MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: *Twentieth Monthly EM&A Report* (1 June to 30 June 2013)

Issue Date: July 2013

Environmental Resources Management

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Issue Date: July 2013 Reference 0095646

For and on	behalf of
ERM-Hong	Kong, Limited
Approved l	by: Frank Wan
Signed:	Harcherth J.
Position:	Partner
Certified by	v: What
(En	vironmental Team Leader – Winnie Ko)
Date: _	10 July 2013

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

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Date: 12 July 2013

By Email and Post

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

Attn: Ms Winnie Ko

Dear Winnie,

Central Police Station Conservation and Revitalization Project Verification of Monthly EM&A Report No.20

We refer to your letter dated 12 July 2013 regarding the Monthly EM&A Report No.20. Atkins China Ltd. verifies, in the capacity of Independent Environmental Checker, that the report, in principle, conforms the requirements provided in Condition 3.4 of the Environmental Permit (EP-408/2011/B).

Yours sincerely, For Atkins China Ltd.

Grafal

Sharifah Or Independent Environmental Checker

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

1	INTRODUCTION	1
1.1	PURPOSE OF THE REPORT	1
1.2	STRUCTURE OF THE REPORT	1
2		
2	PROJECT INFORMATION	3
2.1	BACKGROUND	3
2.2	SITE DESCRIPTION	3
2.3	CONSTRUCTION ACTIVITIES	3
2.4	PROJECT ORGANISATION	4
2.5	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	4
3	ENVIRONMENTAL MONITORING REQUIREMENTS	6
3.1	Noise Monitoring	6
3.1.1	Monitoring Location	6
3.1.2	Monitoring Parameters, Frequency and Programme	6
3.1.3	Monitoring Equipment and Methodology	6
3.1.4	Event / Action Plan	7
3.1.5	Mitigation Measures	7
3.2	Cultural Heritage	8
3.2.1	Vibration Monitoring	8
3.2.2	Mitigation Measures	9
3.3	LANDSCAPE AND VISUAL MONITORING	9
3.3.1	Mitigation Measures	9
3.4	ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS	9
4	IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION	
	REQUIREMENTS	10
5	MONITORING RESULTS	11
5.1	Noise	11
5.2	Cultural Heritage	11
5.3	LANDSCAPE AND VISUAL	12
5.4	WASTE MANAGEMENT	13
6	ENVIRONMENTAL SITE INSPECTION	14
7	ENVIRONMENTAL NON-CONFORMANCE	15
7.1	SUMMARY OF MONITORING EXCEEDANCE	15
7.2	SUMMARY OF ENQUIRY	15
7.3	SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE	15
7.4	SUMMARY OF ENVIRONMENTAL COMPLAINT	15
7.5	SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION	16

8 FUTURE KEY ISSUES

8.1	Key Issues for the Coming Month	16
8.2	MONITORING SCHEDULE FOR THE NEXT MONTH	16
8.3	CONSTRUCTION PROGRAMME FOR THE NEXT MONTH	16
9	CONCLUSIONS	17

LIST OF TABLES

Table 2.1	Summary of Construction Activities Undertaken from 1 June to
	30 June 2013

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

LIST OF ANNEXES

Annex A	Locations of Works Areas and the Surroundings
Annex A1	Project Location
Annex A2	Declared Monuments within the Project Site
Annex A3	Site Layout Plan marked with Works
Annex B	Project Organization Chart and Contact Detail
Annex C	Locations of Noise Monitoring Stations and Noise Sensitive Receivers
Annex D	Monitoring Schedule of the Reporting Month and the Next Month
Annex E	Calibration Reports for Calibrators and Sound Level Meters
Annex F	Event /Action Plans for Noise
Annex G	Summary of Implementation Status
Annex H	Noise Monitoring Results
Annex I	Construction Programme for the Project

Annex J	Tree Inspection Reports
Annex K	Environmental Complaint, Environmental Summons and Prosecution Log
Annex L	Records of Vibration Monitoring for Trial Piling and Pipe / Bored Piling Works
Annex M	Records of Vibration Monitoring for Other Construction Works

EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the twentieth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 June to 30 June 2013 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:

- General strip out works at Block 3, Block 10, Block 13 and Block 17;
- Structural addition and alteration works at Block 1;
- Roof tiling preparation works at Block 1;
- Demolition works at Block 11 and Block 12;
- Timber loading test at Block 3, Block 13 and Block 14;
- Masonry wall loading test at Block 4;
- Underpinning works at Block 14;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing, Block 8 and Block 17;
- Loading test to trial working pile at Arbuthnot Wing;
- Removal of loading test platform at Arbuthnot Wing;
- Excavation and lateral support works at Parade Ground;
- Timber doors and windows repair works at Block 1, Block 3, Block 6 and Block 7;
- E&M installation at Block 1;
- Additional bored hole at Old Bailey Street;
- Additional inclined drilled holes at revetment wall R55 at Old Bailey Street; and
- External scaffolding erection at Block 6, Block 7 and Block 10.

Environmental Monitoring and Audit Progress

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

•	Construction noise monitoring during normal weekdays at each	
	monitoring station	5 times
•	Joint environmental site inspection	1 time
•	Heritage site inspections	11 times
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration monitoring for trial piling works	4 times

- Vibration monitoring for pipe pile/bored pile walls piling works
 120 times
 120 times
- Vibration monitoring for other construction works72 times

<u>Noise</u>

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

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

- 24 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 24 vibration monitoring measurements for the foundation pile works at Block 8;
- 24 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 24 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 24 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 4 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

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

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

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

Heritage site audits were conducted on 3 June, 4 June, 5 June, 11 June, 14 June, 17 June, 18 June, 19 June, 20 June, 21 June and 25 June 2013 during the

reporting period. Major observations and recommendations during the site inspections were listed below:

19 June 2013

• Timber frame of 03/DG/06 in Building 3 has been damaged, potentially caused either during the process of paint removal or fanlight/door leaf removal. Improvement of the protection is required.

20 June 2013

• Two cigarette boxes were found on the timber floor of room 03/F/25 in Building 3.

25 June 2013

• It was noticed that timber floor load test in Block 10 failed due to leakage of water.

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

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 3 June 2013 by the arborist during the reporting period. The planter of Tree-5 should be cleaned and the Contractor should pay utmost attention to potential land pollution at the worker storage room. Close monitoring of sap flow in Tree-9 by the Contractor was recommended for the upcoming month.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 3,062.38 tonnes of inert C&D materials were generated during the reporting period. 212.63 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 7,150 kg of metal was produced and sent to recyclers for recycling. No plastics waste or paper/cardboard packaging was generated during the reporting period. No chemical waste was produced during the reporting period.

Environmental Site Inspection

A joint environmental site inspection was carried out by the representatives of the Contractor, the IEC and the ET on 20 June 2013. There is no major observation or recommendation during the site audit.

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:

- General strip out works at Block 3, Block 10 and Block 13;
- Structural addition and alteration works at Block 1;
- Roof tiles replacement works at Block 1;
- Demolition works to Block 11;
- New structure construction at Block 11;
- Proof drill for grouting work at Block 14;
- Underpinning works of Block 14;
- Demolition work at Block 3;
- Demolition of ground slab at Block 10 and Block 13;
- Timber loading test at Block 3, Block 10 and Block 14;
- Excavation and lateral support works at Parade Ground;
- Timber doors and windows repair works at Block 1, Block 3, Block 4, Block 6 and Block 7;
- E&M installation at Block 1; and
- External Scaffolding erection at Block 4, Block 6 and Block 7.

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 twentieth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 June** to **30 June 2013**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : Introduction

details the scope and structure of the report.

Section 2: Project Information

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

Section 3: Environmental Monitoring Requirements

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

Section 4 : Implementation Status on Environmental Protection Requirements

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

Section 5 : Monitoring Results

summarises the monitoring results obtained in the reporting period.

Section 6 : **Environmental Site Inspection** summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7: Environmental Non-conformance

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

Section 8: Future Key Issues

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

Section 9: Conclusions

2.1 BACKGROUND

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

2.2 SITE DESCRIPTION

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

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

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

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

2.3 CONSTRUCTION ACTIVITIES

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

Construction Activities Undertaken

- General strip out works at Block 3, Block 10, Block 13 and Block 17;
- Structural addition and alteration works at Block 1;
- Roof tiling preparation works at Block 1;
- Demolition works at Block 11 and Block 12;
- Timber loading test at Block 3, Block 13 and Block 14;
- Masonry wall loading test at Block 4;
- Underpinning works at Block 14;
- Foundation pile at Old Bailey Wing, Arbuthnot Wing, Block 8 and Block 17;
- Loading test to trial working pile at Arbuthnot Wing;
- Removal of loading test platform at Arbuthnot Wing;
- Excavation and lateral support works at Parade Ground;
- Timber doors and windows repair works at Block 1, Block 3, Block 6 and Block 7;
- E&M installation at Block 1;
- Additional bored hole at Old Bailey Street;
- Additional inclined drilled holes at revetment wall R55 at Old Bailey Street; and
- External scaffolding erection at Block 6, Block 7 and Block 10.

