The Jockey Club CPS Limited

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

Issue Date: September 2012

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The Jockey Club CPS Limited

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

Issue Date: September 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: 11 September 2012

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LIST OF ANNEXES

EXECUTIVE SUMMARY

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

Summary of Construction Works undertaken during Reporting Period

The major construction works undertaken during the reporting period include:

- Underpinning works, strengthening works and structural alteration works;
- Trial piling works (loading test);
- Piling works at Old Bailey Wing (OBW); and
- Demolition works at Block 17, G/F.

Environmental Monitoring and Audit Progress

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

• Construction noise monitoring during normal weekdays at each monitoring station	5 times
• Joint environmental site inspection	1 time
• Joint heritage site inspection	1 time
• Landscape & visual monitoring	1 time
• Tree inspection	1 time
• Vibration monitoring for trial piling (load test)	1 time
• Vibration monitoring for piling works and demolition works	16 times
• Vibration monitoring for other construction works	22 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 or Limit Level of construction noise was recorded during the reporting period.

Cultural Heritage

One vibration measurement for trial piling (load test) was conducted on 10 August 2012 during the reporting period. 16 numbers of vibration monitoring were undertaken in August for the piling works at Old Bailey Wing and some demolition works on Ground Floor of Block 17. 22 numbers of vibration monitoring were carried out in August for the structural

alternations and additions works at Block 8. No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audit was conducted on 9 August 2012. The Contractor has generally implemented the mitigation measures as recommended.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 20 August 2012 by the arborist during the reporting period. Recommended actions as advised in the last reporting period have been performed by the Contractor. A few observations have been identified during the August site inspection.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 341.48 tonnes of inert C&D material were generated during the reporting period. 48.87 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 2.31 kg of metals were produced and were sent to recyclers for recycling. No plastics waste, chemical waste or paper/cardboard packaging 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 9 August 2012. Details of the audit finding are presented in *Section 6.*

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

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

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

No enquiry was received during the reporting period.

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

No complaint was 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:

- Underpinning works, strengthening works and structural alteration works at Block 8;
- Trial piling works (loading testing);
- Piling works at Old Bailey Wing (OBW);
- Demolition works at Block 17, G/F; and
- Preservation by record at Block 17 (tentative).

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

1 INTRODUCTION

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

1.1 PURPOSE OF THE REPORT

This is the tenth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 August** to **31 August 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 August to 31 August 2012***

Construction Activities Undertaken
• Underpinning works, strengthening works and structural alteration works at Block 8;
• Trial piling works (loading test);
• Piling works at Old Bailey Wing (OBW); and
• Demolition works at Block 17, G/F.

2.4 PROJECT ORGANISATION

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

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

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

Table 2.2 ***Summary of Environmental Licensing, Notification and Permit Status***

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	Superseded on 10 January 2012
	EP-408/2011/A	-	Superseded on 22 March 2012
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under *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

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
			) is in accordance with the APCO
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012	EPD's letter (EPD's ref:() in EPAC/A/4/000/233) dated 18 January 2012.
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	-
Construction Noise Permit (CNP)	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	-

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

Notes:

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

b) If works are to be carried out during restricted hours, the conditions stipulated in the CNP issued by the NCA have to be followed.

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

3.1.5 Mitigation Measures

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

3.2 CULTURAL HERITAGE

3.2.1 Vibration Monitoring

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

Baseline Monitoring

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

Vibration Monitoring for Demolition Works

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

Vibration Monitoring for Trial Piling Works and Piling Works

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

Vibration Monitoring for Other Construction Works

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

Alert, Alarm and Action Levels

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

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

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

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

Table 3.5 Event and Action Plan for Vibration Monitoring

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

3.2.2 Mitigation Measures

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

3.3 LANDSCAPE AND VISUAL MONITORING

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

3.3.1 Mitigation Measures

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

3.4 ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS

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

4 IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has generally implemented the 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 3.4	Ninth Monthly EM&A Report	14 August 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 and traffic noise from Old Bailey Street.
- NM6: construction noise from activities in the Project Site and traffic noise from Chancery Lane.

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

5.2 CULTURAL HERITAGE

One vibration measurement for trial piling (load test) was conducted on 10 August 2012 during the reporting period. The monitoring result is presented in *Annex L*.

16 numbers of vibration monitoring were undertaken in August for the piling works at Old Bailey Wing and some demolition works on Ground Floor of Block 17. The monitoring readings are shown in *Annex L*.

22 numbers of vibration monitoring were carried out in August for the underpinning works at Block 8. The monitoring readings are presented in *Annex M.*

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

Monthly heritage site audit was conducted on 9 August 2012 by the Heritage Checker. Trial piling works (loading test) were being carried out near D Hall during the site inspection. The Contractor has been advised to provide additional screening protection to D Hall west wing south elevation. The follow-up actions recommended in the July audit have been implemented.

5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 20 August 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
Tree -5	*Mangifera indica*	Good	• The lower branches were pruned on 20 August 2012.
Tree -6	*Aleurites moluccana*	Fair	• To check the cracks of the planter and nearby ground surface.
Tree-7	*Aleurites moluccana*	Fair	• To check the cracks of the planter and nearby ground surface.
Tree-8	*Plumeria rubra*	Fair	• No further action required.
Tree-9	*Araucaria cunninghamia*	Fair	• No further action required.
Tree-11	*Dracaena marginata*	Fair	• Dead branches on the tree were pruned on 20 August 2012; • Litter and weeds at the planter have been removed.

Recommendations in July were implemented at the time of the site inspection in August, where lower branches in Tree-5 and dead branches in Tree-11 were pruned. Litter and weeds observed at the planter of Tree-11 during the previous site inspection were also properly removed.. Further investigation is required with regards to the cracks of the planter and nearby ground surface of Tree-6 and Tree-7.

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. 2.31 kg of metals were generated and sent to recyclers for recycling. No plastics waste, chemical waste or paper/cardboard packaging 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		Recycled materials		
			Solid	Liquid	Paper / cardboard	Plastics	Metals
August 2012	341.48 tonnes	48.87 tonnes	0 kg	0 L	0 kg	0 kg	2.31 kg

Notes:

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

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

Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 9 August 2012. There was no non-compliance recorded during the site inspection.

Accumulated leaves were observed in the U-channel near Block 3. The Contractor has been reminded to clean the U-channel more frequently.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF MONITORING EXCEEDANCE

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

7.2 SUMMARY OF ENQUIRY

No enquiry was received during the reporting period.

7.3 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

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

7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period. Cumulative number of complaints is presented in *Annex K*.

7.5 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
• Underpinning works, strengthening works and structural alteration works at Block 8;
• Trial piling works (loading test);
• Piling works at Old Bailey Wing (OBW);
• Demolition works at Block 17, G/F; and
• Preservation by record at Block 17 (tentative).

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 August to 31 August 2012 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

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

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

No enquiry was received during the reporting period.

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

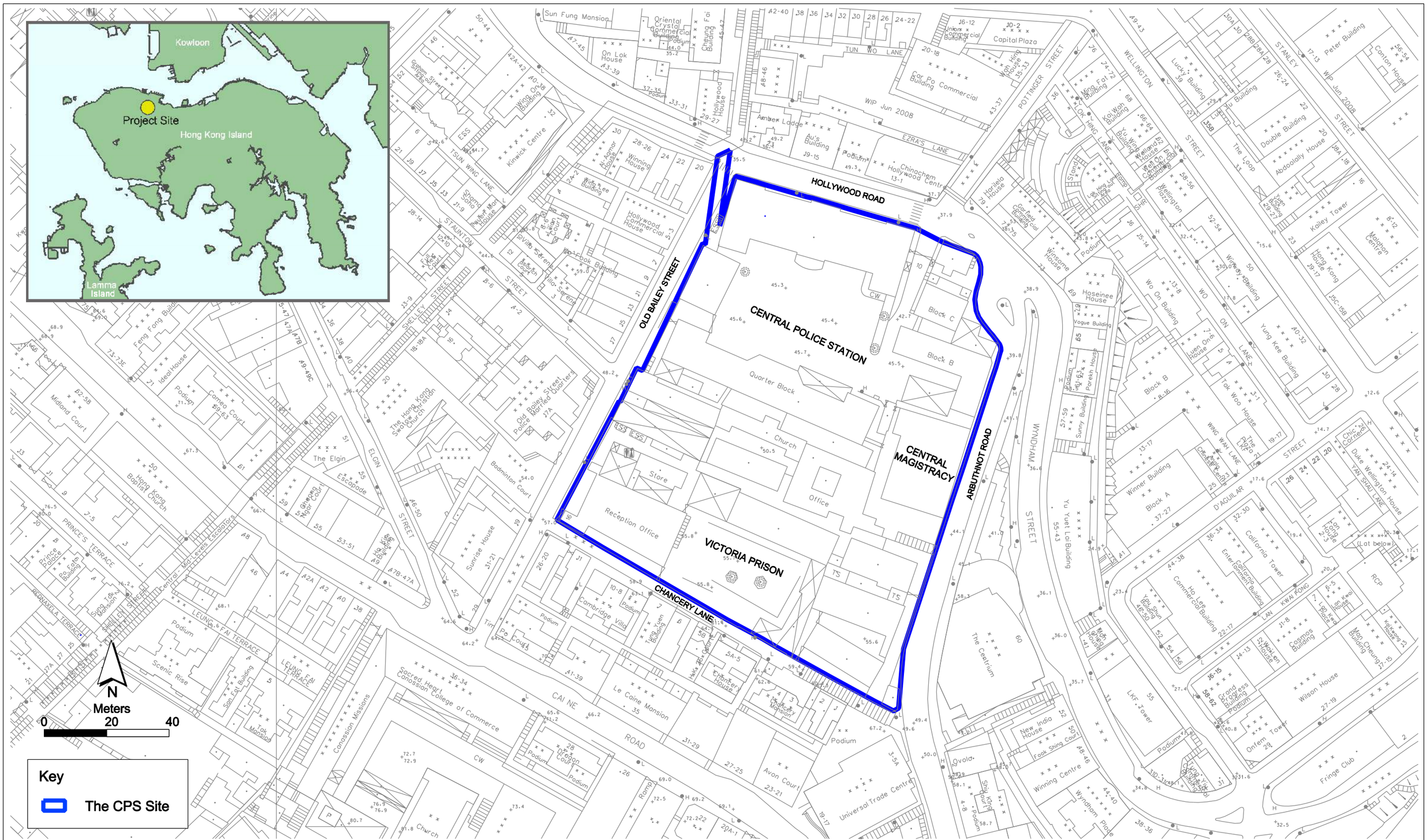
No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

