The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project:
Fifth Monthly EM&A Report (1 March to 31 March 2012)

Issue Date: April 2012

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The Jockey Club CPS Limited

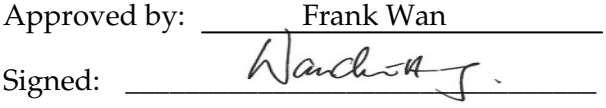
Central Police Station Conservation and Revitalisation Project:
Fifth Monthly EM&A Report (From 1 March to 31 March 2012)

Issue Date: April 2012

Reference 0095646

For and on behalf of
ERM-Hong Kong, Limited

Approved by: Frank Wan

Signed: 

Position: Partner

Certified by: 
(Environmental Team Leader – Winnie Ko)

Date: 17 April 2012

CONTENTS

LIST OF TABLES

LIST OF ANNEXES

EXECUTIVE SUMMARY

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

- Trial pit excavation;
- Sundry enabling/ open up works (Blocks 2, 4, 6, 7 & 8);
- Asbestos abatement work (Phase 2);
- Demolition works (Phase 2); and
- Installation of piezometers.

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 at each monitoring station 8 times

Noise

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

Cultural Heritage

Eight vibration measurement events were carried out at each vibration monitoring station for Phase 2 demolition works during the reporting period. No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audit was conducted on 20 March 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 has been conducted on 19 March 2012 by the arborist during the reporting period. A few observations were identified and mitigation measure was recommended for the Contractor to implement.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 410.54 tonnes of inert C&D material and 28.56 tonnes of non-inert C&D materials were generated during the reporting period. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 21,700 kg of steel materials were generated and were sent to recyclers for recycling. No paper/cardboard packaging and plastic was collected for recycled. 3,200 kg of chemical waste (asbestos) was 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 20 March 2012. No major issues with environmental implications were observed.

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

No exceedance of the Action and 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 non-compliance event was recorded during the reporting period.

There were four complaints (related to noise nuisance and glare) received during the reporting period.

No summons/prosecution was received during the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

- Trial pit excavation;
- Demolition works (Phase 2);

- Piling works; and
- Trial 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 INRODUCTION

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 fifth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 March** to **31 March 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 PROJECT INFORMATION

2.1 BACKGROUND

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

2.2 SITE DESCRIPTION

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

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

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

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

2.3 CONSTRUCTION ACTIVITIES

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

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

Construction Activities Undertaken
• Trial pit excavation
• Sundry enabling/Open up works (Blocks 2, 4, 6, 7 & 8)
• Asbestos abatement work (Phase 2)
• Demolition works (Phase 2)
• Installation of piezometers

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	Throughout the Contract	Permit granted on 18 April 2011
Notification of Construction Works as required under *Air Pollution Control (Construction Dust) Regulation*	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under *Waste Disposal Ordinance*	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Effluent Discharge License under *Water Pollution Control Ordinance*	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-
Notification of Commencement of Asbestos Abatement Work under *Air Pollution Control Ordinance*	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/233 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO
Approval of Asbestos	-	Earliest	EPD's letter (EPD's

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Abatement Work (Phase 2)		commencement date on 26 January 2012.	ref:() in EPAC/A/4/000/233) dated 18 January 2012.
Amended Environmental Permit (EP)	EP-408/2011/A	Throughout the Contract	Permit granted on 10 January 2012
Amended Environmental Permit (EP)	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012

3.1 NOISE MONITORING

3.1.1 Monitoring Location

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

Table 3.1 Construction Phase Noise Monitoring Station

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

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

3.1.2 Monitoring Parameters, Frequency and Programme

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

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

3.1.3 Monitoring Equipment and Methodology

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

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

Table 3.2 Noise Monitoring Equipment

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

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

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

3.1.4 Event / Action Plan

Table 3.3 Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring Location	Noise Criteria, $L_{eq(30mins)}$, dB(A)	Remark
NM2, NM6	75	Applicable during 0700 – 1900 hours, Monday to Saturday.

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.

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*.

A set of initial readings was recorded at least three days prior to commencement of each stage of demolition works. Vibration monitoring was

conducted on the days with demolition works. The vibration measurement was conducted for duration of 5 minutes at each location with demolition works.

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

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

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

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

Table 3.5 Event and Action Plan for Vibration Monitoring

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

3.2.2 Mitigation Measures

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

3.3 LANDSCAPE AND VISUAL MONITORING

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

3.3.1 Mitigation Measures

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

3.4 ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS

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

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL 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 4.1 Status of Required Submissions

Submission		**Submission Date**
EP Condition		
Condition 2.3	Proposal of Procedures for Handling Enquiries, Complaints and Request for Information Concerning the Environmental Effects of Construction Works of the Project	6 March 2012
Condition 3.4	Fourth Monthly EM&A Report	14 March 2012
Appendix Part A Condition 2(k)	Vibration Monitoring Proposal for Trial Piling Works	22 March 2012
EM&A Manual		
-	Application for Variation of the EP (EP-408/2011/A)	8 March 2012
Section 10.4	First Quarterly EM&A Report	9 March 2012

5 MONITORING RESULTS

5.1 NOISE

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

- NM2: construction noise from activities in the Project Site including the use of compressor, breaker, lifting, excavator and crawler crane and traffic noise from Old Bailey Street.

- NM6: construction noise from activities in the Project Site including the use of compressor, breaker, lifting, excavator and crawler crane and traffic noise from Chancery Lane.

No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period.

5.2 CULTURAL HERITAGE

An Initial Reading Phase (ie baseline) monitoring was conducted on 24 February 2012 for Phase 2 demolition works. Eight vibration monitoring were conducted on 3, 10, 12, 13, 14, 15, 16 and 17 March 2012 for Phase 2 monitoring for the demolition works of spiral staircase, building No. 16, J and K. No demolition work for Phase 1 was conducted during 5 to 17 March 2012.

During 18 to 31 March 2012, demolition work for exclude Wall 10 near building No.18 has been conducted for Phase 1. Minor demolition work has been conducted between building No. 3 and 8 and demolition work has been conducted at building No. 16 for Phase 2.

The records of vibration monitoring are shown in *Annex L*. All monitoring results were below the Alert/Alarm/Action Levels.

Monthly heritage site audit was conducted on 20 March 2012 by the Heritage Checker. The follow-up actions recommended in the February audit have been implemented.

5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 19 March 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 5.1 Findings of Monthly Tree Inspection in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observations / Recommendations
19 March 2012			
Tree -5	*Mangifera indica*	Good	Remove seedlings of "Dimocarpus Longan" from the planter.
Tree -6	*Aleurites moluccana*	Fair	--
Tree-7	*Aleurites moluccana*	Fair	--
Tree-8	*Plumeria rubra*	Fair	Remove all barded wires away from the trunk.
Tree-9	*Araucaria cunninghamia*	Fair	Remove all barded wires away from the trunk.
Tree-11	*Dracaena marginata*	Fair	--

The follow-up actions recommended in the February inspection have been implemented.

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. 21,700 kg of metals and no paper/ cardboard packaging nor plastics were generated. 3,200 kg of chemical waste (asbestos) was generated during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

Month / Year	Quantity					
	C&D Materials (inert) [a]	C&D Materials (non-inert) [b]	Chemical Waste [c]	Recycled materials		
				Paper / cardboard	Plastics	Metals
February - March 2012	410.54 tonnes	28.56 tonnes	3,200 kg	0 kg	0 kg	21,700 kg

Notes:

(a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil. Inert C&D materials will be collected by private licensed collector.

(b) Non-inert C&D materials include wastes such as general refuse which were disposed of at SENT Landfill. A total of 21,700 kg of metals was sent to recyclers for recycling during the reporting period. No paper/cardboard and plastics were sent to recyclers.

(c) If necessary, the conversion factor of 3/4 load of dumping truck being equivalent to 6.5 m^3 by volume was used.

Joint environmental site inspection was conducted in the reporting period on 20 March 2012. The joint environmental site inspection was carried out by the representatives of the Contractor, IEC and the ET. There was no non-compliance recorded during the site inspections.

No major issues with environmental implications were observed during the site inspection.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF MONITORING EXCEEDANCE

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

7.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

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

7.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

Table 7.1 Summary of Complaint Received

Date	Means by which complaint was received	Nature of complaint
2 March 2012	Gammon Construction Limited	Noise and glare nuisance
7 March 2012	Gammon Construction Limited	Noise nuisance
22 March 2012	Hong Kong Jockey Club	Noise nuisance
28 March 2012	Gammon Construction Limited	Noise nuisance

Four complaints about noise and glare nuisance were received during reporting period. On 2 March, a complaint on noise generated from people speaking loudly and construction works during daytime, noise nuisance generated from people and vehicle delivery and glare nuisance caused by spot light along Old Bailey Street at night time was received by Gammon Construction Limited (GCL). The contractor has implemented mitigation measures to avoid noise and glare nuisance on 3 March 2012, including reminding the workers to lower their voice, providing acoustic mat to the demolition works and switching off the spot light automatically near the entrance of gate at Old Bailey Street after 8:00 pm.

On 7 March, an adjacent resident complained about the noise nuisance from construction work since the morning time. Contractor implemented further mitigation measures to minimise the nuisance by providing acoustic mat to demolition works and installing a silencer to the breaker on 8 March 2012.

On 22 March, Hong Kong Jockey Club received a complaint from Savills Residence Limited about noise nuisance starting in the early morning at 8:00 am. Contractor was suggested to provide acoustic mat and silencer to the handheld mechanical equipment, adopt a quieter demolition method, enclose the future piling works and conduct heavy/noisy construction works after 8:30 am.

On 28 March 2012, GCL received a complaint about noise nuisance from demolition works within the Project Site. No exceedance of noise criteria was

recorded during noise monitoring one day before the complaint received. Contractor was suggested to provide acoustic mat and silencer to the handheld mechanical equipment to minimise the noise nuisance to the adjacent users. The complaint investigation forms are presented in *Annex K*.

7.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons 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 8.1 Construction Works to be Undertaken in the Coming Month

Work to be taken
• Trial pit excavation
• Demolition works (Phase 2)
• Trial 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*.

9 CONCLUSIONS

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

No exceedance of the Action and 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 non-compliance event was recorded during the reporting period.

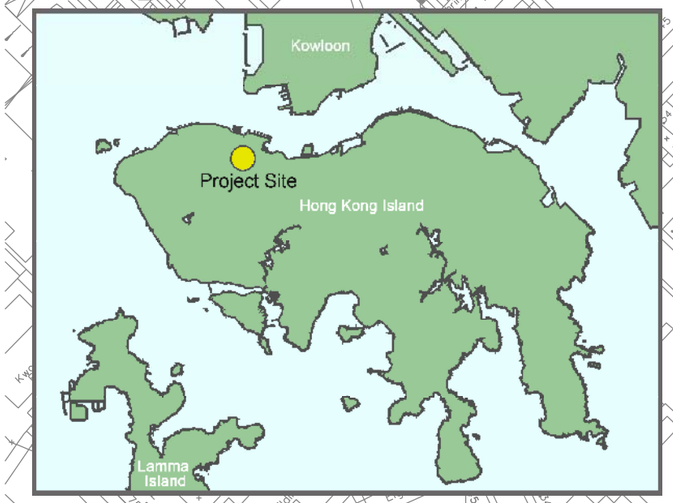
There were four complaints received during the reporting period.

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.