2.4 PROJECT ORGANISATION

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

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

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

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	Superseded on 10 January 2012
	EP-408/2011/A	-	Superseded on 22 March 2012
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under <i>Air</i> <i>Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under Waste Disposal Ordinance	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-

Permit/ Licences/ Notification	Reference	Validity Period	Remarks	
Effluent Discharge License under Water Pollution Control Ordinance	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-	
Notification of Commencement of Asbestos Abatement Work under <i>Air</i> <i>Pollution Control</i> <i>Ordinance</i>	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO	
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012	EPD's letter (EPD's ref:() in EPAC/A/4/000/23 3) dated 18 January 2012.	
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	Expired.	
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.	
	GW-RS1162-12	1 December 2012 at 0000 hours to 28 March 2013 at 0600 hours	Expired.	
	GW-RS0113-13	1 February 2013 at 0200 hours to 31 May 2013 at 0400 hours	Expired.	
	GW-RS1301-12	2 January 2013 at 1900 hours to 29 June 2013 at 2300 hours	Expired.	
	GW-RS0084-13	24 January 2013 at 1900 hours to 29 June 2013 at 0700 hours	Expired.	
	GW-RS0638-13	16 June 2013 at 0700 hours to 15 September 2013 at 1900 hours	-	
	GW-RS0714-13	29 June 2013 at 1900 hours to 28 December 2013 at 2400 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 3.1Construction 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 3.2Noise Monitoring Equipment

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10786708)
	Sound Level Meter
	Rion NL-31 (S/N 00603867)

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

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

3.1.4 Event / Action Plan

Table 3.3 Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring Location	Action Level	Limit Level, L _{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:					
· 1	se Levels for Area Sen ools and 65dB(A) dur	, 0	B/C. Limit Level is reduced to on periods.		
b) If works are to) If works are to be carried out during restricted hours, the conditions stipulated in the CNP				

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 and Pipe/Bored Piling Works

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

Vibration Monitoring for Other Construction Works

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

Alert, Alarm and Action Levels

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

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

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

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

Table 3.5Event and Action Plan for Vibration Monitoring

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

3.2.2 *Mitigation Measures*

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

3.3 LANDSCAPE AND VISUAL MONITORING

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

3.3.1 *Mitigation Measures*

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

3.4 Environmental Requirements in Contract Documents

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

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

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

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

Table 4.1Status of Required Submissions

4

Submission		Submission Date
EP Condition		
EM&A Manual Section 10.4	Sixth Quarterly EM&A Report	10 June 2013
Condition 3.4	Nineteenth Monthly EM&A Report	17 June 2013

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 or Limit Level of construction noise was recorded during the reporting period.

5.2 CULTURAL HERITAGE

5.2.1 Vibration Monitoring

Trial Piling and Piling works

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

- 24 vibration monitoring measurements for the construction of the pipe pile walls at Parade Ground;
- 24 vibration monitoring measurements for the foundation pile works at Block 8;
- 24 vibration monitoring measurements for the construction of pipe pile walls at Old Bailey Wing (Block 50);
- 24 vibration monitoring measurements for the shaft grouted pre-bored H-piles at Block 51;
- 24 vibration monitoring measurements for the steel shear H-piles at Block 17; and
- 4 vibration monitoring measurements for the weekly vibration monitoring for the trial piling near Block 17.

The monitoring results are presented in *Annex L*.

Other Construction Works

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

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

The monitoring results are presented in *Annex M*.

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

5.2.2 Heritage Site Audit

Heritage site audits were conducted on 3 June, 4 June, 5 June, 11 June, 14 June, 17 June, 18 June, 19 June, 20 June, 21 June and 25 June 2013 by the Heritage Checker during the reporting period. Major observations and recommendations during the site inspections were listed below:

19 June 2013

• Timber frame of 03/DG/06 in Building 3 has been damaged, potentially caused either during the process of paint removal or fanlight/door leaf removal. Improvement of the protection is required.

20 June 2013

• Two cigarette boxes were found on the timber floor of room 03/F/25 in Building 3.

25 June 2013

• It was noticed that timber floor load test in Block 10 failed due to leakage of water.

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

5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 3 June 2013 and major observations and recommendations in the reporting period are summarised in *Table 5.1*. The tree inspection report is contained in *Annex J*.

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observations / Recommendations			
Tree -5	Mangifera indica	Good	 Planter should be cleaned regularly; 			
			 To pay utmost attention to potential land pollution at the worker store room at all times. 			
Tree -6	Aleurites moluccana	Fair	• No further action required.			
Tree-7	Aleurites moluccana	Fair	• No further action required.			
Tree-8	Plumeria rubra	Fair	• No further action required.			
Tree-9	Araucaria cunninghamia	Fair	• Close monitoring of sap flow is recommended.			
Tree-11	Dracaena marginata	Fair	• No further action required.			

Table 5.1Findings of Monthly Tree Inspection in the Reporting Period

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. 7150 kg of metal was generated and sent to recyclers for recycling. No plastics waste or paper / cardboard packaging was generated during the reporting period. No chemical waste was produced during the reporting period.

Table 5.2Quantities of Waste Generated from the Project

Month / Year			Qı	uantity			
-	C&D	C&D	Chemical Waste		Recycled materials		ials
	Materials (inert) ^(a)	Materials (non-inert) ^(b)	Solid	Liquid	Paper / cardboard	Plastics	Metals
June 2013	3062.38 tonnes	212.63 tonnes	0 kg	0 L	0 kg	0 kg	7150 kg

Notes:

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

(b) The figure presented under non-inert C&D materials represents quantities of non-recyclable materials such as general refuse which were disposed of at SENT Landfill. Recycled materials are reported separately.

6 ENVIRONMENTAL SITE INSPECTION

Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 20 June 2013. There was no non-compliance recorded during the site inspection.

Follow-up Actions for the Last Site Audit

Nil.

Observations and Recommendations of this Reporting Month

Nil.

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 recorded during the reporting period.

7.3 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

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

7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

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.

8.1 KEY ISSUES FOR THE COMING MONTH

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

Table 8.1 Construction Works to be Undertaken in the Coming Month

Work to be Undertaken

- General strip out works at Block 3, Block 10 and Block 13;
- Structural addition and alteration works at Block 1;
- Roof tiles replacement works at Block 1;
- Demolition works to Block 11;
- New structure construction at Block 11;
- Proof drill for grouting work at Block 14;
- Underpinning works of Block 14;
- Demolition work at Block 3;
- Demolition of ground slab at Block 10 and Block 13;
- Timber loading test at Block 3, Block 10 and Block 14;
- Excavation and lateral support works at Parade Ground;
- Timber doors and windows repair works at Block 1, Block 3, Block 4, Block 6 and Block 7;
- E&M installation at Block 1; and
- External Scaffolding erection at Block 4, Block 6 and Block 7.

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 June to 30 June 2013 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

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.

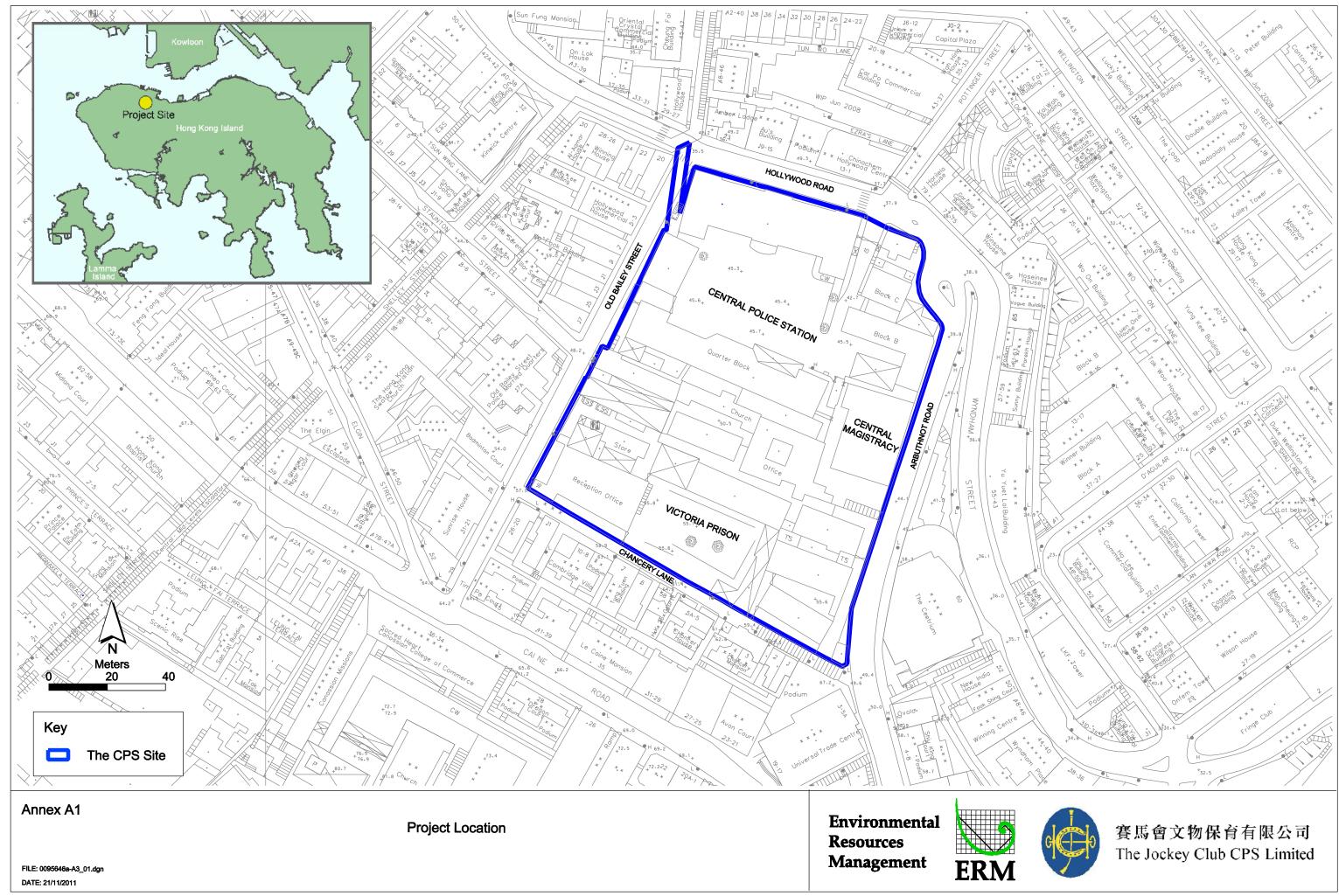
No non-compliance event was recorded during the reporting period.