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

Annex A

Locations of Works Areas and the Surroundings



Annex A1

Project Location

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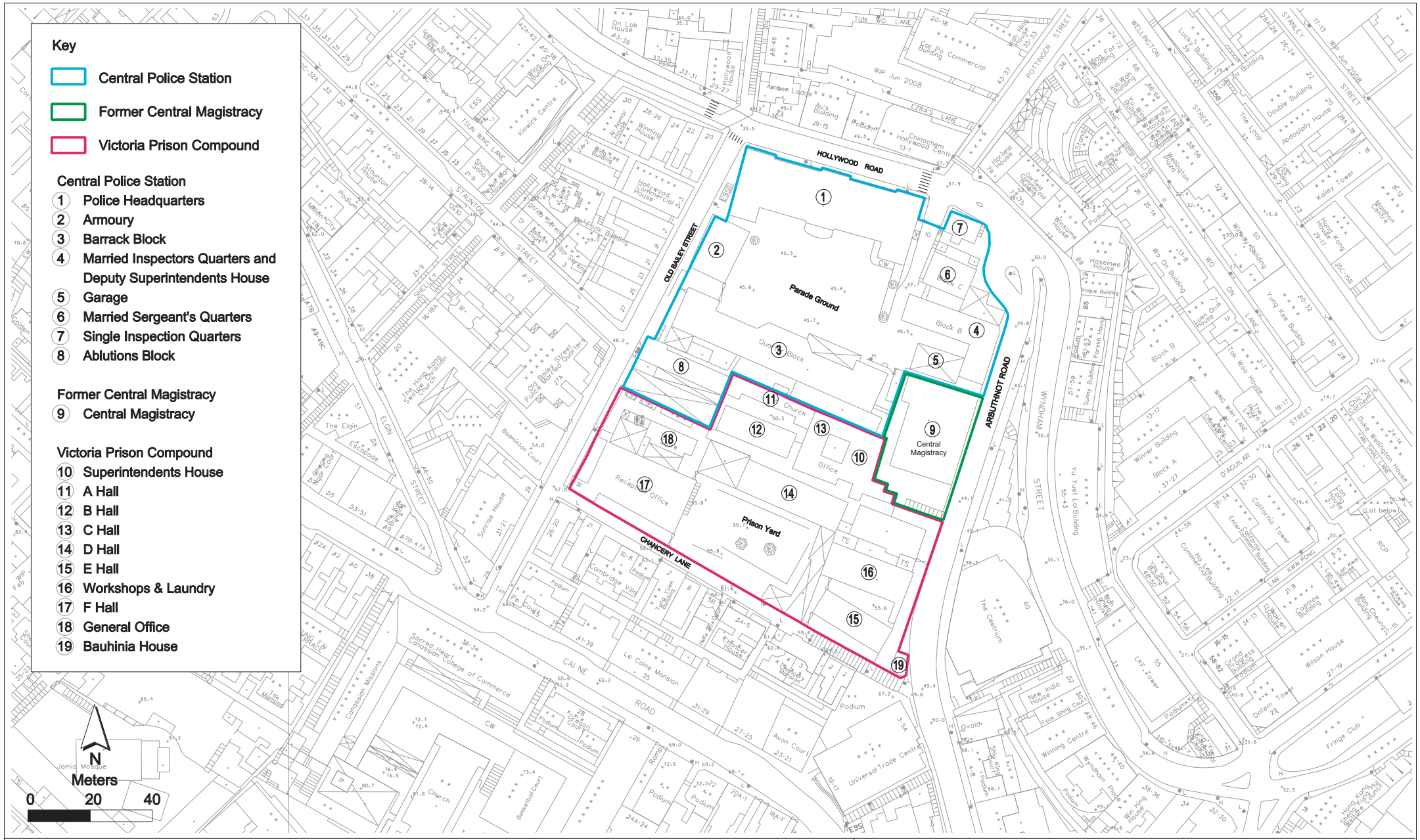

Annex A2

Declared Monuments within the Project Site

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DATE: 07/12/2011

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LEGEND

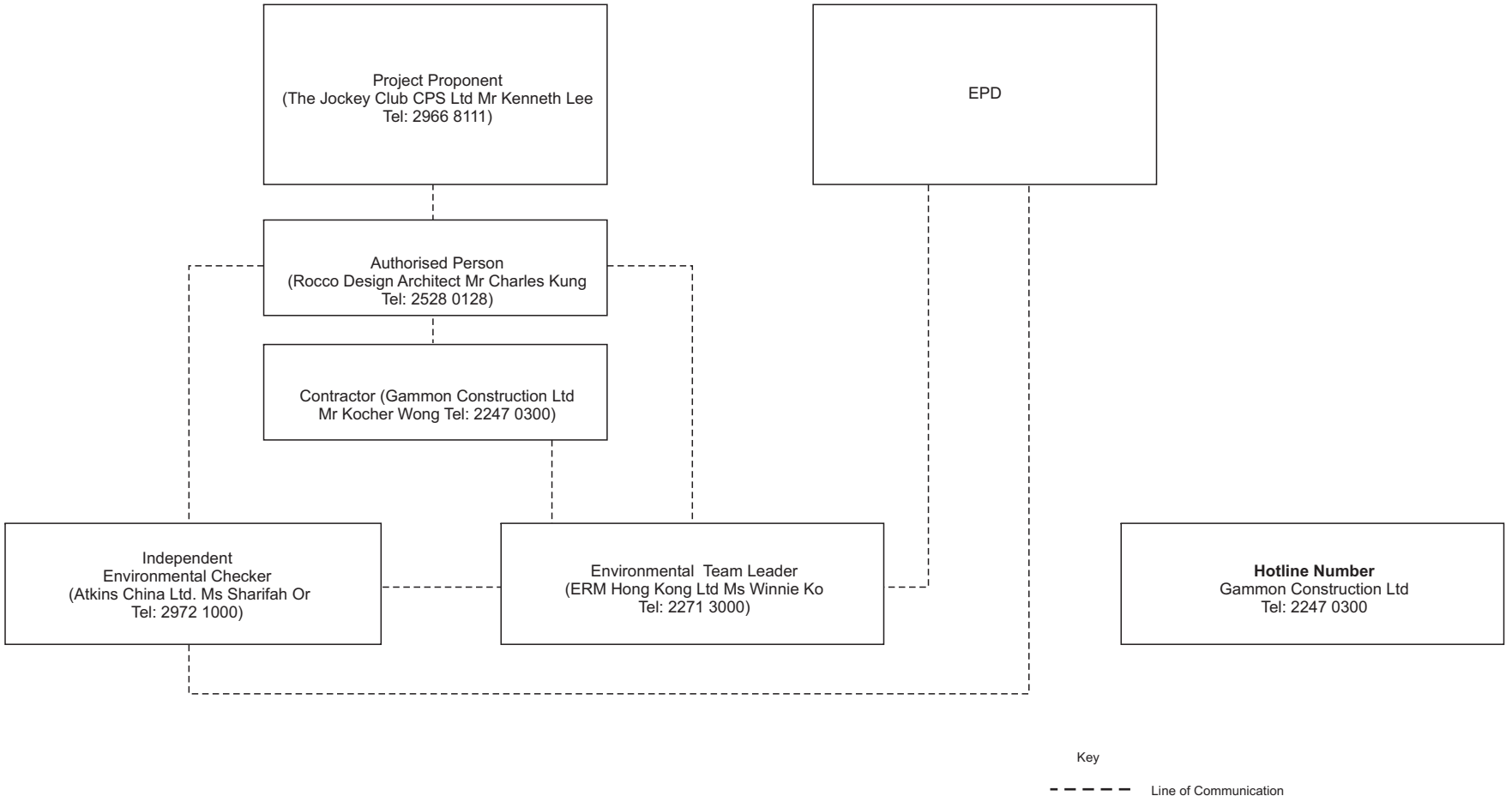
1. Trial Piling Works (Loading Test)
2. Piling Works
3. Underpinning Works, Strengthening Works and Structural Alteration Works
4. Demolition Works at Block 17 G/F