Annex A

Locations of Works Areas and the Surroundings



HOLLYWOOD ROAD

OLD BAILEY STREET

ARBUTHNOT ROAD

CHANCERY LANE

CENTRAL POLICE STATION

CENTRAL MAGISTRACY

VICTORIA PRISON

N

Meters

0 20 40

Key

The CPS Site

Annex A1

Project Location

FILE: 0095646a-A3_01.dgn

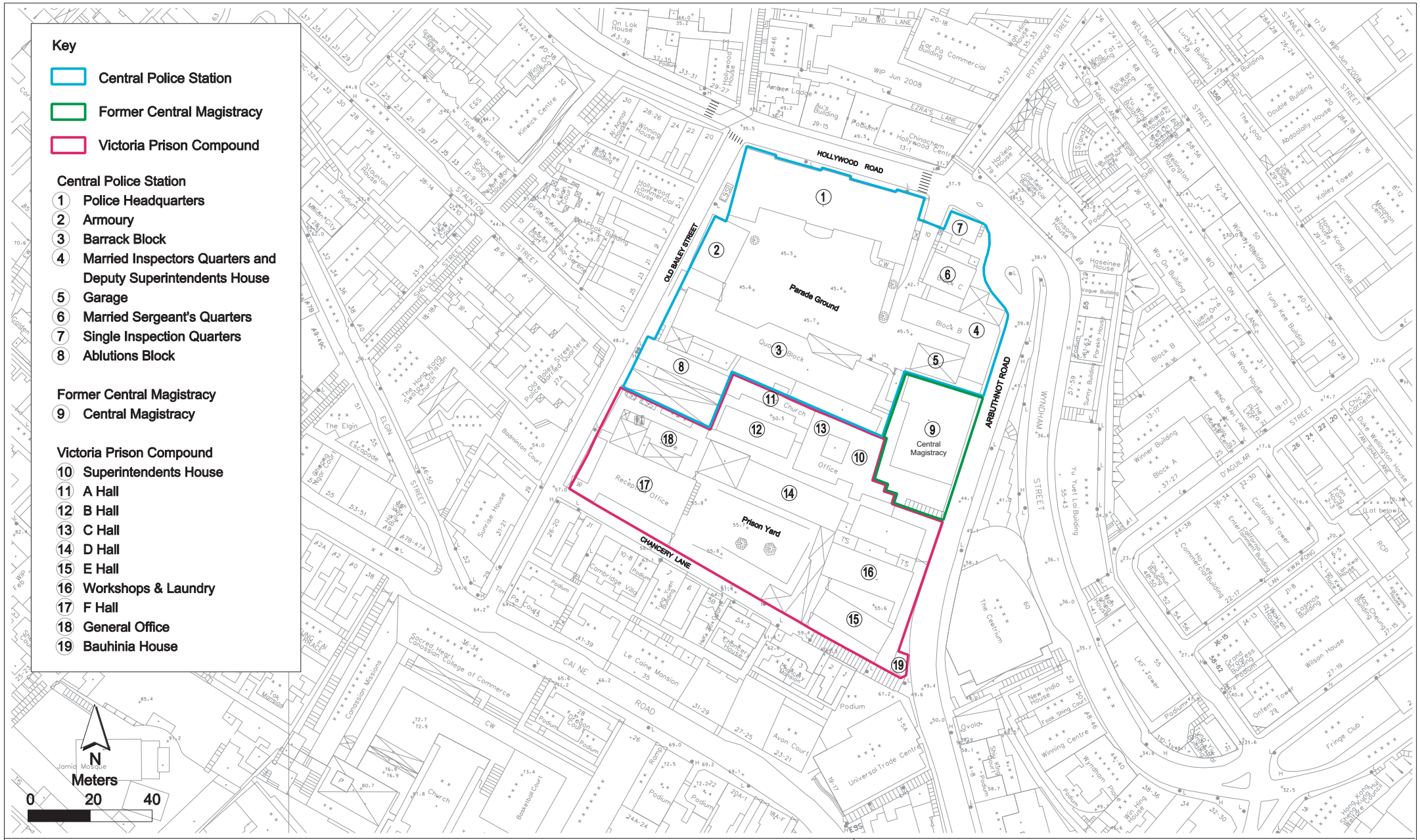
DATE: 21/11/2011

Environmental Resources Management

ERM

賽馬會文物保育有限公司

The Jockey Club CPS Limited



Annex A2

Declared Monuments within the Project Site

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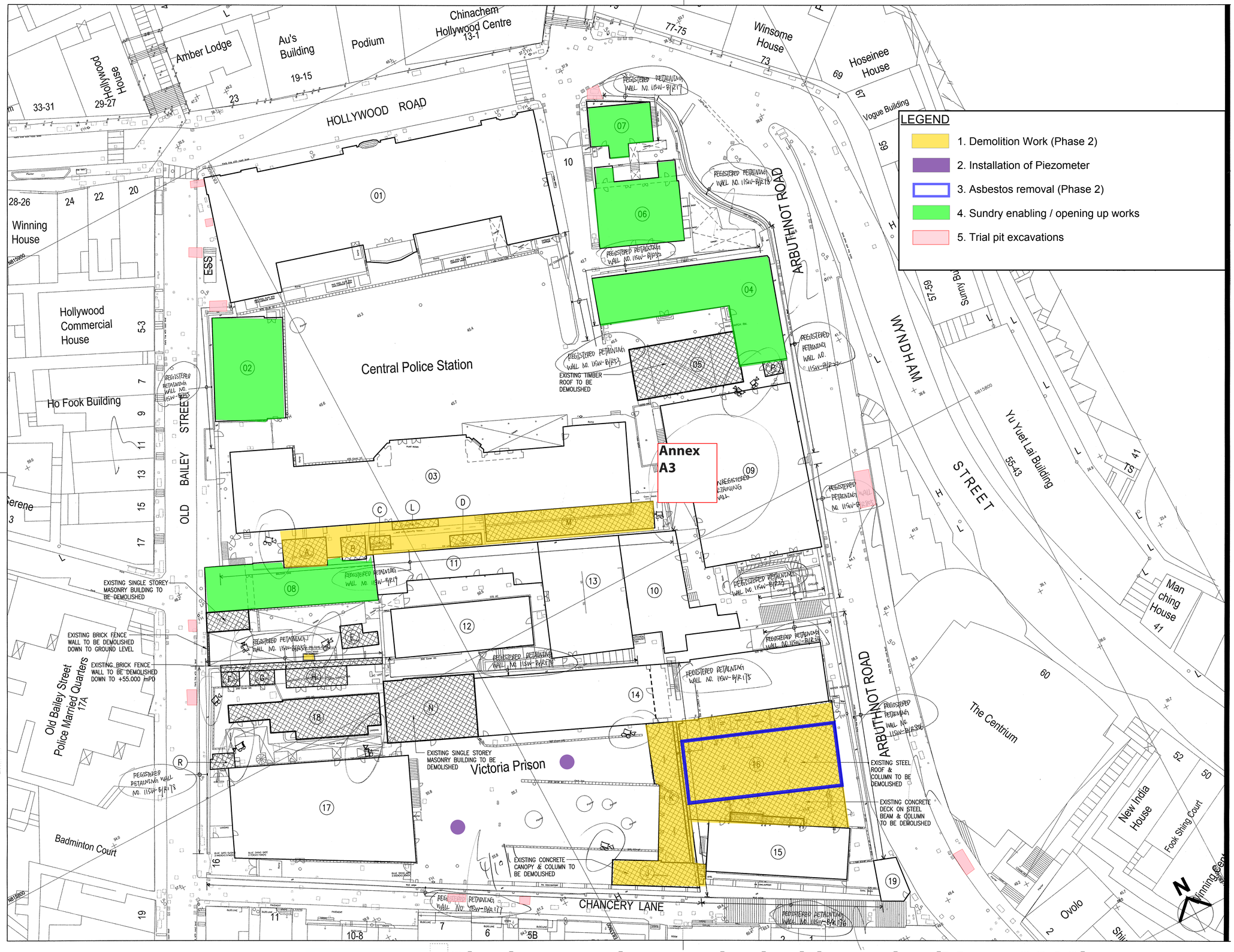
DATE: 07/12/2011

Environmental Resources Management

ERM

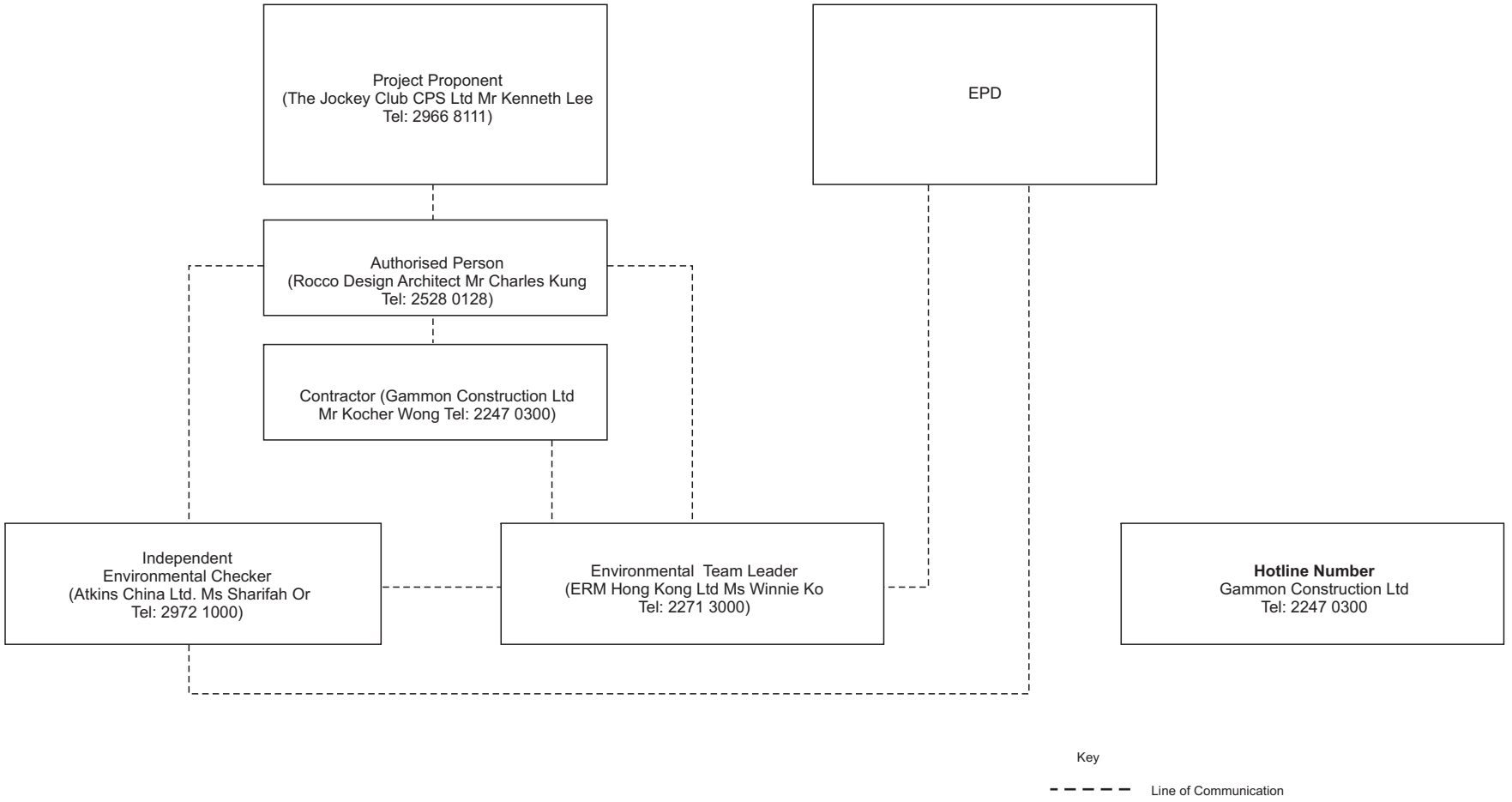
賽馬會文物保育有限公司
The Jockey Club CPS Limited



Annex A3 Site layout plan marked with works (Mar - 2012)

Annex B

Project Organization Chart and Contact Detail



Annex B

Project Organisation

FILE: 0095646k
DATE: 07/12/2011

Environmental Resources Management

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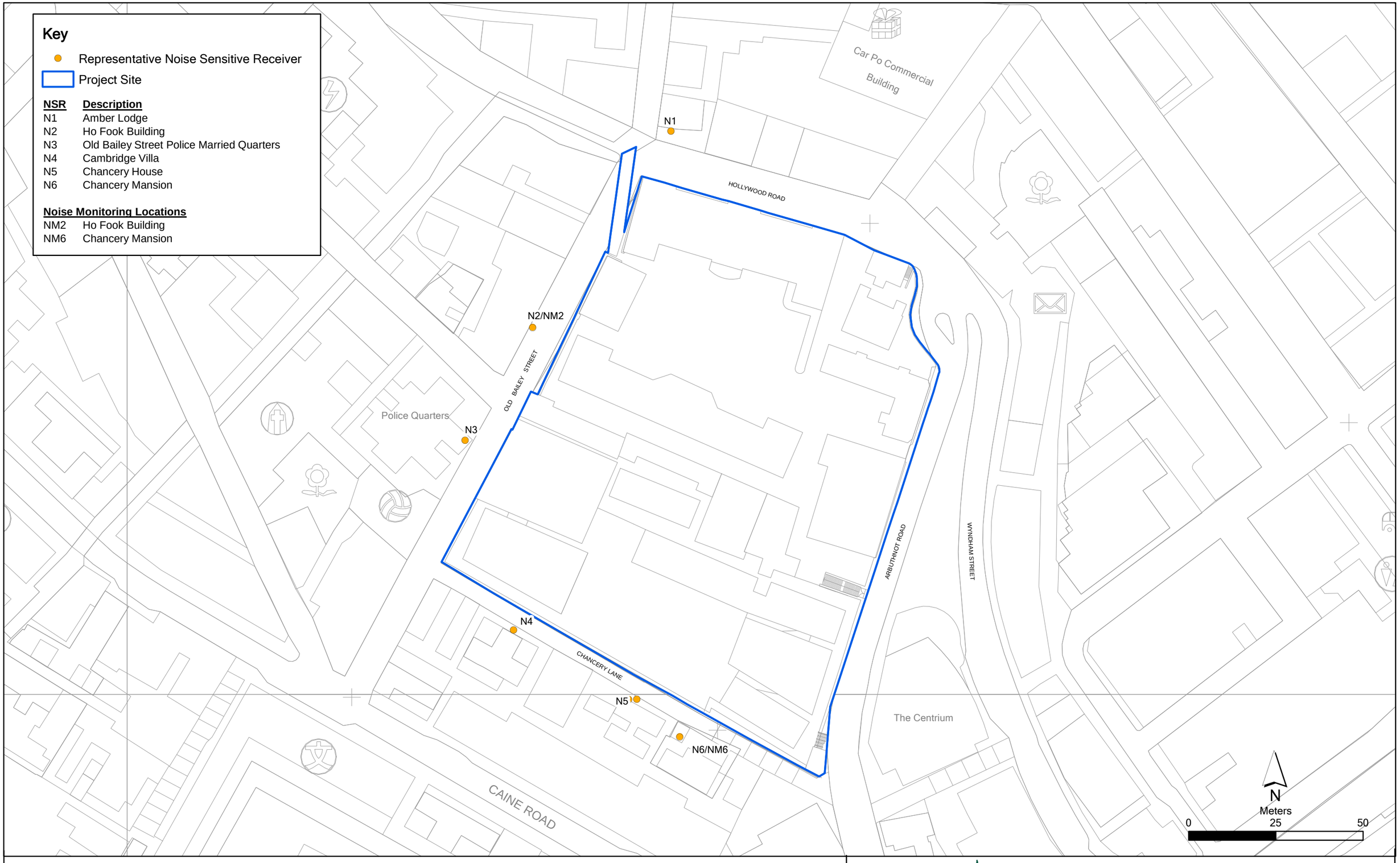
賽馬會文物保育有限公司
The Jockey Club CPS Limited

Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



Annex C

Location of Representative Noise Sensitive Receivers and Noise Monitoring Locations

File: 0095646_NSR_NM.mxd
Date: 12/01/2012

Environmental Resources Management

ERM

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

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 Next Reporting Month - March 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Mar	2-Mar	3-Mar
						Noise Monitoring at NM2 & NM6
4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar
					Noise Monitoring at NM2 & NM6	
11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar
				Noise Monitoring at NM2 & NM6		
18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar
			Noise Monitoring at NM2 & NM6			
25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar
		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 - April 2012

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

Annex E

Calibration Reports for Calibrators and Sound Level Meters

輝創工程有限公司
Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate 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 : H C Chan

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
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輝創工程有限公司
Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No. : C113870

Calibration Report

ITEM TESTED

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

TEST CONDITIONS

AMBIENT TEMPERATURE : (23 ± 2)°C RELATIVE HUMIDITY : (55 ± 20)%
LINE VOLTAGE : ---

TEST SPECIFICATIONS

Calibration

DATE OF TEST : 11 July 2011 ***JOB NO.*** : IC11-1713

TEST RESULTS

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

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by : K C Lee *Date : 11 July 2011*

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1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours before the commencement of the test.

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

3. Test equipment :

Equipment ID	Description	Certificate No.
TST150A	Measuring Amplifier	C101008
CL130	Universal Counter	C113350
CL281	Multifunction Acoustic Calibrator	C1006860

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

5.1.1 Before Adjustment

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

5.1.2 After Adjustment

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

5.2 Frequency Accuracy

5.2.1 Before Adjustment

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

5.2.2 After Adjustment

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

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.

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RION CO., LTD.

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

Certificate of Calibration

Name : **Precision sound level meter**

Model : **NL-52** **S/No. : 00710259**
(NX-42EX installed)

Microphone : **UC-59** **S/No. : 02695**

Preamplifier : **NH-25** **S/No. : 10253**

Date of Calibration : **September, 20, 2011**

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

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

RION CO., LTD.