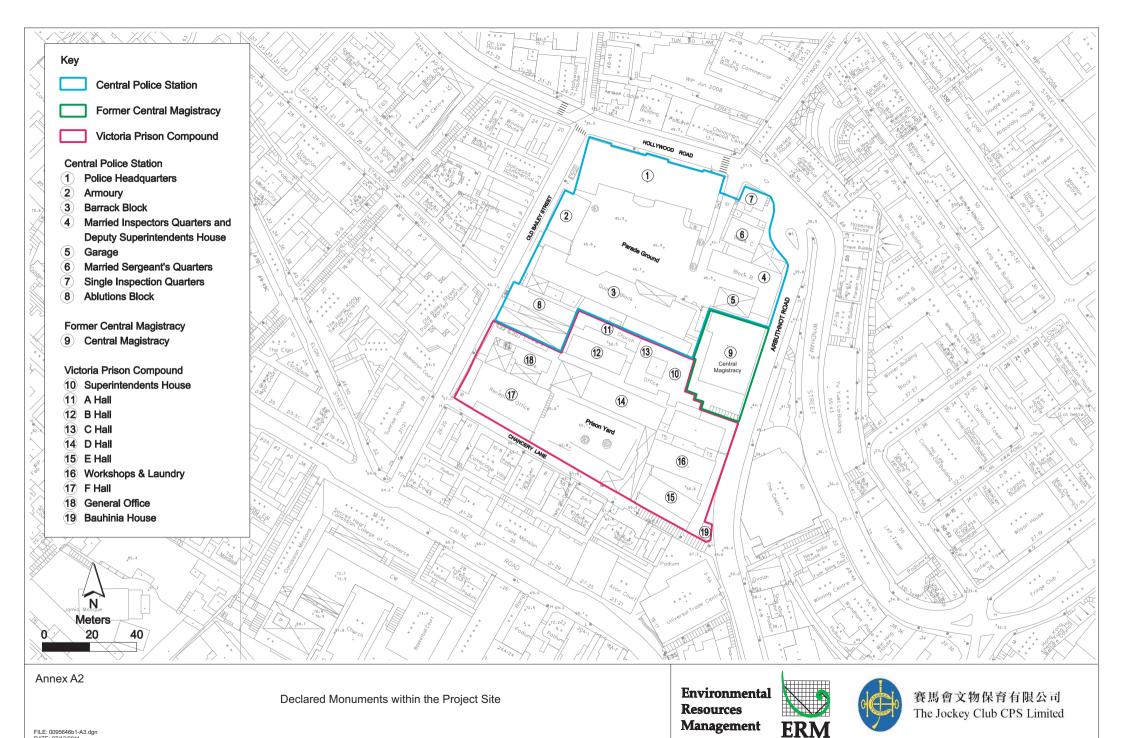
No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

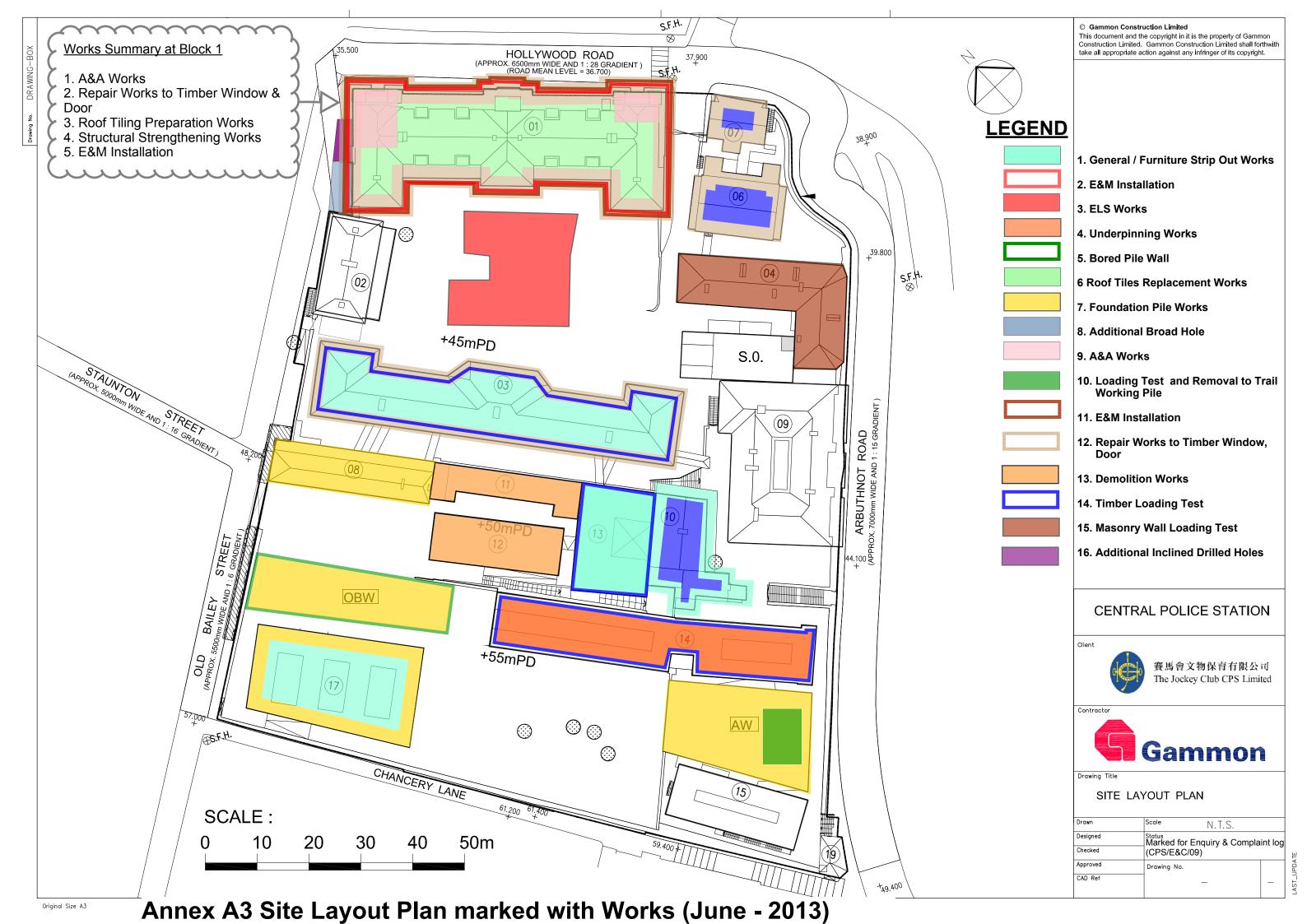
The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures. Annex A