HOLLYWOOD ROAD
Central Police Station
OLD BAILEY STREET
ARBUTHNOT ROAD
CHANCERY LANE
WYNDHAM STREET
OBW
Victoria Prison
AW
Amber Lodge
Au's Building
Podium
Chinachem Hollywood Centre
Winsome House
Hoseinee House
Hollywood House
Winning House
Hollywood Commercial House
Ho Fook Building
Old Bailey Street Police Married Quarters
Badminton Court
Sunny Building
Yu Yuet Lai Building
The Centrium
New India House
Fook Shing Court
Ovolo
Man ching House
REGISTERED RETAINING WALL NO. 11SW-B/R17
REGISTERED RETAINING WALL NO. 11SW-B/R18
REGISTERED RETAINING WALL NO. 11SW-B/R19
REGISTERED RETAINING WALL NO. 11SW-B/R20
REGISTERED RETAINING WALL NO. 11SW-B/R21
REGISTERED RETAINING WALL NO. 11SW-B/R22
REGISTERED RETAINING WALL NO. 11SW-B/R23
REGISTERED RETAINING WALL NO. 11SW-B/R24
REGISTERED RETAINING WALL NO. 11SW-B/R25
REGISTERED RETAINING WALL NO. 11SW-B/R26
REGISTERED RETAINING WALL NO. 11SW-B/R27
REGISTERED RETAINING WALL NO. 11SW-B/R28
REGISTERED RETAINING WALL NO. 11SW-B/R29
REGISTERED RETAINING WALL NO. 11SW-B/R30
UNREGISTERED RETAINING WALL
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

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

Annex B

Project Organization Chart and Contact Detail



Annex B

Project Organisation

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DATE: 07/12/2011

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Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers

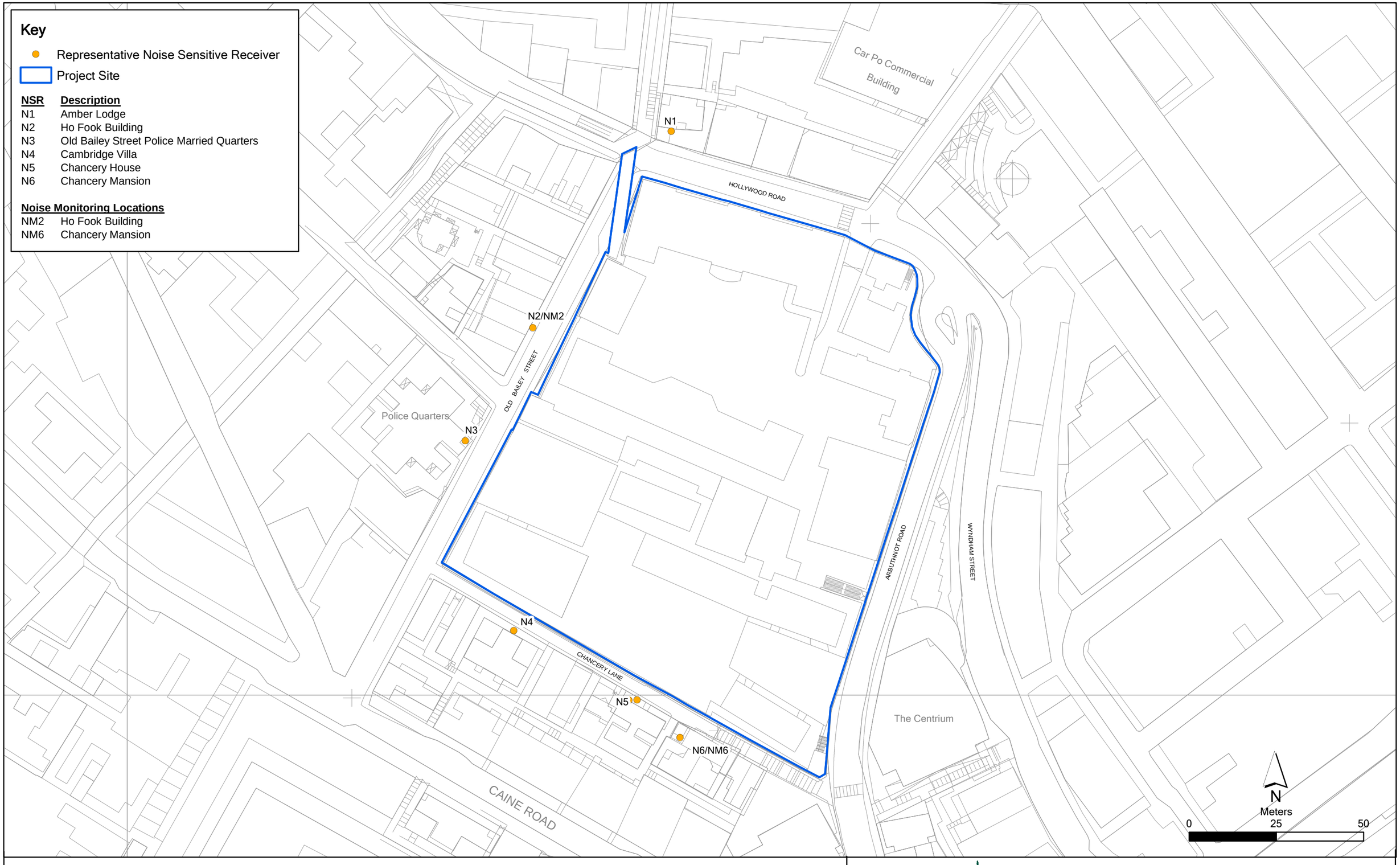
Key

- Representative Noise Sensitive Receiver
- Project Site

NSR	Description
N1	Amber Lodge
N2	Ho Fook Building
N3	Old Bailey Street Police Married Quarters
N4	Cambridge Villa
N5	Chancery House
N6	Chancery Mansion

Noise Monitoring Locations

NM2	Ho Fook Building
NM6	Chancery Mansion



Annex C

Location of Representative Noise Sensitive Receivers and Noise Monitoring Locations

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Date: 09/05/2012

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Annex D

Monitoring Schedule of the Reporting Month and the Next Month

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

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

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

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

Annex E

Calibration Reports for Calibrators and Sound Level Meters

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

Certificate of Calibration
校正證書

Certificate No. : C124011
證書編號

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

Description / 儀器名稱	:	Sound Level Calibrator
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NC-73
Serial No. / 編號	:	10997142
Supplied By / 委託者	:	Envirotech Services Co. Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

TEST CONDITIONS / 測試條件

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

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 9 July 2012

TEST RESULTS / 測試結果

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

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

Tested By 測試 : L K Yeung

Certified By 核證 : K C Lee

Date of Issue 簽發日期 : 10 July 2012

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 – 校正及檢測實驗所
c/o 香港新界屯門興安里一號青山灣機樓四樓
Tel 電話: 2927 2606 Fax 傳真: 2744 8986 E-mail 電郵: callab@suncreation.com Website 網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C124011
證書編號

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

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

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C123541
CL281	Multifunction Acoustic Calibrator	DC110233
TST150A	Measuring Amplifier	C120886

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

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

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	0.990	1 kHz ± 2 %	± 1

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

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

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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Tel 電話: 2927 2606 Fax 傳真: 2744 8986 E-mail 電郵: callab@suncreation.com Website 網址: www.suncreation.com

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 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	-	*In-situ Tree Protection - Cordon Zone (CZ)* Cordon off each tree along its drip line (below the crown) with a chain-link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.	Whole site	During construction	√
S4.7.2	-	*In-situ Tree Protection - Advanced & Phased Root Pruning* 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	-	*In-situ Tree Protection - Foliage cleansing system* A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	√

