI TO
COMMENCEMENT OF OLD BALLEY WHICE ELS
WORKS. 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS PROPOSED UTILITY MONITORING POINTS PROPOSED VIBRATION MONITORING POINTS MONITORING ZONE A PROPOSED ADDITIONAL DESELHOLE



( Block 17 Foundation Works )							
Monitoring Check Pts.		Trigger Levels					
Monitoring Check Fts.	Alert level	Alarm level	Action level				
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s				
# Vibration at largest span of	5.0mm/s	6.0mm/s	7.5mm/s				
highest Structural level	5.0mm/s	0.0mm/s					

Project Title: Central Police Station Conservation & Revitalization			tion	Project No: WP201 1-Sep-2014 to			30-Sep-2014	
POINT		VM17-1	VM17-3 #					
DATE	PD/(m)	mm/s	mm/s					
19-Jun-2012 (	Initial)	0.13	0.37					
Surveying Date								
1-Sep-2014		0.53	0.07					
2-Sep-2014		0.18	0.11					
3-Sep-2014		0.14	0.10					
4-Sep-2014		0.17	0.14					
5-Sep-2014		0.40	0.22					
6-Sep-2014		0.21	0.11					
7-Sep-2014					Sunday			
8-Sep-2014		0.20	0.08					
9-Sep-2014					Holiday			
10-Sep-2014		0.13	0.12					
11-Sep-2014		0.20	0.14					
12-Sep-2014		0.16	0.17					
13-Sep-2014		0.21	0.11					
14-Sep-2014					Sunday			
15-Sep-2014		0.18	0.12					
16-Sep-2014		0.13	0.08					
17-Sep-2014		0.10	0.08					
18-Sep-2014		0.08	0.15					
19-Sep-2014		0.17	0.07					
20-Sep-2014		0.12	0.14					
21-Sep-2014				<u>-</u>	Sunday			
22-Sep-2014		0.16	0.12					
23-Sep-2014		0.21	0.19					
24-Sep-2014		0.15	0.87					
25-Sep-2014		0.17	0.10					
26-Sep-2014		0.13	0.09					
27-Sep-2014		0.18	0.10					
28-Sep-2014	<u>'</u>			•	Sunday	<u> </u>		
29-Sep-2014		0.17	0.77					
30-Sep-2014		0.18	0.13					