Locations of Works Areas and the Surroundings



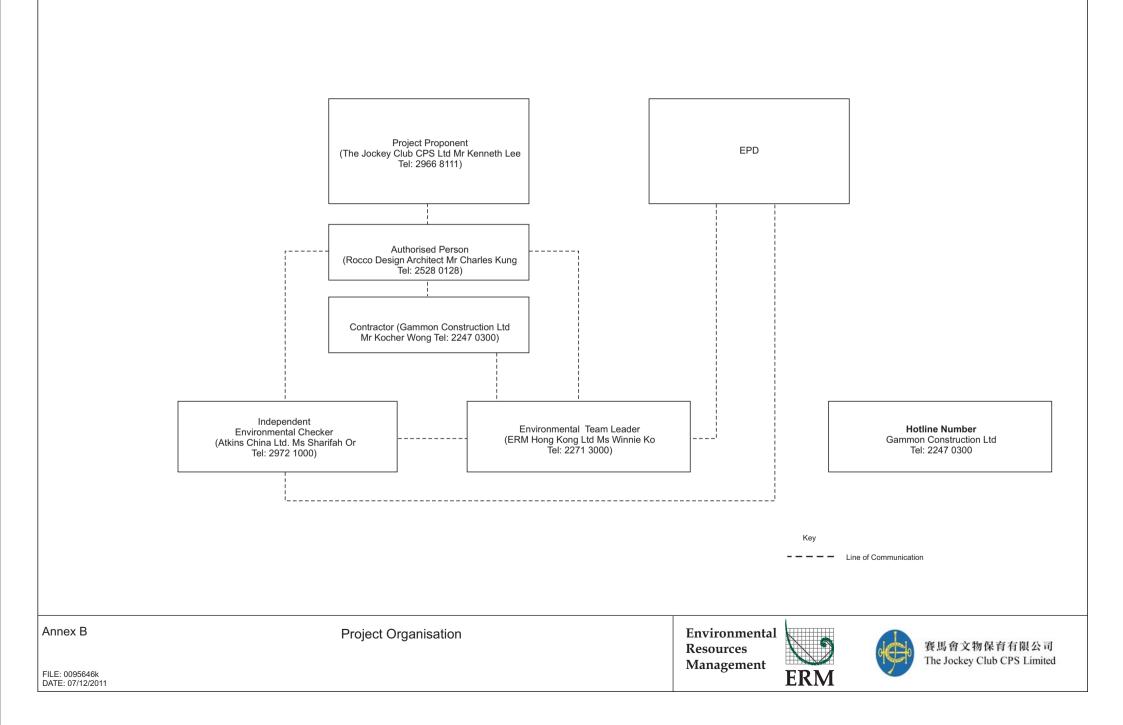


FILE: 0095646b1-A3.dgn DATE: 07/12/2011



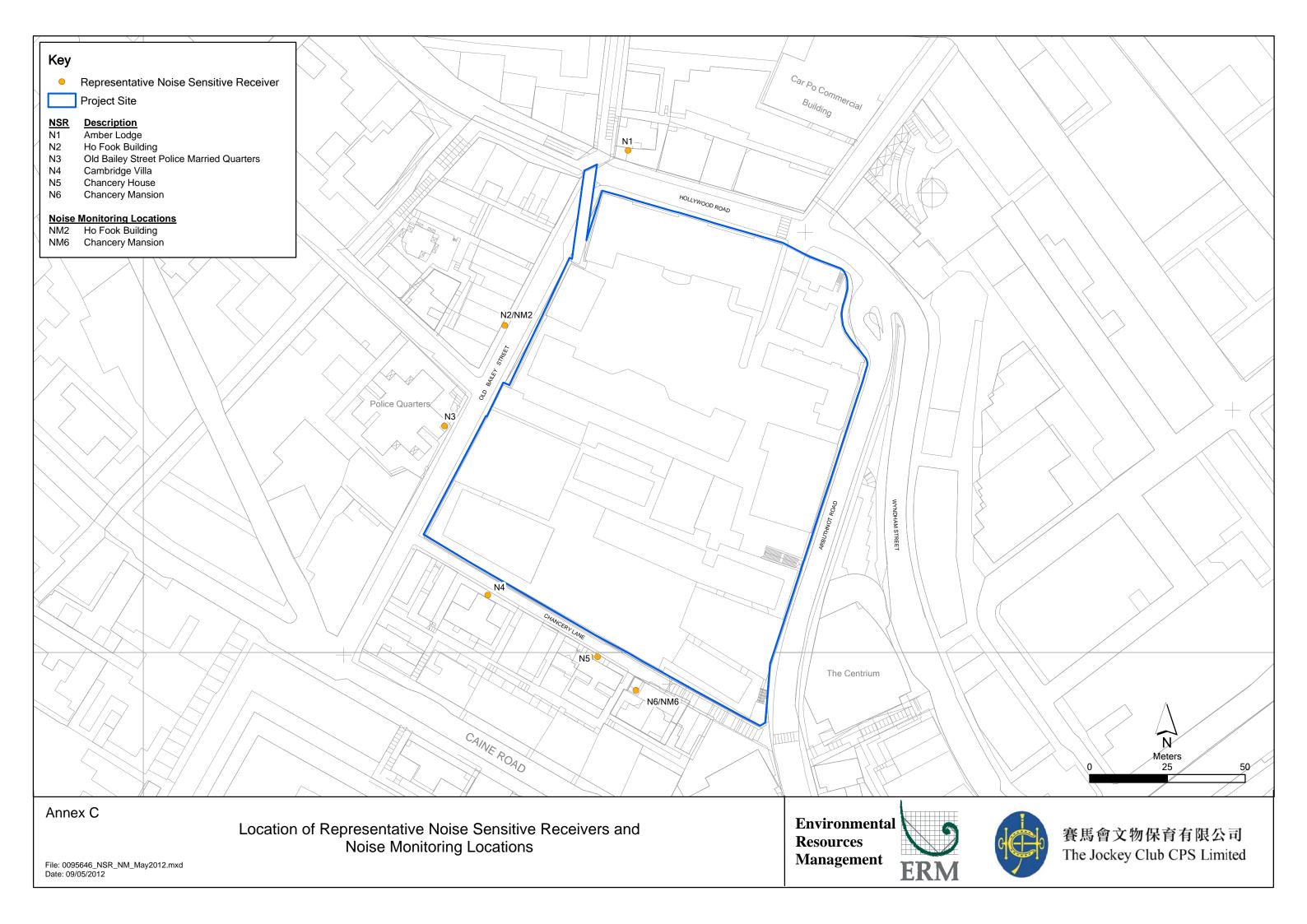
Annex B

Project Organization Chart and Contact Detail



Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



Annex D

Monitoring Schedule of the Reporting Period and Next Month

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - June 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Jun
02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun	08-Jun
	Noise Monitoring					Noise Monitoring
	at NM2 & NM6					at NM2 & NM6
09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun
09-0011	10-0un	11-5011	12-0011	13-5011	14-5011	13-301
					Noise Monitoring	
					at NM2 & NM6	
16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
				Naise Menitering		
				Noise Monitoring at NM2 & NM6		
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
			Noise Monitoring			
			at NM2 & NM6			
30-Jun						

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Next Reporting Month - July 2013

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

Annex E

Calibration Reports for Calibrators and Sound Level Meters



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124184 證書編號

ITEM TESTED / 送檢功	頁目	(Job No. / 序引編號:IC12-1770)
Description / 儀器名稱	:	Sound Level Calibrator
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NC-73
Serial No. / 編號	:	10786708
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

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

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 17 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
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Rohde & Schwarz Laboratory, Germany

Tested By 測試

L K Yeung

K C Lee

Certified By 核證 Date of Issue 簽發日期 :

18 July 2012

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

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



Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124184 證書編號

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

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

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

5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.9	± 0.5	± 0.2

5.2 Frequency Accuracy

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

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

Note :

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

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

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



Certificate of Calibration 校正證書

Certificate No. : C124191 證書編號

ITEM TESTED / 送檢功	頁目	(Job No. / 序引編號:IC12-1770)
Description / 儀器名稱	:	Sound Level Meter
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NL-31
Serial No. / 編號	:	00603867
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 18 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
- Agilent Technologies, USA
- Fluke Everett Service Center, USA
- Fluke Precision Measurement Ltd., UK
- Rohde & Schwarz Laboratory, Germany

Tested By 測試 L K Yeung

Certified By Date of Issue : 18 July 2012 核證 簽發日期 K C Lee

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

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

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c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 交正證書

Certificate No. : C124191 證書編號

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

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C120016 DC110233

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

6.1.1 Reference Sound Pressure Level

	UUT Setting				Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	UU	JT Setting		Applied Value		UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.8

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

6.2 Time Weighting

UUT Setting				Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8	Ref.
			Slow			93.7	± 0.3

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

Sun Creation Engineering Limited - Calibration & Testing Laboratory

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

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

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

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



Certificate of Calibration 校正證書

Certificate No. : C124191 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

		T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	-	(dB)	(dB)
30 - 120	LA	A	Fast	94.00	63 Hz	67.6	-26.2 ± 1.5
					125 Hz	77.6	-16.1 ± 1.5
					250 Hz	85.1	-8.6 ± 1.4
					500 Hz	90.6	-3.2 ± 1.4
					1 kHz	93.8	Ref.
					2 kHz	95.1	$+1.2 \pm 1.6$
					4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	92.8	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.9	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

e menginening							
	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	С	Fast	94.00	63 Hz	93.0	-0.8 ± 1.5
					125 Hz	93.6	-0.2 ± 1.5
					250 Hz	93.8	0.0 ± 1.4
					500 Hz	93.9	0.0 ± 1.4
					1 kHz	93.9	Ref.
					2 kHz	93.7	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.1	-6.2 (+3.0 ; -6.0)

Remarks : - Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94	dB : 63 Hz - 125 Hz 250 Hz - 500 Hz	
	1 kHz	
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
104	4 dB : 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
114	4 dB : 1 kHz	$\pm 0.10 \text{ dB} (\text{Ref. 94 dB})$

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

Note :

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

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Annex F

Event / Action Plans for Noise

Annex F Event and Action Plan for Noise

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

Annex G

Summary of Implementation Status

Annex G Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultur	al Heritag	ge			
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	No field work in the reporting month.
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	V
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed	Whole site	Prior to and during construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement. The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
53.9.3	S3.3.4	<u>Archival Recording</u> An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as- built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<u>General Construction Methods</u> Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing), a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be	Whole site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
53.7.1 & 3.7.2	-	checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings / structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the c	Whole site	During detailed design, construction, post- construction and operation	√ - CMP was implemented during the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Landsca	ipe & Visi	ıal			1
S4.7.27		<u>In-situ Tree Protection - Cordon Zone (CZ)</u> Cordon off each tree along its drip line (below the crown) with a chain- link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.	Whole site	During construction	- Part of the cordon zone of Tree-5 has been altered to a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times. Tree-11 has been wrapped using hessian cloth so that the tree is kept a reasonable distance from the nearby buildings (see attached at the end of <i>Annex</i> <i>G</i>).
S4.7.2	-	<u>In-situ Tree Protection - Advanced & Phased Root Pruning</u> All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	<u>In-situ Tree Protection - Foliage cleansing system</u> A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	\checkmark

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	Whole site	During construction	\checkmark
		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 (<i>http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf</i>) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.			
S4.7.2	-	<u>Light Control</u> Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	\checkmark
S4.7.2	S4	<u>Compensatory Tree Planting</u> A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

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

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
<i>\$5.9</i>	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	\checkmark
<i>S5.9</i>	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During construction	√
<i>S5.9</i>	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	\checkmark
<i>S5.9</i>	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	\checkmark
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During construction	V
Air Qu	ality				
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) <i>Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During construction	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	V
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	\checkmark
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	\checkmark
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	\checkmark
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	\checkmark
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	√
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	\checkmark
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	\checkmark
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	√
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	\checkmark
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	\checkmark
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	N/A – Not observed.
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	\checkmark
Water (Quality			1	
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	\checkmark
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	\checkmark

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

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	\checkmark
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	\checkmark
Waste I	Manageme	nt			
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	\checkmark
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	N
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	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	\checkmark
S8.5	S6	<u>Chemical Waste</u> The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Containers used for storage of chemical waste shall: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	\checkmark

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	\checkmark
S8.5	S6 & Table 6.1	<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	\checkmark
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	\checkmark
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commencement of construction	\checkmark
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	√

Remark:

 $\sqrt{}$ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

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

Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd

N/A Not Applicable in Reporting Period



Yan Wing (Hong Kong) Environment Management Limited

香港 新界 沙頭角 新樓街 15 號 二樓 RECEIVED No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong -2 JUL 2013

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

1st July 2013 Our Ref. : YW/TP/GAMMON/2013/6/3

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

Dear Sirs,

Provision of Wrapping Service for Tree-11 (*Dracaena marginata* 馬尾鐵) <u>at Central Police Station Compound</u> (ISC No.: CPS/ISC/1005/004 Dated 29 May 2013)

Please be informed that my skilled workers have used the hessian cloth to wrap the Tree-11 (*Dracaena marginata* 馬尾鐵) on 3rd June 2013. After completion of the captioned service, the tree has been found to keep a reasonable distance from the nearby buildings. A set of operational photos is attached for your reference and record.

