MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: *Ninth Monthly EM&A Report* (1 July to 31 July 2012)

Issue Date: August 2012

Environmental Resources Management

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Central Police Station Conservation and Revitalisation Project: *Ninth Monthly EM&A Report* (From 1 July to 31 July 2012)

Issue Date: August 2012

Reference 0095646

For and on behalf of ERM-Hong Kong, Limited	
Approved by: Frank Wan Signed: Aarche 4	
Position: Partner	
Certified by:)
Date: <u>13 August 2012</u>	

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

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Date: 13 August 2012

By Fax (2723 5660) and Post

ERM-Hong Kong Limited, 21/F Lincoin House, 979 King's Road, Taikoo Place, Island East, Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project Verification of Monthly EM&A Report No.9

We refer to your letter dated 13 August 2012 regarding the Monthly EM&A Report No.9. 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.

Grafab

Sharifah Or Independent Environmental Checker

c.c. Mr. KOH Say Wee, HKJC Mr. Charles Kung, Rocco Design Architect Fax: 2504 2903 Fax: 2529 2135

1	INTRODUCTION	1
1.1	Purpose of the Report	1
1.2	STRUCTURE OF THE REPORT	1
2	PROJECT INFORMATION	3
2.1	BACKGROUND	3
2.2	SITE DESCRIPTION	3
2.3	Construction Activities	3
2.4	PROJECT ORGANISATION	4
2.5	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	4
3	ENVIRONMENTAL MONITORING REQUIREMENTS	6
3.1	Noise Monitoring	6
3.1.1	Monitoring Location	6
3.1.2	Monitoring Parameters, Frequency and Programme	6
3.1.3	Monitoring Equipment and Methodology	6
3.1.4	Event / Action Plan	7
3.1.5	Mitigation Measures	7
3.2	CULTURAL HERITAGE	7
3.2.1	Vibration Monitoring	7
3.2.2	Mitigation Measures	9
3.3	LANDSCAPE AND VISUAL MONITORING	9
3.3.1	Mitigation Measures	9
3.4	ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS	9
4	IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS	10
5	MONITORING RESULTS	11
5.1	Noise	11
5.2	Cultural Heritage	11
5.3	LANDSCAPE AND VISUAL	11
5.4	WASTE MANAGEMENT	12
6	ENVIRONMENTAL SITE INSPECTION	14
7	ENVIRONMENTAL NON-CONFORMANCE	15
7.1	SUMMARY OF MONITORING EXCEEDANCE	15
7.2	SUMMARY OF ENQUIRY	15
7.3	SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE	15
7.4	SUMMARY OF ENVIRONMENTAL COMPLAINT	15
7.5	SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION	16

8 FUTURE KEY ISSUES

8.1	Key Issues for the Coming Month	17
8.2	MONITORING SCHEDULE FOR THE NEXT MONTH	17
8.3	CONSTRUCTION PROGRAMME FOR THE NEXT MONTH	17
9	CONCLUSIONS	18

17

LIST OF TABLES

Table 2.1	Summary of Construction Activities Undertaken from 1 July to
	31 July 2012

- Table 2.2
 Summary of Environmental Licensing, Notification and Permit Status
- Table 3.1
 Construction Phase Noise Monitoring Station
- Table 3.2 Noise Monitoring Equipment
- Table 3.3 Action and Limit Levels for Construction Noise Monitoring
- Table 3.4 Alert, Alarm and Action (AAA) Levels for Vibration Monitoring
- Table 3.5 Event and Action Plan for Vibration Monitoring
- Table 4.1 Status of Required Submissions
- Table 5.1 Findings of Monthly Tree Inspection in the Reporting Period
- Table 5.2 Quantities of Waste Generated from the Project
- Table 7.1 Summary of Complaint Received
- Table 8.1Construction Works to be Undertaken in the Coming One
Month

LIST OF ANNEXES

- Annex A Locations of Works Areas and the Surroundings
- Annex A1 Project Location
- Annex A2 Declared Monuments within the Project Site
- Annex A3 Site Layout Plan marked with Works
- 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 the Next Month
- Annex E Calibration Reports for Calibrators and Sound Level Meters
- Annex F Event /Action Plans for Noise
- Annex G Summary of Implementation Status
- Annex H Noise Monitoring Results
- Annex I Construction Programme for the Project

- Annex J Tree Inspection Reports
- Annex K Environmental Complaint, Environmental Summon and Prosecution Log
- Annex L Vibration Monitoring Locations for Demolition Works
- Annex M Vibration Monitoring Locations for Trial Piling Works
- Annex N Records of Vibration Monitoring for Other Construction Works

EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the ninth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 July to 31 July 2012 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:

- Underpinning works, strengthening works and structural alteration works;
- Trial piling works (grouting works); and
- Preservation by record.

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
•	Joint heritage site inspection	1 time
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration Monitoring for other construction works	23 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. An exceedance of Action Level of noise was recorded during the reporting period. No exceedance of Limit Levels of construction noise was recorded during the reporting period.

Cultural Heritage

No demolition works or trial piling works were undertaken and no vibration measurement events for demolition works or trial piling works were carried out during the reporting period. 23 numbers of vibration monitoring were carried out in July for the structural alternations and additions works at Block 8. No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audit was conducted on 12 July 2012. The Contractor has generally implemented the mitigation measures as recommended.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 19 July 2012 by the arborist during the reporting period. Some recommended actions as advised in the last reporting period have not yet been performed by the Contractor and a few additional observations have been identified during the July inspection.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 217.98 tonnes of inert C&D material were generated during the reporting period. 23.22 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 1,750 kg of metals and 302 kg of paper/cardboard packaging were produced and were sent to recyclers for recycling. No plastics or chemical waste were generated 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 12 July 2012. Details of the audit finding are presented in *Section 6*.

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

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

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

No enquiry was received during the reporting period.

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

One complaint was received during the reporting period.

No summon/prosecution was received during the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

- Underpinning works, strengthening works and structural alteration works;
- Trial piling works (loading testing);
- Piling works; and

• Preservation by record.

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 ninth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 July** to **31 July 2012**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1: Introduction

details the scope and structure of the report.

Section 2: Project Information

summarises background and scope of the Project, site description, project organization and 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 Requirement

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 weekly site inspections undertaken within the reporting period.

Section 7: Environmental Non-conformance

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

Section 8: Future Key Issues

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

Section 9: Conclusions

2.1 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 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 2.1Summary of Construction Activities Undertaken from 1 July to 31 July 2012

Construction Activities Undertaken

- Underpinning works, strengthening works and structural alteration works;
- Trial piling works (grouting works); and
- Preservation by record.

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 <i>Air</i> <i>Pollution Control</i> <i>Ordinance</i>	-	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

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012.	EPD's letter (EPD's ref:() in EPAC/A/4/000/23 3) dated 18 January 2012.
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	-

3.1 NOISE MONITORING

3

3.1.1 Monitoring Location

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

Table 3.1Construction Phase Noise Monitoring Station

Monitoring Location	tion 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 3.2Noise Monitoring Equipment

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

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

Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 dB.

3.1.4 Event / Action Plan

Table 3.3Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring	Action Level	Limit Level,	Remark
Location		L _{eq(30mins), dB(A)}	
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.

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.

Baseline Monitoring

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

Vibration Monitoring for Demolition Works

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

Vibration Monitoring for Trial Piling Works

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

Vibration Monitoring for Other Construction Works

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

Alert, Alarm and Action Levels

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

Table 3.4Alert, 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 3.5Event and Action Plan for Vibration Monitoring

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

3.2.2 *Mitigation Measures*

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

3.3 LANDSCAPE AND VISUAL MONITORING

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

3.3.1 *Mitigation Measures*

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

3.4 Environmental Requirements in Contract Documents

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

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has generally implemented environmental mitigation measures 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 4.1Status of Required Submissions

4

Submission		Submission Date
EP Condition		
Condition 3.4	Eighth Monthly EM&A Report	17 July 2012

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 Limit Levels of construction noise was recorded during the reporting period. An exceedance of Action Level was recorded during the reporting period. The investigation of exceedance is presented in *Section 7.4*.

5.2 CULTURAL HERITAGE

No demolition works were carried out during the reporting period and no vibration monitoring for the demolition works were conducted in July 2012.

No trial piling works were reported by the Contractor during the reporting period and no vibration monitoring for the trial piling works were conducted in July 2012.

23 numbers of vibration monitoring were carried out in July for the underpinning works at Block 8. The monitoring readings are presented in *Annex N*.

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

Monthly heritage site audit was conducted on 12 July 2012 by the Heritage Checker. The Heritage Checker commented that the stacking of Building 8 doors in Building 06 was not adequate. The Contractor has been advised to provide additional support to doors at high level or stack the doors on their long length. The follow-up actions recommended in the June audit have been implemented.

5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 19 July 2012 and major findings and recommendations in the reporting period are summarised as *Table 5.1.* The tree inspection report is contained in *Annex J*.

Table 5.1Findings of Monthly Tree Inspection in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observations / Recommendations
Tree -5	Mangifera indica	Good	• To trim the lower branches.
Tree -6	Aleurites moluccana	Fair	• No further action required.
Tree-7	Aleurites moluccana	Fair	• No further action required.
Tree-8	Plumeria rubra	Fair	• No further action required.
Tree-9	Araucaria cunninghamia	Fair	• No further action required.
Tree-11	Dracaena marginata	Fair	To remove the dead branches;To remove litter and weeds.

Some recommendations in June were yet to be implemented at the time of the site inspection in July, including trimming of lower branches in Tree-5 and the removal of dead branches in Tree-11. At the time of inspection, Tree-9 did not emit transparent juice on the cavity, which was observed during the site inspection in June. Litter and weeds were observed at the planter of Tree-11 and should be removed properly.

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. 1,750 kg of metals and 302 kg of paper/cardboard packaging were generated and were sent to recyclers for recycling. No plastics or chemical waste were generated during the reporting period.

Table 5.2Quantities of Waste Generated from the Project

Month /	Quantity						
Year	C&D	C&D	Chemical Waste		Recycled materials		
	Materials	Materials					
	(inert) ^(a)	(non-inert) ^(b)	Solid	Liquid	Paper /	Plastics	Metals
					cardboard		
July 2012	217.98	23.22	0 kg	0 L	302 kg	0 kg	1,750 kg
	tonnes	tonnes					
Notes:							
	&D materials	include bricks,	concret	e, buildin	g debris, rubbl	e and excava	ated soil.

(b) Non-inert C&D materials include wastes such as general refuse which were disposed of at SENT Landfill and recyclable materials are paper, cardboard, plastics and metals. The figure presented under non-inert C&D materials represents quantities of non-recyclable materials. Recycled materials are reported separately. Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 12 July 2012. There was no non-compliance recorded during the site inspection.

Recommendations in June have been implemented by the Contractor at the time of the July inspection, including:

• The Contractor has covered the holes on the rubbish bins near the site office with plastic sheets. Stagnant water inside the rubbish bins has also been removed.

No major issue with environmental implications was observed during the site inspection.

6

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF MONITORING EXCEEDANCE

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

7.2 SUMMARY OF ENQUIRY

No enquiry was received 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

A complaint about noise nuisance was received by Gammon Construction Limited (the Contractor) via the Police on 20 July 2012.

Table 7.1Summary of Complaint Received

Date of Complaint Received by the Contractor	Means by which complaint was received	Nature of complaint
20 July 2012	Police	Noise nuisance

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

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

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

7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summon was received during the reporting period.