Bored Pile Walls / Pipe Pile Walls at Block 50 WYNDHAM & B.D. Ref. No. 原宇書標案編成 3/3053/11 (日に 17 & 5 b) (Hは)(5) STREET 11SW-B/R18 No.编集 Des No. 編集 Description 說明 Date 日期 Approved 宴
- BD SUBMISSION 12/11 JS 11SW-B/R22 A DA TONHTUBAA Shiu King The Centrium Court 11SW-B/R805 11SW-B/R806 11SW-B/R23 11SW-B/R52 Plan Approved RS53-17 RT53-17 NG Kin<sup>1</sup>shing Chief Structural Engineer for BUILDING AUTHORITY 11SW-B/R24 BS14-13/2 PMH-4 20 FEB 2012 RS19-7 BS3-7 -11SW-B/R53 -11SW-B/R176 →IN1-3 BS3-5/ BT3-3 **★**VM13-1/ 11SW-B/R19 BS3-8/ BT3-4 11SW-B/R174 BS14-7 11SW-B/R175 BD SUBMISSION Drawing Status 製圖狀況 36.73 LEGEND 8339<del>0</del>0 E Do not take measurements 切勿直接從圖紙上量度尺寸 Check and verify all dimensions or site 所有尺寸必須在工地現場複查及署核。 EXISTING FRESH WATER MAIN and all other related drawings. 此圈抵必须與双格以明書及其它有關國紙一併閱讀。 EXISTING SALT WATER MAIN EXISTING STREET LIGHTING NO. 33488-A1 BS2-3 BS3-2/ 11SW-B/R19 EXISTING STREET LIGHTING CABLE 11SW-B/R177 署馬會文物保育有限公司 1SW-B/R55-30 RS177-2 BS17-BT17-EXISTING LV ELECTRICITY CABLE HERZOG & DE MEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN ROCCO 许字严 ADH3(S/P) DH19(BS17-11/ PROPOSED FOUL SEWER E & M Engineer JRP SITE BOUNDARY ARUP 11SW-B/R54 EXISTING RETAINING WALL ryoped দুল CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT → DH1 (S,P) UT: EXISTING DRILLHOLF WITH STANDPIPE/PIEZOMETER Drawing Title III & UT2 RS178−1/ ⊠ RS178−1/ BS1-1/BT1-1 PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER MONITORING LAYOUT PLAN OEC 23 P 2:09 PROPOSED RETAINING WALL SETLEMENT POINTS/TILTMETER RS174-1/RT174-1 PERMIT IS CRITAINED AS ALTERNATIVE PERMIT IS CRITAINED AS ALTERNATIVE 1 **→**IN1-1 PERSONNES OBTAINED AS ALTERNATIVE SETTLEMENT FORMY (SELECTION OF SELECTION OF STATE OF SETTLEMENT AS AS AS OF SETTLEMENT AS AS AS OF SETTLEMENT HARRES SETTLEMENT HARRES SUIT TO 19 THE LOCAL AS SETTLEMENT HARRES SUIT TO 19 THE LOCAL ASSOCIATION OF SETTLEMENT HARRES SUIT TO 19 THE SETTLEMENT SUI PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE OR FIPE PILE WALL K.C.Lai 1:300@A1 Ø<sup>GS1</sup> Drawing No. 国状 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT POINTS 2011 UT1 Loon PROPOSED UTILITY MONITORING POINTS SETTINES WITH THE STETT LEMENT ATTENTY OF CUT BALLEY WING TO THE CONTROL OF CONTROL OF CONTROL OF CUT BALLEY WING TELS WEEKS **→**VM1−1 9817 PROPOSED VIBRATION MONITORING POINTS ACH1(S/P) PROPOSED ADDITIONAL DRILLHOLE



### (Bored Pile Walls / Pipe Pile Walls at Block 50)

Monitoring Check Pts.	Trigger Levels				
Monitoring Check Fts.	Alert level	Alarm level	Action level		
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
# Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s		

Project Title:	Central P	Police Station	Conservation &	& Revitalization	n	Project No: W	/P201	1-Sep-2014	to	30-Sep-2014
POINT		VM8-1	VM11-1#	VM11-2	VM12-1#	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3 #
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (	Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
1-Sep-2014		0.20	0.16	0.35	0.12	0.14	0.10	0.53	0.18	0.07
2-Sep-2014		0.29	0.20	0.13	0.39	0.14	0.13	0.18	0.08	0.11
3-Sep-2014		0.14	0.39	0.12	0.20	0.19	0.10	0.14	0.20	0.10
4-Sep-2014		0.23	0.19	0.10	0.16	0.15	0.07	0.17	0.14	0.14
5-Sep-2014		0.20	0.26	0.18	0.16	0.10	0.10	0.40	0.20	0.22
6-Sep-2014		0.62	0.19	0.12	0.15	0.14	0.09	0.21	0.19	0.11
7-Sep-2014						Sunday				
8-Sep-2014		0.20	0.20	0.08	0.17	0.09	0.13	0.20	0.09	0.08
9-Sep-2014						Holiday				
10-Sep-2014		0.38	0.11	0.20	0.23	0.19	0.09	0.13	0.11	0.12
11-Sep-2014		0.23	0.20	0.11	0.32	0.20	0.10	0.20	0.12	0.14
12-Sep-2014		0.36	0.43	0.10	0.18	0.12	0.08	0.16	0.14	0.17
13-Sep-2014		0.19	0.28	0.13	0.21	0.21	0.12	0.21	0.16	0.11
14-Sep-2014						Sunday				
15-Sep-2014		0.36	0.43	0.13	0.32	0.14	0.10	0.18	0.15	0.12
16-Sep-2014		0.12	0.12	0.09	0.16	0.10	0.09	0.13	0.13	0.08
17-Sep-2014		0.13	0.33	0.14	0.14	0.12	0.12	0.10	0.14	0.08
18-Sep-2014		0.22	0.27	0.20	0.31	0.20	0.14	0.08	0.07	0.15
19-Sep-2014		0.34	0.24	0.16	0.25	0.17	0.10	0.17	0.20	0.07
20-Sep-2014		0.29	0.15	0.12	0.19	0.12	0.11	0.12	0.28	0.14
21-Sep-2014			•			Sunday	•			•
22-Sep-2014		0.18	0.17	0.22	0.24	0.18	0.10	0.16	0.23	0.12
23-Sep-2014		0.15	0.14	0.17	0.18	0.15	0.15	0.21	0.22	0.19
24-Sep-2014		0.13	0.33	0.16	0.24	0.24	0.12	0.15	0.10	0.87
25-Sep-2014		0.16	0.28	0.16	0.30	0.13	0.18	0.17	0.10	0.10
26-Sep-2014		0.16	0.41	0.10	0.22	0.09	0.10	0.13	0.13	0.09
27-Sep-2014		0.37	0.35	0.08	0.22	0.11	0.34	0.18	0.10	0.10
28-Sep-2014						Sunday		_		
29-Sep-2014		0.29	0.22	0.17	0.15	0.12	0.21	0.17	0.12	0.77
30-Sep-2014		0.32	0.31	0.16	0.29	0.22	0.32	0.18	0.11	0.13