I should be much grateful if you could endorse the attached Invoice (No.1030) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully,

Yan Wing (HK) Environment Management Ltd.

(WONG Pak Hay) Contract Manager



Operational Photos for Provision of Wrapping Service for Tree-11 <u>at Central Police Station Compound (J3416) on 3rd June 2013</u>



Fig. 1 The tree before provision of wrapping service.

Fig. 2 Skilled workers use hessian cloth to wrap the tree.





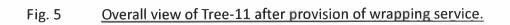


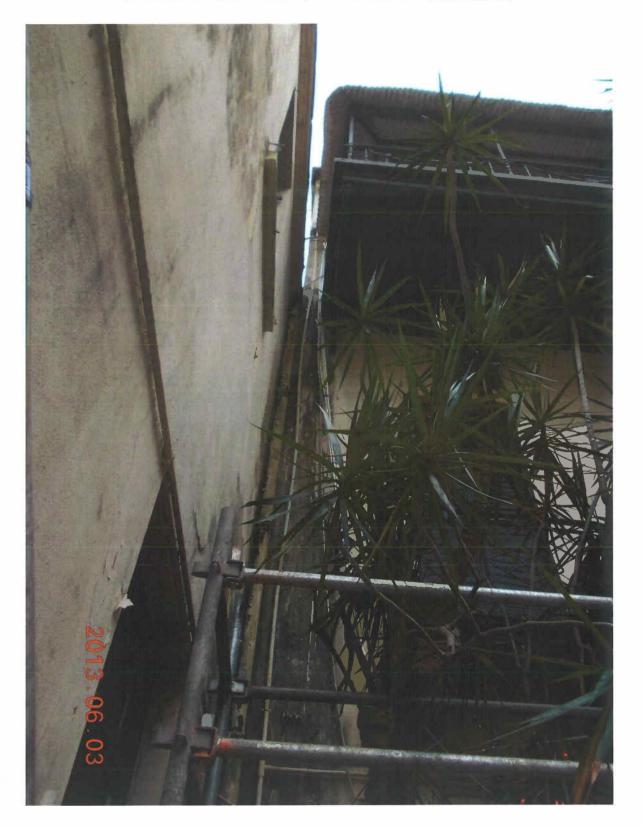


Fig. 4 Skilled worker uses a cable to link up the tree.











Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

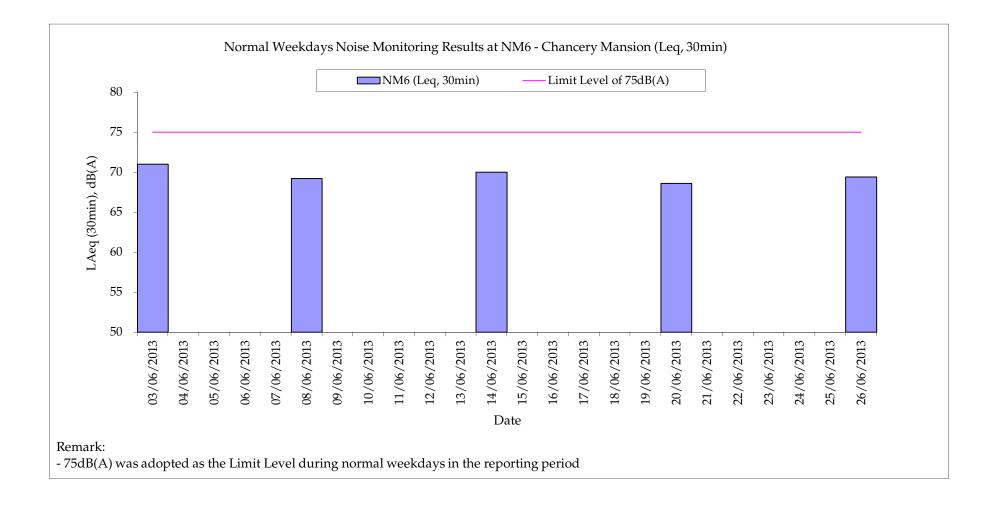
Daytime Noise Monitoring Results

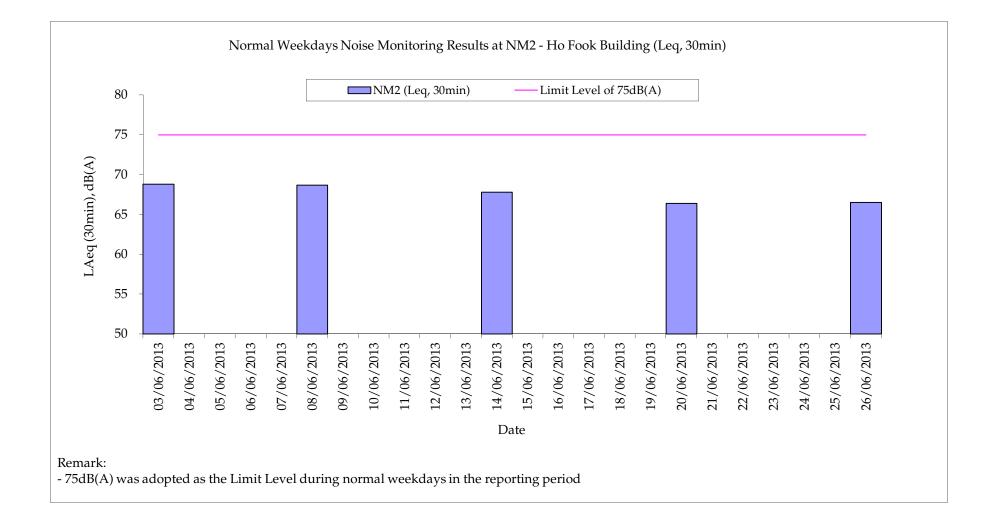
NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90		Observed		(,0)		
03-Jun-13	14:18	14:48	Sunny	71.0	72.2	69.6	Crawler crane (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
08-Jun-13	10:25	10:55	Sunny	69.2	70.7	67.6	Crawler crane, piling (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
14-Jun-13	9:50	10:20	Cloudy	70.0	71.3	68.2	Crawler crane, piling, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
20-Jun-13	10:20	10:50	Sunny	68.6	70.0	67.4	Crawler crane, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
26-Jun-13	15:00	15:30	Sunny	69.4	70.5	67.9	Crawler crane, welding, compressor (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	68.6								
Max. 71.0				71.0								

NM2 Ho Fook Building

Date				Noise level (dB(A)), 30 min			Major Construction Noise	Other Noise		Wind Speed	Noise Meter	Calibrator
	Start Time	End Time	Weather	Leq	L10	L90	Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
03-Jun-13	15:00	15:30	Sunny	68.8	70.5	66.2	Crawler crane (within the project site)	Traffic noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
08-Jun-13	9:45	10:15	Sunny	68.7	70.3	66.5	Crawler crane, piling (within the project site)	Traffic Noise	-	0.2	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
14-Jun-13	10:30	11:00	Cloudy	67.8	69.3	65.3	Crawler crane, piling (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
20-Jun-13	9:40	10:10	Sunny	66.4	67.8	63.2	-	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
26-Jun-13	13:00	13:30	Sunny	66.5	68.1	64.8	Crawler crane, welding (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10786708)
			Min.	66.4		•						
			Max.	68.8								





Annex I

Construction Programme for the Project

Activity ID	Activity Description	Duration in Days	I.I.I.I.A.SIOND.I.F.M.A.M.I.I.A.SIOND.I.F.M.A.M.I.I.A.SIOND.I.F.M.A.M.I.I.A.SIOND.I.F.M.A.M.I.I.A.SIOND.I.F.M.A.M.I.I.A.SIOND.I.F.M.A.M.I.I.A.	
GENERA		III Days		Marina marina Marina marina
S110	PRECONSTRUCTION WORKS	592		
	BUILDINGS	002		
160010	BLOCK 16 WORKSHOP & LAUNDRY (DEMOLITION WORKS)	198		
180010	BLOCK 18/14 ANNEX/BLDG F/G/H/ (DEMOLITION WORKS)	149	BLOCK 18/14 ANNEX/BLOG F/G/H/ (DEMOLITION WORKS)	
080010	BLOCK 08 ABLUTIONS BLOCK	731		
170005	BLOCK 17 F HALL	593		
010005	BLOCK 01 POLICE HEADQUARTERS BLOCK	626		
140005	BLOCK 14 D HALL	645		
120010	BLOCK 12 B HALL	341		
110010	BLOCK 11 A HALL	311		
100010	BLOCK 10 SUPERINTENDENT'S HOUSE	517		
130010	BLOCK 13 C HALL	517	Т ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
060005	BLOCK 06 MARRIED SERGEANTS' QUARTERS	223	BLOCK 06 MARRIED SERGEANTS QUARTERS	
070005	BLOCK 07 SINGLE INSPECTORS' QUARTERS	225		
030005	BLOCK 03 BARRACK BLOCK	440		
020005	BLOCK 02 ARMOURY	425		
090005	BLOCK 09 CENTRAL MAGISTRACY	425		
150010	BLOCK 15 E HALL	304		
040005	BLOCK 04 MARRIED INSPECTORS' QUARTERS	349		
190005	BLOCK 19 BAUHINIA HOUSE	277		
050002	BLOCK 05 (DEMOLITION WORKS)	119		
OTHER V	VORKS			
253110	REVETMENT WALL / U/G UTILITIES / ROAD WORKS	679		DWORK
NEW BUI	LDINGS	-		
S200	OBW OLD BAILEY WING	1,097		
S300	AW ARBUTHNOT WING	1,056		
BASEME	NT PLANTROOM AND SERVICES TRENCH			
	BASEMENT PLANTROOM / SERVICES TRENCH	588	BASEMENT, PLANTROOM!/ SERVICES TRENCH	
NEW FOO	OTBRIDGE			
2300125	PROPOSED FOOTBRIDGE	699		
	Т76М		Sheet 1 of 1 GCL / P / J3416 /SUM/CP01 Date Prevision Checkert	



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

GCL / P / J3416 /SUM/CP01									
Date	Revision	Checked	Approved						
13NOV12	for EPD								
04MAR13	revised								

Annex J

Tree Inspection Reports



Yan Wing (Hong Kong) Environment Management Limited

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

.