Manager, Quality Control Department

Annex F

Event / Action Plans for Noise

Annex F Event and Action Plan for Noise

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

Annex G

Summary of Implementation Status

Annex G Implementation Schedule for Environmental Protection Measures

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

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		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.			
S3.7.1 & 3.7.2	-	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 updated CMP shall be submitted to the AMO for approval before the operation stage of the project.	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
Landscape & Visual					
S4.7.27	-	<u>*In-situ Tree Protection - Cordon Zone (CZ)*</u> Cordon off each tree along its drip line (below the crown) with a chain-link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.	Whole site	During construction	√
S4.7.2	-	<u>*In-situ Tree Protection - Advanced & Phased Root Pruning*</u> All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.	Whole site	During construction	√
S4.7.2	-	<u>*In-situ Tree Protection - Foliage cleansing system*</u> A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	√

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation. Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm (*Table 4.3*), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested:: – *Bauhinia* 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. – *Bauhinia purpure*, a native evergreen with lighter purple flowers from late autumn to early winter. – *Bauhinia variegata*, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves.			
S4.7.2	S4	<u>*Vertical Greening*</u> Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible. As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		each of the large protruding piers and an offset be made from both the top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the exiting wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	***New Custom Paving*** New, Porous, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – No custom paving was conducted during the reporting month.
S4.7.2	S4	*In-situ Tree Protection - Quarterly inspection* Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (*http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf*) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
Noise					
S5.9	-	The following site practices should be followed during the construction of the Project: • Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; • Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; • Mobile plant, if any, will be sited as far away from NSRs as	Whole Site	During construction	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		possible; • 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.			
S5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	<>
S5.9	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m^{-2} and have no openings or gaps.	Whole Site	During construction	N/A – Not observed.
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	√
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	√
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During construction	√
Air Quality					
S6.8.1	-	Dust control measures stipulated in the *Air Pollution Control (Construction Dust) Regulation* will be implemented during the	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		construction phase to control the potential fugitive dust emissions.			
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	√
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	√
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	√
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	√
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	√
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	√
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	√
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	√

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

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	√
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	√
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stomwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	√
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	√
Waste Management					
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	√
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	√

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		bund must be tested and disposed of as chemical waste, if necessary); and • Be arranged so that incompatible materials are appropriately separated.			
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	N/A – Not observed.
S8.5	S6 & Table 6.1	*General Refuse* General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	√
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	√
S8.5	S6	*Staff Training* At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commence-ment of construction	√
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	√

Remark:

√	Compliance of Mitigation Measures
<>	Compliance of Mitigation but need improvement
x	Non-compliance of Mitigation Measures
▲	Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd
Δ	Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
N/A	Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

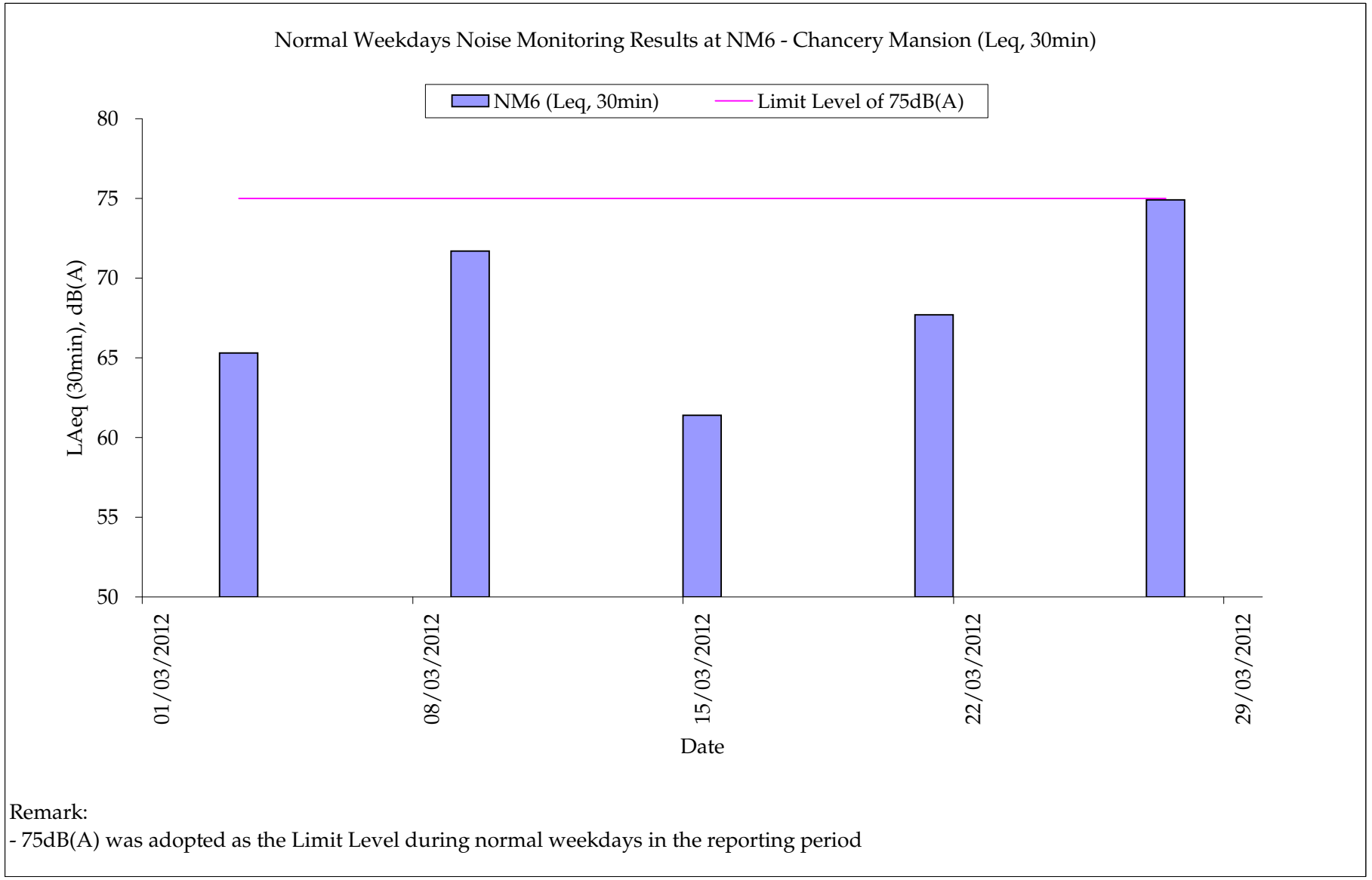
Daytime Noise Monitoring Results

NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID	Compliance (Y/N)
				Leq	L10	L90							
3-Mar-12	15:18	15:48	Cloudy	65.3	67.4	60.9	Compressor, breaker (within the project site)	-	-	0.5	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
9-Mar-12	9:00	9:30	Cloudy	71.7	73.1	68.8	Compressor, breaker, lifting equipment (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
15-Mar-12	9:00	9:30	Fine	61.4	62.7	59.8	Crane (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
21-Mar-12	13:25	13:55	Fine	67.7	69.6	65.0	Lifting equipment, excavation (within the project site)	Traffic Noise	-	0.2	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
27-Mar-12	11:24	11:54	Sunny	74.9	78.9	67.8	Breaker, lifting equipment (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
			Min.	**61.4**									
			Max.	**74.9**									

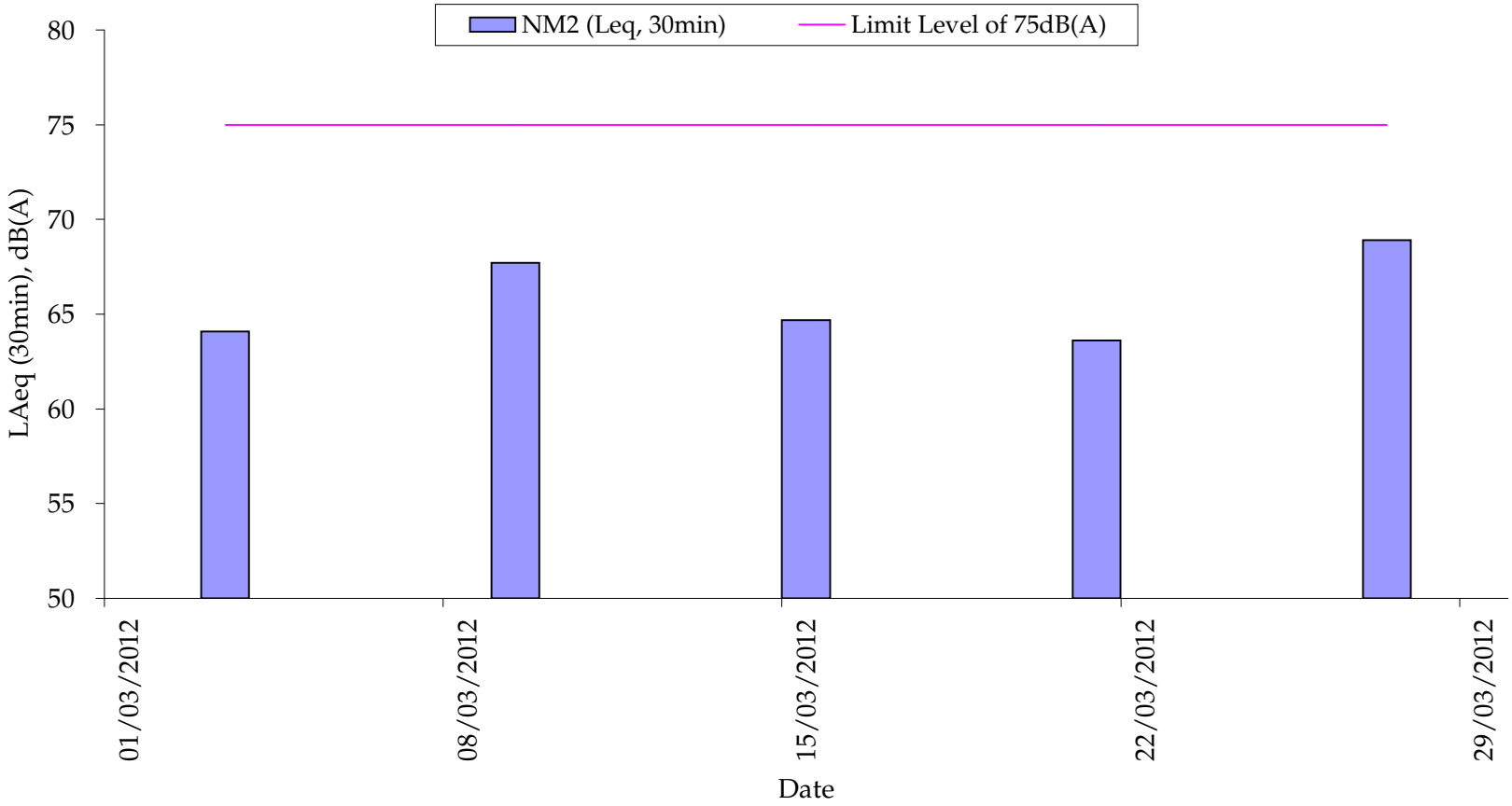
NM2 Ho Fook Building

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID	Compliance (Y/N)
				Leq	L10	L90							
3-Mar-12	14:38	15:08	Cloudy	64.1	65.6	62.4	Compressor, breaker (within the project site)	Traffic Noise	-	0.5	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
9-Mar-12	9:38	10:08	Cloudy	67.7	69.2	64.9	Compressor, breaker, lifting equipment (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
15-Mar-12	10:46	11:16	Fine	64.7	66.1	61.5	Crane (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
21-Mar-12	14:02	14:32	Fine	63.6	65.8	60.8	Lifting equipment, excavation (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
27-Mar-12	10:44	11:14	Sunny	68.9	70.4	66.7	Breaker, lifting equipment (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)	Y
			Min.	**63.6**									
			Max.	**68.9**									



Remark:
- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period

Normal Weekdays Noise Monitoring Results at NM2 - Ho Fook Building (Leq, 30min)