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 each of the large protruding piers and an offset be made from both the	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		• 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	√
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 construction phase to control the potential fugitive dust emissions.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	√
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	√
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	√
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	√
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	√
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	√
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	√
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	√
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	√
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A – Not observed.
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	√
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	√
Water Quality					
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.
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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of *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	√
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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed.
S7.6	-	The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	√
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	√
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	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase.	Whole Site	During construction	√
S8.5	S6.3	*Reduction of Construction Waste Generation* C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	*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 bund must be tested and disposed of as chemical waste, if necessary); and • Be arranged so that incompatible materials are appropriately separated.	Whole Site	During construction and operation	√

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

Remark:

√ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

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

Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd

N/A Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

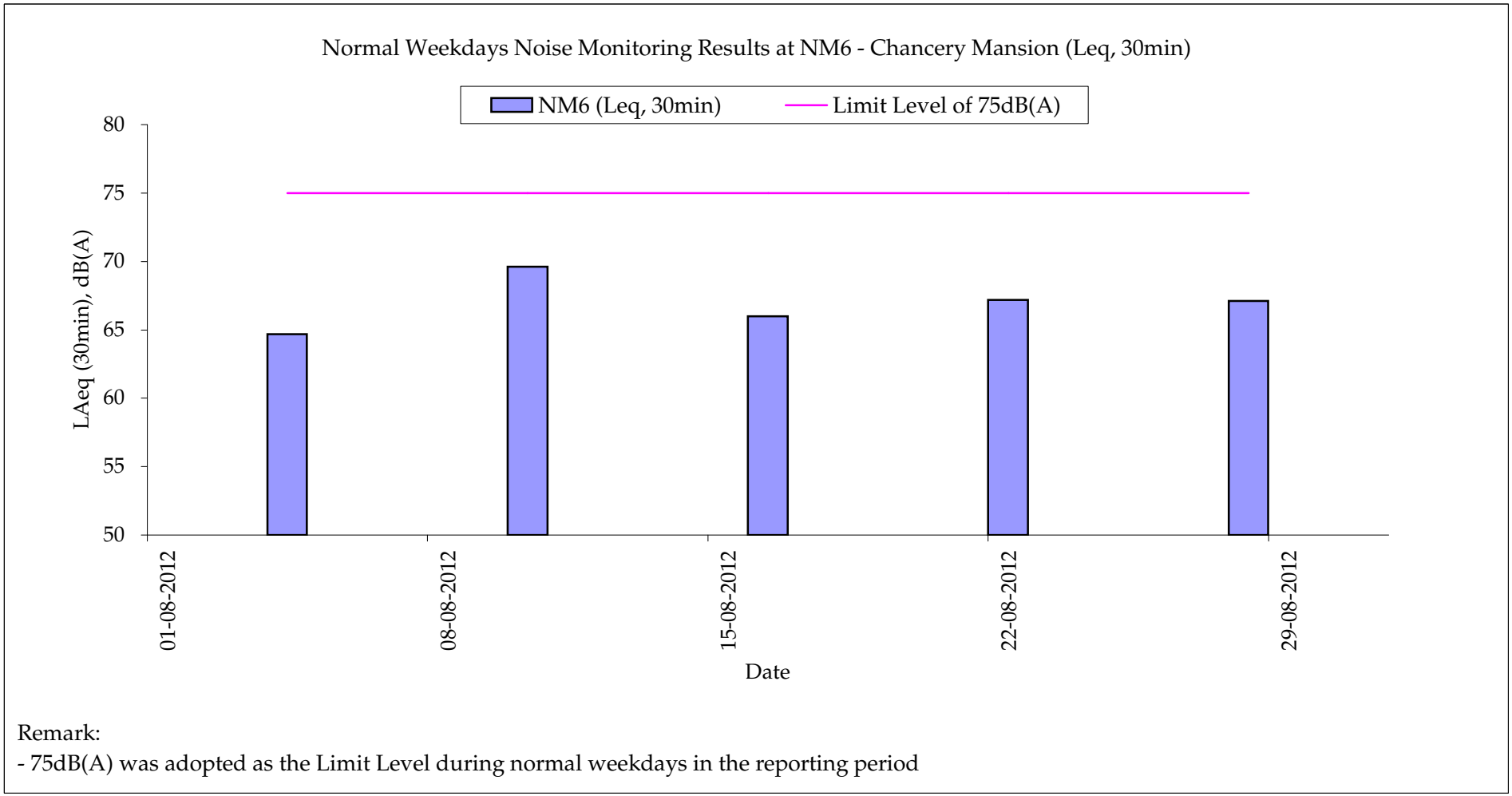
Daytime Noise Monitoring Results

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
				Leq	L10	L90						
04-Aug-12	10:23	10:53	Fine	64.7	66.5	61.8	Lifting, excavation (within the project site)	-	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
10-Aug-12	13:48	14:18	FIne	69.6	71.6	66.2	Lifting (within the project site)	Traffic Noise	-	0.2	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
16-Aug-12	13:00	13:30	Cloudy	66.0	67.4	64.9	Excavation, lifting (within the project site)	Traffic Noise	-	0.5	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
22-Aug-12	10:50	11:20	Cloudy	67.2	68.8	64.4	Lifting, excavation (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
28-Aug-12	15:10	15:40	Sunny	67.1	68.7	65.2	Lifting, welding (within the project site)	Traffic Noise	-	0.5	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
			Min.	**64.7**								
			Max.	**69.6**								

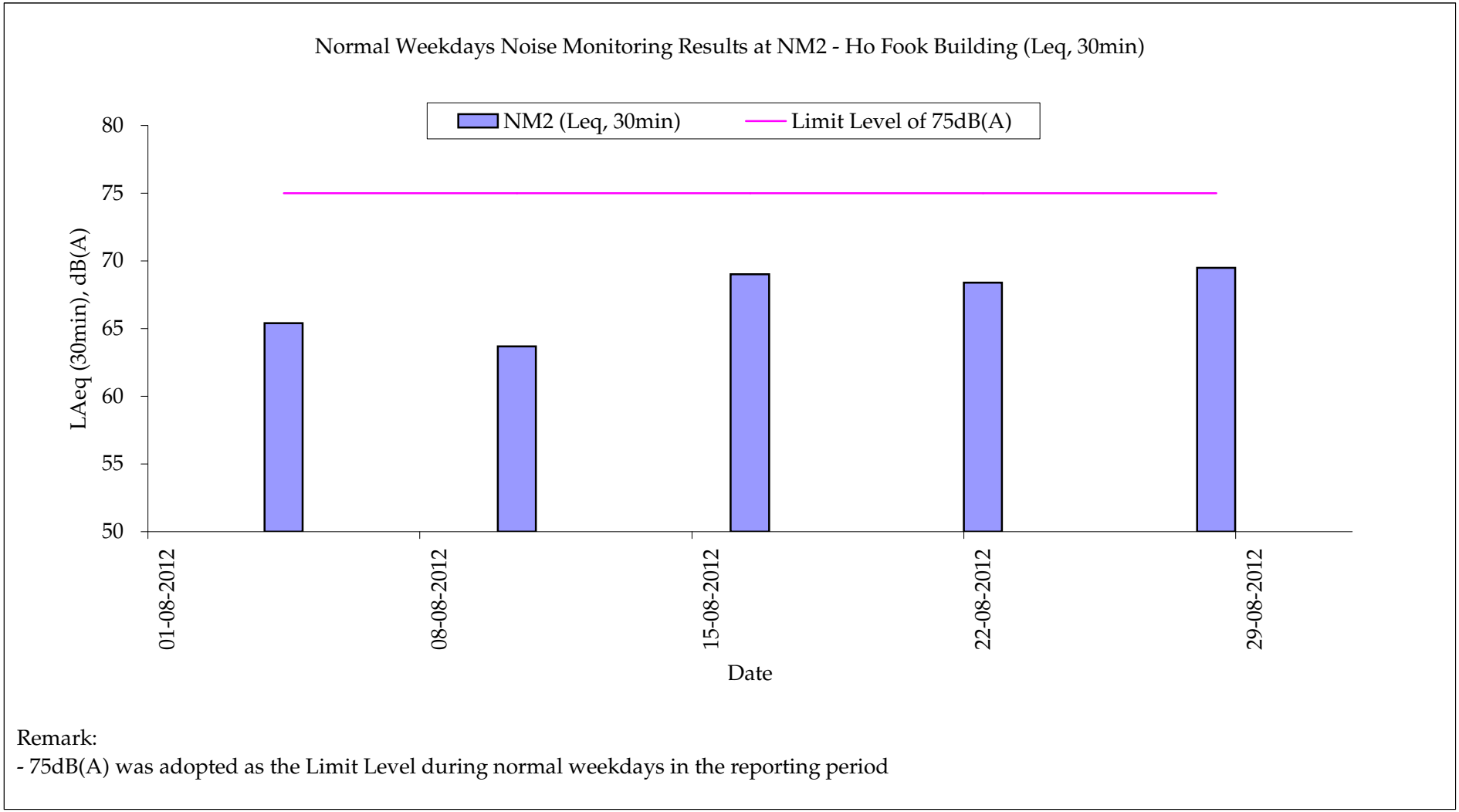
NM2 Ho Fook Building

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
				Leq	L10	L90						
04-Aug-12	9:44	10:14	Fine	65.4	66.8	62.3	Lifting, excavation (within the project site)	Traffic noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
10-Aug-12	14:30	15:00	Fine	63.7	65.8	62.0	Lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
16-Aug-12	13:38	14:08	Cloudy	69.0	71.2	66.0	Excavation, lifting (within the project site)	Traffic Noise	-	0.5	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
22-Aug-12	8:34	9:04	Cloudy	68.4	70.1	65.6	Lifting, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
28-Aug-12	14:25	14:55	Sunny	69.5	70.6	67.4	Lifting, welding (within the project site)	Traffic Noise	-	0.5	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
			Min.	**63.7**								
			Max.	**69.5**								