8 FUTURE KEY ISSUES

8.1 KEY ISSUES FOR THE COMING MONTH

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

Table 8.1Construction Works to be Undertaken in the Coming Month

Work to be taken

- Underpinning works, strengthening works and structural alteration works;
- Trial piling works (loading testing);
- Piling works; and
- Preservation by record.

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*.

CONCLUSIONS

The Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 July to 31 July 2012 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

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

A complaint was received during the reporting period.

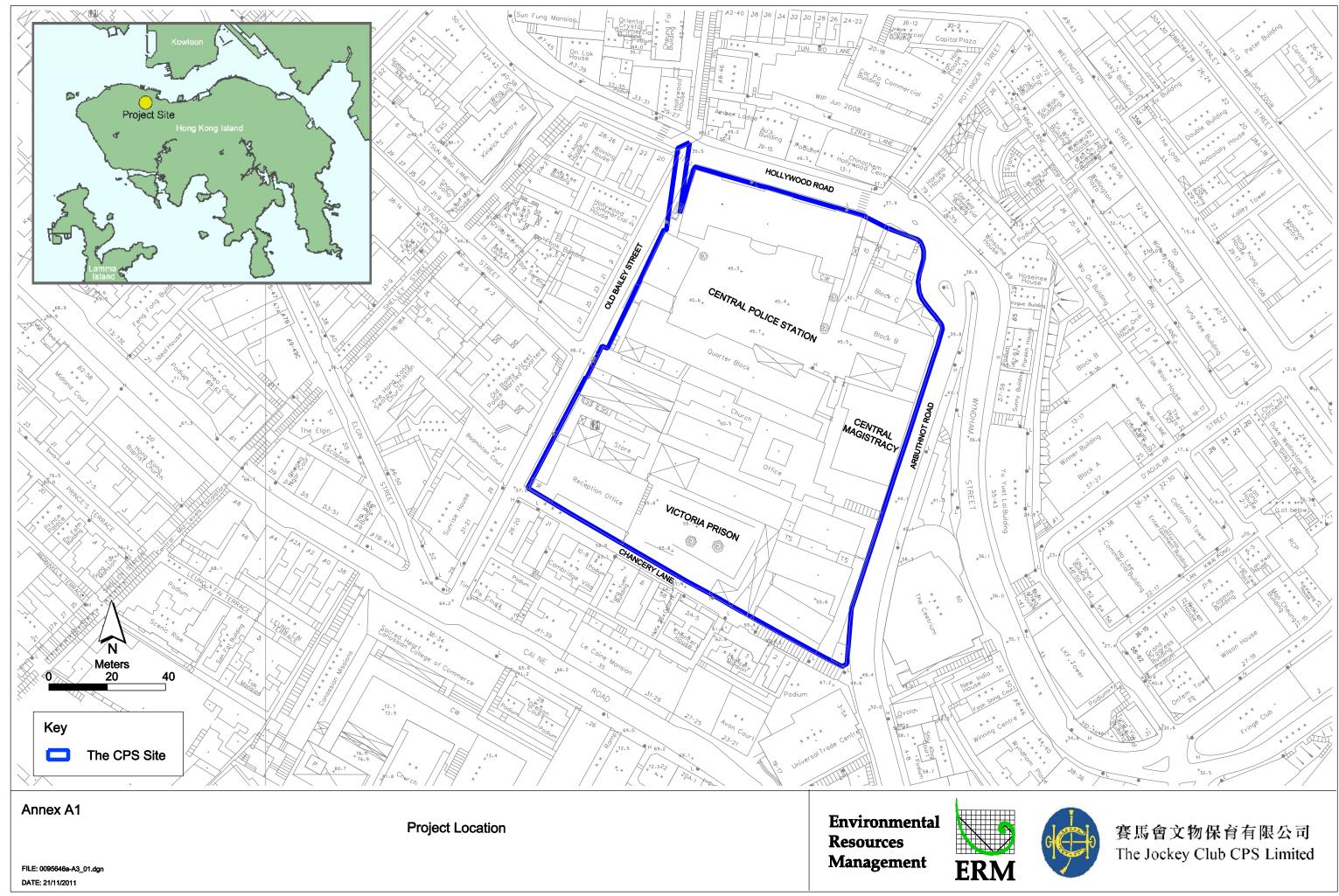
No summon/prosecution was received during the reporting period.

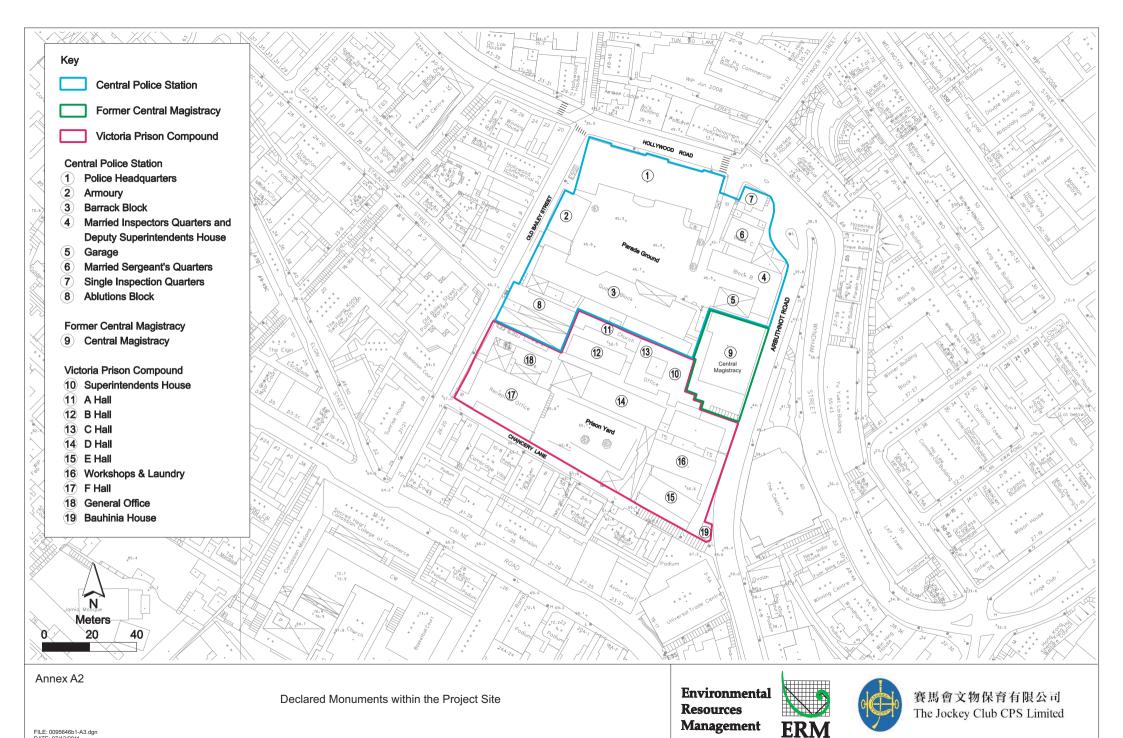
The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