Shaft Granted Pre-boved H-piles at Block 51 (Arbithnot Wing) WYNDHAM & STREET 11SW-B/R18 11SW-B/R22 BO SUBMISSION (50) 12/1
BO SUBMISSION (01) 03/1:
BO SUBMISSION (01) 03/1:
BO SUBMISSION (17) 03/1:
BO SUBMISSION RV BATCH 1 03/1:
FOR INFROMATION (50) 03/1: 11SW-B/R17-Shiu King The Centrium Court 11SW-B/R23-115W-B/R52 Chief Streetural Engineer for BUILDING AUTRORITY -11SW-B/R24 W BS13-4 13 JUL 2012 - 11SW-B/R53 -11SW-8/R176 ₩13-1/ 11SW-B/R19-B\$1-14 853-8/ 813-4 11SW-B/R174-MONITORING ZONE A 11SW-B/R175-BD SUBMISSION Drawing Status 製腦狀況 Do not take measure/cents o 切的直接位额统上偏径尺寸。 Chock and verify 20 corrections on th 所有尺寸必須在工地批學資金以棄紙 Read this displayed on computation was used at other related displaying.

企業就分享其他近郊市及其它有新疆以一场阅读。 EXISTING SALT WATER WAIN EXISTING STREET LICHTING NO. 33488-AT 11SW-8/R19 11SW-B/R177-EXISTING STREET LIGHTING CABLE 要馬會支票部分有限公司 EXISTING TELECOMMUNICATION DUCT **最終終於國際首都於2016年11月2日** 17月2日 EXISTING FOUL SEWER ROCCO DH19(BS17-11) JRP ARUP EXISTING RETAINING WALL Project WE CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT 11SW-B/R54 Drawing Tale M.E.
MONITORING LAYOUT PLAN BS1-1/BI1-1 PROPOSED BUILDING SETTLEMENT POINTS/TICTMETER RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER 1:3008A1 K.C.L.cs AL Frankrig No. 36th C.C.L.cs AL Frankrig No. 36 PROPOSED GROUND SETTLEMENT POINTS ₩. PROPOSED UTILITY MONITORING POINTS 2,4 **₩**1-1 PROPOSED VIBRATION MONITORING POINTS CHAPTER ERAC YORY PROPOSED ADDITIONAL ORILLHOLE Motore Participal county Within

### (Shaft Grouted Pre-bored H-piles at Block 51)



Manitanina Chael-Dto	Trigger Levels			
Monitoring Check Pts.	Alert level	Alarm level	Action level	
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s	