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 <u>E-mail: yanwinghk@netvigator.com</u>

1st July 2013 Our Ref. : YW/TP/GAMMON/2013**/**6/1

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

Dear Sirs,

Summary of Monthly Inspection Report for the Six Existing Trees <u>at Central Police Station Compound for June 2013</u> (Contract Ref. : J3416/400.4/D00025)

Tree	Botanical	Date of	Overall Health Condition	
No.	Name	Inspection	Good/Fair/Poor	Remarks
Tree-5	Mangifera indica 芒果	3 rd June 2013	Good	 To pay utmost attention to the land pollution at the worker store-room at all times. To keep the planter always clean and tidy.
Tree-6	Aleurites moluccana 石栗	3 rd June 2013	Fair	N.F.A.
Tree-7	Aleurites moluccana 石栗	3 rd June 2013	Fair	N.F.A.
Tree-8	<i>Plumeria rubra</i> 紅雞蛋花	3 rd June 2013	Fair	N.F.A.
Tree-9	Araucaria cunninghamia 花旗杉	3 rd June 2013	Fair	1. Monitoring on sap flow will continue next month.
Tree-11	<i>Dracaena marginata</i> 馬尾鐵		Fair	N.F.A.





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.1029) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

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

> (WONG Pak Hay) Contract Manager



2

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

General Information 基2	本資料							
		Constructio		me of Tree Inspec				
File Ref. 檔案編號: YW Date of Inspection 巡查日期		MMON/2013 une 3, 2013	3/6/2 Na	me of Endorseme	ent Off	ficer 覆核	人員姓名: WONG Pak Hay	
Project/Contract No.合約/コ			16/400.4/D00025					
Location Information 位置								
		tion Compo	und.	Nearby Utility Po	ost No.	就近公用	設施編號:	
Location Types 地點類別:		Roadside	路旁		E	Community I	fall / Centre 社區會堂 / 中心	
Address :		X Open sp	bace 空地			Roadside Pl	anter 路旁花圃	
(multiple answers allowed) 可選多於一項			n Centre 展覽中心				pavilion 避雨亭 / 涼亭	
			nt 觀景台	Sitting out area 休憩處				
		_	nature trail 行山徑 / 自					
			lease specify)其他 (請說	明:				
General Tree Information	-				T		ppropriate 請把不合適的刪除	
Main tree species in the group or minority tree species of	Approx of trees	in the	Range of tree height (m)	Overall health condition	Ove	rall ctural	Other remarks (Any special tree condition, e.g. dying/dead,	
significant size		t species or	該樹種高度範圍	整體健康狀況		dition	pest/disease problem and structural	
在群組內的主要樹種或樹幹	as a % o	of tree		(good, fair,		體結構狀況	defects; and soil condition	
胸徑或高度或樹冠範圍較大 的樹種	group 該結話	在群組內		│ <i>poor</i> │ 好,良, 差)	1	od, fair, ,好,良,	其他評語 (樹木狀况例如:凋謝/枯樹/病蟲害	
(Note 2)		比/數目*			差)	XI IK	或結構問題;及泥土狀况)	
			(1. To pay utmost attention to the land	
Manailana indiaa 苹田	170/	1 No	1(M	COOD	GO	on	pollution at the worker store-room.	
Mangifera indica 芒果	17%,	1 190.	16M	GOOD		UD	2. To keep the planter always clean	
Aleurites moluccana	-						and tidy	
石栗	32%	2 Nos.	10-13M	FAIR FAIR		R	N.F.A.	
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		R	Monitoring on the sap flow will continue next month.	
Dracaena marginata 馬尾鐵	17%	1 No.	8M	FAIR	FAI	R	N.F.A.	
Target 目標	l			1	*	1. 9.5. (494)		
TARGET (people or property	potential	lv affected by	tree/branch failure)		न्द्र तरं क	斷刻而受影	響的人或財產)	
Does target exist? 目標是否			□ No 否		-> < >> < >>			
Can target be moved?能否移			是 x No 否					
Can the use of site be restric			的使用? X Yes 别	ẻ │ No 否				
Frequency of use of location	1 使用該	地點的頻密和	望度:					
Occasional use 偶爾使用	I 🗌 Inte	ermittent us	e 間歇使用 X Fr	equent use 經常使	ī用	Constar	nt use 恆常使用	
Identification of Trees for	r Remed	dial Action	or Detailed Tree	e Risk Assessm	ent			
識別下述樹木,以便採取風險約	爱减措施可	或進行詳細構	樹木風險評估					
Trees falling under the foll	-					Number of trees	Remedial action or detailed tree risk assessment	
樹木屬於以下任何一項或多於	《一項類別	l(]				樹木數量	緩減措施或進行詳細樹木風險評估	
(1) Trees on comp	laint list	with structu	ral or health problem	ms		NII		
投訴個案中,結								
			with brittle wood		ving	NII		
-			conditions with failu	-				
			则塌風險的樹木 (Note	- 1)				
(3) Tree with majo		-				NII		
有明顯缺陷或像				luna natantial		NII		
(4) Trees growing生長於非常擠壓	-		conditions with fail 时时本(Note 1)	lure potential		1911		
gnature of Tree Inspection Offic								
			Mr Col				SUBOLINE MANY	
Signature of Endorsement Offic	er:		X					
Name of Contractor		Yan W	/ing (HK)/Enviror	ment Managem	nent L	.td.	A A A A A A A A A A A A A A A A A A A	
Date:		1-7-20	013				WITH NAY &	
							g Form 2) should be carried out.	
			新裂的潛在血氣,應爲該樹) e Risk Assessment and Manag					

備註 2: 請參閱樹木管理辨事處的樹木風險評估安排及管理指引(第4.3節)

I. TREE NUMBER: Tree-5 Mangifera indica 芒果

II. BASIC INFORMATION :

Height (m)	16m	Crown spread (m)	18m
DBH (mm) 1000mm		Overall Health Condition	Good
		Good/Fair/Poor	
Date of Inspection	3 rd June 2013	Last Inspection Date	14 th May 2013

III. COMMENTS :

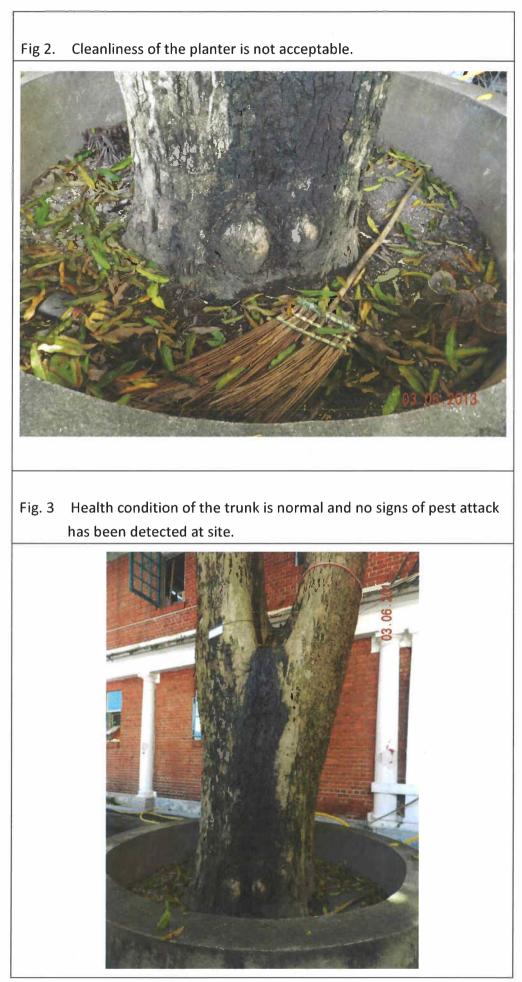
- 1. Overall health condition of the tree is good.
- 2. Cleanliness of the planter is not acceptable.
- 3. The site outside the cordon zone appears clean and tidy.
- 4. Health condition of the trunk is normal and no signs of pest attack has been detected.
- 5. Part of cordon zone has been altered to a worker store-room.

IV. RECOMMENDATIONS :

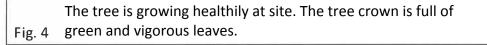
- 1. To pay utmost attention to the land pollution at the worker store-room at all times.
- 2. The planter should always be kept clean and tidy.