Remark:

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

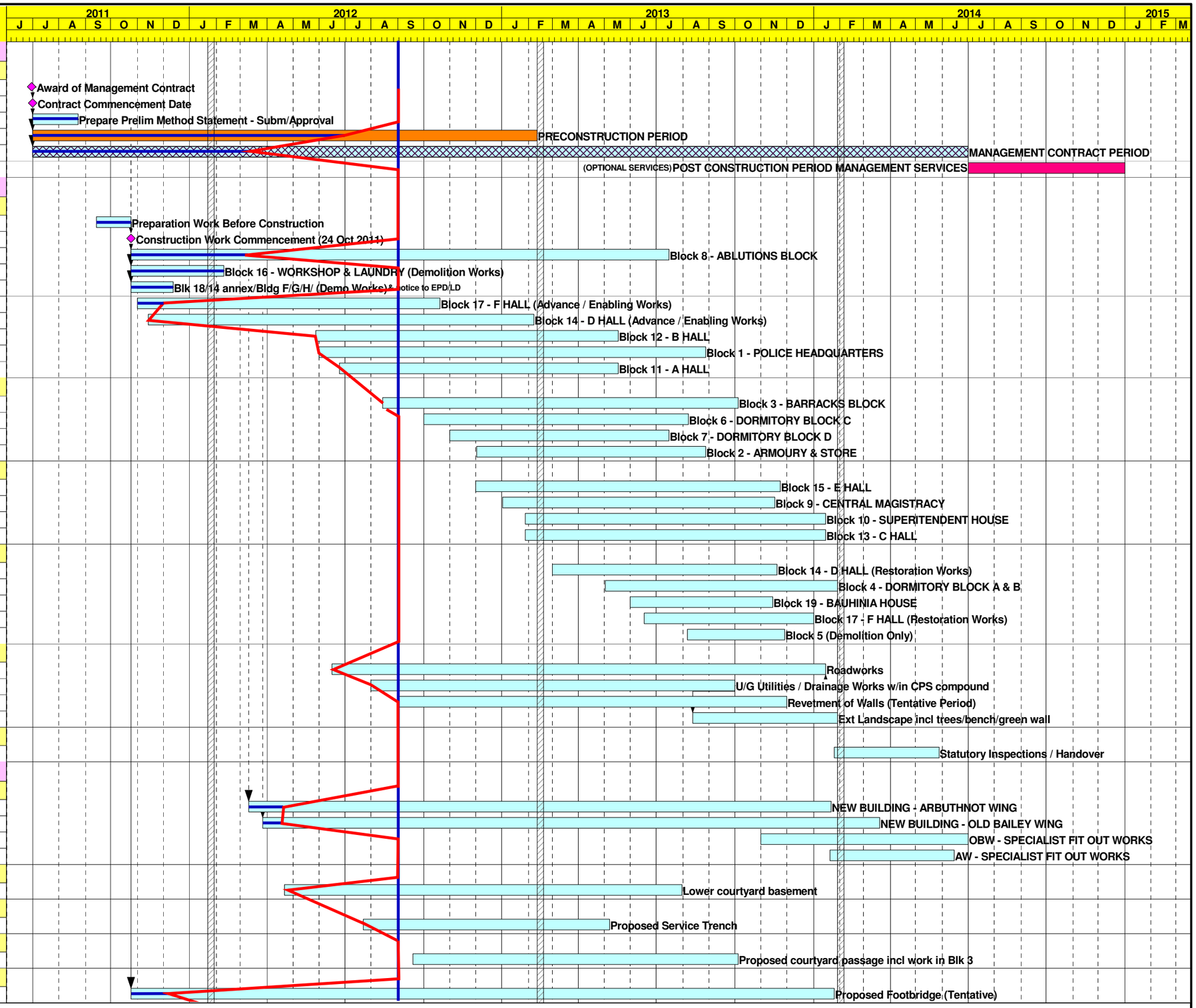


Remark:
- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period

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		
31AUG12	Progress markup as of 31Aug12		

Annex J

Tree Inspection Reports

R02435 RECEIVED 31 AUG 2012

欣榮(香港)環境管理有限公司

Yan Wing (Hong Kong) Environment Management Limited

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

通信地址 (Mail Address)：上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)
Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

30th August 2012
Our Ref. : YW/TP/GAMMON/2012/8/1

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 August 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	20th Aug 2012	Good	N.F.A.
Tree-6	*Aleurites moluccana* 石栗	20th Aug 2012	Fair	1. To check the cracks of the planter and nearby ground surface.
Tree-7	*Aleurites moluccana* 石栗	20th Aug 2012	Fair	1. To check the cracks of the planter and nearby ground surface.
Tree-8	*Plumeria rubra* 紅雞蛋花	20th Aug 2012	Fair	N.F.A.
Tree-9	*Araucaria cunninghamia* 花旗杉	20th Aug 2012	Fair	N.F.A.
Tree-11	*Dracaena marginata* 馬尾鐵	20th Aug 2012	Fair	N.F.A.

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

欣榮(香港)環境管理有限公司

Yan Wing (Hong Kong) Environment Management Limited

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

通信地址 (Mail Address)：上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)
Tel： 9776 1987, 2486 2317 Fax： 2482 4667 E-mail： yanwinghk@netvigator.com

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

I should be much grateful if you could endorse the attached Invoice (No.1035) 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

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/2012/8/2**	Name of Endorsement Officer 覆核人員姓名:	**WONG Pak Hay**
Date of Inspection 巡查日期:	**August 20, 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**	**N.F.A.**
Aleurites moluccana 石栗	**32% 2 Nos.**	**10-13M**	**FAIR**	**FAIR**	**To check the cracks of the planter and nearby ground surface**
Plumeria rubra 紅雞蛋花	**17% 1 No.**	**7M**	**FAIR**	**FAIR**	**N.F.A.**
Araucaria cunninghamia 花旗杉	**17% 1 No.**	**13M**	**FAIR**	**FAIR**	**N.F.A.**
Dracaena marginata 馬尾鐵	**17% 1 No.**	**8M**	**FAIR**	**FAIR**	**N.F.A.**

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: 30-8-2012

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

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，應為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	20th August 2012	Last Inspection Date	19th July 2012

III. COMMENTS :

1. Overall health condition of the tree is good.
2. Cleanliness of the planter is acceptable at the time of inspection.
3. Skilled workers are carrying out trimming services for the tree.
4. The site appears clean and tidy after the trimming work.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number

Fig 2. Cleanliness of the planter is acceptable.

Fig. 3 The site is clean and tidy.

Fig. 4 Some lower leaves are too close to the nearby buildings. Trimming of such leaves is recommended.

Fig. 5 Some lower leaves are too close to the nearby buildings. Trimming of such leaves is recommended..

Fig. 6 A large broken branch has been found hanging on the tree.

Fig. 7 Construction works o/s the cordon zone are in progress.

Fig. 8 Overall view of Tree-5 during inspection on 20th August 2012.

Fig. 9 Skilled workers commenced to trim the tree in the afternoon of the same date.

Fig. 10 Skilled workers used a handsaw to prune the broken branches.

Fig. 11 Pruning of the broken branches in progress.

Fig. 12 Skilled workers commenced to prune the lower leaves of the tree.

Fig. 13 All lower leaves have been trimmed by the skilled workers.

Fig. 14 Workers removed the tree debris away from the site.

Fig. 15 The site appears clean and tidy after trimming work.

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 August 2012

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	20th August 2012	Last Inspection Date	19th July 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. The planter is clean and tidy.
3. Construction works are in progress outside the cordon zone.
4. Many cracks are found at the planter and the nearby ground surface.
5. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. To check the cracks of the planter and the nearby ground surface.