Project Title	Central I	Police Station	Conservation	& Revitalization	Project No: WP201	1-Sep-2014	to	o 30-Sep-2014		
POINT		VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
1-Sep-2014		0.09	0.39	0.22						
2-Sep-2014		0.11	0.21	0.43						
3-Sep-2014		0.13	0.20	0.14						
4-Sep-2014		0.09	0.25	0.20						
5-Sep-2014		0.15	0.13	0.33						
6-Sep-2014		0.08	0.20	0.20						
7-Sep-2014					Sunday					
8-Sep-2014		0.11	0.15	0.20						
9-Sep-2014					Holiday					
10-Sep-2014		0.09	0.19	0.17						
11-Sep-2014		0.08	0.30	0.19						
12-Sep-2014		0.13	0.14	0.36						
13-Sep-2014		0.14	0.16	0.25						
14-Sep-2014					Sunday					
15-Sep-2014		0.11	0.39	0.29						
16-Sep-2014		0.07	0.11	0.12						
17-Sep-2014		0.06	0.15	0.33						
18-Sep-2014		0.10	0.13	0.18						
19-Sep-2014		0.11	0.11	0.35						
20-Sep-2014		0.14	0.18	0.26						
21-Sep-2014					Sunday					
22-Sep-2014		0.10	0.12	0.20						
23-Sep-2014		0.12	0.16	0.11						
24-Sep-2014		0.08	0.21	0.20						
25-Sep-2014		0.09	0.14	0.23						
26-Sep-2014		0.08	0.27	0.34						
27-Sep-2014		0.19	0.20	0.20						
28-Sep-2014					Sunday					
29-Sep-2014		0.17	0.14	0.22						
30-Sep-2014		0.16	0.22	0.14						

### Annex M

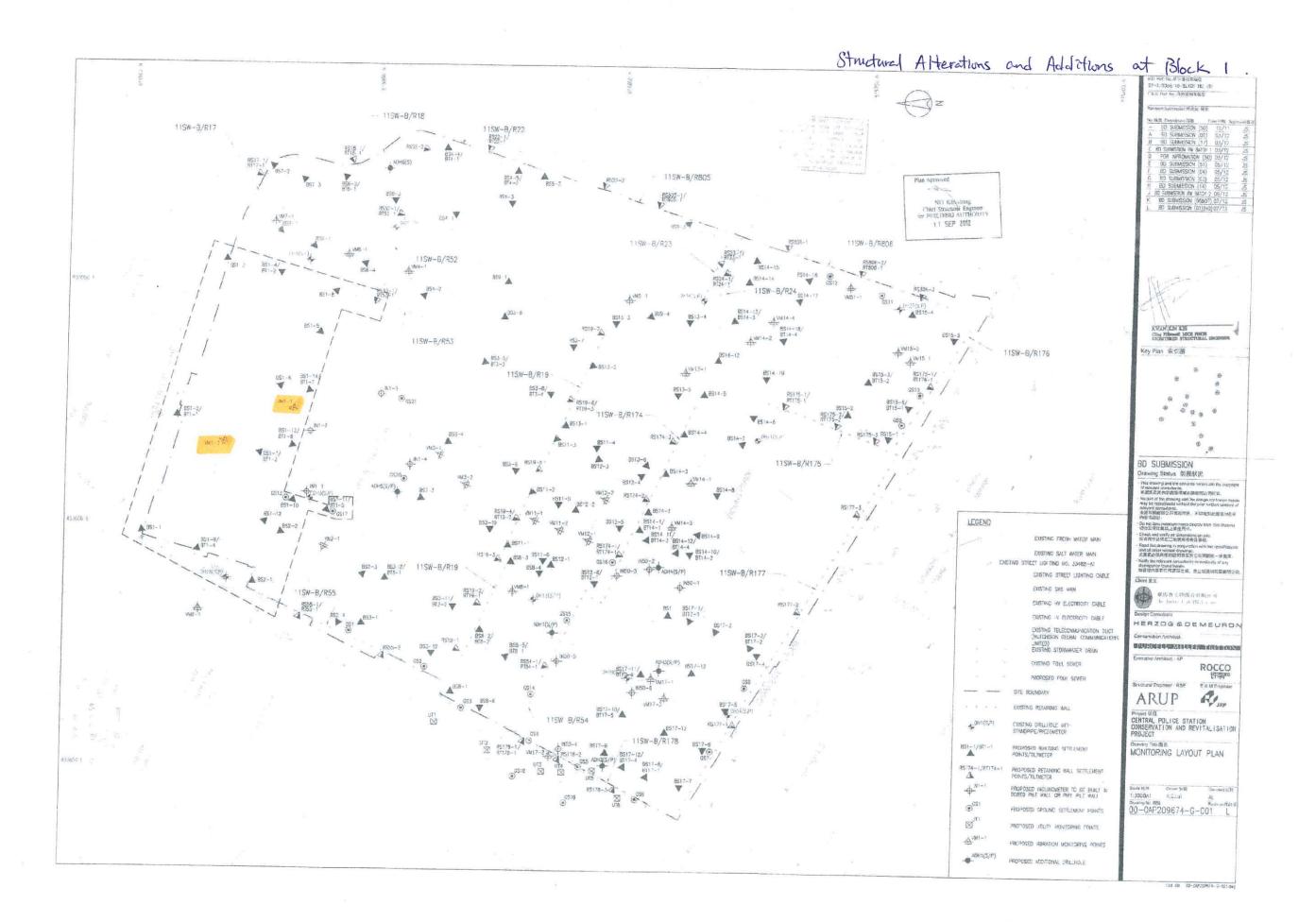
Records of Vibration Monitoring for Other Construction Works