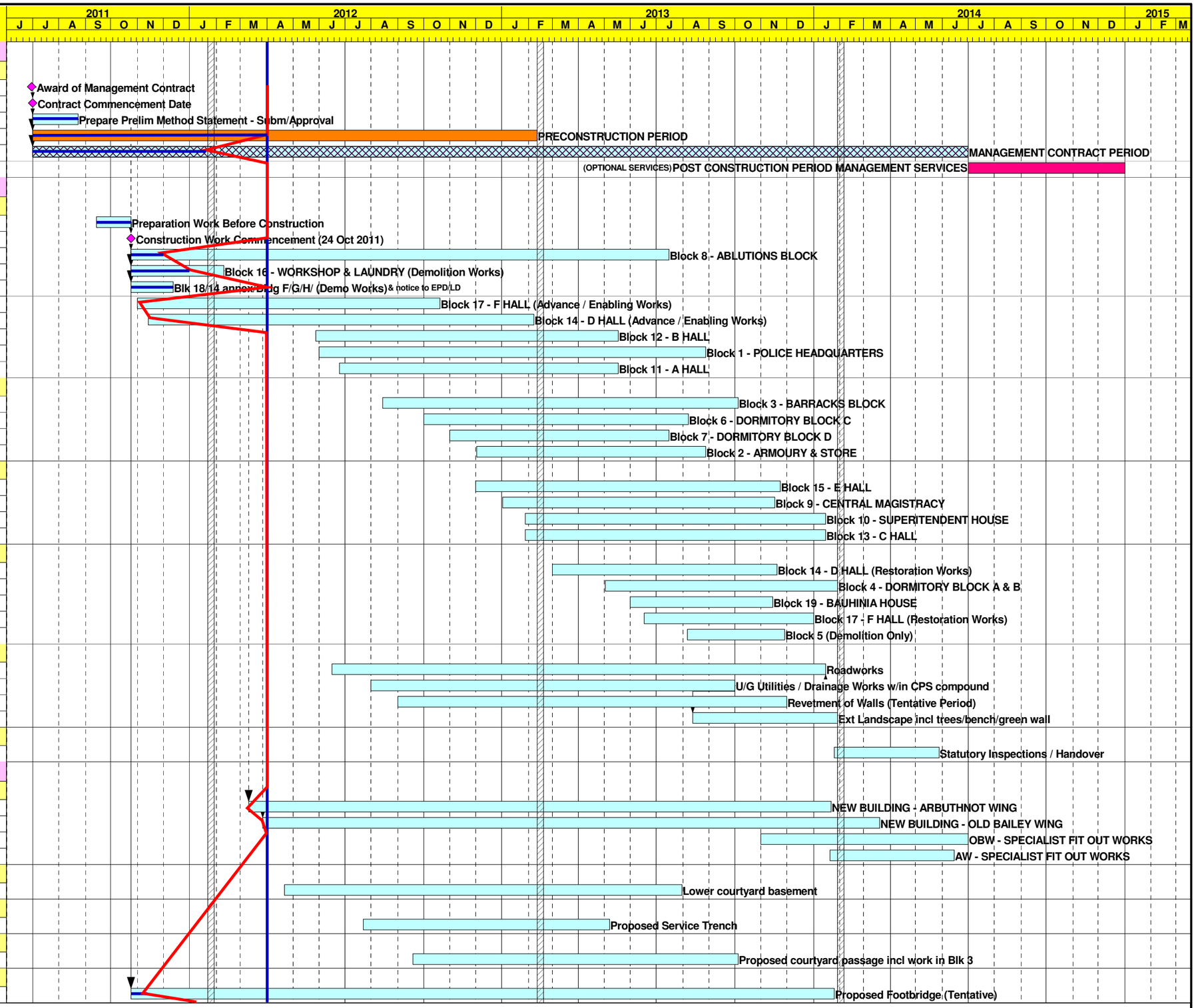


Remark:
- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period

Annex I

Construction Programme for the Project

Activity ID	Activity Description	Dur (Cal Days)
GENERAL		
000110	Award of Management Contract	0
000130	Contract Commencement Date	0
000510	Prepare Prelim Method Statement - Subm/Approval	53
000600	PRECONSTRUCTION PERIOD	592*
000700	MANAGEMENT CONTRACT PERIOD	1,096*
000800	POST CONSTRUCTION PERIOD MANAGEMENT SERVICES	184
EXISTING BUILDING		
PHASE 1		
080003	Preparation Work Before Construction	40
080005	Construction Work Commencement (24 Oct 2011)	0
080010	Block 8 - ABLUTIONS BLOCK	631*
160010	Block 16 - WORKSHOP & LAUNDRY (Demolition Works)	109*
180010	Blk 18/14 annex/Bldg F/G/H/ (Demo Works)	50*
170010	Block 17 - F HALL (Advance / Enabling Works)	355*
140010	Block 14 - D HALL (Advance / Enabling Works)	452*
120010	Block 12 - B HALL	354*
010005	Block 1 - POLICE HEADQUARTERS	453*
110010	Block 11 - A HALL	326*
PHASE 2		
030005	Block 3 - BARRACKS BLOCK	416*
060005	Block 6 - DORMITORY BLOCK C	310*
070005	Block 7 - DORMITORY BLOCK D	257*
020005	Block 2 - ARMOURY & STORE	268*
PHASE 3		
150010	Block 15 - E HALL	357*
090005	Block 9 - CENTRAL MAGISTRACY	319*
100010	Block 10 - SUPERITENDENT HOUSE	352*
130010	Block 13 - C HALL	352*
PHASE 4		
140030	Block 14 - D HALL (Restoration Works)	264*
040005	Block 4 - DORMITORY BLOCK A & B	273*
190005	Block 19 - BAUHINIA HOUSE	168*
170030	Block 17 - F HALL (Restoration Works)	198*
050002	Block 5 (Demolition Only)	114*
Other Works		
253110	Roadworks	449*
251110	U/G Utilities / Drainage Works w/in CPS compound	329
240010	Revetment of Walls (Tentative Period)	370
255110	Ext Landscape incl trees/bench/green wall	135
STATUTORY INSPECTION / HANDOVER		
309010	Statutory Inspections / Handover	124*
NEW CONSTRUCTION		
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*
U/G Plantroom (at Lower Courtyard)		
200018	Lower courtyard basement	466*
Service Tunnel		
220010	Proposed Service Trench	288*
Courtyard Passage		
210010	Proposed courtyard passage incl work in Blk 3	381*
New Footbridge		
230010	Proposed Footbridge (Tentative)	825*



Start Date	07JUL10
Finish Date	31DEC14
Data Date	07JUL10
Run Date	07SEP11 09:41

?Primavera Systems, Inc.

Early Bar
Progress Bar

TP30

Sheet 1 of 1

CENTRAL POLICE STATION
CONSERVATION AND REVITALIZATION
(MANAGEMENT CONTRACT)
CONSTRUCTION PROGRAMME

Gammon

GCL / P / J3416 /SUM/CP01 (rev 2)

Date	Revision	Checked	Approved
05SEP11	EPD submission		
29FEB12	Progress markup as of 29Feb12		

Annex J

Tree Inspection Reports

R00882

RECEIVED
30 MAR 2012

欣榮(香港)環境管理有限公司

Yan Wing (Hong Kong) Environment Management Limited

香港 新界 元朗 新田 米埔村 青山道 14A 號 DD 105
No. 14A, DD105, Castle Peak Road, Mai Po Tsuen, San Tin, Yuen Long, 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@hotmail.com

30th March 2012
Our Ref. : YW/TP/GAMMON/2012/3/1

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

Dear Sir,

Summary of Monthly Inspection Report for the Six Existing Trees
at Central Police Station Compound for March. 2012
(Contract Ref. : J3416/400.4/D00025)

Tree No.	Botanical Name	Date of Inspection	Overall Health Condition Good/Fair/Poor	Remarks
Tree-5	*Mangifera indica* 芒果	19th Mar. 2012	Good	1. Remove seedlings of "龍眼樹苗" from the planter.
Tree-6	*Aleurites moluccana* 石栗	19th Mar. 2012	Fair	N.F.A.
Tree-7	*Aleurites moluccana* 石栗	19th Mar. 2012	Fair	N.F.A.
Tree-8	*Plumeria rubra* 紅雞蛋花	19th Mar. 2012	Fair	1. Remove all barded wires away from the trunk.
Tree-9	*Araucaria cunninghamia* 花旗杉	19th Mar. 2012	Fair	1. Remove all barded wires away from the trunk.
Tree-11	*Dracaena marginata* 馬尾鐵	19th Mar. 2012	Fair	N.F.A.

欣 榮 (香港) 環 境 管 理 有 限 公 司

Yan Wing (Hong Kong) Environment Management Limited

香港 新界 元朗 新田 米埔村 青山道 14A 號 DD 105
No. 14A, DD105, Castle Peak Road, Mai Po Tsuen, San Tin, Yuen Long, 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@hotmail.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.1017)and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

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

(WONG Pak Hay)
Horticulture Manager

YAN WING (HONG KONG) ENVIRONMENT MANAGEMENT LIMITED 欣榮(香港)環境管理有限公司

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

General Information 基本資料

Company 公司:	**Gammon Construction Ltd**	Name of Tree Inspection officer 巡查人員姓名:	**LAU Man Chung**
File Ref. 檔案編號:	**YW/TP/GAMMON/2012/3/2**	Name of Endorsement Officer 覆核人員姓名:	**WONG Pak Hay**
Date of Inspection 巡查日期:	**March 19, 2012**		
Project/Contract No.合約/工程編號：	**J3416/400.4/D00025**		

Location Information 位置資料

Location 地點:	**Central Police Station Compound.**	Nearby Utility Post No. 就近公用設施編號：	

Location Types 地點類別:
Address : __
(multiple answers allowed)
可選多於一項)

- ☐ Roadside 路旁
- ☒ Open space 空地
- ☐ Exhibition Centre 展覽中心
- ☐ View Point 觀景台
- ☐ Walking / nature trail 行山徑 / 自然徑
- ☐ Community Hall / Centre 社區會堂 / 中心
- ☐ Roadside Planter 路旁花圃
- ☐ Rain shelter / pavilion 避雨亭 / 涼亭
- ☐ Sitting out area 休憩處
- ☐ Others *(please specify)*其他 *(請說明)*:_____

General Tree Information 基本樹木資料

*** Delete as appropriate** 請把不合適的刪除

Main tree species in the group or minority tree species of significant size 在群組內的主要樹種或樹幹胸徑或高度或樹冠範圍較大的樹種 *(Note 2)*	Approx. number of trees in the relevant species or as a % of tree group 該樹種在群組內的百份比/數目*	Range of tree height (m) 該樹種高度範圍	Overall health condition 整體健康狀況 *(good, fair, poor* 好，良，差)	Overall structural condition 整體結構狀況 *(good, fair, poor* 好，良，差*)*	Other remarks (Any special tree condition, e.g. dying/dead, pest/disease problem and structural defects; and soil condition 其他評語 (樹木狀況例如：凋謝/枯樹/病蟲害或結構問題; 及泥土狀況)
Mangifera indica 芒果	**17%, 1 No.**	**16M**	**GOOD**	**GOOD**	
Aleurites moluccana 石栗	**32% 2 Nos.**	**10-13M**	**FAIR**	**FAIR**	
Plumeria rubra 紅雞蛋花	**17% 1 No.**	**7M**	**FAIR**	**FAIR**	
Araucaria cunninghamia 花旗杉	**17% 1 No.**	**13M**	**FAIR**	**FAIR**	
Dracaena marginata 馬尾鐵	**17% 1 No.**	**8M**	**FAIR**	**FAIR**	

Target 目標

TARGET *(people or property potentially affected by tree/branch failure)* 目標 *(因樹木倒塌或枝條斷裂而受影響的人或財產)*
Does target exist? 目標是否存在? ☒ Yes 是 ☐ No 否
Can target be moved?能否移除目標? ☐ Yes 是 ☒ No 否
Can the use of site be restricted? 可否限制場地的使用? ☒ Yes 是 ☐ No 否
Frequency of use of location 使用該地點的頻密程度: ☐ Occasional use 偶爾使用 ☐ Intermittent use 間歇使用 ☒ Frequent use 經常使用 ☐ Constant use 恆常使用

Identification of Trees for Remedial Action or Detailed Tree Risk Assessment

識別下述樹木，以便採取風險緩減措施或進行詳細樹木風險評估

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

Attached Information 附夾資料

☐ Site plan 場地平面圖 ☒ Photo record 相片紀錄 ☐ Others 其他 *(please specify 請說明)* : **Monthly Inspection Reports**

Signature of Tree Inspection Officer :

Signature of Endorsement Officer:

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

Date: 30-3-2012

Note 1: If remedial action (such as pruning) undertaken cannot mitigate the potential risk of tree or branch failure, detailed tree risk assessment (using Form 2) should be carried out.
備註 1： 若風險緩減措施(如枝幹修剪)仍未能解決倒塌或枝條斷裂的潛在風險，應爲該樹進行詳細的樹木風險評估(表格 2)。
Note 2: Please read in conjunction with TMO's Guidelines on Tree Risk Assessment and Management Arrangement (Para. 4.3. refers.)
備註 2： 請參閱樹木管理辦事處的樹木風險評估安排及管理指引(第 4.3 節)

Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)

I. TREE NUMBER : Tree-5 *Mangifera indica* 芒果

II. BASIC INFORMATION :

Height (m)	16m	Crown spread (m)	18m
DBH (mm)	1000mm	Overall Health Condition Good/Fair/Poor	Good
Date of Inspection	19th March 2012	Last Inspection Date	24th February 2012

III. COMMENTS :

1. Overall health condition of the tree is good.
2. Some seedlings of *Dimocarpus longan* (龍眼樹苗) remained at the planter.
3. Two pipes lead water upwards to the tree top for irrigating.
4. Cordon zone appears clean and tidy.
5. The tree is well-maintained at the time of inspection.

IV. RECOMMENDATIONS :

1. Remove the above-mentioned seedlings (龍眼樹苗) away from the planter.

V. PHOTO RECORD :

Fig 1. Tree number

Fig 2. Seedlings of *Dimocarpus longan* (龍眼樹苗) remained at the planter.

Fig. 3 Two pipes lead water upwards to the tree top for irrigating.

Fig. 4 Cordon zone appears clean and tidy.

Fig. 5 Side view of Tree-5.

Fig. 6 Overall view of Tree-5 during inspection on 19th March 2012.

Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA–HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

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

Dated this : 30th March 2012

YAN WING (HONG KONG) ENVIRONMENT MANAGEMENT LIMITED 欣榮(香港)環境管理有限公司

Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)

I. TREEE NUMBER : Tree-6 *Aleurites moluccana* 石栗

II. BASIC INFORMATION :

Height (m)	10m	Crown spread (m)	10m
DBH (mm)	510mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	19th March 2012	Last Inspection Date	24th February 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. The planter is clean and tidy.
3. Canvas set up on fencing area to protect trees inside the cordon zone.
4. The cordon zone appears clean and tidy.
5. The tree is well-maintained at the time of inspection.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number

Fig 2. Overall view of Tree-6. A pipe leads water upwards to the tree top for irrigation

Fig. 3 The planter appears clean and tidy at the time of inspection.

Fig. 4 Cordon zone is clean and tidy.

Fig. 5 Canvas set up to protect the trees inside the cordon zone.

Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

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

Dated this : 30th March 2012

Appendix 3

Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)

I. TREEE NUMBER : Tree-7 *Aleurites moluccana* 石栗

II. BASIC INFORMATION :

Height (m)	13m	Crown spread (m)	12m
DBH (mm)	650mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	19th March 2012	Last Inspection Date	24th February 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Planter is clean and tidy.
3. Demolition works took place outside the cordon zone.
4. The cordon zone keeps clean and tidy.
5. The tree is well maintained at the time of inspection.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number

Fig 2. The planter appears clean and tidy. Irrigation system has been installed for the tree.

Fig. 3 A pipe leads water upwards to tree top for irrigation.

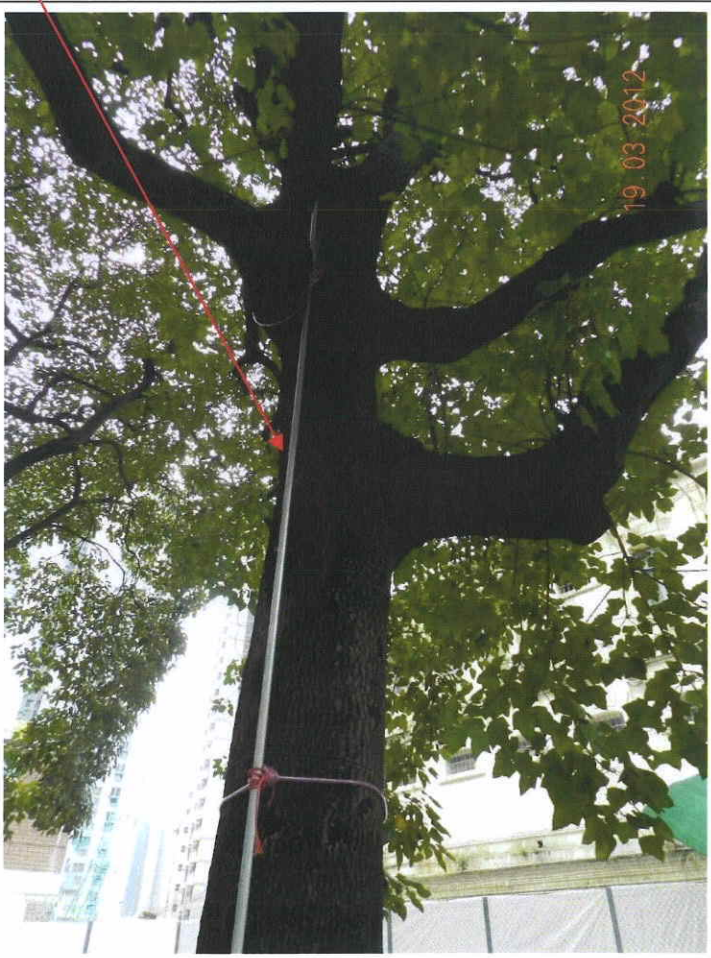


Fig. 4 The cordon zone appears clean and tidy at the time of inspection.

Fig. 5 Demolition works in progress outside the cordon zone.

Fig. 6 Overall view of Tree-7 on 19th March 2012.

Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

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

Dated this : 30th March 2012

Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)

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	19th March 2012	Last Inspection Date	24th February 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. The planter is clean and tidy.
3. The cordon zone appears clean and tidy.
4. Some barded wires remained on the upper trunk.

IV. RECOMMENDATIONS :

1. Remove the barded wires away from the mid trunk.

V. PHOTO RECORD :

Fig 1. Tree number

Fig 2. The planter is clean and tidy at the time of inspection.

Fig. 3 Cordon zone appears clean and tidy.

Fig. 4 Lots of barded wire remained on the upper trunk.