V. PHOTO RECORD :

Fig 1. Tree number

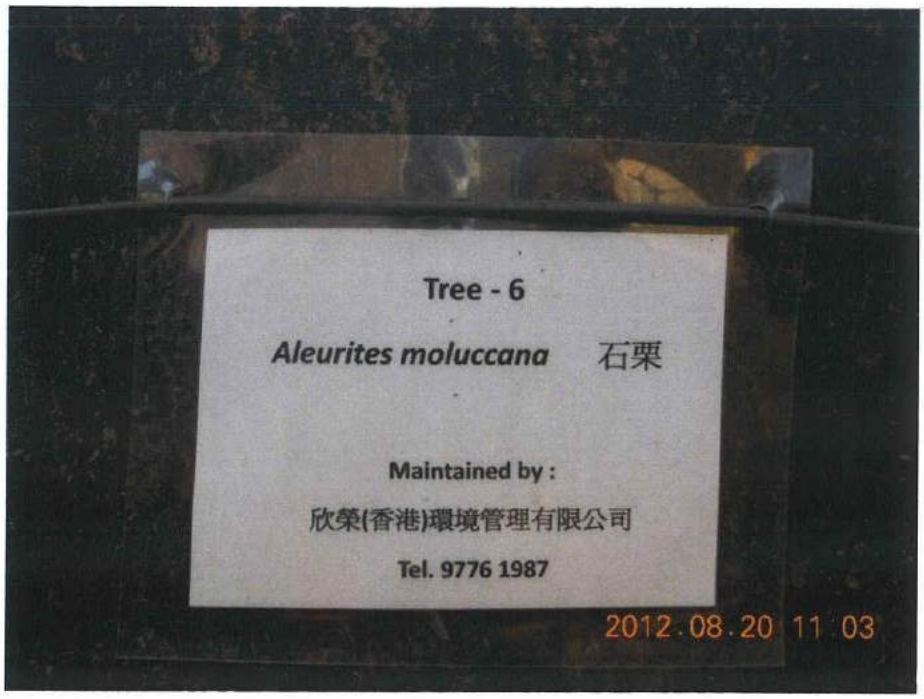


Fig 2. The planter is clean and tidy.

Fig. 3 The site appears clean and tidy . However, many cracks are found at the planter and the nearby ground surface.

Fig. 4 Overall view of Tree-6 during inspection on 20th August 2012.

Fig. 5 Construction works are in progress outside 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 August 2012

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	20th August 2012	Last Inspection Date	19th July 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Planter is clean and tidy.
3. The site appears clean and tidy.
4. Many cracks are found at the planter and the nearby ground surface.
5. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. To check the cracks of the planter and the nearby ground surface.

V. PHOTO RECORD :

Fig 1. Tree number

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

Fig. 3 The site appears clean and tidy. However, many cracks are found at the planter as well as the nearby ground surface.

Fig. 4 Overall view of Tree-7 during inspection on 20th August 2012.

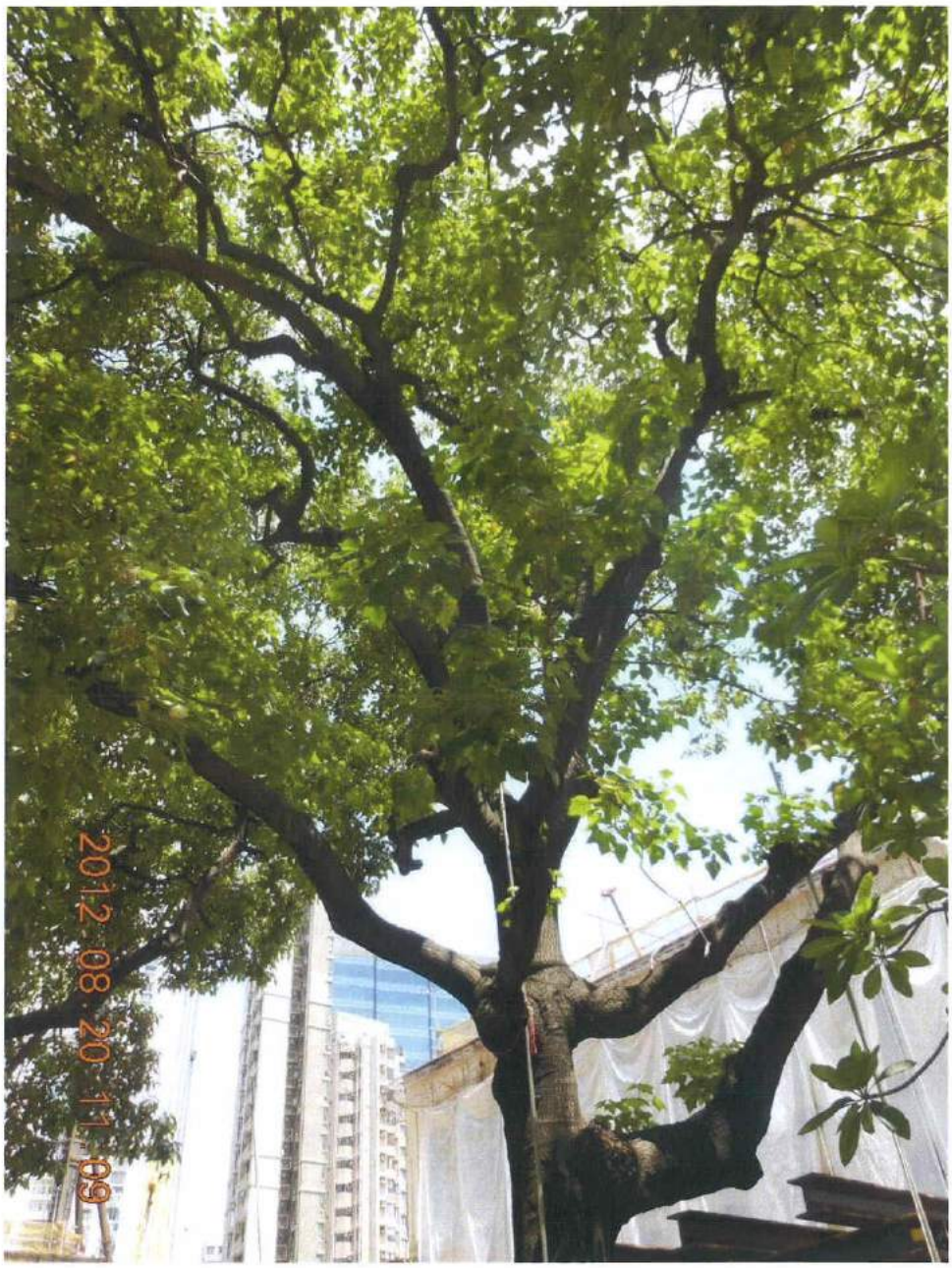


Fig. 5 Construction works are in progress outside the cordon zone.

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 August 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	20th August 2012	Last Inspection Date	19th July 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. The planter is clean and tidy.
3. Cleanliness of the site is acceptable.
4. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number

Fig 2. The planter is clean and tidy.

Fig. 3 Cleanliness of the site is acceptable.

Fig. 4 Overall view of Tree-8 during inspection 20th August 2012..

Fig. 5 Construction works in progress outside 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 August 2012

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	20th August 2012	Last Inspection Date	19th July 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Cleanliness of the planter is acceptable at the time of inspection.
3. The site inside the cordon zone is clean and tidy.
4. Some young and healthy leaves are found on the tree trunk.
5. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number

Fig. 4 Some young and healthy leaves appear on the tree trunk.

Fig. 5 The site outside the cordon zone is clean and tidy.

Fig. 6 Overall view of Tree-9 during inspection on 20th August 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 August 2012

YAN WING (HONG KONG) ENVIRONMENT MANAGEMENT LIMITED 恩榮(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 -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	20th August 2012	Last Inspection Date	19th July 2012

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Litter had been removed prior to inspection.
3. The wooden door is closed at the time of inspection.
4. Skilled workers are carrying out trimming services for the tree.
5. The site inside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number

Fig. 2 Litter and weeds were found at the planter on 19th July 2012.

Fig. 3 Cleanliness of the planter is acceptable on 20th August 2012.

Fig. 4 Some dead branches still appear on the tree.

Fig. 5 Skilled workers prune the dead branches of the tree.

Fig. 6 Pruning of the dead branches in progress.

Fig. 7 Workers remove tree debris away from the site.

Fig. 8 The site is clean and tidy after the trimming work.