18

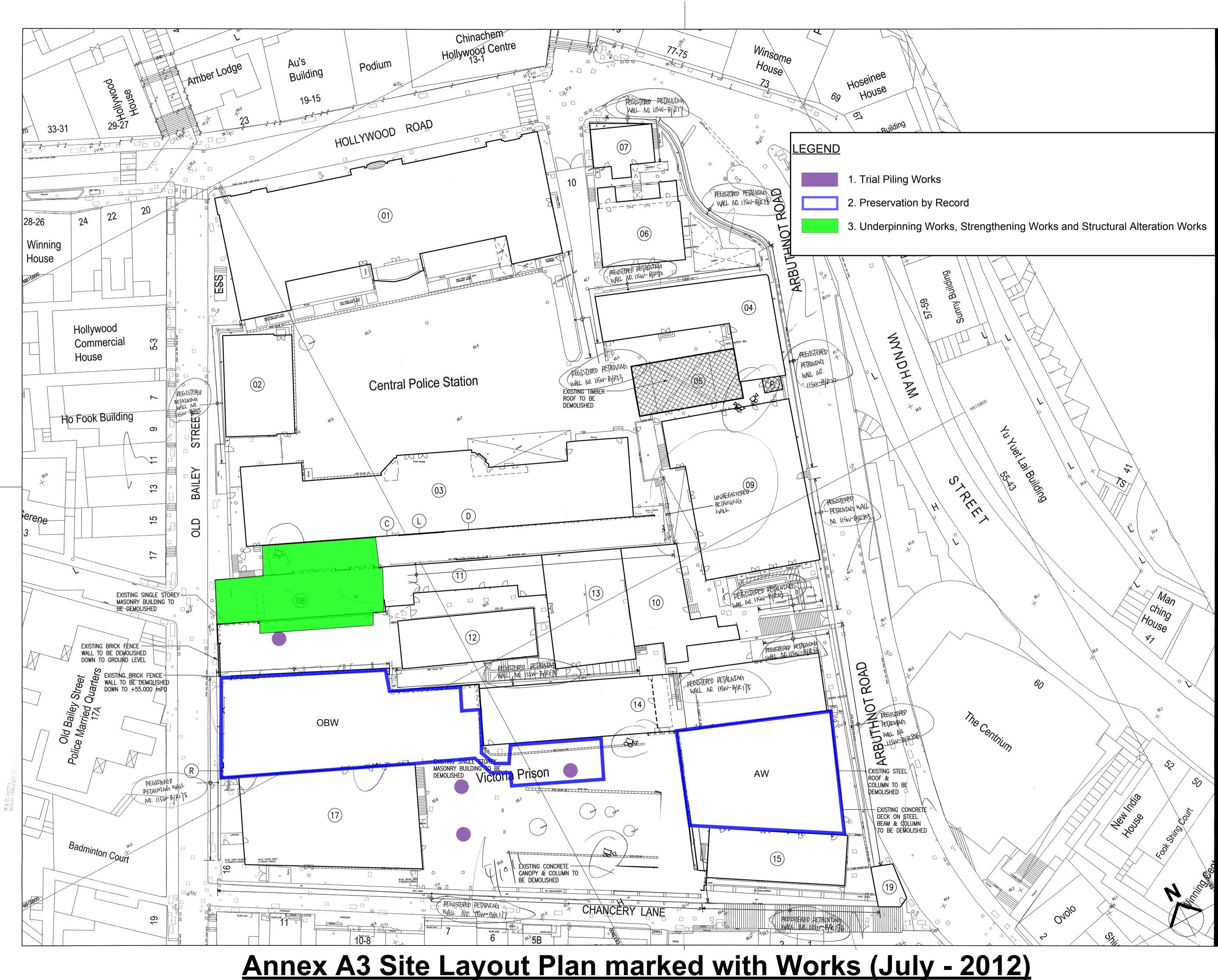
Annex A

Locations of Works Areas and the Surroundings





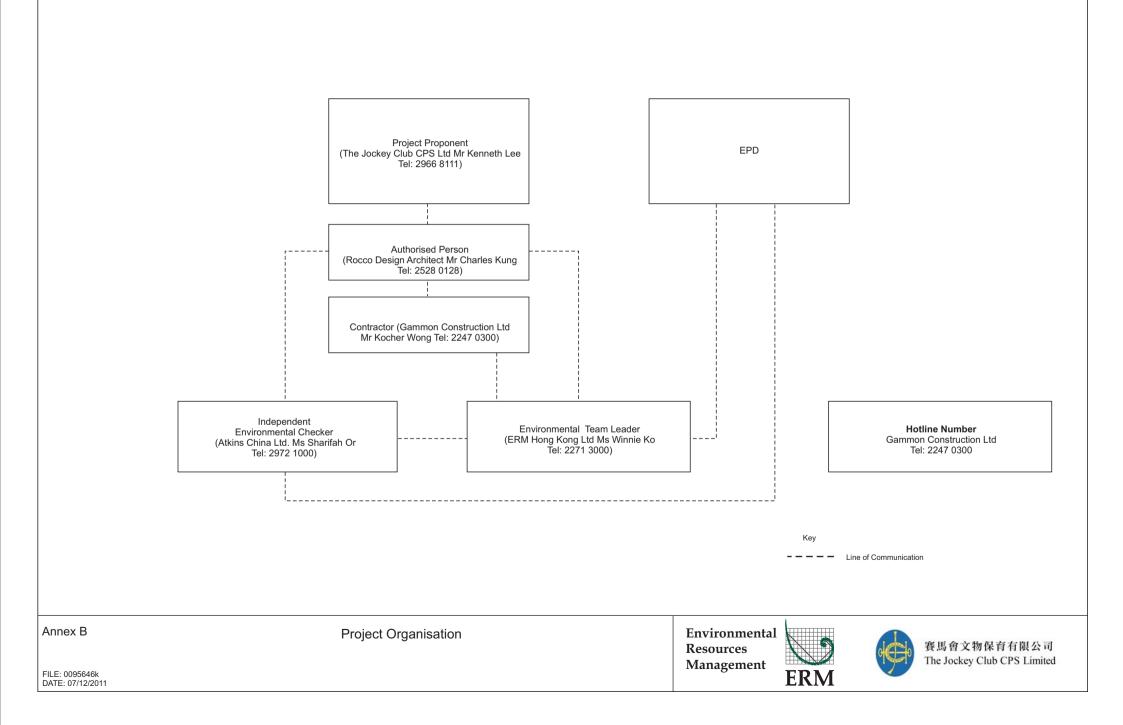
FILE: 0095646b1-A3.dgn DATE: 07/12/2011



2011 AUG -8

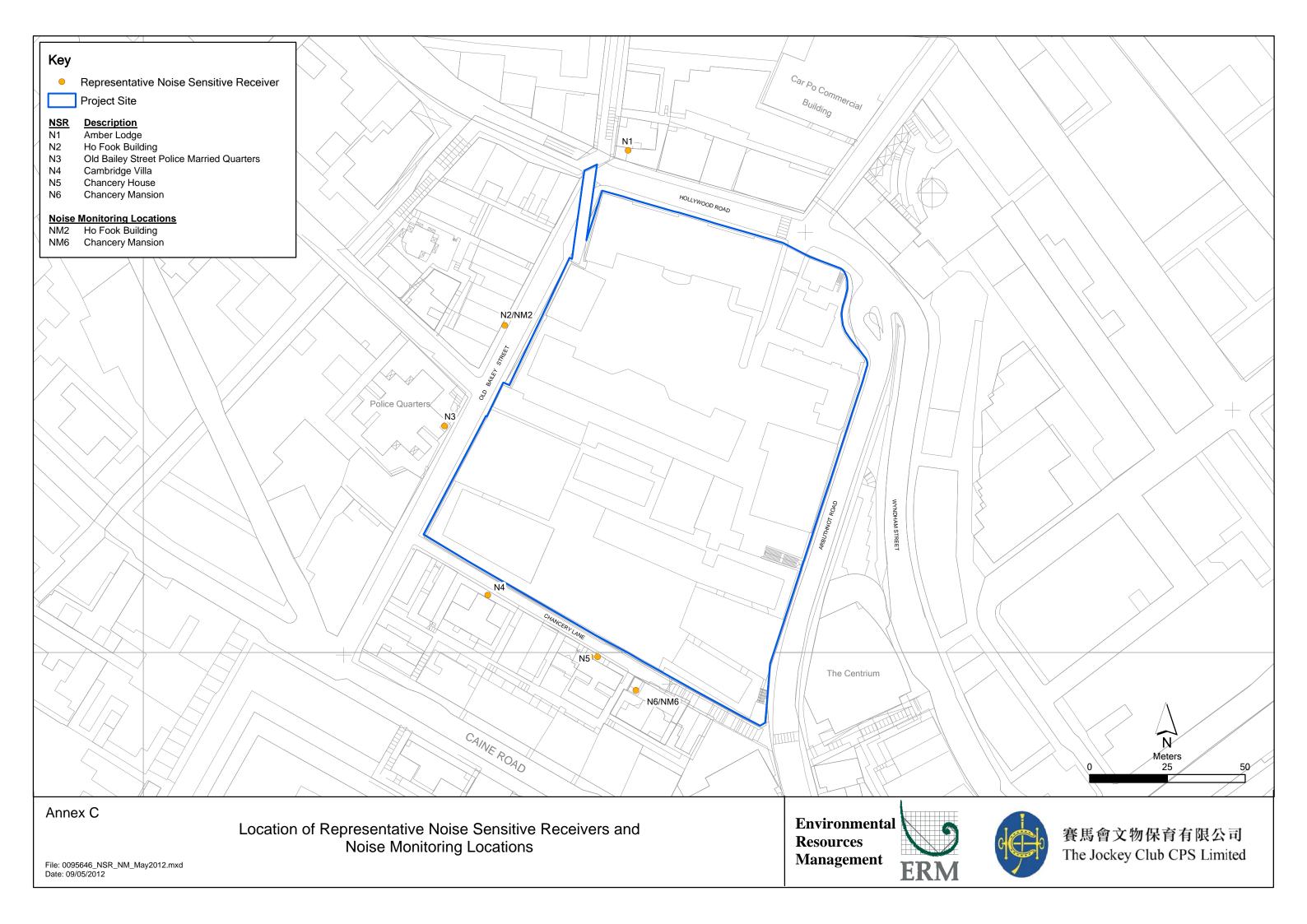
Annex B

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

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

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

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

Annex E

Calibration Reports for Calibrators and Sound Level Meters



Certificate No. : C113870

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator Manufacturer : Rion Model No. : NC-73 Serial No. : 10997142

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

The equipment is supplied by

Co. Name : Envirotech Services Co.

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

Date of Issue : 11 July 2011

Certified by : HC Chan

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

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F. Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



Report No. : C113870

Calibration Report

ITEM TESTED

DESCRIPTION	:	Sound Level Calibrator
MANUFACTURER	:	Rion
MODEL NO.	:	NC-73
SERIAL NO.	:	10997142

TEST CONDITIONS

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

TEST SPECIFICATIONS

Calibration

DATE OF TEST : 11 July 2011

JOB NO. : IC11-1713

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

TEST RESULTS

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

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

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

Tested by : KC Lee

Date : 11 July 2011

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

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong KongTel: 2927 2606Fax: 2744 8986E-mail: callab@suncreation.comWebsite: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No. : C113870

Calibration Report

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment IDDescriptionCertificate No.TST150AMeasuring AmplifierC101008CL130Universal CounterC113350CL281Multifunction Acoustic CalibratorC1006860

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy
- 5.1.1 Before Adjustment

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

5.1.2 After Adjustment

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

5.2 Frequency Accuracy

5.2.1 Before Adjustment

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

5.2.2 After Adjustment

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

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

Calibration and Testing Laboratory of Sun Creation Engineering Limited



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No. : C113870

Calibration Report

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

Note :

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

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

Calibration and Testing Laboratory of Sun Creation Engineering Limited



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. : C124011 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號 :IC12-1674)
Description / 儀器名稱	:	Sound Level Calibrator
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NC-73
Serial No. / 編號	:	10997142
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 9 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

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

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

L K Yeung

Certified By 核證

Tested By 測試

> Date of Issue : 簽發日期

10 July 2012

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

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

K C Lee



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124011 證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement 1 of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A

Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

Certificate No. C123541 DC110233 C120886

- 4. Test procedure : MA100N.
- 5. Results :

Sound Level Accuracy 5.1

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

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	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.

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

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



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

Certificate of Calibration

Name	•	Precision sound level meter				
Model	:	NL-52 (NX-42EX	S/No. : 00710259 installed)			
Microphone	:	UC-59	S/No. : 02695			
Preamplifier	:	NH-25	S/No. : 10253			
Date of Calibration	•	September,	20, 2011			

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

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



Annex F

Event / Action Plans for Noise

Annex F Event and Action Plan for Noise

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

Annex G

Summary of Implementation Status

Annex G	Implementation Schedule for Environmental Protection Measures
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EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultur	al Heritag	ge			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	To be advised	During detailed design and construction	1
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	\checkmark
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the	Whole site	Prior to and during construction	1
		environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed proposal of the regular audit such as methodology (e.g. performance			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement.			
		The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
S3.9.3	S3.3.4	<u>Archival Recording</u> 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 as- built 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	-	<u>General Construction Methods</u> Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be checked and confirmed by the contractor. Non-percussive piling	Whole site	During construction	N

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2	-	methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. One set of upd	Whole site	During detailed design, construction, post- construction and operation	√- CMP was implemented during the the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Landscu	ape & Visi	ıal	I		1
S4.7.27	-	<u>In-situ Tree Protection - Cordon Zone (CZ)</u>	Whole site	During construction	\checkmark
		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.			
S4.7.2	-	In-situ Tree Protection - Advanced & Phased Root Pruning	Whole site	During construction	N/A – no root pruning has been conducted yet.
		All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.			
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system	Whole site	During construction	\checkmark
		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			

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	<u>In-situ Tree Protection - Monthly inspection</u> 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	Whole site	During construction	\checkmark
S4.7.2	-	protected trees, must be reported to the authorized person or the tree expert within two days. <u>Light Control</u>	Whole site	During	√
		Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.		construction and operation	
S4.7.2	S4	<u>Compensatory Tree Planting</u> A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.			
		Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm (<i>Table 4.3</i>), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements			
		The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::			
		 Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. 			
		- <i>Bauhinia purpure, a</i> native evergreen with lighter purple flowers from late autumn to early winter.			
		 Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	Vertical Greening	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	1
		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	-	<i>New Custom Paving</i> New, Porous, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	<u>In-situ Tree Protection - Quarterly inspection</u> 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	•		•		
<i>S5.9</i>	-	 The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
<i>S</i> 5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	\checkmark
<i>S5.9</i>	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During construction	N/A – Not observed.
<i>S5.9</i>	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	\checkmark
<i>S5.9</i>	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	\checkmark
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During construction	\checkmark
Air Qu	ality				
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	\checkmark

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	V
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	\checkmark
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	\checkmark
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	\checkmark
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	\checkmark
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	\checkmark
S6.8.1	-	Hoarding of not less than 2.4m 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	\checkmark
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	\checkmark
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	\checkmark
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	\checkmark
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	\checkmark
Water (Quality				
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <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	\checkmark
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	\checkmark
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	\checkmark
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	\checkmark
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stomwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	\checkmark
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	
Waste .	Manageme	nt	·	·	
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	\checkmark
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	\checkmark
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	\checkmark