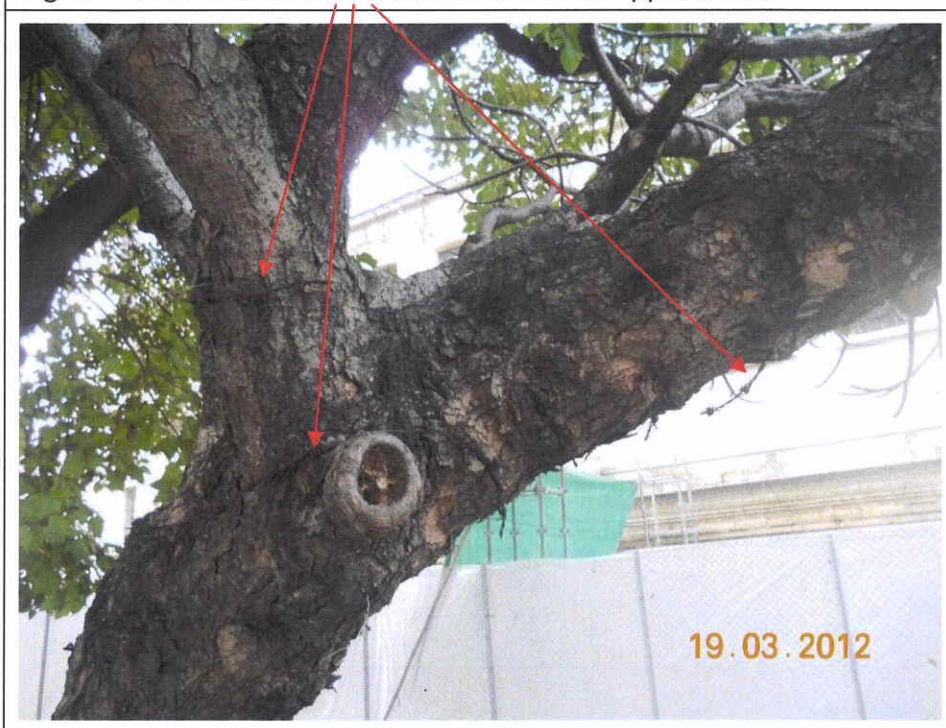


Fig. 5 Overall view of Tree-8 during inspection on 19th March 2012.

Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

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

Dated this : 30th March 2012

YAN WING (HONG KONG) ENVIRONMENT MANAGEMENT LIMITED 欣榮(香港)環境管理有限公司

Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)

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

II. BASIC INFORMATION :

Height (m)	13m	Crown spread (m)	5m
DBH (mm)	230mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	19th March 2012	Last Inspection Date	24th February 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. The planter is clean and tidy.
3. The cordon appears clean and tidy.
4. Lots of barded wire remained on the upper trunk of Tree-9.
5. Demolition works took place outside the cordon zone.

IV. RECOMMENDATIONS :

1. Remove the barded wires away from Tree-9 .

V. PHOTO RECORD :

Fig 1. Tree number

Fig 2. The planter is clean and tidy. Irrigation system has been installed for the tree.

Fig. 3 The site keeps clean and tidy at the time of inspection.

Fig. 4 Lots of barded wire remained on the tree.

Fig. 5 Demolition works took place outside the protection zone.

Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

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

Dated this : 30th March 2012

Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)

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

II. BASIC INFORMATION :

Height (m)	8m	Crown spread (m)	2m
DBH (mm)	170mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	19th March 2012	Last Inspection Date	24th February 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. The planter appears clean and tidy.
3. Two doors are properly locked and restrict admittance to the cordon zone.
4. The tree is well-maintained at the time of inspection.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number

Fig. 2 Rubbish remains at the planter during inspection on 24.2.2012.

Fig. 3 Planter appears clean and tidy on 19th March 2012.

Fig. 4 Side door has been properly locked at the time of inspection.

Fig. 5 Overall view of the tree.

Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

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

Dated this : 30th March 2012

Annex K

Environmental Complaint, Environmental Summon and Prosecution Log

Annex K Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	4	0
Overall Total	4	0

COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

Log Number:	**2012/03/001**
Date of Complaint Received	2 March 2012
Location of Complaint	Project Site
Nature of Complaint	Noise and Light nuisance
Complaint Received by	GCL
Complainant	An adjacent resident (Mr. Kwong)

Details of Complaint

On 2 March, GCL received a complaint on the following aspects:

1. Noise generated from people speaking loudly and noisy construction work during day time. The complainant did not specify the exact date, time and type of noise.

2. Noise nuisance was noted from people and vehicle delivery nearby the project site at night time. No specific date, time and exact location were given.

3. Light nuisance caused by spot light along Old Bailey Street was noted during the night time. The complainant did not specify the date, time and exact location of the light.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted included demolition works between Block 3 and Block 8, and Block 9, modification works of the site gantry nearby Block 8, minor sundry enabling/opening up works. No night-time works were conducted.

2. Weekly daytime noise measurement were conducted at NM2 (Ho Fook Building) along Old Bailey Street and the recorded noise levels are in a range of 64.9 and 66.6 dB(A) measured on 15 Feb, 21 Feb and 27 Feb 2012. The measured noise levels complied with the noise criterion and no exceedance were recorded.

3. Regarding the noise from the people during daytime, workers within the worksites, pedestrians or adjacent users along Bailey Street may be the sources of the noise from the people as no sufficient information was provided by the complainant.

4. Regarding the noise from the noisy construction works, the measured noise levels showed that no exceedance of the noise criteria.

5. Regarding the noise generated from people and vehicle delivery at night-time, since no night-time construction works were conducted, the noise generated from people and vehicle delivery at night-time should not be related to the Project.

6. Regarding the light nuisance, the possible source of glare would be the two spotlights installed near the entrance of the gate at Old Bailey Street.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, although some issues are not related to Projects, the following mitigation measures are proposed to Contractor to further minimize the nuisance to the adjacent users:

- Remind the workers to lower down the voice especially outside the site area during day time and night time if night-time work is conducted;
- Provide acoustic curtain to further reduce the noise generated from the demolition work;
- Switch off the spot light automatically near the entrance of gate at Old Bailey Street after 8:00pm. All lights should be directed towards the project site.

The Contractor are also reminded to implement all relevant noise and landscape and visual mitigation measures pecified in the EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project to avoid causing noise and light nuisance.

The Contractor has implemented the above mitigation measures/recommendations on 3 March 2012.

Date of File Closed : 6 March 2012

Approved and Filed by:

(Winnie Ko, ET Leader)
Date: 7 March 2012

COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

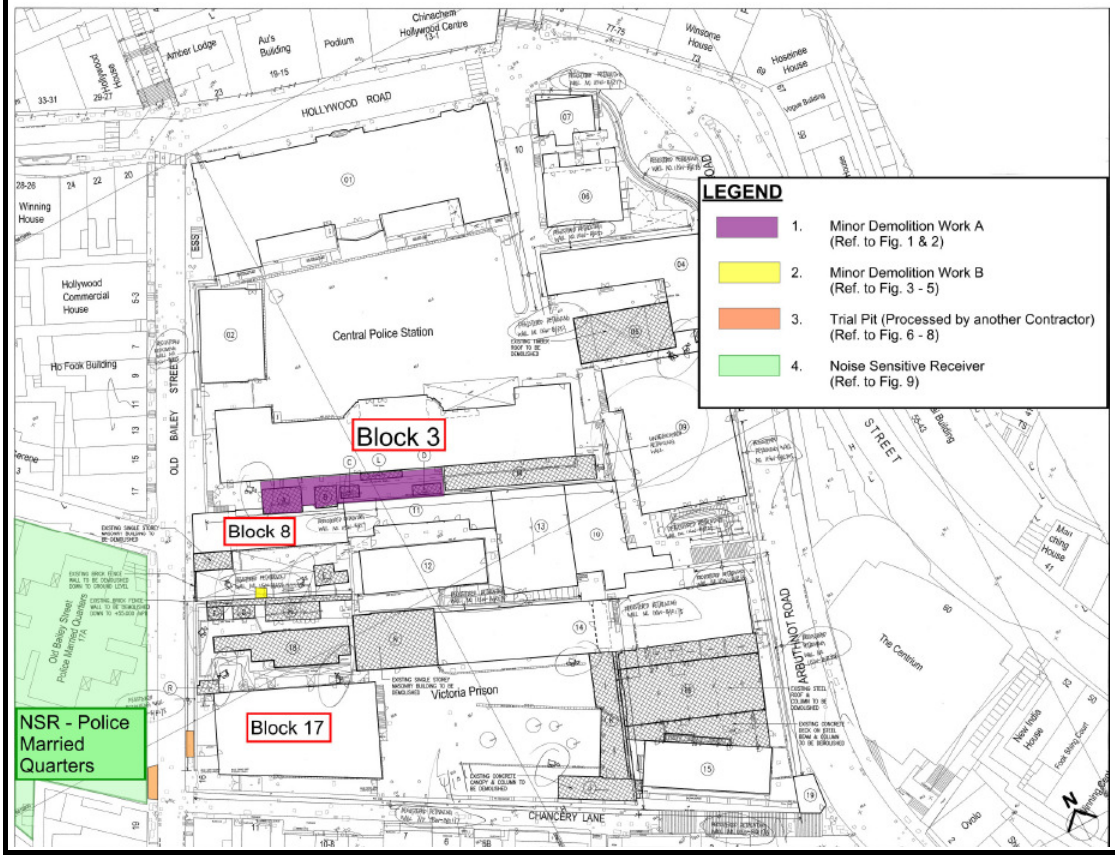
Log Number:	**2012/03/002**
Date of Complaint Received	7 March 2012
Location of Complaint	Project Site and Old Bailey Street
Nature of Complaint	Noise nuisance
Complaint Received by	GCL
Complainant	A resident of the Police Married Quarters adjacent to Old Bailey Street

Details of Complaint

On 7 March, GCL received a complaint from a resident of the Police Married Quarter adjacent to Old Bailey Street on the noise nuisance from construction work since the morning time. The complainant requested for the completion date of the noisy construction work.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted included demolition works between Block 3 and Block 8, and nearby Block 8 and gantry entrance; and asbestos abatement work at Block 16. It was also noted that trial pit work for WSD's project was conducted by another contractor at Old Bailey Street.
2. It was noted that the location of the trial pit work is nearer to the residence of the complainant compared to the construction works of the project (see the figure below). Both the construction works by another contractor at Old Bailey Street and within the project site could be possible sources of noise nuisance.



Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, the following mitigation measures are proposed to the Contractor to further minimize the nuisance to the adjacent users:

- Provide acoustic curtain to reduce the noise generated from the demolition work; and
- Install a silencer to the breaker used.

The Contractor has replied to the complainant on 7 March 2012 that the construction work at Old Bailey Street would be completed within two days 9 (as indicated verbally by WSD's contractor) and the demolition work within the project site would be completed by end of Mar 2012 and the above mitigation measures will be implemented.

The Contractor are also reminded to implement all relevant noise and landscape and visual mitigation measures specified in the EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project to avoid causing noise and light nuisance.

The Contractor has implemented the above mitigation measures/recommendations on 8 March 2012.

Date of File Closed : 9 March 2012

Approved and Filed by:

(Winnie Ko, ET Leader)
Date: 9 March 2012

COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

Log Number:	**2012/03/003**
Date of Complaint Received	22 March 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Hong Kong Jockey Club (HKJC)
Complainant	Savills Residence Limited (Property management of the Mood@Soho)

Details of Complaint

On 22 March, HKJC received a complaint on the following aspects:

1. The construction work has commenced too early in the morning (at around 8am) and caused noise nuisance to the tenants.

2. Heavy / noisy machinery was used early in the morning and the complainant has suggested to arrange heavy construction works 30 mins to an hour later.

3. The complainant has suggested to install sound barriers to reduce the noise level.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted included demolition works between Block 3 and Block 8, and Block 16; minor works to set up the crawler crane and piling machine around Block 18.

2. Weekly daytime noise measurement were conducted at NM1 (Chancery Mansion) along Chancery Lane and the recorded noise level is 67.7 dB(A) measured on 21March 2012 (a day before the date of complaint received). The measured noise level is below the noise criterion.

3. Regarding the noise generated from the construction works, the measured noise levels showed that no exceedance of the noise criteria.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, the following mitigation measures are proposed to minimize the noise nuisance to the adjacent users:

- Provide acoustic curtain and silencer to the handheld mechanical equipment, and adopt a quieter demolition method (e.g. the use of crusher) to further reduce the noise generated from the demolition work;
- Provide enclosure to the coming piling works to reduce the noise generated during piling; and
- Arrange heavy/noisy construction works to be conducted after 8:30am to avoid noise nuisance to the adjacent residents.

The Contractor are also reminded to implement all relevant noise mitigation measures specified in the EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project to avoid causing noise nuisance.

Date of File Closed : 3 April 2012

Approved and Filed by:

(Winnie Ko, ET Leader)
Date: 3 April 2012

COMPLAINT INVESTIGATION FORM

Basic Information of Complaint

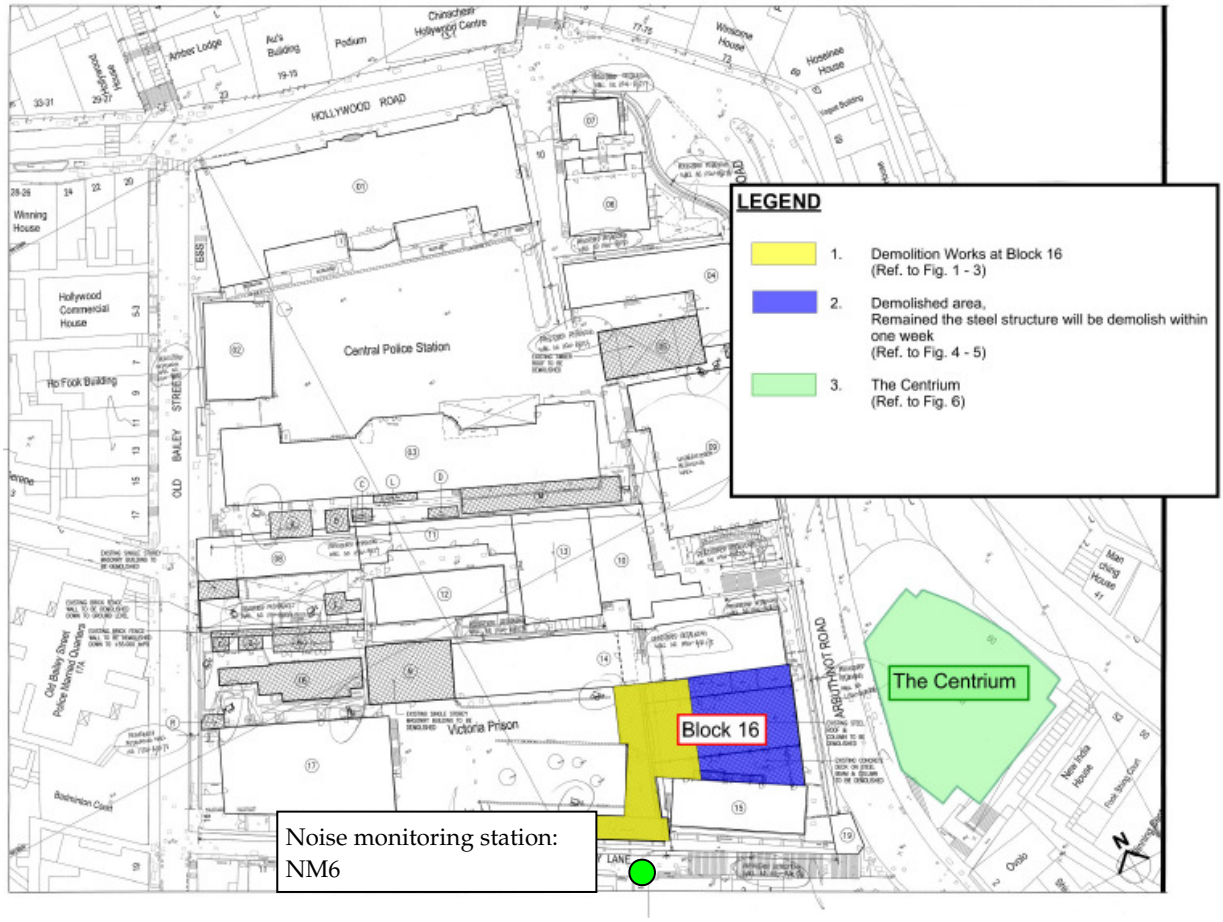
Log Number:	**2012/03/004**
Date of Complaint Received	28 March 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Gammon Construction Limited (GCL)
Complainant	Mr Cheng (Property management of the Centrium)

Details of Complaint

On 28 March, GCL received a complaint from the property management of the Centrium on the noise nuisance from demolition works within the project site opposite the Centrium during the week.