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 August 2012

Annex K

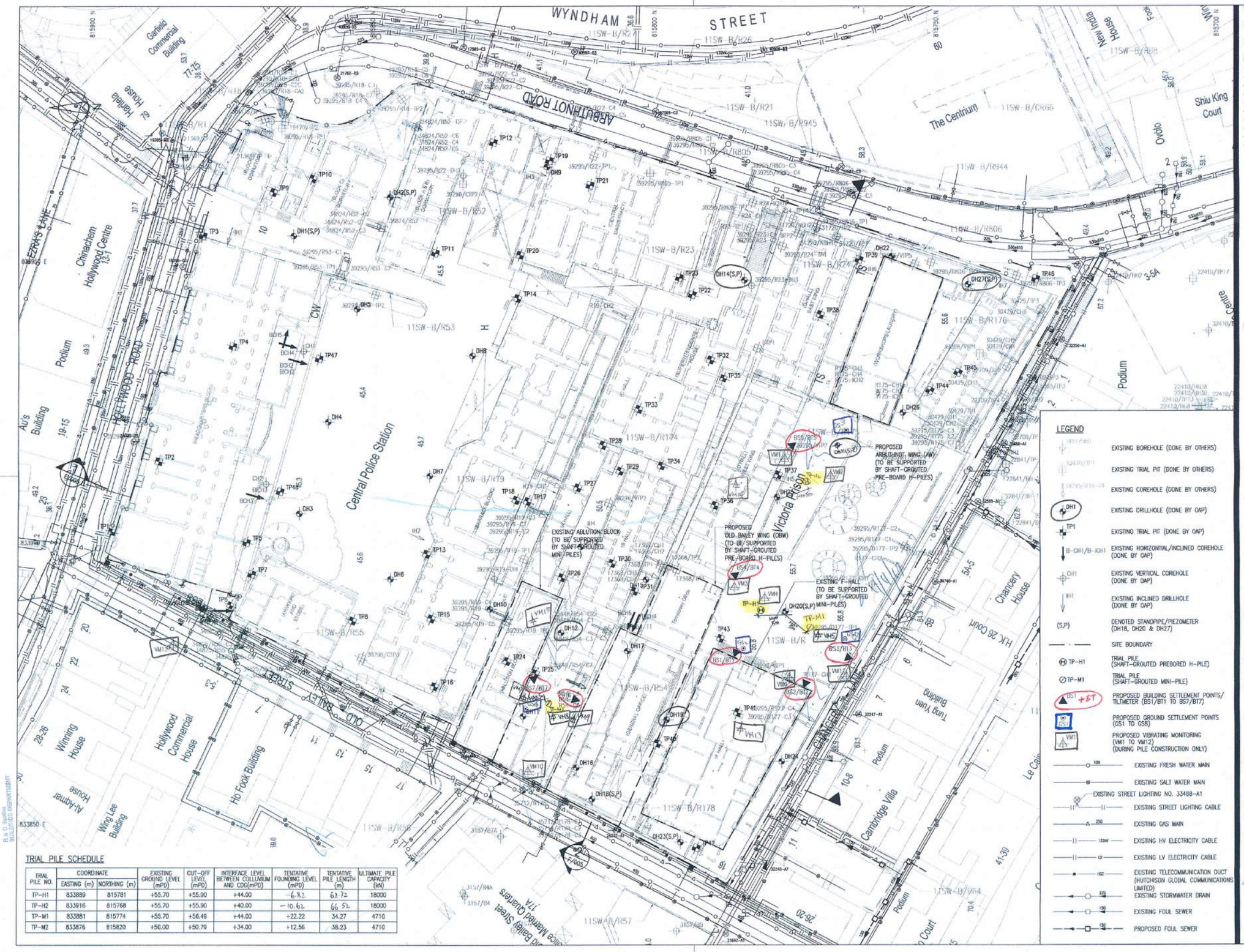
Environmental Complaint, Environmental Summon and Prosecution Log

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
April 2012	0	0
May 2012	0	0
June 2012	2	0
July 2012	1	0
August 2012	0	0
Overall Total	7	0

Annex L

Records of Vibration Monitoring for Trial Piling (Load Test), Piling and Demolition Works



TRIAL PILE SCHEDULE

TRIAL PILE NO.	COORDINATE		EXISTING GROUND LEVEL (mPD)	CUT-OFF LEVEL (mPD)	INTERFACE LEVEL BETWEEN COLLUVIUM AND CDG(mPD)	TENTATIVE FOUNDING LEVEL (mPD)	TENTATIVE PILE LENGTH (m)	ULTIMATE PILE CAPACITY (kN)
	EASTING (m)	NORTHING (m)						
TP-H1	833889	815781	+55.70	+55.90	+44.00	-6.32	62.72	18000
TP-H2	833916	815768	+55.70	+55.90	+40.00	-10.62	66.52	18000
TP-M1	833881	815774	+55.70	+56.49	+44.00	+22.22	34.27	4710
TP-M2	833876	815820	+50.00	+50.79	+34.00	+12.56	38.23	4710

RECEIVED BY
2011 SEP 19 P 2:54
R & D Section
BUILDINGS DEPARTMENT

B.D. Ref. No. 屋宇署檢閱編號

F.S.D. Ref. No. 消防處檢查編號

Revision/Submission 修改版/遞呈

No. 編號	Description 說明	Date 日期	Approved 審定
-	BD SUBMISSION	07/11	JS
A	TENDER DRAWING	08/11	JS
B	TENDER ADDENDUM	09/11	JS
C	BD RE-SUBMISSION	09/11	JS

Plan Approved
NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
17 NOV 2011

Key Plan 索引圖

BD SUBMISSION
Drawing Status 製圖狀況

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- Notify the relevant consultants immediately of any discrepancy found herein.
如發現內容有任何謬誤之處，應立刻通知有關顧問公司。

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
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
LAYOUT PLAN FOR SHAFT GROUTED PILE FOUNDATION (TRIAL PILE & MONITORING)

Scale 比例	Drawn 製圖	Checked 核對
1:300@(A1)	K.C.Lai	AL
Drawing No. 圖號		Revision 修改版
F/005		C

KWAN KIN KEH
Reg. Fellow & MICE, FHKIE
REGISTERED STRUCTURAL ENGINEER

Cad file : 209674_F005.dwg

B.D. Ref. No. 屋宇署檔案編號 3/3053/11 (BLK 17&50) (HU)(S)

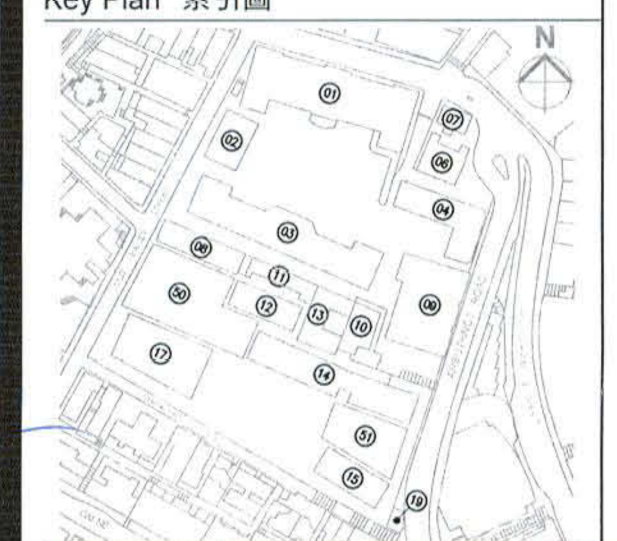
F.S.D. Ref. No. 消防處檔案編號

Revision/Submission 修改版/報批

No. 編號	Description 說明	Date 日期	Approved 審定
–	BD SUBMISSION	12/11	JS

Plan Approved
NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
20 FEB 2012

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現場複查及審核。
- Read this drawing in conjunction with the specifications and all other related drawings. 此圖紙必須與規格說明書及其它有關圖紙一併閱讀。
- Notify the relevant consultants immediately of any discrepancy found herein. 如發現內容有任何謬誤之處，應立刻通知有關顧問公司。

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

Design Consultant
HERZOG & DE MEURON

Conservation Architect
PURCELL MILLER TRITTON

Executive Architect / AP
ROCCO

Structural Engineer / RSE
ARUP

E & M Engineer
JRP

Project 項目
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT

Drawing Title 圖名
MONITORING LAYOUT PLAN

Scale 比例	Drawn 製圖	Checked 校對
1:300@A1	K.C.Lai	AL

Drawing No. 圖號	Revision 修改版
00-0AP209674-G-001	–

Cad file : 00-0AP209674-G-001.dwg

恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 Date: 29-7-2012 To 11-8-2012

POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
10-Aug-2012		0.27	0.19	0.13	0.23	0.61	0.24	0.6	0.61	0.3	0.33	0.65	0.41	0.22	0.19	0.13

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

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

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibration at gound level	2mm/s	2.5mm/s	3mm/s
Vibration at Largest Span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 Date: 12-8-2012 To 30-8-2012