	( Block 14 Str	ructural A&A )						
Manitanina Chasla Dta		Trigger Levels						
Monitoring Check Pts.	Alert level	Alarm level	Action level					
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s					
# Vibration at largest span of	5 O	C 0	7.5mm/s					
highest Structural level	5.0mm/s	6.0mm/s						

Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Proje	ect No: WP201	1-Sep-2014	to	30-Sep-201
POINT		VM14-1#	VM14-2 #	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (I	nitial)	0.103	0.112	0.147	0.136				
1-Sep-2014		0.26	0.24	0.10	0.09				
2-Sep-2014		0.14	0.23	0.13	0.11				
3-Sep-2014		0.17	0.19	0.10	0.13				
4-Sep-2014		0.35	0.29	0.07	0.09				
5-Sep-2014		0.17	0.20	0.10	0.15				
6-Sep-2014		0.26	0.43	0.09	0.08				
7-Sep-2014						Sunday			
8-Sep-2014		0.26	0.15	0.13	0.20				
9-Sep-2014						Holiday			
10-Sep-2014		0.17	0.37	0.09	0.17				
11-Sep-2014		0.34	0.29	0.10	0.08				
12-Sep-2014		0.13	0.22	0.08	0.13				
13-Sep-2014		0.17	0.24	0.12	0.14				
14-Sep-2014						Sunday			
15-Sep-2014		0.32	0.52	0.10	0.11				
16-Sep-2014		0.15	0.20	0.09	0.07				
17-Sep-2014		0.17	0.18	0.12	0.06				
18-Sep-2014		0.22	0.16	0.14	0.10				
19-Sep-2014		0.12	0.32	0.10	0.11				
20-Sep-2014		0.12	0.18	0.11	0.14				
21-Sep-2014					•	Sunday			•
22-Sep-2014		0.12	0.19	0.10	0.10				
23-Sep-2014		0.18	0.14	0.15	0.12				
24-Sep-2014		0.20	0.29	0.12	0.08				
25-Sep-2014		0.22	0.15	0.18	0.09				
26-Sep-2014		0.14	0.20	0.10	0.08				
27-Sep-2014		0.11	0.20	0.34	0.19				
28-Sep-2014						Sunday			
29-Sep-2014		0.16	0.25	0.21	0.17				
30-Sep-2014		0.09	0.16	0.32	0.16			_	