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	\checkmark
S8.5	S6.3	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	\checkmark
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Containers used for storage of chemical waste shall: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	N/A – Not observed.
S8.5		<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	\checkmark
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	\checkmark
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commence-ment of construction	\checkmark
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	\checkmark

Remark:

 $\sqrt{}$ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd

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

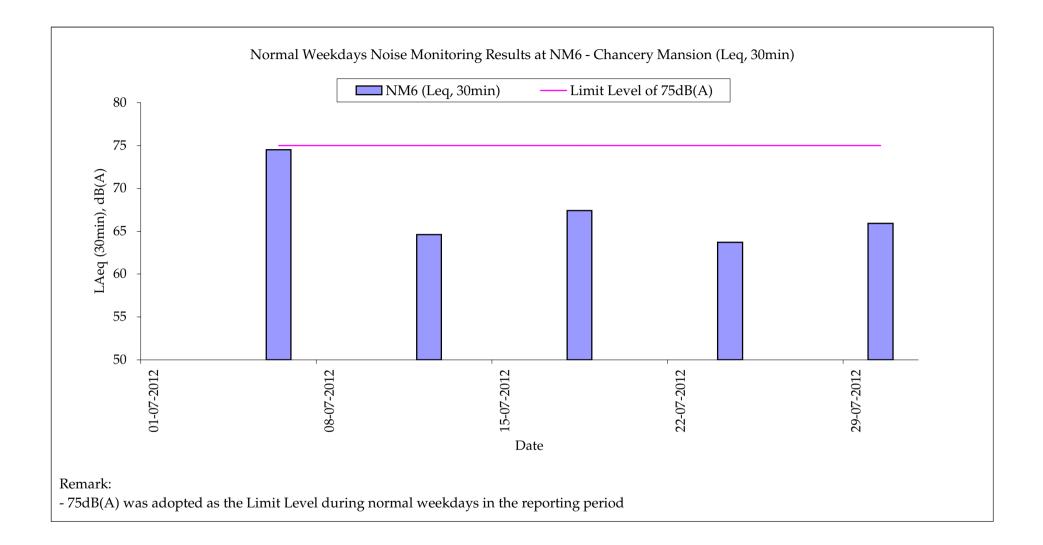
Daytime Noise Monitoring Results

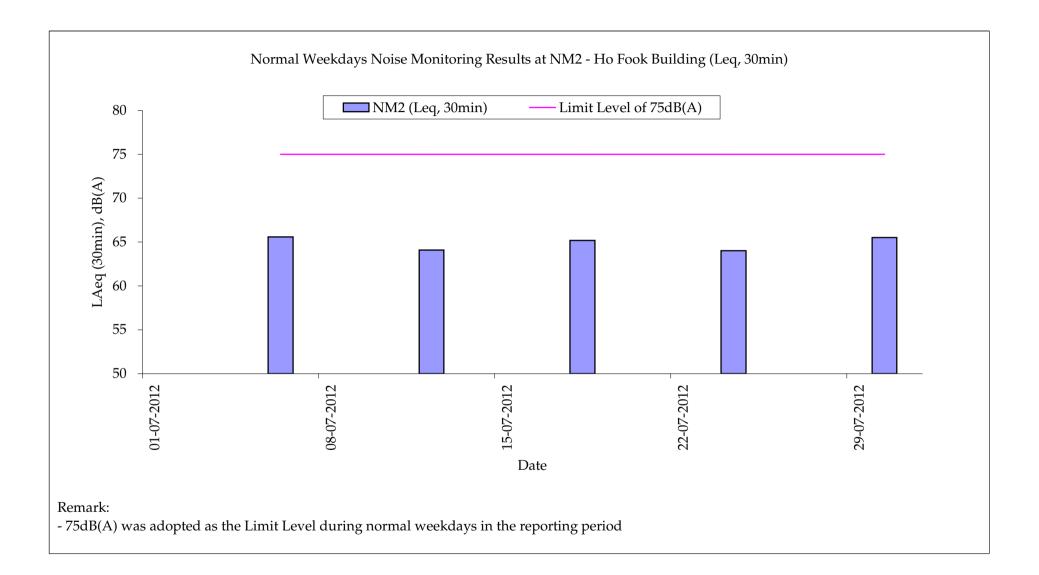
NM6 Chancery Mansion

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

NM2 Ho Fook Building

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





Annex I

Construction Programme for the Project

Activity	Activity	Dur	2011201220132014
GENERAL	Description	(Cal Days)	
000110	Award of Management Contract	0	Award of Management Contract
000130	Contract Commencement Date	0	
000510	Prepare Prelim Method Statement - Subm/Approval	53	Prepare Prelim Method Statement - Subm/Approval
000600	PRECONSTRUCTION PERIOD	592*	
000700	MANAGEMENT CONTRACT PERIOD	1,096*	
000800	POST CONSTRUCTION PERIOD MANAGEMENT SERVICES	184	(OPTIONAL SERVICES) POST CONSTRUCTION PERIOD MANAGEMENT SERVICES
EXISTING B	UILDING		
PHASE 1			
080003	Preparation Work Before Construction	40	Preparation Work Before Construction
080005	Construction Work Commencement (24 Oct 2011)	0	Construction Work Commencement (24 Opt 20 1)
080010	Block 8 - ABLUTIONS BLOCK	631*	Block 8- ABLUTIONS BLOCK
160010	Block 16 - WORKSHOP & LAUNDRY (Demolition Works)	109*	Block 16 - WORKSHOP & LAUNDRY (Demolition Works)
180010	Blk 18/14 annex/Bldg F/G/H/ (Demo Works)	50*	Bik 18/14 annex/Bidg F/G/H/ (Demo Werks)& notice to EPD/LD
170010	Block 17 - F HALL (Advance / Enabling Works)	355*	Block 17 - F HALL (Advance / Enabling Works)
140010	Block 14 - D HALL (Advance / Enabling Works)	452*	Bjock 14 - D HALL (Advance / Enabling Work\$)
120010	Block 12 - B HALL	354*	Bljock 1/2 - B HALL
010005	Block 1 - POLICE HEADQUARTERS	453*	
110010	Block 11 - A HALL	326*	
PHASE 2			
030005	Block 3 - BARRACKS BLOCK	416*	Block 3 - BARRACKS BLOCK
060005	Block 6 - DORMITORY BLOCK C	310*	
070005	Block 7 - DORMITORY BLOCK D	257*	Block 7 - DORMITORY BLOCK D
020005	Block 2 - ARMOURY & STORE	268*	Block 2 - ARMOURY & STORE
PHASE 3			
150010	Block 15 - E HALL	357*	Block 15 - E HALL
090005	Block 9 - CENTRAL MAGISTRACY	319*	Block 9 - CENTRAL MAGISTRACY
100010	Block 10 - SUPERITENDENT HOUSE	352*	Block 10 - SUPERITENDENT HOUSE
130010	Block 13 - C HALL	352*	
PHASE 4			
140030	Block 14 - D HALL (Restoration Works)	264*	Block 14 - D HALL (Restoration Works)
040005	Block 4 - DORMITORY BLOCK A & B	273*	Block 4 - DORMITORY BLOCK A & B
190005	Block 19 - BAUHINIA HOUSE	168*	Block 19 - BAUHINIA HOUSE
170030	Block 17 - F HALL (Restoration Works)	198*	Block 17 - F HALL (Restoration Works) Block 5 (Demolition Only)
	Block 5 (Demolition Only)	114*	
Other Works	Roadworks	449*	
253110	U/G Utilities / Drainage Works w/in CPS compound	329	Roadworks U/G Utilities / Drainage Works w/in CPS compound
251110 240010	Revetment of Walls (Tentative Period)	329	Revetment of Walls (Tentative Period)
255110	Ext Landscape incl trees/bench/green wall	135	
	INSPECTION / HANDOVER	135	
309010	Statutory Inspections / Handover	124*	
11		124	i i i i i i i i i i i i i i i i i i i
NEW CONS			
New Building			
AW0010	NEW BUILDING - ARBUTHNOT WING	683*	
OB0010	NEW BUILDING - OLD BAILEY WING	723*	
OB0090	OBW - SPECIALIST FIT OUT WORKS	243*	
AW0090	AW - SPECIALIST FIT OUT WORKS	145*	AW - SPECIALIST FIT OUT WORKS
	m (at Lower Courtyard)	1005	
200018	Lower courtyard basement	466*	
Service Tuni			
220010	Proposed Service Trench	288*	Proposed Service Trench
Courtyard Pa			
210010	Proposed courtyard passage incl work in Blk 3	381*	Proposed courtyard passage incl work in Blk 3
New Footbri			
230010	Proposed Footbridge (Tentative)	825*	Proposed Footbridge (Tentative)
Start Date	07JUL10		Early Bar TP30 Sheet 1 of 1 GCL / P / J3416 /SUMCPO1 (rev 2) Date Revision Checked Approx
Finish Date Data Date	31DEC14 07JUL10		Progress Bar CENTRAL POLICE STATION
Run Date	0736E10 07SEP11 09:41		
			CONSERVATION AND REVITALIZATION (MANAGEMENT CONTRACT) CONSTRUCTION PROGRAMME
	?Primavera Systems, Inc.		

Start Date Finish Date Data Date Run Date	07JUL10 31DEC14 07JUL10 07SEP11 09:41	Early Bar Progress Bar	TP30 Sheet 1 of 1 CENTRAL POLICE STATION CONSERVATION AND REVITALIZATION (MANAGEMENT CONTRACT) CONSTRUCTION PROGRAMME	Ga	m
	?Primavera Systems, Inc.				

Annex J

Tree Inspection Reports

₭ 從 (香港) 環 境 管 理 有 限 公 司

Yan Wing (Hong Kong) Environment Management Limited RECEIVED

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

30th July 2012 Our Ref. : YW/TP/GAMMON/2012/7/1

Gammon Construction Limited 28/F Devon House TaiKoo Place 979 King's Road Hong Kong Attn : Mr. Cliff C.H. LEUNG Tel. 2516 8823 Fax.2516 6260

- 2 AUG 2012

4 Avie 1

Dear Sir,

Summary of Monthly Inspection Report for the Six Existing Trees at Central Police Station Compound for July 2012 (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	19 th July 2012	Good	1.To trim the lower branches.
Tree-6	Aleurites moluccana 石栗	19 th July 2012	Fair	N.F.A.
Tree-7	Aleurites moluccana 石栗	19 th July 2012	Fair	N.F.A.
Tree-8	<i>Plumeria rubra</i> 紅雞蛋花	19 th July 2012	Fair	N.F.A.
Tree-9	Araucaria cunninghamia 花旗杉	19 th July 2012	Fair	N.F.A.
Tree-11	<i>Dracaena marginata</i> 馬尾鐵	19 th July 2012	Fair	1.To remove the dead branches . 2.To remove litter and weeds.



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.1031) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

For and on behalf of Yan Wing (HK) Environment Management <u>Ltd</u>.