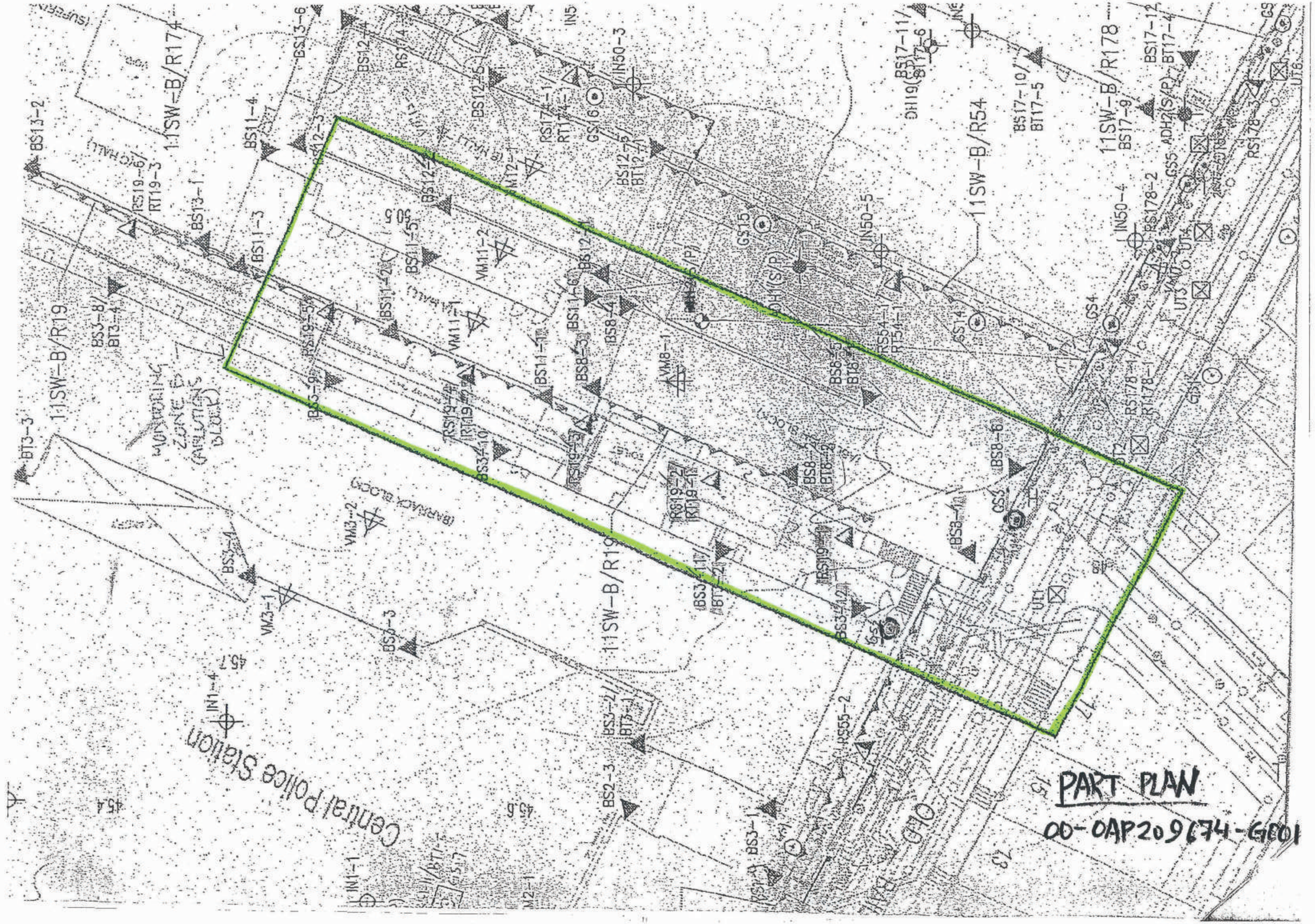
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)		**0.56**	**0.13**	**0.19**	**0.22**	**0.13**	**0.21**	**0.13**	**0.13**	**0.37**
12-Aug-2012										
13-Aug-2012		0.72	0.17	0.12	0.13	0.12	0.16	0.10	0.23	0.11
14-Aug-2012		0.24	0.12	0.18	0.14	0.12	0.26	0.11	0.19	0.12
15-Aug-2012		0.09	0.37	0.11	0.14	0.13	0.13	0.10	0.13	0.12
16-Aug-2012		0.11	0.11	0.18	0.13	0.11	0.30	0.16	0.11	0.11
17-Aug-2012		0.10	0.23	0.11	0.11	0.13	0.11	0.11	0.16	0.13
18-Aug-2012		0.09	0.10	0.46	0.15	0.20	0.13	0.10	0.11	0.12
20-Aug-2012		0.13	0.15	0.12	0.12	0.15	0.13	0.48	0.13	0.15
21-Aug-2012		0.09	0.11	0.13	0.13	0.12	0.11	0.13	0.10	0.13
22-Aug-2012		0.10	0.12	0.11	0.29	0.11	0.16	0.12	0.11	0.14
23-Aug-2012		0.10	0.11	0.14	0.33	0.23	0.12	0.14	0.27	0.14
24-Aug-2012		0.13	0.16	0.12	0.22	0.25	0.46	0.11	0.11	0.23
25-Aug-2012		0.09	0.12	0.13	0.14	0.12	0.11	0.12	0.16	0.14
27-Aug-2012		0.09	0.11	0.12	0.10	0.11	0.15	0.11	0.12	0.13
28-Aug-2012		0.10	0.13	0.12	0.31	0.11	0.13	0.12	0.11	0.11
29-Aug-2012		0.24	0.13	0.13	0.14	0.11	0.08	0.15	0.21	0.12
30-Aug-2012		0.10	0.09	0.12	0.26	0.18	0.15	0.41	0.11	0.10

Prepared by : Lo wing yue (Surveyor)

Annex M

Records of Vibration Monitoring for Other Construction Works


WYNDHAM STREET
ARBUTHNOT ROAD
HOLLYWOOD ROAD
OLD BAILEY STREET
Central Police Station
Victoria Prison
LEGEND
EXISTING FRESH WATER MAIN
EXISTING SALT WATER MAIN
EXISTING STREET LIGHTING NO. 33488-A1
EXISTING STREET LIGHTING CABLE
EXISTING GAS MAIN
EXISTING HV ELECTRICITY CABLE
EXISTING LV ELECTRICITY CABLE
EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
EXISTING STORMWATER DRAIN
EXISTING FOUL SEWER
PROPOSED FOUL SEWER
SITE BOUNDARY
EXISTING RETAINING WALL
EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
PROPOSED INCLINOMETER
PROPOSED GROUND SETTLEMENT POINTS
PROPOSED UTILITY MONITORING POINTS
PROPOSED VIBRATION MONITORING POINTS
PROPOSED ADDITIONAL DRILLHOLE
Plan Approved
NG Kin-shing
Chief Structural Engineer
for BUILDING AUTHORITY
20 FEB 2012
BD SUBMISSION
Client
The Jockey Club CPS Limited
Design Consultant
HERZOG & DE MEURON
Executive Architect / AP
ROCCO
Structural Engineer / RSE
ARUP
E & M Engineer
JRP
Project
CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT
Drawing Title
MONITORING LAYOUT PLAN
Scale 1:300@A1
Drawn K.C.Lai
Checked AL
Drawing No. 00-OAP209674-G-001



PART PLAN
00-0AP209674-GC01
Central Police Station
11SW-B/R19
11SW-B/R174
11SW-B/R54
11SW-B/R178
BARRACK BLOCK
MONITORING ZONE B

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP203 Date: 29-7-2012 To 11-8-2012

POINT		VM8-1	VM11-1	VM11-2												
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-12 (Initial)		0.212	0.087	0.116												
29-Jul-2012																
30-Jul-2012		0.132	0.088	0.109												
31-Jul-2012		0.127	0.094	0.112												
1-Aug-2012		0.129	0.082	0.106												
2-Aug-2012		0.135	0.095	0.114												
3-Aug-2012		0.125	0.084	0.108												
4-Aug-2012		0.130	0.092	0.116												
5-Aug-2012																
6-Aug-2012		0.122	0.081	0.098												
7-Aug-2012		0.128	0.093	0.113												
8-Aug-2012		0.132	0.086	0.097												
9-Aug-2012		0.126	0.082	0.104												
10-Aug-2012		0.118	0.092	0.111												
11-Aug-2012		0.120	0.084	0.102												

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

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

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP203 Date: 12-8-2012 To 25-8-2012

POINT		VM8-1	VM11-1	VM11-2												
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-12 (Initial)		0.212	0.087	0.116												
12-Aug-2012																
13-Aug-2012		0.134	0.096	0.121												
14-Aug-2012		0.127	0.088	0.119												
15-Aug-2012		0.132	0.092	0.116												
16-Aug-2012		0.118	0.087	0.118												
17-Aug-2012		0.126	0.094	0.126												
18-Aug-2012		0.104	0.082	0.098												
19-Aug-2012																
20-Aug-2012		0.115	0.086	0.114												
21-Aug-2012		0.123	0.092	0.122												
22-Aug-2012		0.128	0.084	0.108												
23-Aug-2012		0.116	0.090	0.122												
24-Aug-2012		0.123	0.087	0.114												
25-Aug-2012		0.118	0.093	0.120												