Investigation Report

1. According to the works summary provided by the Contractor, construction work conducted during the week included demolition works at Block 16 which is located opposite the Centrium (see the figure below).



2. It was noted that the location of the demolition works at Building 16 is the nearest to the complainant. The construction noise from the demolition works at Building 16 could be possible sources of noise nuisance noted by the complainant.

3. Weekly daytime noise measurement was conducted at NM6 (Chancery Mansion) along Chancery Lane from 11:24am to 11:54am on 27 March 2012 (a day before the date of complaint received) (see above figure) and the recorded noise level is 74.9 dB(A) . During the measurement, demolition works between Blocks 3 and 8 and at Block 16 were being carried out. The measured noise level is below the noise criterion.

4. The construction works carried out during the noise measurement is similar to that carried out during the period mentioned by the complainant and the measured noise levels showed that no exceedance of the noise criterion.

5. Although no exceedance of noise criterion is found, mitigation measures during demolition works should be recommended to further reduce the noise generated from the construction works.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

Based on the above investigation, although no exceedance of noise criteria, the noise level measured on a day before the complaint received is close to the noise criterion. Apart from implementing all relevant noise mitigation measures specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project, the following mitigation measures are proposed to further minimize the noise nuisance to the adjacent users:

- Provide acoustic curtain and silencer to the handheld mechanical equipment to further reduce the noise generated from the demolition work

Date of File Closed : 3 April 2012

Approved and Filed by:

(Winnie Ko, ET Leader)
Date: 3 April 2012

Annex L

Records of Vibration Monitoring

Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report No. 4

(20 February 2012 ~ 3 March 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

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

Stage: Initial Stage (Baseline) for stage 2

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

T/ 27892376 F/ 27892207 email/ info@ysk2.com
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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
20 Feb 2012	No Demolition Works	VM1	No Demolition Works		
20 Feb 2012		VM4			
20 Feb 2012		VM5			
20 Feb 2012		VM6			
20 Feb 2012		VM7			
20 Feb 2012		VM8			
20 Feb 2012		VM9			
20 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
21 Feb 2012	No Demolition Works	VM1	No Demolition Works		
21 Feb 2012		VM4			
21 Feb 2012		VM5			
21 Feb 2012		VM6			
21 Feb 2012		VM7			
21 Feb 2012		VM8			
21 Feb 2012		VM9			
21 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
22 Feb 2012	No Demolition Works	VM1	No Demolition Works		
22 Feb 2012		VM4			
22 Feb 2012		VM5			
22 Feb 2012		VM6			
22 Feb 2012		VM7			
22 Feb 2012		VM8			
22 Feb 2012		VM9			
22 Feb 2012		VM10			

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Feb 2012	No Demolition Works	VM1	No Demolition Works		
23 Feb 2012		VM4			
23 Feb 2012		VM5			
23 Feb 2012		VM6			
23 Feb 2012		VM7			
23 Feb 2012		VM8			
23 Feb 2012		VM9			
23 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 Feb 2012	No Demolition Works	VM1	No Demolition Works		
24 Feb 2012		VM4			
24 Feb 2012		VM5			
24 Feb 2012		VM6			
24 Feb 2012		VM7			
24 Feb 2012		VM8			
24 Feb 2012		VM9			
24 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
25 Feb 2012	No Demolition Works	VM1	No Demolition Works		
25 Feb 2012		VM4			
25 Feb 2012		VM5			
25 Feb 2012		VM6			
25 Feb 2012		VM7			
25 Feb 2012		VM8			
25 Feb 2012		VM9			
25 Feb 2012		VM10			

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
27 Feb 2012	No Demolition Works	VM1	No Demolition Works		
27 Feb 2012		VM4			
27 Feb 2012		VM5			
27 Feb 2012		VM6			
27 Feb 2012		VM7			
27 Feb 2012		VM8			
27 Feb 2012		VM9			
27 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
28 Feb 2012	No Demolition Works	VM1	No Demolition Works		
28 Feb 2012		VM4			
28 Feb 2012		VM5			
28 Feb 2012		VM6			
28 Feb 2012		VM7			
28 Feb 2012		VM8			
28 Feb 2012		VM9			
28 Feb 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
29 Feb 2012	No Demolition Works	VM1	No Demolition Works		
29 Feb 2012		VM4			
29 Feb 2012		VM5			
29 Feb 2012		VM6			
29 Feb 2012		VM7			
29 Feb 2012		VM8			
29 Feb 2012		VM9			
29 Feb 2012		VM10			

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
1 Mar 2012	No Demolition Works	VM1	No Demolition Works		
1 Mar 2012		VM4			
1 Mar 2012		VM5			
1 Mar 2012		VM6			
1 Mar 2012		VM7			
1 Mar 2012		VM8			
1 Mar 2012		VM9			
1 Mar 2012		VM10			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
2 Mar 2012	No Demolition Works	VM1	No Demolition Works		
2 Mar 2012		VM4			
2 Mar 2012		VM5			
2 Mar 2012		VM6			
2 Mar 2012		VM7			
2 Mar 2012		VM8			
2 Mar 2012		VM9			
2 Mar 2012		VM10			

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
3 Mar 2012	11:48	VM1	0.52	5	Demolition of Spiral Staircase
3 Mar 2012	11:35	VM3	0.25	5	
3 Mar 2012	11:23	VM5	0.25	5	
3 Mar 2012	9:54	VM6	0.51	5	
3 Mar 2012	9:47	VM8	0.53	5	
3 Mar 2012	9:58	VM9	0.51	5	
3 Mar 2012	10:02	VM11	0.32	5	
3 Mar 2012	10:38	VM12	0.27	5	
3 Mar 2012	10:10	VM13	0.48	5	
3 Mar 2012	10:18	VM14	0.25	5	
3 Mar 2012	10:30	VM15	0.28	5	
3 Mar 2012	10:57	VM16	0.78	5	
3 Mar 2012	10:50	VM17	0.62	5	
3 Mar 2012	11:07	VM18	0.27	5	
3 Mar 2012	11:15	VM19	0.25	5	

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ALL STAGES

STAGE 1

VM1 PROPOSED VIBRATION MONITORING STATION

EXISTING TIMBER ROOF TO BE DEMOLISHED

EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED

EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO GROUND LEVEL

EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO +55.000 mPD

EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED

EXISTING STEEL ROOF & COLUMN TO BE DEMOLISHED

EXISTING CONCRETE DECK ON STEEL BEAM & COLUMN TO BE DEMOLISHED

EXISTING CONCRETE CANOPY & COLUMN TO BE DEMOLISHED

NOTES

1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.

LEGEND

AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

NOTES

(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)

(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
VIBRATION	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 屋宇署檔案編號
22-1/3056/10 (HU)

F.S.D. Ref. No. 消防處檔案編號

Revision/Submission 修改項/呈交

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.

Key Plan 索引圖

BD SUBMISSION

Drawing Status 製圖狀況

Client 業主
香港賽馬會慈善信託基金
The Hong Kong Jockey Club Charities Trust

Design Consultant
HERZOG & DE MEURON

Conservation Architect

Architect / AP
ROCCO 許李

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION

Drawing Title 圖名
DEMOLITION SITE PLAN (OVERALL)
VIBRATION MONITORING

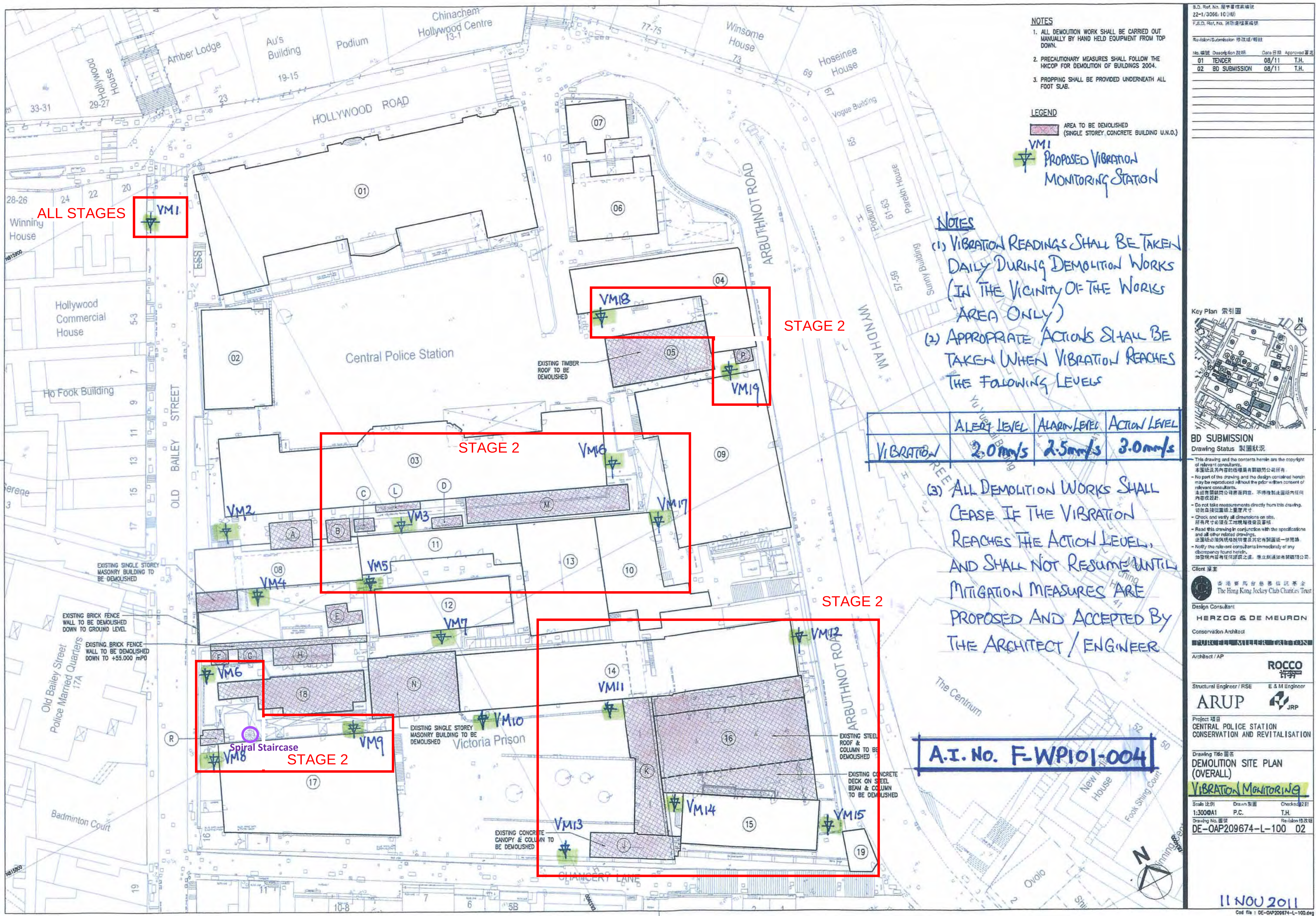
Scale 比例	Drawn 製圖	Checked 核對
1:300@A1	P.C.	T.H.

Drawing No. 圖號
DE-OAP209674-L-100 02

Re-failure 修改版

11 NOV 2011

Cad file : DE-OAP209674-L-100.dwg


NOTES
1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.
LEGEND
AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)
VM1 PROPOSED VIBRATION MONITORING STATION
NOTES
(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)
(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS
ALERT LEVEL | ALARM LEVEL | ACTION LEVEL
VIBRATION | 2.0mm/s | 2.5mm/s | 3.0mm/s
(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER
A.I. No. F-WP101-004
ALL STAGES
STAGE 2
STAGE 2
STAGE 2
STAGE 2
VM1
VM2
VM3
VM4
VM5
VM6
VM7
VM8
VM9
VM10
VM11
VM12
VM13
VM14
VM15
VM16
VM17
VM18
VM19
Spiral Staircase
HOLLYWOOD ROAD
OLD BAILEY STREET
ARBUTHNOT ROAD
WYNDHAM
CHANCERY LANE
Central Police Station
Victoria Prison
Chinachem Hollywood Centre
Amber Lodge
Au's Building
Podium
Winsome House
Hoseinee House
Hollywood Commercial House
Ho Fook Building
Winning House
Old Bailey Street Police Married Quarters
Badminton Court
Sunny Building
Parekh House
The Centrium
New Fook Shing Court
EXISTING TIMBER ROOF TO BE DEMOLISHED
EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED
EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO GROUND LEVEL
EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO +55.000 mPD
EXISTING STEEL ROOF & COLUMN TO BE DEMOLISHED
EXISTING CONCRETE DECK ON STEEL BEAM & COLUMN TO BE DEMOLISHED
EXISTING CONCRETE CANOPY & COLUMN TO BE DEMOLISHED
B.D. Ref. No. 22-1/3066/10 (HI)
Revision/Submission
01 TENDER 08/11 T.H.
02 BD SUBMISSION 08/11 T.H.
Key Plan 索引圖
BD SUBMISSION
Drawing Status 製圖狀況
Client 業主
The Hong Kong Jockey Club Charities Trust
Design Consultant
HERZOG & DE MEURON
Conservation Architect
PURCELL MILLER TRITTON
Architect / AP
ROCCO
Structural Engineer / RSE
ARUP
E & M Engineer
JRP
Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION
Drawing Title 圖名
DEMOLITION SITE PLAN (OVERALL)
VIBRATION MONITORING
Scale 1:300@A1
Drawn P.C.
Checked T.H.
Drawing No. DE-OAP209674-L-100
Revision 02
11 NOV 2011
Cad file : DE-OAP209674-L-100.dwg

Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

T/ 27892376 F/ 27892207 email/ info@ysk2.com
15/F Kai Yue Comm. Bldg., 2C Argyle St., Hong Kong

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 2

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

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15/F Kai Yue Comm. Bldg., 2C Argyle St., Hong Kong

NOTES

1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.