> (WONG Pak Hay) Horticulture Manager

FORM 1: TREE GROUP INSPECTION FORM 表格 1: 樹群檢査表格

Ge al Information	基本資料	-							
		Constructio		Name of Tree Inspe Name of Endorsem			人員姓名: 人員姓名:	LAU Man Chung WONG Pak Hay	
Date of Inspection 巡查日		July 19, 2012	21112	Name of Endorsem		ncei 復收/	八貝灶石.	WONG Pak Hay	
Project/Contract No.合約		ž: J34	16/400.4/D00025	5					
Location Information {									
	al Police St	ation Compo	und.	Nearby Utility P	ost No		設施編號:		
Location Types 地點類別: Address :		Roadside	1. T.	Community Hall / Centre 社區會堂 / 中心					
(multiple answers allowed)		X Open sp	bace 空地 n Centre 展覽中心	□ Roadside Planter 路旁花圃 心 □ Rain shelter / pavilion 避雨亭 / 涼亭					
可選多於一項		Comments of the second s	n Centre 展寬中心 nt 觀景台			Sitting out area	And a second second second second	产 / 况学	
			nature trail 行山徑	8 / 白然徑			A PRODUCE		
			lease specify)其他						
General Tree Informat	ion 基本積	木資料				* Delete as a	ppropriate #	青把不合適的刪除	
Main tree species in the grou		x. number	Range of tree	Overall health	Ove	erall	Other remain	ks (Any special tree	
or minority tree species of significant size		s in the nt species or	height (m) 該樹種高度範	condition		ctural dition		.g. dying/dead, problem and structural	
在群組內的主要樹種或樹幹		of tree		置 整體健康狀況 (good, fair,	P.352.55	elition 豊結構狀況		soil condition	
胸徑或高度或樹冠範圍較大		- 1 - H117 (m 1		poor		od, fair,	其他評語		
的樹種 (Note 2)		種在群組內 }比/數目*		好,良,差)	poo 差)	r好,良,		列如:凋謝/枯樹/病蟲害 題; 及泥土狀况)	
	The spectral sectors								
Mangifera indica 芒果 Aleurites moluccana	17%,	1 No.	16M 10-13M	GOOD		OD	Contraction of the second	lower branches.	
石栗	石栗 32% 2 Nos.			FAIR	FA	IR	N.F.A.		
Plumeria rubra 紅雞蛋花	17%	1 No. 7M		FAIR	FA	IR	N.F.A. N.F.A. 1. To remove the dead branche		
Araucaria cunninghamia 花旗杉	17%	1 No.	13M	FAIR	FAIR				
Dracaena narginata 馬尾鐵 17% 1 No. 8M FAIR FAIR								nove the dead branches nove litter and weeds.	
arget 目標									
TARGET (people or prope		lly affected by	tree/branch failu	ure)目標(因樹木倒場	或枝個	案斷裂而受影響	響的人或財產	5	
Does target exist? 目標是	否存在?	x Yes 是	□ No 否						
Can target be moved?能否	移除目標?	Ves 🗏	륕 x No 겸	5					
Can the use of site be restr				Yes是 No 否					
Frequency of use of locati 〇 Occasional use 偶爾使		the second s		Frequent use 經常修	k III	Constan	t use 恆常使	Ħ	
dentification of Trees f	20.VE 0			- <u>Anostina-</u>			t use 应用使	/Ħ	
划下述樹木,以便採取風險				Tree Kisk Assessi	lent				
Trees falling under the fo			3小小虫(吸計)白			Number of trees	Remedial a	ction or detailed tree risk assessmer	
樹木屬於以下任何一項或多						樹木數量		成進行詳細樹木風險評估	
 Trees on con 投訴個案中, 	Television and the second s		ral or health pro	oblems		NII			
		STAL HOUSE SHOWSIN	062 1802	ood structure and ha	ving	NII			
unsatisfactor	y health or	structural c	onditions with	failure potential	-0				
屬木質脆弱品	種並已達成	成熟期及有倒	場風險的樹木((Note 1)					
(3) Tree with ma	Contraction of Carton Contraction					NII			
有明顯缺陷或				6.11		NII			
(4) Trees growin生長於非常擠				n failure potential		NII			
ttached Information 附夾資		J IFJ OJIMUTACH J							
Site plan 場地平面置	Ξ	Photo reco	ord 相片紀錄	Others 其他 ()	olease .	specify 請說明): Month	ly Inspection Reports	
Signature of Tree Inspection (Officer :		1	NA	C			SUGNMENT MANY	
Signature of Endorsement Off	icer:	÷		XVV				NON (WE HERE)	
Name of Contractor		Yan W	ing (HK) Eny	ironment Managen	nent I	.td.		A AVA MILE	
Date:		30-7-2	012	\mathcal{I}					
				of tree or branch failure, detaile			g Form 2) should	be carried out	
				該樹進行詳細的樹木風險評化 Management Arrangement (Par					

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)

I. TREE NUMBER: Tree-5 Mangifera indica 芒果

II. BASIC INFORMATION :

Height (m)	16m	Crown spread (m)	18m
DBH (mm)	1000mm	Overall Health Condition	Good
		Good/Fair/Poor	
Date of Inspection	19 th July 2012	Last Inspection Date	7 th June 2012

III. COMMENTS :

- 1. Overall health condition of the tree is good.
- 2. Cleanliness of the planter is acceptable.
- 3. A pipe leads water to the tree top for irrigation.
- 4. Some lower branches and leaves are too close to the nearby buildings.
- 5. The site appears clean and tidy.

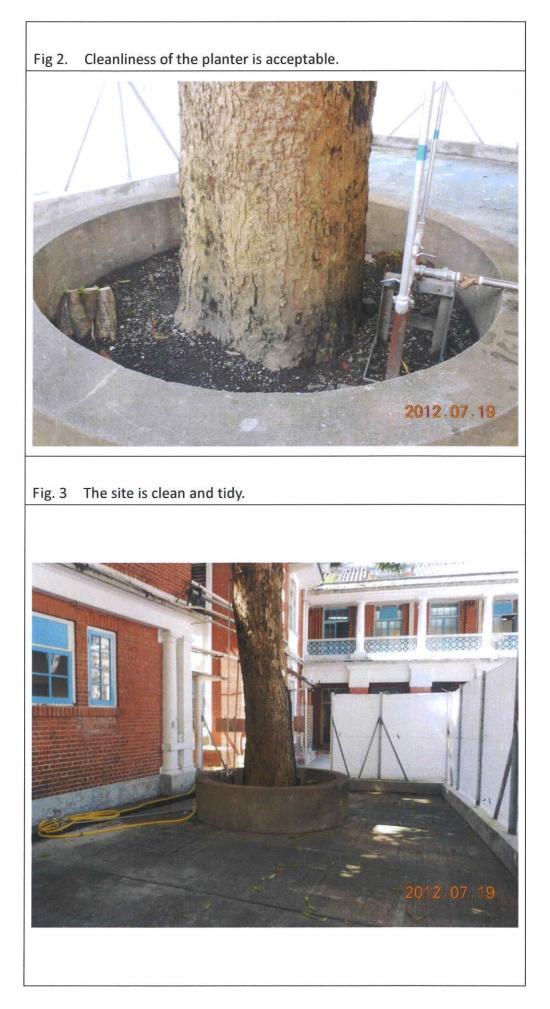
IV. RECOMMENDATIONS :

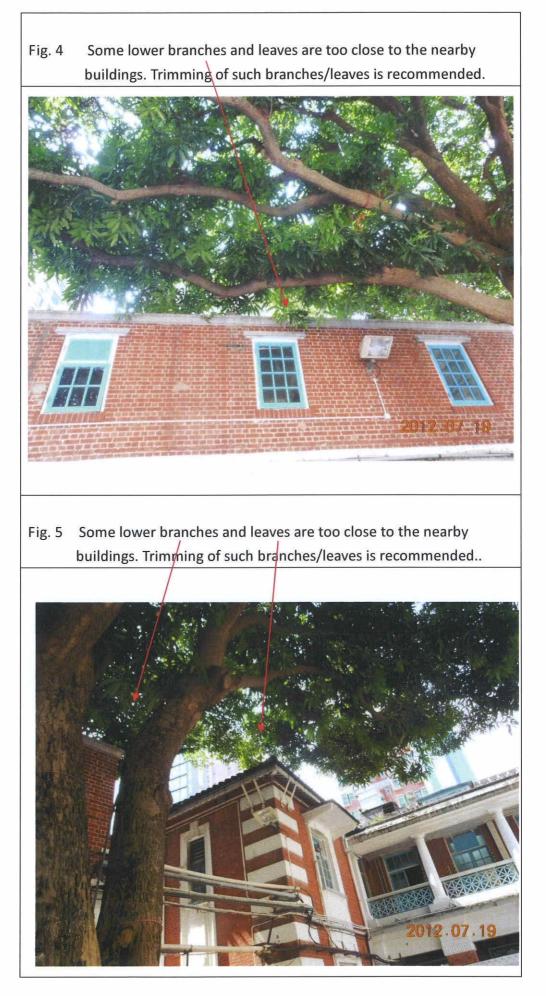
1. To trim the lower branches / leaves which are too close to the buildings.

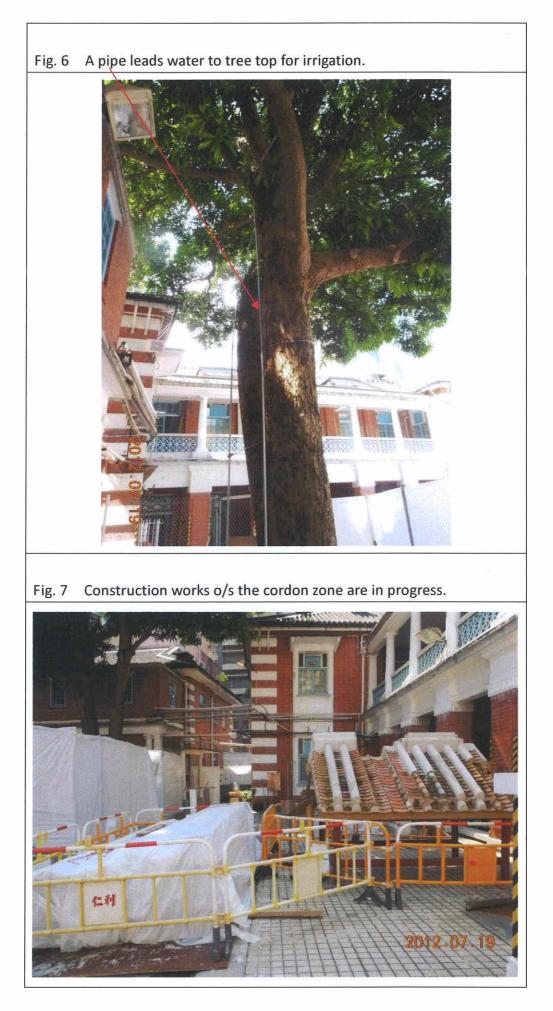
V. PHOTO RECORD :

VI.