Structural Additions and Alterations at Block 11 WYNDHAM \$ STREET 22-3/3066/10/BLK11 (HU) (S) F.S.D. Ref No. 消防療機築編號 11SW-B/R18 11SW-B/R17 Shiu King The Centrium Gourt - 11SW-B/R806 11SW-B/R23-11SW-B/R52 GS12 - 11SW-B/R24 BS14-17 CHIONG Kam-yueng lacky Chief Structural Engineer for BUILDING AUTHORITY BS13-3 - 3 OCT 2612 ₩15-2 11SW-B/R53 11SW-B/R176 **Д**VM15−1 BS3-5/ BT3-3 11SW-B/R19 BS1-14/ BT1-7 11SW-8/R174 ₩BS14-6 DH21(S,P) BD SUBMISSION 11SW-B/R175-Drawing Status 製圖狀況 GS20 retevant consultants。 未經有歸解問公司書而同意。不包裝製此區級內任何 次交前投外 LEGEND Do not take measurements directly from 切勿直沒從雪紙上豐度尺寸。 Check and verify all dimensions on site 符有尺寸必須在工地現場按查及審核 EXISTING FRESH WATER MAIN Read this drawing in conjunction with the specification and all other related drawings.
 此鹽纸必須與根格投明實及其它有關團級一併閱讀。 IN50-2 -3 — ADH4(S/P) EXISTING STREET LIGHTING NC. 33488-A1 discrepancy found herein, 如發現內容存任何朦朧之處。應立刻通知初聲明問公元 BS2-3 BS3-2/ 11SW-B/R19 EXISTING STREET LIGHTING CABLE 11SW-B/R177 -11SW-B/R55 EXISTING HV ELECTRICITY CABLE EXISTING IN FLECTRICITY CARLE HERZOG & DEMEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN EXISTING FOUL SEWER ROCCO PROPOSED FOUL SEWER Structural Engineer / RSE E & M Engineer JRP ARUP EXISTING RETAINING WALL Project ঘটি CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT DH1(S,P) 11SW-B/R54 EXISTING DRILLHOLE WITH BS17-13 - 11SW-B/R178 STANDPIPE/PIEZONETER Drawing Title 劉名 BS1-1/BT1-1 MONITORING LAYOUT PLAN RS174-1/RT174-1 PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL 1:300名1 K.C.Lai AL Revision博改版 00-0AP209674-G-001 M PROPOSED GROUND SETTLEMENT POINTS U∏1 ⊠ PROPOSED UTILITY MONITORING POINTS PROPOSED VIBRATION MONITORING POINTS ADH1(S/P) PROPOSED ADDITIONAL DRILLHOLE Cod Re : 00-0AP2095/4-G-001.deg