LEGEND

AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

NOTES

(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)

(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
VIBRATION	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

ALL STAGES

STAGE 2

STAGE 2

STAGE 2

STAGE 2

VM1 VM2 VM3 VM4 VM5 VM6 VM7 VM8 VM9 VM10 VM11 VM12 VM13 VM14 VM15 VM16 VM17 VM18 VM19

EXISTING TIMBER ROOF TO BE DEMOLISHED

EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED

EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO GROUND LEVEL

EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO +55.000 mPD

Spiral Staircase

EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED

EXISTING STEEL ROOF & COLUMN TO BE DEMOLISHED

EXISTING CONCRETE DECK ON STEEL BEAM & COLUMN TO BE DEMOLISHED

EXISTING CONCRETE CANOPY & COLUMN TO BE DEMOLISHED

Central Police Station

Victoria Prison

HOLLYWOOD ROAD

ARBUTHNOT ROAD

WYNDHAM STREET

OLD BAILEY STREET

CHANCERY LANE

Key Plan 索引圖

BD SUBMISSION

Drawing Status 製圖狀況

- Do not take measurements directly from this drawing.
切勿直接從圖紙上量度尺寸
- Check and verify all dimensions on site.
所有尺寸必須在工地核實後方可施工。
- Read this drawing in conjunction with the specifications and all other related drawings.
此圖紙須與其他相關的規格說明及其他有關圖紙一併閱讀。
- Notify the relevant consultants immediately of any discrepancy found herein.
如發現內容有任何差誤之處，應立即通知有關顧問公司。

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.

B.D. Ref. No. 屋宇署檔案編號: 22-1/3056/10 (HU)

F.S.D. Ref. No. 消防處檔案編號:

Revision/Submission 修改項/呈交

Client 業主: 香港賽馬會慈善信託基金 The Hong Kong Jockey Club Charities Trust

Design Consultant: HERZOG & DE MEURON

Conservation Architect

Architect / AP: ROCCO 許李

Structural Engineer / RSE: ARUP

E & M Engineer: JRP

Project 項目: CENTRAL POLICE STATION CONSERVATION AND REVITALISATION

Drawing Title 圖名: DEMOLITION SITE PLAN (OVERALL) VIBRATION MONITORING

Scale 比例	Drawn 製圖	Checked 核對
1:300@A1	P.C.	T.H.

Drawing No. 圖號: DE-OAP209674-L-100 02

Re-failure 修改版

11 NOV 2011

Cad file : DE-OAP209674-L-100.dwg

Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report No. 5

(5 March 2012 ~ 17 March 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

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

Stage: Initial Stage (Baseline) for stage 2

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

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Stage 2 (Notes: No demolition activities for stage 1 during the period on 5 March 2012 to 17 March 2012)

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
5 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
		VM18			
		VM19			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
6 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
		VM18			
		VM19			

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
7 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
		VM18			
		VM19			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
8 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
		VM18			
		VM19			

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
9 March 2012	No Demolition Works	VM1	No Demolition Works		
		VM3			
		VM5			
		VM6			
		VM8			
		VM9			
		VM11			
		VM12			
		VM13			
		VM14			
		VM15			
		VM16			
		VM17			
		VM18			
		VM19			

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
10 Mar 2012	11:53	VM1	0.76	5	Demolition of Building No. 16
	11:25	VM3	0.25	5	
	11:34	VM5	0.25	5	
	9:25	VM6	0.25	5	
	9:34	VM8	0.13	5	
	9:42	VM9	0.13	5	
	10:07	VM11	0.76	5	
	10:31	VM12	0.13	5	
	9:54	VM13	0.13	5	
	10:16	VM14	0.25	5	
	10:23	VM15	0.25	5	
	10:48	VM16	0.13	5	
	10:40	VM17	0.13	5	
	11:12	VM18	0.13	5	
	11:03	VM19	0.13	5	

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
12 Mar 2012	14:50	VM1	1.43	5	Demolition of Building No. 16
	14:53	VM3	1.27	5	
	12:02	VM5	0.87	5	
	13:32	VM6	0.63	5	
	13:23	VM8	0.25	5	
	13:14	VM9	0.13	5	
	13:46	VM11	0.76	5	
	14:12	VM12	0.13	5	
	13:39	VM13	0.13	5	
	13:53	VM14	0.51	5	
	14:02	VM15	0.38	5	
	14:27	VM16	0.25	5	
	14:21	VM17	0.13	5	
	14:44	VM18	0.13	5	
	14:37	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
13 Mar 2012	11:02	VM1	1.76	5	Demolition of Building J & K
	10:50	VM3	0.25	5	
	11:13	VM5	0.25	5	
	9:30	VM6	0.2	5	
	9:37	VM8	0.2	5	
	9:43	VM9	0.2	5	
	9:48	VM11	0.53	5	
	10:02	VM12	0.25	5	
	11:25	VM13	0.56	5	
	9:51	VM14	1.75	5	
	9:59	VM15	0.25	5	
	10:23	VM16	0.42	5	
	10:15	VM17	0.38	5	
	10:41	VM18	0.25	5	
	10:32	VM19	0.13	5	

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
14 Mar 2012	13:43	VM1	1.14	5	Demolition of Building 16, J & K
	13:54	VM3	0.13	5	
	13:24	VM5	0.25	5	
	10:41	VM6	0.13	5	
	10:34	VM8	0.13	5	
	10:53	VM9	0.13	5	
	14:33	VM11	0.63	5	
	11:29	VM12	0.13	5	
	11:05	VM13	0.13	5	
	11:15	VM14	1.78	5	
	11:23	VM15	0.76	5	
	14:08	VM16	0.13	5	
	14:21	VM17	0.13	5	
	14:01	VM18	0.38	5	
	14:14	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
15 Mar 2012	11:28	VM1	1.14	5	Demolition of Building 16, J & K
	11:20	VM3	0.25	5	
	11:45	VM5	0.25	5	
	10:04	VM6	0.38	5	
	9:57	VM8	0.38	5	
	9:50	VM9	0.38	5	
	10:16	VM11	0.13	5	
	10:38	VM12	0.13	5	
	10:10	VM13	0.25	5	
	10:25	VM14	0.51	5	
	10:32	VM15	0.38	5	
	10:56	VM16	0.13	5	
	10:50	VM17	0.62	5	
	11:05	VM18	0.54	5	
	10:57	VM19	0.13	5	

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
16 Mar 2012	13:34	VM1	0.51	5	Demolition of Building 16
	13:43	VM3	0.38	5	
	11:12	VM5	0.25	5	
	10:10	VM6	0.25	5	
	10:04	VM8	0.25	5	
	9:57	VM9	0.13	5	
	10:27	VM11	0.38	5	
	10:49	VM12	0.13	5	
	10:19	VM13	0.38	5	
	10:34	VM14	0.38	5	
	10:42	VM15	0.13	5	
	13:57	VM16	1.02	5	
	14:06	VM17	0.13	5	
	13:51	VM18	0.13	5	
	14:00	VM19	1.14	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
17 Mar 2012	11:45	VM1	1.02	5	Demolition of Building 16
	11:32	VM3	0.25	5	
	11:53	VM5	0.13	5	
	10:15	VM6	0.13	5	
	10:08	VM8	0.13	5	
	10:02	VM9	0.13	5	
	10:30	VM11	0.25	5	
	10:50	VM12	0.13	5	
	10:23	VM13	0.38	5	
	10:37	VM14	0.54	5	
	10:44	VM15	0.13	5	
	11:10	VM16	0.13	5	
	10:59	VM17	0.13	5	
	11:25	VM18	0.25	5	
	11:16	VM19	0.13	5	

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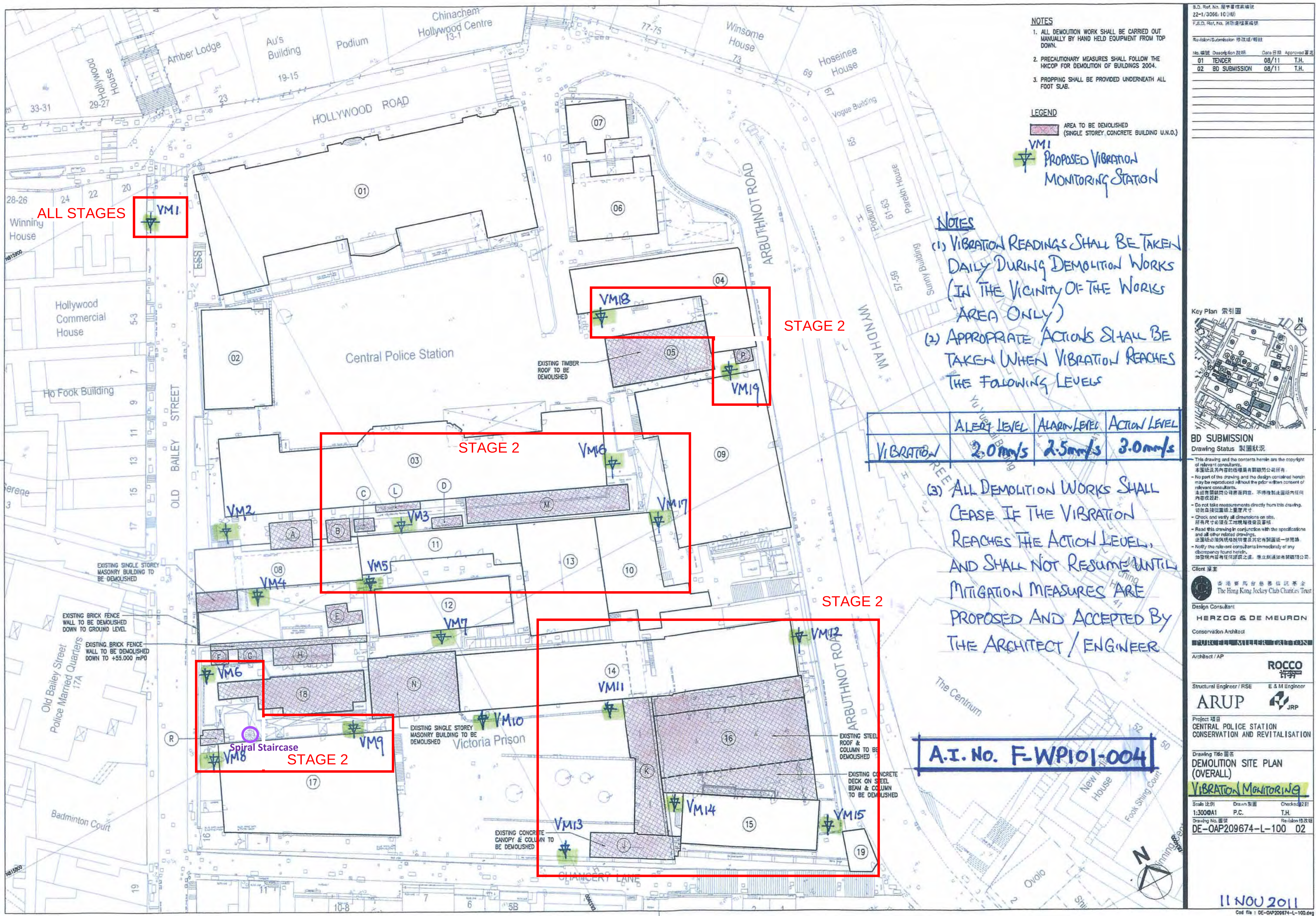
NOTES
1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.
LEGEND
AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)
VM1 PROPOSED VIBRATION MONITORING STATION
NOTES
(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)
(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS
ALERT LEVEL | ALARM LEVEL | ACTION LEVEL
VIBRATION | 2.0mm/s | 2.5mm/s | 3.0mm/s
(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER
A.I. No. F-WP101-004
ALL STAGES
STAGE 2
STAGE 2
STAGE 2
STAGE 2
Spiral Staircase
VM1
VM2
VM3
VM4
VM5
VM6
VM7
VM8
VM9
VM10
VM11
VM12
VM13
VM14
VM15
VM16
VM17
VM18
VM19
HOLLYWOOD ROAD
OLD BAILEY STREET
ARBUTHNOT ROAD
WYNDHAM STREET
CHANCERY LANE
Central Police Station
Victoria Prison
Amber Lodge
Au's Building
Podium
Chinachem Hollywood Centre
Winsome House
Hoseinee House
Vogue Building
Parekh House
Sunny Building
Hollywood Commercial House
Ho Fook Building
Winning House
Old Bailey Street Police Married Quarters
Badminton Court
The Centrium
New Hollywood House
EXISTING TIMBER ROOF TO BE DEMOLISHED
EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED
EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO GROUND LEVEL
EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO +55.000 mPD
EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED
EXISTING STEEL ROOF & COLUMN TO BE DEMOLISHED
EXISTING CONCRETE DECK ON STEEL BEAM & COLUMN TO BE DEMOLISHED
EXISTING CONCRETE CANOPY & COLUMN TO BE DEMOLISHED
B.D. Ref. No. 屋宇署檔案編號 22-1/3066/10 (HU)
F.S.D. Ref. No. 消防處檔案編號
Revision/Submission 修改版/報批
No. 編號 | Description 說明 | Date 日期 | Approved 審定
01 | TENDER | 08/11 | T.H.
02 | BD SUBMISSION | 08/11 | T.H.
Key Plan 索引圖
BD SUBMISSION
Drawing Status 製圖狀況
Client 業主
The Hong Kong Jockey Club Charities Trust
Design Consultant
HERZOG & DE MEURON
Conservation Architect
PURCELL MILLER TRITTON
Architect / AP
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Structural Engineer / RSE
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E & M Engineer
JRP
Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION
Drawing Title 圖名
DEMOLITION SITE PLAN (OVERALL)
VIBRATION MONITORING
Scale 比例 1:300@A1
Drawn 製圖 P.C.
Checked 校對 T.H.
Drawing No. 圖號 DE-OAP209674-L-100
Revision 修改版 02
11 NOV 2011
Cad file : DE-OAP209674-L-100.dwg

Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report No. 6

(19 March 2012 ~ 31 March 2012)

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

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

Stage: Initial Stage (Baseline) for stage 2

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

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15/F Kai Yue Comm. Bldg., 2C Argyle St., Hong Kong

Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Stage: Stage 2 (Notes: No demolition activities for stage 1 during the period of 19 March 2012 to 26 March 2012 during the period on 19 March 2012 to 29 March 2012)