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. 30th July 2012



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 Good/Fair/Poor	Fair
Date of Inspection	19 th July 2012	Last Inspection Date	7 th June 2012

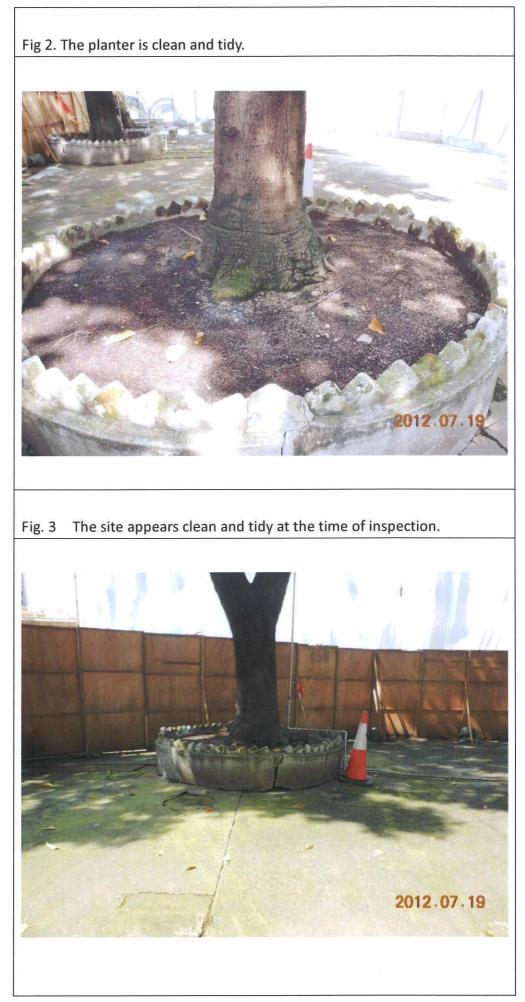
III. COMMENTS :

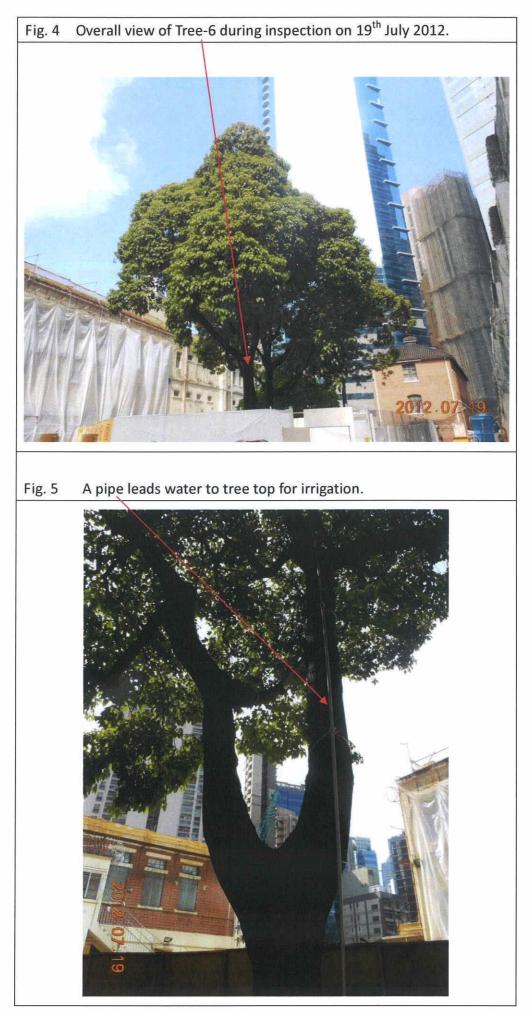
- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Construction works are in progress outside the cordon zone.
- 4. The site appears clean and tidy.
- 5. A pipe leads water to the tree top for irrigation.

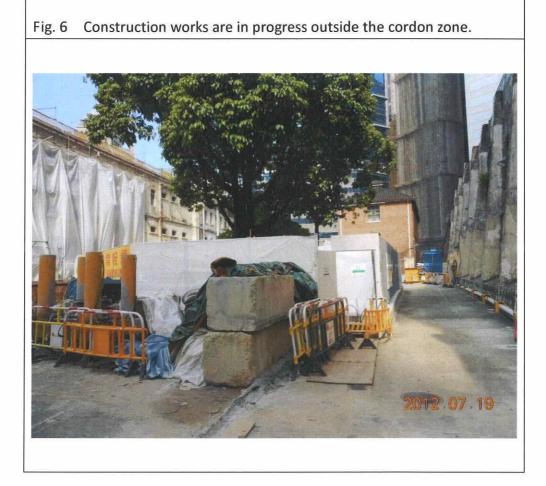
IV. RECOMMENDATIONS :

- 1. No further action is required.
- V. PHOTO RECORD :









Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA–HK0050A) Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager) Yan Wing (HK) Environment Management Ltd. Name of Contractor : 30th July 2012 Dated this :

Appendix 3

Inspection Report for the 6 Existing Trees <u>at Central Police Station Compound</u> (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 Good/Fair/Poor	Fair
Date of Inspection	19 th July 2012	Last Inspection Date	7 th June 2012

III. COMMENTS :

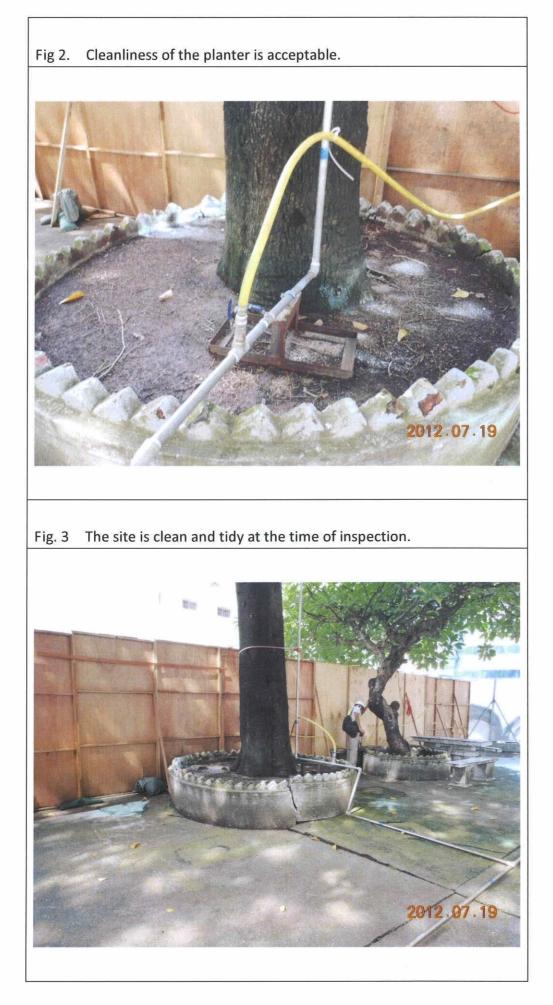
- 1. Overall health condition of the tree is fair.
- 2. Planter is clean and tidy.
- 3. The site appears clean and tidy.
- 4. A pipe leads water to the tree top for irrigation
- 5. Construction works are in progress outside the cordon zone.

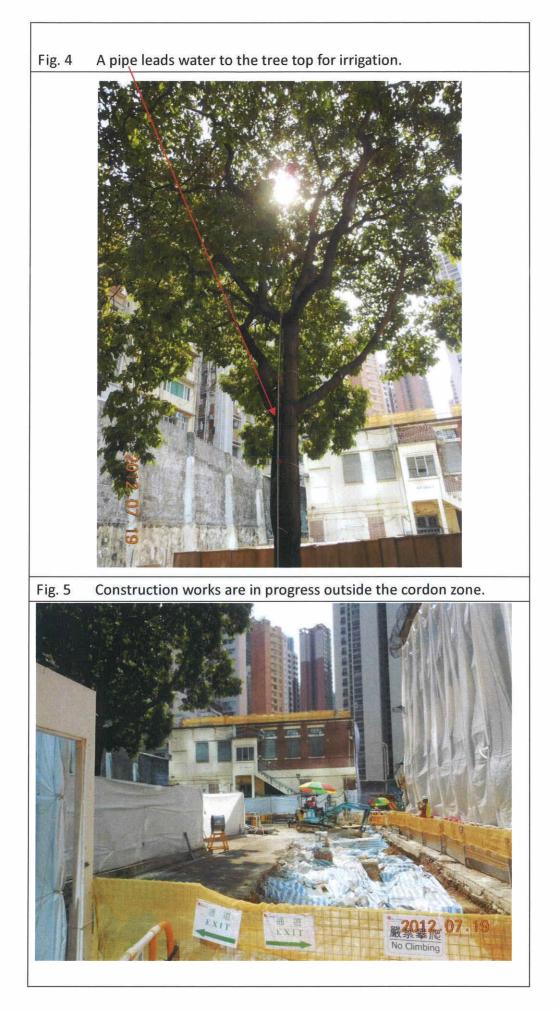
IV. RECOMMENDATIONS :

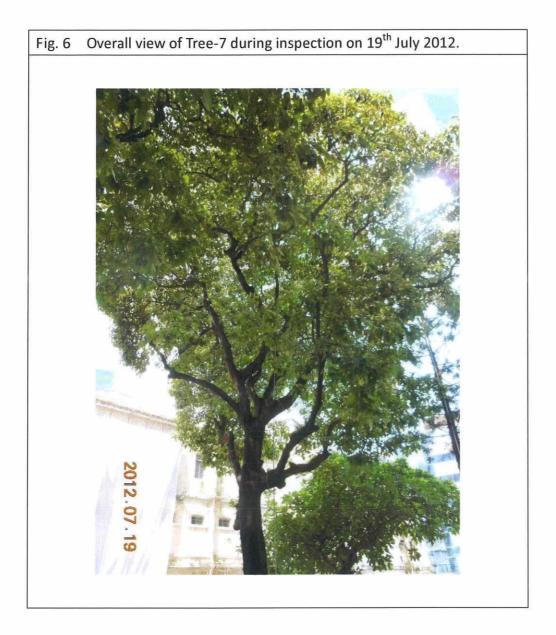
1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number
A CARDICAL AL
Tree - 7
Aleurites moluccana 石栗
Maintained by :
欣榮(香港)環境管理有限公司
Tel. 9776 1987
2012.07.19







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.

30th July 2012



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

II. BASIC INFORMATION :

Height (m)	7m	Crown spread (m)	9m
DBH (mm)	430mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	19 th July 2012	Last Inspection Date	7 th June 2012

III. COMMENTS :

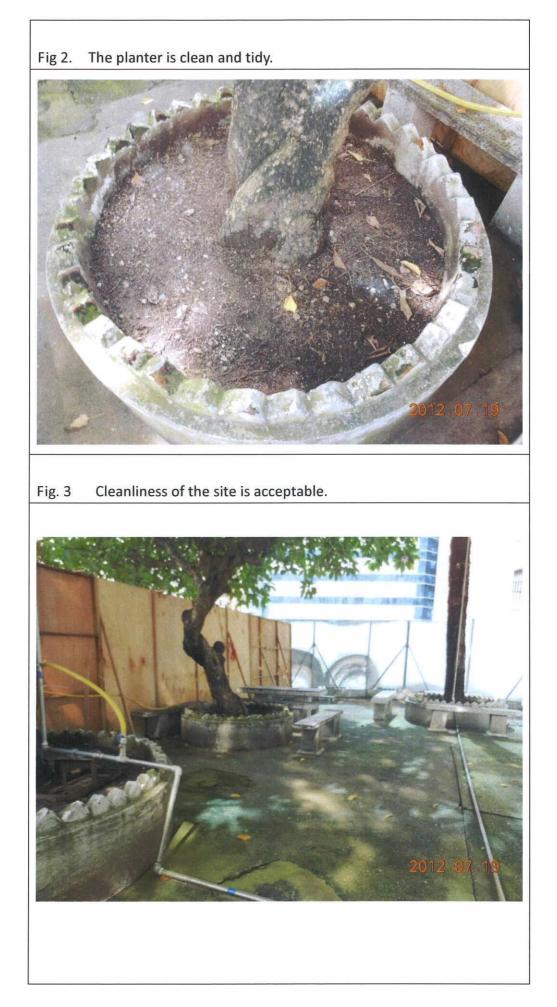
- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Cleanliness of the site is acceptable.
- 4. Appropriate poster displays in front of the site.
- 5. The tree is in blossom at the time of inspection.