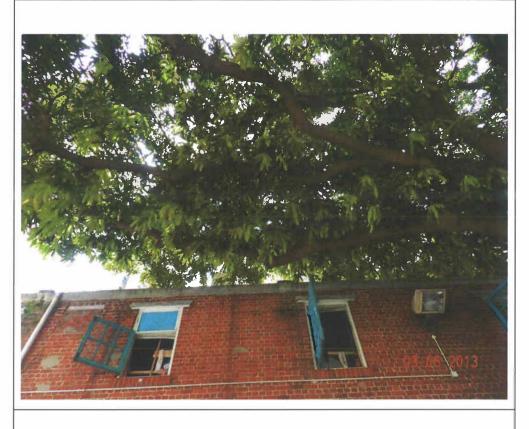
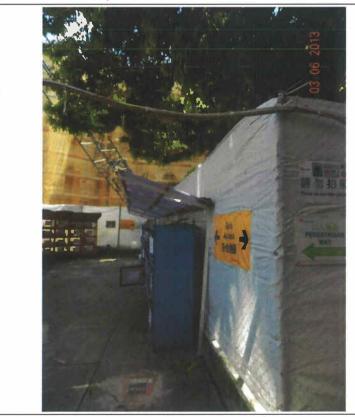
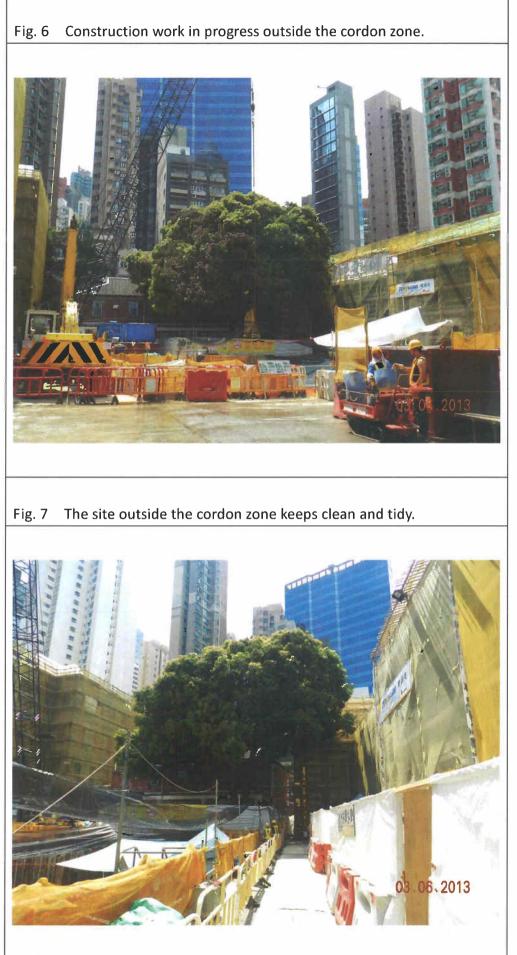


Fig. 5 Part of cordon zone has been altered to a worker store-room. Utmost attention to land pollution e.g. pouring of chemical liquid etc. should be paid at all times.











Overall view of Tree-5 during inspection on 3rd June 2013. Fig. 8

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. 30th June 2018.



I. TREEE NUMBER: Tree-6 Aleurites moluccana 石栗

II. BASIC INFORMATION :

Height (m)	10m	Crown spread (m)	10m
DBH (mm)	510mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 rd June 2013	Last Inspection Date	14 th May 2013

III. COMMENTS :

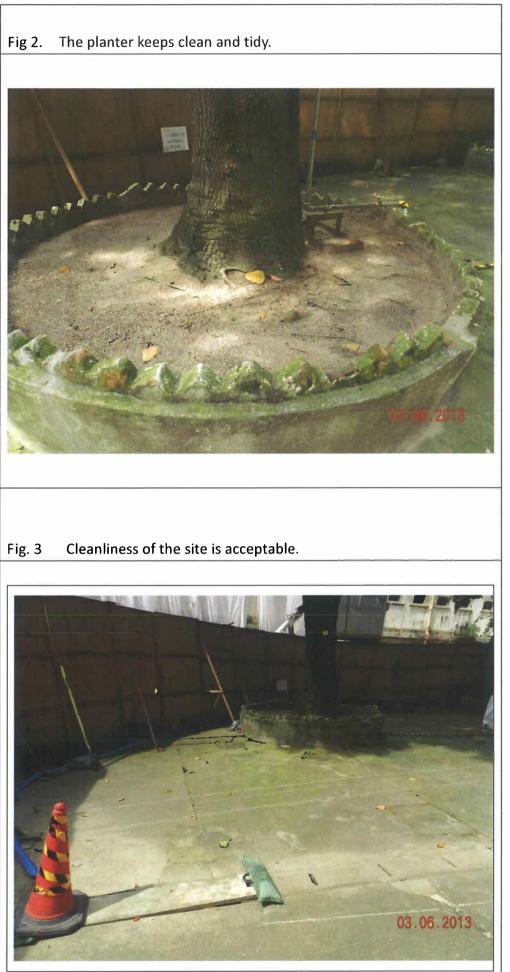
- 1. Overall health condition of the tree is fair.
- 2. The planter keeps clean and tidy.
- 3. Cleanliness of the site is acceptable.
- 4. Construction work in progress outside the cordon zone.
- 5. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS :

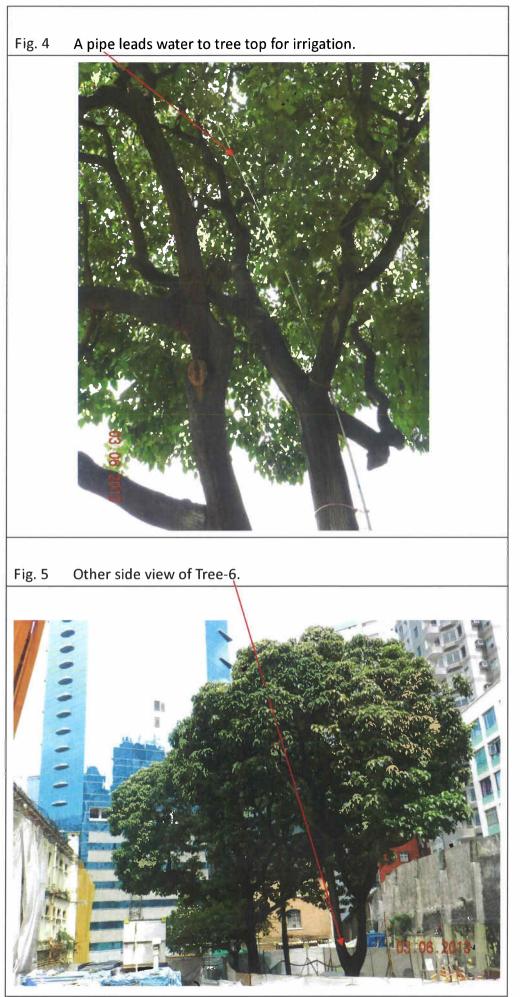
1. No further action is required.



















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. 30th June 2013



I. TREEE NUMBER: Tree-7 Aleurites moluccana 石栗

II. BASIC INFORMATION :

Height (m) 13m		Crown spread (m)	12m
DBH (mm) 650mm		Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 rd June 2013	Last Inspection Date	14 th May 2013

III. COMMENTS :

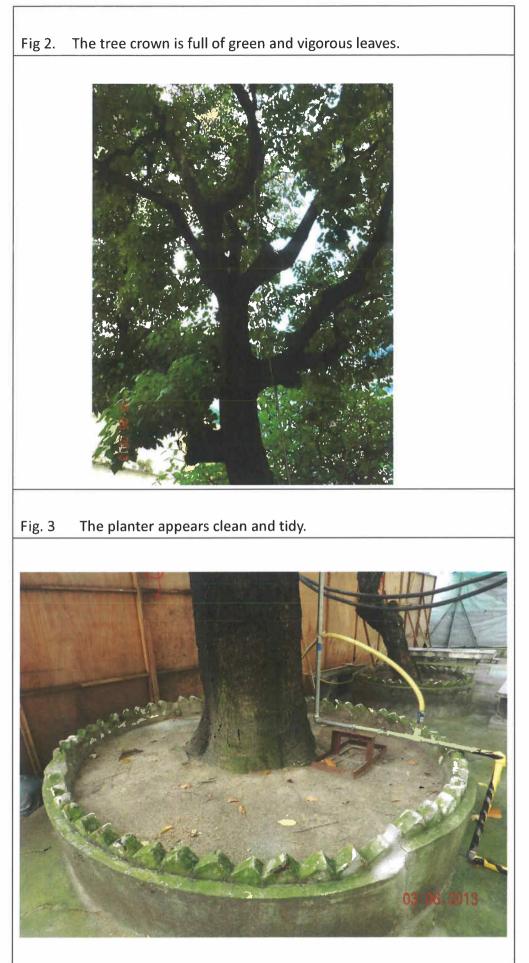
- 1. Overall health condition of the tree is fair.
- 2. The planter appears clean and tidy.
- 3. The site is clean and tidy.
- 4. The tree crown is full of green and vigorous leaves.
- 5. Construction work in progress outside the cordon zone.