# **Vibration Monitoring Record (September)**

	Block 1		Block 2	Blo	ck 3	Block 4	Block 6 & 7		Block 9	Bloc	k 11	Block 12		Block 13	Block 15	
Point	VM1-1	VM1-2	VM2-1	VM3-1	VM3-2	VM4-1	VM6-1	VM7-1	VM9-1	VM11-1	VM11-2	VM12-1	VM12-2	VM13-1	VM15-1	VM15-2
Date	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	mm/s
01-Sep-14	0.169	0.158	0.096	0.132	0.328	0.367	0.294	0.169	0.115	0.156	0.354	0.123	0.139	0.174	0.216	0.389
02-Sep-14	0.091	0.136	0.112	0.385	0.171	0.219	0.316	0.284	0.103	0.201	0.132	0.385	0.142	0.261	0.426	0.213
03-Sep-14	0.348	0.087	0.176	0.314	0.198	0.165	0.298	0.158	0.192	0.394	0.117	0.205	0.189	0.224	0.143	0.196
04-Sep-14	0.281	0.134	0.125	0.318	0.147	0.196	0.339	0.196	0.105	0.189	0.098	0.155	0.150	0.143	0.201	0.249
05-Sep-14	0.355	0.191	0.158	0.285	0.106	0.116	0.591	0.214	0.162	0.259	0.177	0.161	0.098	0.198	0.328	0.125
06-Sep-14	0.167	0.180	0.132	0.212	0.147	0.194	0.281	0.358	0.136	0.189	0.121	0.152	0.136	0.105	0.198	0.202
07-Sep-14	Sunday															
08-Sep-14	0.349	0.083	0.117	0.327	0.098	0.224	0.210	0.318	0.139	0.198	0.084	0.169	0.093	0.182	0.201	0.149
09-Sep-14	Holiday															
10-Sep-14	0.150	0.147	0.108	0.290	0.203	0.249	0.321	0.194	0.088	0.109	0.195	0.228	0.187	0.231	0.165	0.187
11-Sep-14	0.198	0.121	0.087	0.211	0.285	0.351	0.201	0.245	0.192	0.198	0.109	0.319	0.198	0.396	0.189	0.298
12-Sep-14	0.464	0.118	0.272	0.124	0.138	0.169	0.144	0.176	0.154	0.429	0.104	0.182	0.118	0.169	0.364	0.142
13-Sep-14	0.174	0.215	0.093	0.241	0.156	0.221	0.177	0.207	0.204	0.278	0.133	0.210	0.205	0.174	0.287	0.162
14-Sep-14		•	•	•	•			Sur	nday	•			•			
15-Sep-14	0.149	0.109	0.098	0.167	0.325	0.335	0.212	0.371	0.257	0.432	0.129	0.322	0.136	0.213	0.290	0.394
16-Sep-14	0.154	0.166	0.158	0.335	0.241	0.211	0.181	0.138	0.110	0.118	0.086	0.159	0.099	0.151	0.122	0.108
17-Sep-14	0.086	0.081	0.314	0.139	0.147	0.121	0.214	0.109	0.137	0.325	0.135	0.136	0.117	0.213	0.331	0.152
18-Sep-14	0.098	0.139	0.227	0.093	0.151	0.117	0.148	0.241	0.152	0.269	0.199	0.306	0.197	0.179	0.178	0.131
19-Sep-14	0.281	0.191	0.400	0.184	0.177	0.298	0.394	0.322	0.114	0.243	0.164	0.246	0.165	0.290	0.351	0.114
20-Sep-14	0.119	0.145	0.188	0.174	0.132	0.178	0.288	0.244	0.105	0.149	0.117	0.188	0.121	0.187	0.287	0.177
21-Sep-14								Su	nday							
22-Sep-14	0.132	0.180	0.204	0.128	0.117	0.155	0.208	0.178	0.099	0.166	0.217	0.244	0.175	0.103	0.211	0.122
23-Sep-14	0.211	0.142	0.165	0.227	0.114	0.149	0.172	0.204	0.121	0.143	0.173	0.177	0.154	0.144	0.188	0.162
24-Sep-14	0.207	0.252	0.194	0.242	0.123	0.336	0.128	0.169	0.168	0.325	0.164	0.236	0.242	0.347	0.196	0.211
25-Sep-14	0.151	0.086	0.164	0.291	0.120	0.244	0.417	0.219	0.139	0.282	0.162	0.296	0.125	0.179	0.228	0.135
26-Sep-14	0.073	0.127	0.104	0.231	0.081	0.205	0.239	0.114	0.196	0.408	0.102	0.217	0.090	0.231	0.341	0.265
27-Sep-14	0.395	0.172	0.102	0.235	0.196	0.124	0.219	0.495	0.089	0.351	0.081	0.217	0.112	0.179	0.201	0.198
28-Sep-14	Sunday															
29-Sep-14	0.134	0.202	0.216	0.189	0.114	0.165	0.347	0.198	0.167	0.221	0.165	0.145	0.116	0.198	0.224	0.135
30-Sep-14	0.154	0.126	0.236	0.335	0.157	0.078	0.278	0.271	0.122	0.312	0.160	0.287	0.224	0.214	0.139	0.216