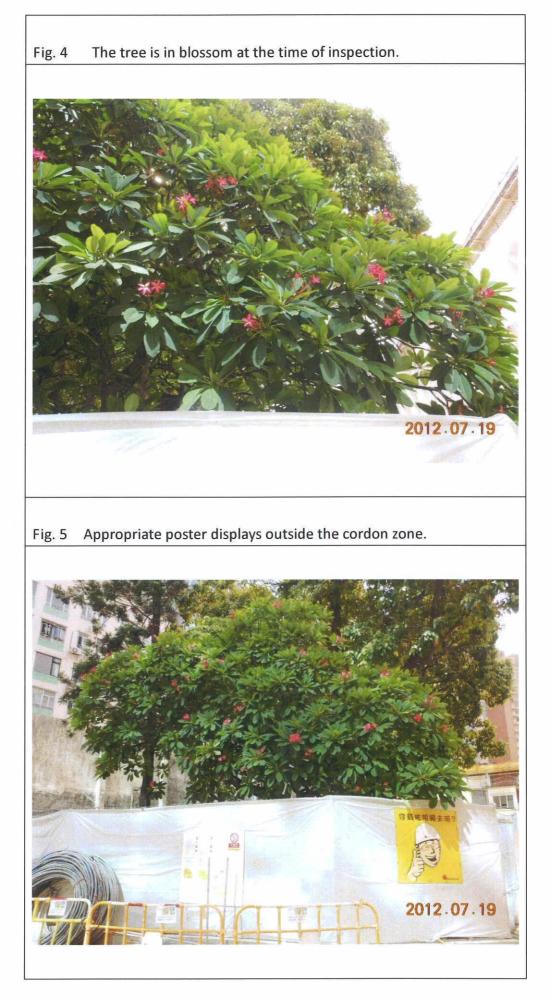
IV. RECOMMENDATIONS :

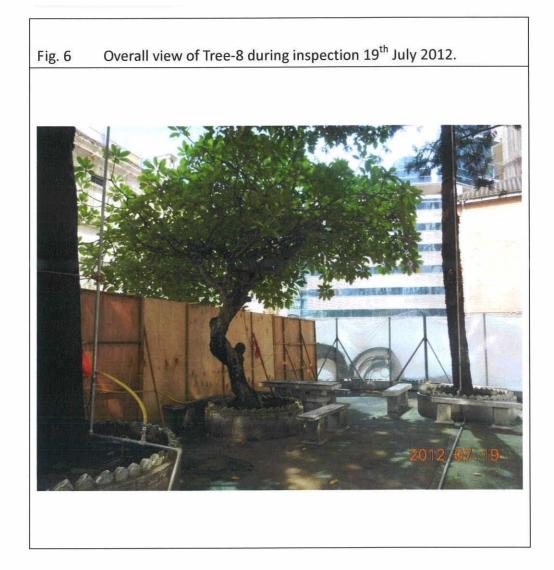
1. No further action is required.

V. PHOTO RECORD :









Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA–HK0050A) Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager) Yan Wing (Hk) Environment Management Ltd. Name of Contractor : Dated this : 30th July 2012

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	19 th July 2012	Last Inspection Date	7 th June 2012

III. COMMENTS :

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable at the time of inspection.
- 3. The site inside the cordon zone is clean and tidy.
- 4. The tree emits no transparent juice on the cavity.
- 5. The site outside the cordon zone is also clean and tidy.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :



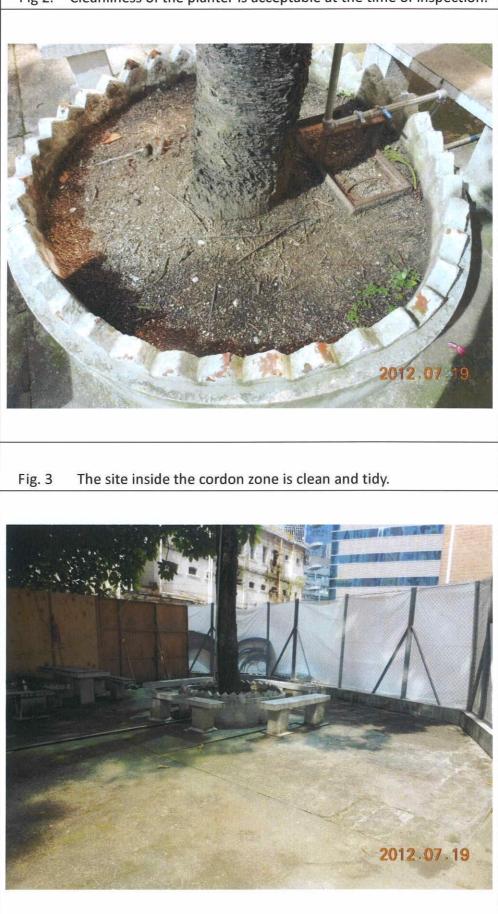
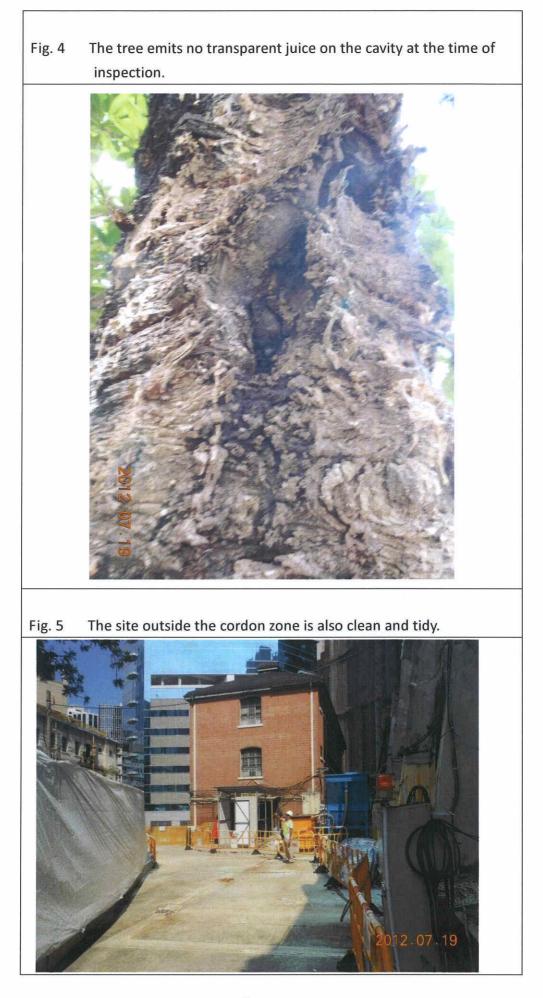
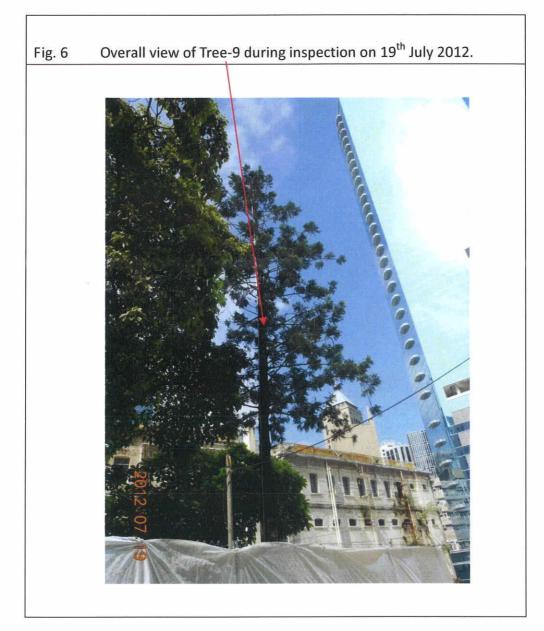


Fig 2. Cleanliness of the planter is acceptable at the time of inspection.





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.





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	19 th July 2012	Last Inspection Date	7 th June 2012

III. COMMENTS :

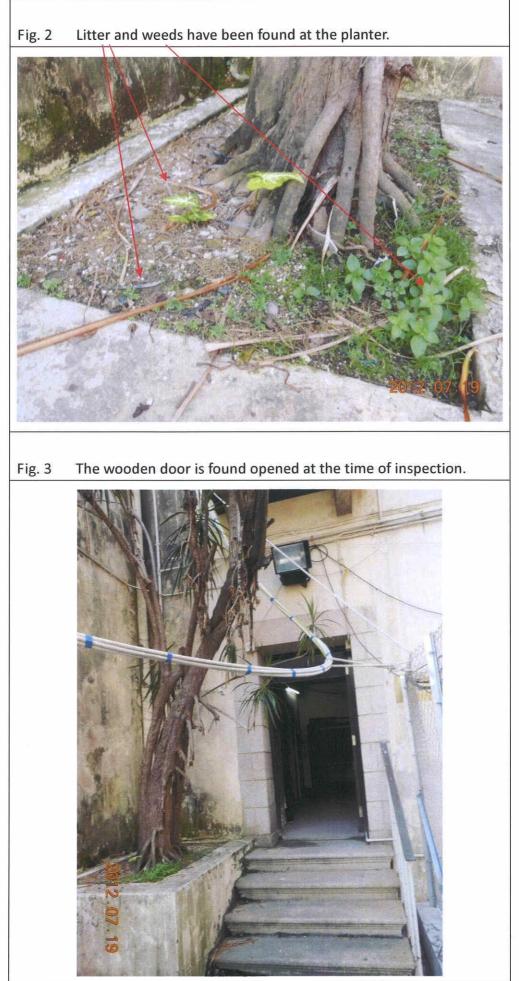
- 1. Overall health condition of the tree is fair.
- 2. A few litter has been found at the planter.
- 3. The wooden door is opened at the time of inspection.
- 4. Some dead branches appear on the tree.
- 5. The site inside the cordon zone is clean and tidy.

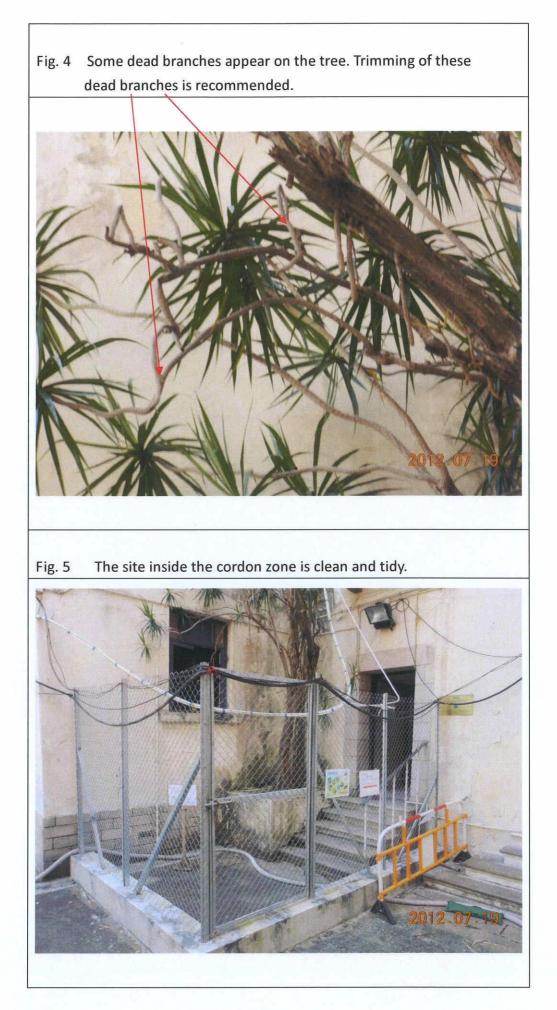
IV. RECOMMENDATIONS :

- 1. To remove the dead branches from the tree.
- 2. To remove litter and weeds from the planter.