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
19 Mar 2012	14:39	VM1	1.27	5	Demolition of Building No. 16
	15:02	VM3	0.25	5	
	15:38	VM5	0.13	5	
	10:40	VM6	0.13	5	
	10:34	VM8	0.13	5	
	10:26	VM9	0.25	5	
	10:56	VM11	0.25	5	
	11:27	VM12	0.38	5	
	10:48	VM13	0.13	5	
	11:16	VM14	0.63	5	
	11:36	VM15	0.89	5	
	15:16	VM16	0.25	5	
	15:29	VM17	0.13	5	
	15:10	VM18	0.25	5	
	15:23	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
20 Mar 2012	11:30	VM1	1.32	5	Demolition of Building No. 16
	11:17	VM3	0.25	5	
	11:47	VM5	0.13	5	
	10:01	VM6	0.25	5	
	9:53	VM8	0.25	5	
	9:45	VM9	0.38	5	
	10:17	VM11	0.25	5	
	10:41	VM12	0.13	5	
	10:08	VM13	0.25	5	
	10:24	VM14	0.89	5	
	10:35	VM15	0.13	5	
	10:59	VM16	0.25	5	
	10:52	VM17	0.13	5	
	11:16	VM18	0.25	5	
	11:06	VM19	0.13	5	

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
21 Mar 2012	11:57	VM1	1.43	5	Demolition of Building 16
	10:55	VM3	0.38	5	
	10:43	VM5	0.13	5	
	10:05	VM6	0.13	5	
	9:57	VM8	0.13	5	
	9:50	VM9	0.13	5	
	10:23	VM11	0.38	5	
	11:35	VM12	0.13	5	
	10:14	VM13	0.38	5	
	10:30	VM14	0.92	5	
	11:42	VM15	0.52	5	
	11:03	VM16	0.25	5	
	11:19	VM17	0.25	5	
	11:18	VM18	0.34	5	
	11:10	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
22 Mar 2012	13:58	VM1	1.38	5	Demolition of Building 16
	14:09	VM3	0.42	5	
	13:44	VM5	0.13	5	
	13:15	VM6	0.38	5	
	13:09	VM8	0.38	5	
	13:03	VM9	0.38	5	
	13:32	VM11	0.52	5	
	14:46	VM12	0.25	5	
	13:24	VM13	0.52	5	
	13:38	VM14	0.87	5	
	14:52	VM15	0.32	5	
	14:12	VM16	0.25	5	
	14:36	VM17	0.13	5	
	14:28	VM18	0.25	5	
	14:20	VM19	0.13	5	

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Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Mar 2012	9:52	VM1	1.43	5	Demolition of Building 16
	10:02	VM3	0.34	5	
	9:40	VM5	0.13	5	
	9:10	VM6	0.13	5	
	9:04	VM8	0.25	5	
	8:53	VM9	0.25	5	
	9:25	VM11	0.48	5	
	10:42	VM12	0.3	5	
	9:18	VM13	0.48	5	
	9:32	VM14	0.98	5	
	10:48	VM15	0.34	5	
	10:09	VM16	0.25	5	
	10:29	VM17	0.25	5	
	10:22	VM18	0.25	5	
	10:16	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 Mar 2012	10:53	VM1	1.07	5	Demolition of Building 16
	11:02	VM3	0.58	5	
	10:34	VM5	0.38	5	
	9:35	VM6	0.25	5	
	9:42	VM8	0.25	5	
	9:48	VM9	0.13	5	
	10:06	VM11	0.25	5	
	11:43	VM12	0.38	5	
	9:59	VM13	0.25	5	
	10:13	VM14	0.38	5	
	11:57	VM15	0.25	5	
	11:19	VM16	0.13	5	
	11:39	VM17	0.13	5	
	11:08	VM18	0.13	5	
	11:28	VM19	0.13	5	

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
26 Mar 2012	11:19	VM1	0.25	5	Demolition of Building 16
	11:27	VM3	0.25	5	
	11:46	VM5	0.51	5	
	9:53	VM6	0.25	5	
	9:47	VM8	1.02	5	
	9:39	VM9	0.13	5	
	12:01	VM11	0.13	5	
	10:28	VM12	0.51	5	
	10:02	VM13	0.13	5	
	10:13	VM14	0.38	5	
	10:36	VM15	0.25	5	
	10:53	VM16	0.13	5	
	10:45	VM17	0.13	5	
	11:07	VM18	0.13	5	
	10:59	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
27 Mar 2012	9:56	VM1	1.27	5	Demolition of Building 16, Revetment Wall
	10:08	VM3	0.38	5	
	9:42	VM5	0.43	5	
	8:58	VM6	0.89	5	
	8:50	VM8	1.05	5	
	8:42	VM9	1.02	5	
	9:24	VM11	0.48	5	
	10:52	VM12	0.25	5	
	9:03	VM13	0.51	5	
	9:12	VM14	0.78	5	
	11:01	VM15	0.38	5	
	10:23	VM16	0.13	5	
	10:40	VM17	0.13	5	
	10:16	VM18	0.25	5	
	10:32	VM19	0.13	5	

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
28 Mar 2012	14:39	VM1	0.51	5	Demolition of Building 16, Revetment Wall
	15:02	VM3	0.25	5	
	15:38	VM5	0.25	5	
	10:40	VM6	1.01	5	
	10:34	VM8	0.87	5	
	10:26	VM9	0.24	5	
	10:58	VM11	0.37	5	
	11:29	VM12	0.12	5	
	10:50	VM13	0.24	5	
	11:18	VM14	0.37	5	
	11:38	VM15	1.25	5	
	15:18	VM16	0.15	5	
	15:31	VM17	0.15	5	
	15:12	VM18	0.52	5	
	15:25	VM19	0.15	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
29 Mar 2012	11:01	VM1	1:13	5	Demolition of Building 16, Revetment Wall
	11:17	VM3	0.25	5	
	10:42	VM5	0.13	5	
	9:59	VM6	0.45	5	
	9:52	VM8	0.45	5	
	9:45	VM9	0.45	5	
	10:12	VM11	0.33	5	
	11:58	VM12	0.33	5	
	10:28	VM13	0.78	5	
	10:19	VM14	0.33	5	
	13:15	VM15	0.33	5	
	11:25	VM16	0.25	5	
	11:47	VM17	0.13	5	
	11:40	VM18	0.25	5	
	11:32	VM19	0.13	5	

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Demolition Works
Central Police Station Compound at No. 10, Hollywood Road
Record of Vibration Monitoring

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 Mar 2012	11:04	VM1	0.25	5	Demolition of Building B, 16, Revetment Wall
	10:53	VM3	0.13	5	
	11:18	VM5	0.51	5	
	9:08	VM6	1.02	5	
	9:02	VM8	0.89	5	
	9:20	VM9	0.25	5	
	9:39	VM11	0.38	5	
	9:57	VM12	0.13	5	
	9:29	VM13	0.25	5	
	9:45	VM14	0.38	5	
	10:05	VM15	1.27	5	
	10:38	VM16	0.13	5	
	10:23	VM17	0.13	5	
	10:48	VM18	0.51	5	
	10:31	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
31 Mar 2012	14:17	VM1	0.87	5	Demolition of Building B, 16, Revetment Wall
	14:24	VM3	0.54	5	
	14:05	VM5	0.25	5	
	13:33	VM6	1.12	5	
	13:24	VM8	0.92	5	
	13:12	VM9	0.78	5	
	13:44	VM11	0.47	5	
	15:20	VM12	0.25	5	
	13:59	VM13	0.27	5	
	15:53	VM14	0.52	5	
	15:27	VM15	0.25	5	
	14:37	VM16	0.13	5	
	15:02	VM17	0.13	5	
	14:53	VM18	0.25	5	
	14:44	VM19	0.13	5	

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ALL STAGES

STAGE 1
(Wall 10)

VM1 PROPOSED VIBRATION MONITORING STATION

VM1 VM2 VM3 VM4 VM5 VM6 VM7 VM8 VM9 VM10 VM11 VM12 VM13 VM14 VM15 VM16 VM17 VM18 VM19

NOTES

1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TOP DOWN.
2. PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004.
3. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB.

LEGEND

AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

EXISTING TIMBER ROOF TO BE DEMOLISHED

EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED

EXISTING BRICK FENCE WALL TO BE DEMOLISHED DOWN TO GROUND LEVEL

EXISTING BRICK WALL TO BE DEMOLISHED DOWN TO +5

EXISTING SINGLE STOREY MASONRY BUILDING TO BE DEMOLISHED

EXISTING STEEL ROOF & COLUMN TO BE DEMOLISHED

EXISTING CONCRETE DECK ON STEEL BEAM & COLUMN TO BE DEMOLISHED

EXISTING CONCRETE CANOPY & COLUMN TO BE DEMOLISHED

NOTES

(1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS AREA ONLY)

(2) APPROPRIATE ACTIONS SHALL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS

	ALERT LEVEL	ALARM LEVEL	ACTION LEVEL
VIBRATION	2.0mm/s	2.5mm/s	3.0mm/s

(3) ALL DEMOLITION WORKS SHALL CEASE IF THE VIBRATION REACHES THE ACTION LEVEL, AND SHALL NOT RESUME UNTIL MITIGATION MEASURES ARE PROPOSED AND ACCEPTED BY THE ARCHITECT / ENGINEER

A.I. No. F-WP101-004

B.D. Ref. No. 屋宇署檔案編號
22-1/3056/10 (HU)

F.S.D. Ref. No. 消防處檔案編號

Revision/Submission 修改項/呈交

No. 編號	Description 說明	Date 日期	Approved 審批
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.

Key Plan 索引圖

BD SUBMISSION
Drawing Status 製圖狀況

- Do not take measurements directly from this drawing.
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- Check and verify all dimensions on site.
所有尺寸必須在工地核實後才可使用。
- Read this drawing in conjunction with the specifications and all other related drawings.
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Client 業主
香港賽馬會慈善信託基金
The Hong Kong Jockey Club Charities Trust

Design Consultant
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Conservation Architect

Architect / AP
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Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
CENTRAL POLICE STATION
CONSERVATION AND REVITALISATION

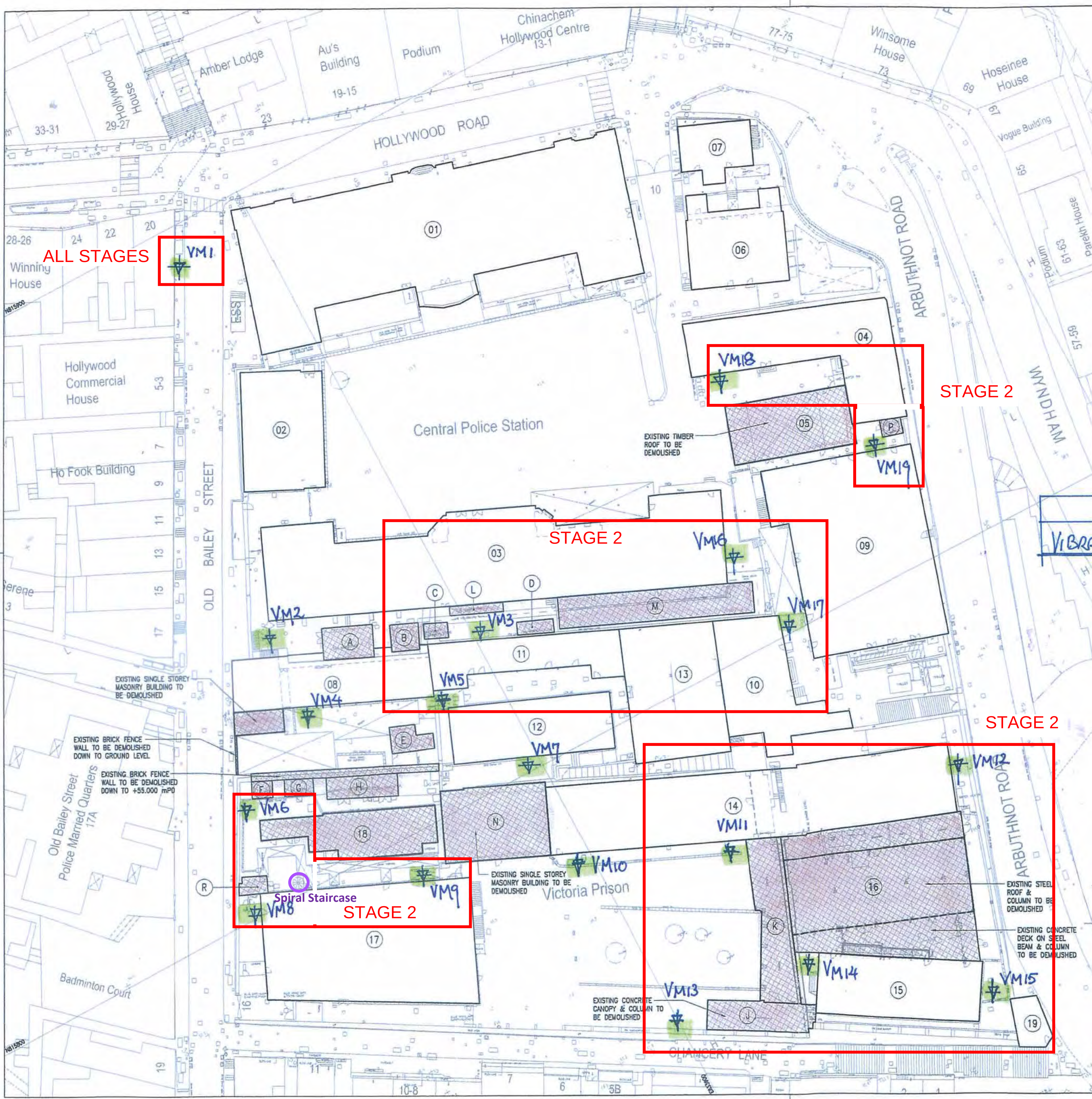
Drawing Title 圖名
DEMOLITION SITE PLAN (OVERALL)
VIBRATION MONITORING

Scale 比例	Drawn 製圖	Checked 核對
1:300@A1	P.C.	T.H.

Drawing No. 圖號 DE-OAP209674-L-100 Re-Edition 修改版 02

11 NOV 2011

Cad file : DE-OAP209674-L-100.dwg



NOTES

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LEGEND

AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.)

VM1 PROPOSED VIBRATION MONITORING STATION

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A.I. No. F-WP101-004

B.D. Ref. No. 屋宇署檔案編號 22-1/3066/10 (HU)

F.S.D. Ref. No. 消防處檔案編號

Revision/Submission 修改版/報批

No. 編號	Description 說明	Date 日期	Approved 審定
01	TENDER	08/11	T.H.
02	BD SUBMISSION	08/11	T.H.

Key Plan 索引圖

BD SUBMISSION

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Client 業主

香港賽馬會慈善信託基金 The Hong Kong Jockey Club Charities Trust

Design Consultant

HERZOG & DE MEURON

Conservation Architect

[redacted]

Architect / AP

ROCCO

Structural Engineer / RSE: ARUP

E & M Engineer: JRP

Project 項目

CENTRAL POLICE STATION CONSERVATION AND REVITALISATION

Drawing Title 圖名

DEMOLITION SITE PLAN (OVERALL)

VIBRATION MONITORING

Scale 比例	Drawn 製圖	Checked 校對
1:300@A1	P.C.	T.H.

Drawing No. 圖號: DE-OAP209674-L-100 Revision 修改版: 02

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