V. PHOTO RECORD :









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. 30th July 2012



Annex K

Environmental Complaint, Environmental Summon and Prosecution 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
Overall Total	7	0

Annex K Cumulative Complaint and Summons/Prosecutions Log





賽馬會文物保育有限公司 The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project





COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

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

Details of Complaint

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

Investigation Report

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

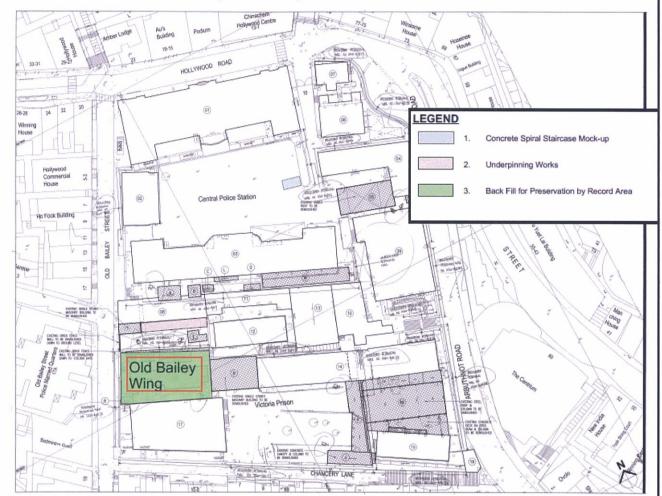


Figure 1. Locations of works being carried out on 20 July 2012

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

Mitigation Measures and Follow-Up Actions Recommended to Contractor

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

Date of File Closed :

26 July 2012

Approved by:

ET Leader

IEC

JCCPS's Representative

Rocco Design Architect's Representative

(Name: Winnie Ko) Date: 26 July 2012

Gammon's Representative

(Name: Sharifah Or) Date: 26 July 2012

(Name: C.W. Sham) Date: So July

CHARLES

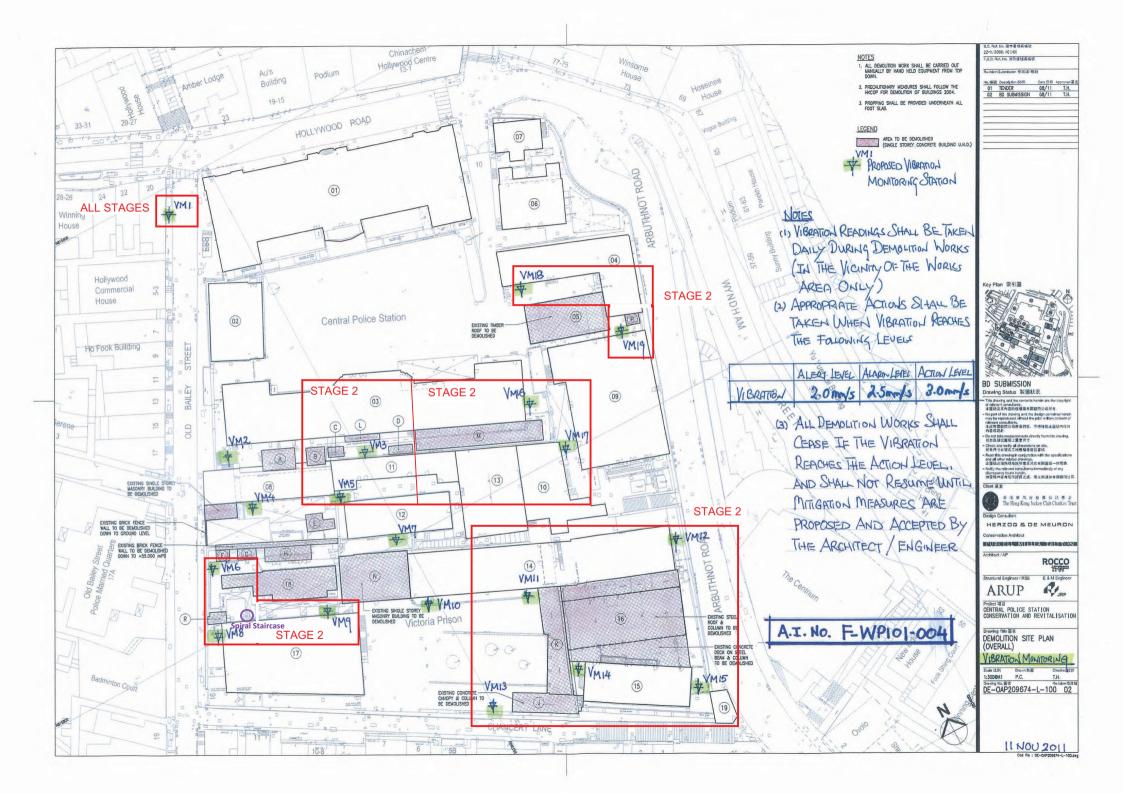
(Name: Kung) Date: No July 2012

CUTT LEUNI (Name:

Date: 2012-07-26

Annex L

Vibration Monitoring Locations for Demolition Works



Annex M

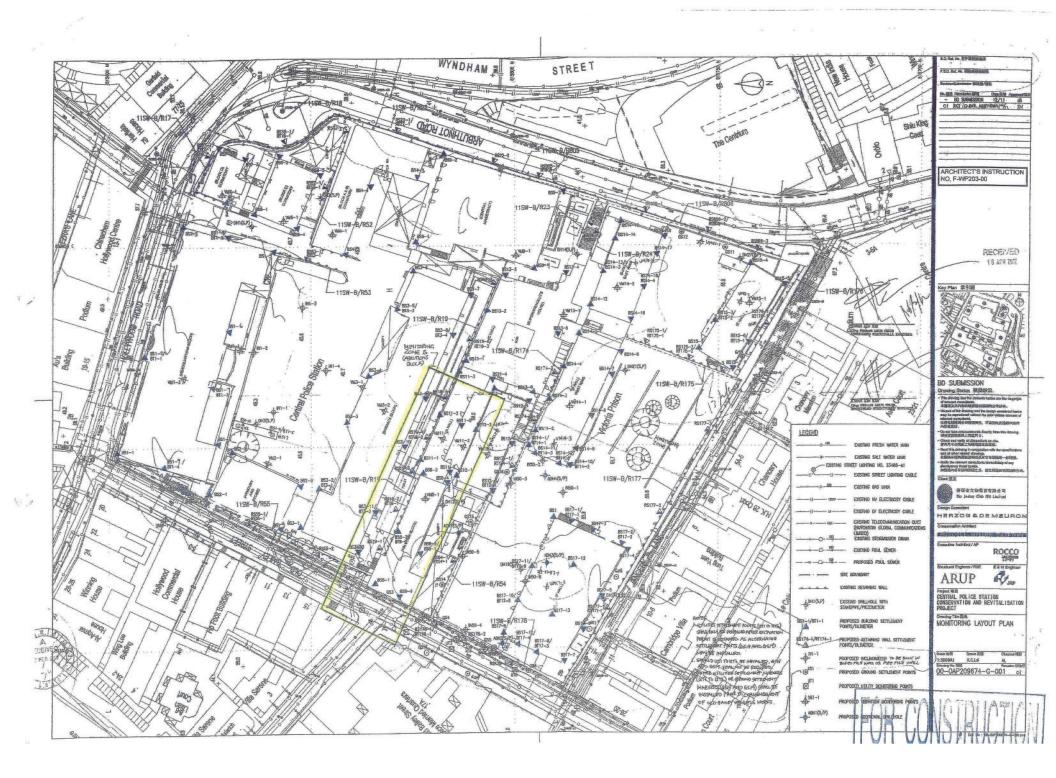
Vibration Monitoring Locations for Trial Piling Works



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	BD SUBMISSION
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4 EXISTING COREHOLE (DONE BY OTHERS)	 This drawing and the contents herein are the copyright of relevant consultants. 本圖紙及其內容的版權漏有關範間公司所有。
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HI EXISTING HORIZONTIAL/INCLINED COREHOLE	 Check and verify all dimensions on site. 所有尺寸必須在工地現場複查及審核。 Read this drawing in conjunction with the specifications
(DONE BY OAP)	and all other related drawings. 此隱紙必須與規格說明書及其它有關圖紙一併阅讀。
EXISTING VERTICAL COREHOLE	- Notify the relevant consultants immediately of any
(DONE BY OAP)	discrepancy found herein。 如發現內容有任何診蒙之處、應立刻通知有關範問公
EXISTING INCLINED DRILLHOLE	Client 業主
(DONE BY DAP)	合態業局會慈善信託基金 The Hong Kong Jockey Club Charities Tru
DENOTED STANDPIPE/PIEZOMETER (DH18, DH20 & DH27)	
	Design Consultant
SITE BOUNDARY	HERZOG & DE MEURON
TRIAL PILE (SHAFT-GROUTED PREBORED HPILE)	Conservation Architect
TRIAL PILE (SHAFT-GROUTED MINI-PILE)	
	Architect / AP
PROPOSED BUILDING SETTLEMENT POINTS/ TILTMETER (BS1/BT1 TO BS7/BT7)	计学
PROPOSED GROUND SETTLEMENT POINTS (GS1 TO GS8)	Structural Engineer / RSE E & M Engineer
	ARUP Rem
PROPOSED VIBRATING MONITORING (VM1 TO VM12) (DURING PILE CONSTRUCTION ONLY)	JRP JRP
(DURING FILE CONSTRUCTION ONLY)	Project JAH CENTRAL POLICE STATION
EXISTING FRESH WATER MAIN	CONSERVATION AND REVITALISATIO
EXISTING SALT WATER MAIN	Drawing Title 图名
ISTING STREET LIGHTING NO. 33488-A1	LAYOUT PLAN FOR SHAFT
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PROPOSED FOUL SEWER	
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Annex N

Records of Vibration Monitoring for Other Construction Works



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POIN	Т	VM8-1	VM11-1	VM11-2													
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16-Jul-2012		0.126	0.085	0.102												
17-Jul-2012		0.133	0.097	0.109			1									
18-Jul-2012		0.122	0.102	0.115												
19-Jul-2012		0.118	0.094	0.106												
20-Jul-2012		0.128	0.097	0.110												
21-Jul-2012		0.116	0.088	0.104												
22-Jul-2012																
23-Jul-2012		0.124	0.092	0.113												
24-Jul-2012		0.119	0.086	0.099											40	1
25-Jul-2012		0.121	0.094	0.102												
26-Jul-2012		0.127	0.085	0.098												
27-Jul-2012		0.134	0.092	0.107												
28-Jul-2012		0.117	0.084	0.092												