IV. RECOMMENDATIONS :

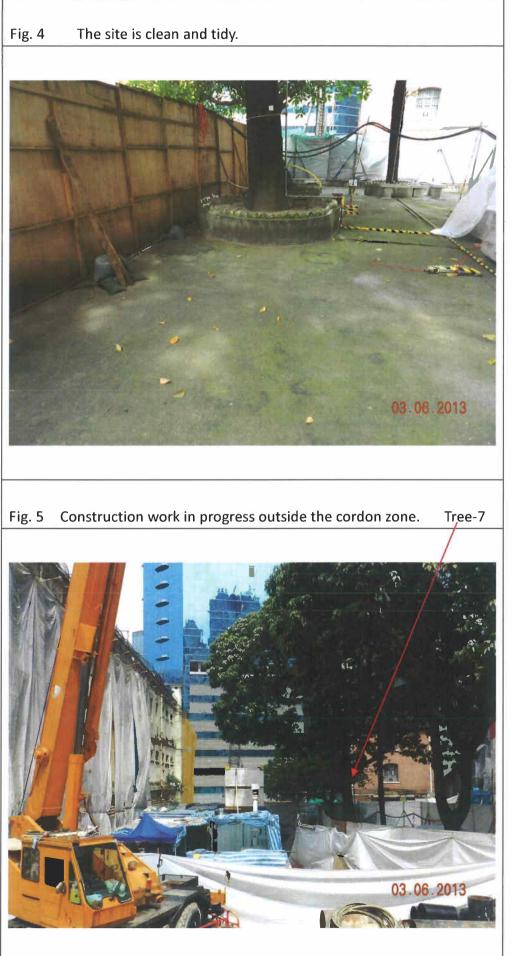
1. No further action is required.

Fig 1. Tree number	
THE DIANE	
Tree - 7	
Aleurites moluccana 石栗	R
Maintained by :	
欣榮(香港)環境管理有限公司	
Tel. 9776 1987	No.
	03.06 2013
Statement of the second statement of the second statement of the second statement of the second statement of the	COLUMN I

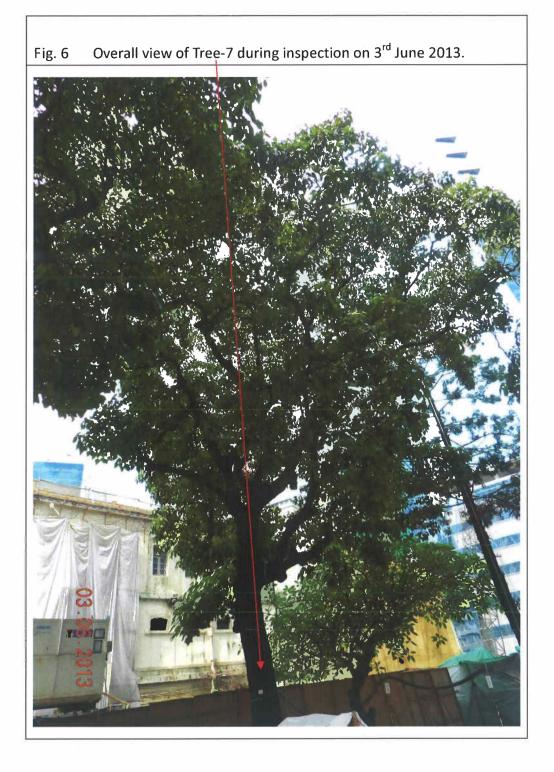












Signature of Inspection Officer : (Mr. Lau Man-chung, ISA CA–HK0045A) Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager)

Name of Contractor :

Yan Wing (HK) Environment Management Ltd. 30th June 2013



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

II. BASIC INFORMATION :

Height (m)	leight (m) 7m Cl		9m
DBH (mm)	430mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 rd June 2013	Last Inspection Date	14 th May 2013

III. COMMENTS :

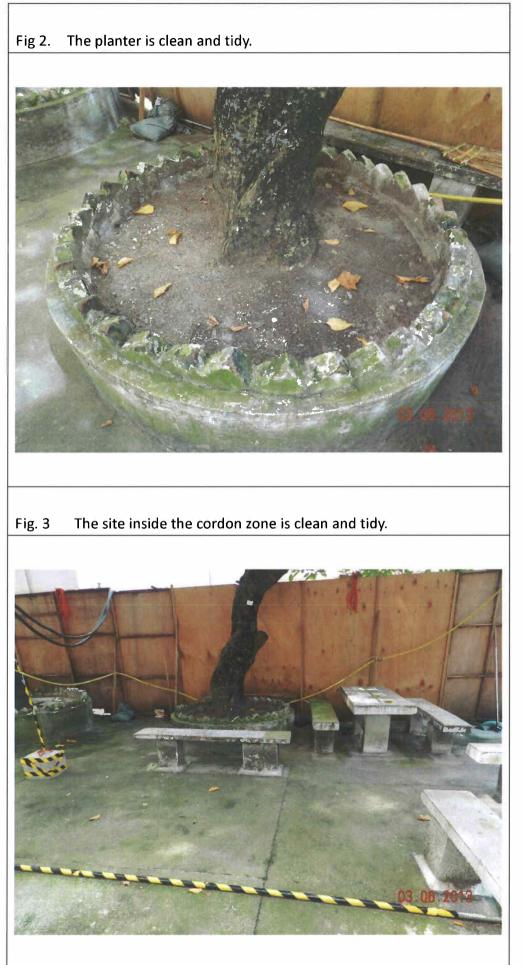
- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. The site inside the cordon zone is clean and tidy.
- 4. Red flowers appear on the tree.
- 5. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS :

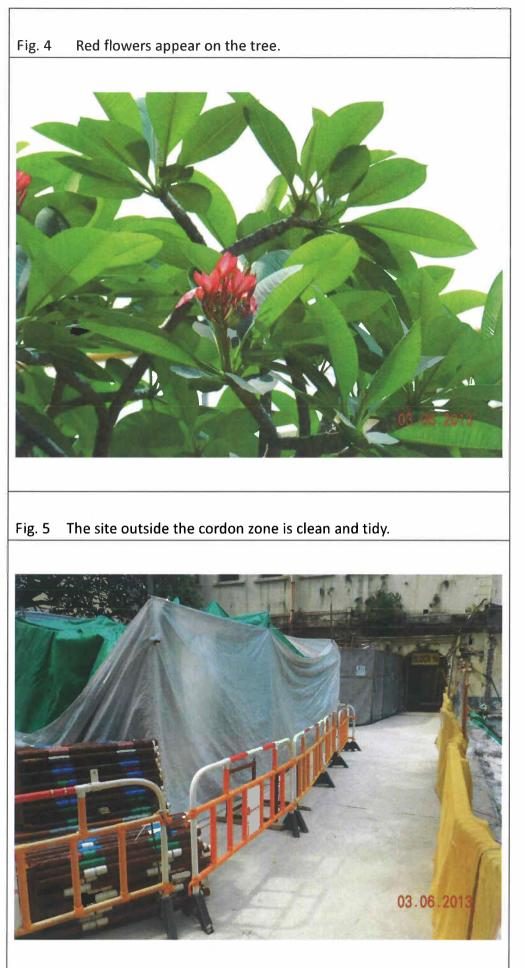
1. No further action is required.



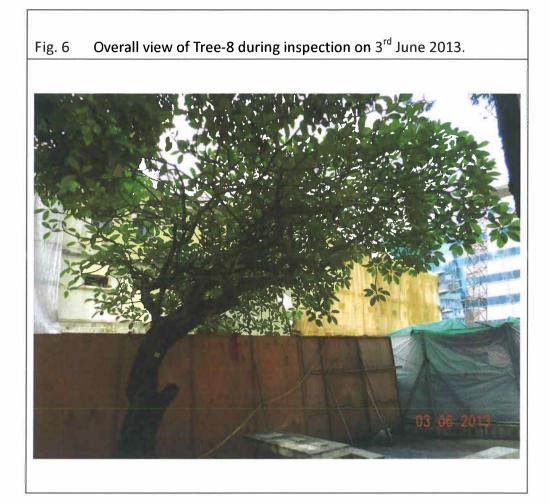












Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA–HK0050A) Signature of Endorsement Officer : (Mr. WONG Pak-hay, Contract Manager) Yan Wing (HK) Environment Management Ltd. Name of Contractor : Dated this : 30th June 2013

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

II. BASIC INFORMATION :

Height (m)	13m	Crown spread (m)	5m
DBH (mm) 230mm		Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 rd June 2013	Last Inspection Date	14 th May 2013

III. COMMENTS :

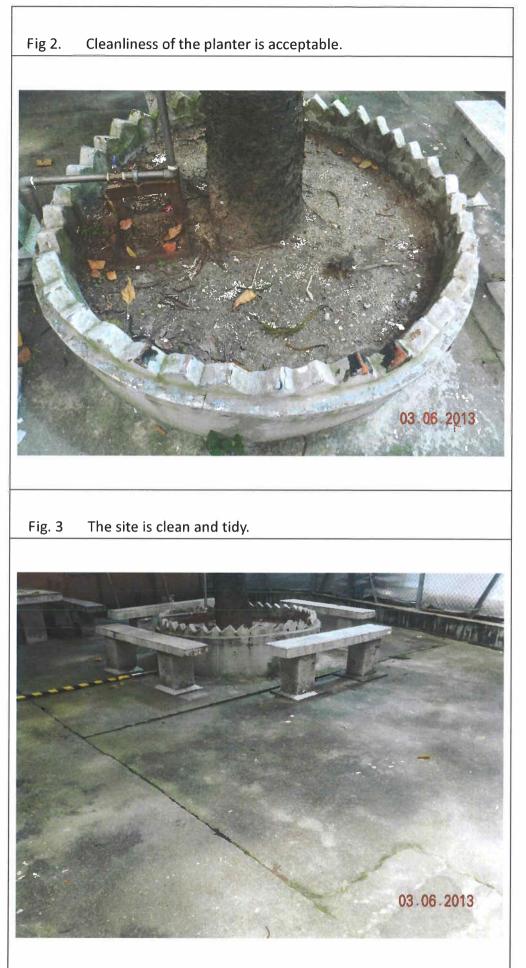
- 1. Overall health condition of the tree is fair.
- 2. Cleanliness the planter is acceptable.
- 3. The site inside the cordon zone is clean and tidy.
- 4. Less sap flow still appears on the mid trunk at the time of inspection.
- 5. Many vigorous branches are growing up on the tree.

IV. RECOMMENDATIONS :

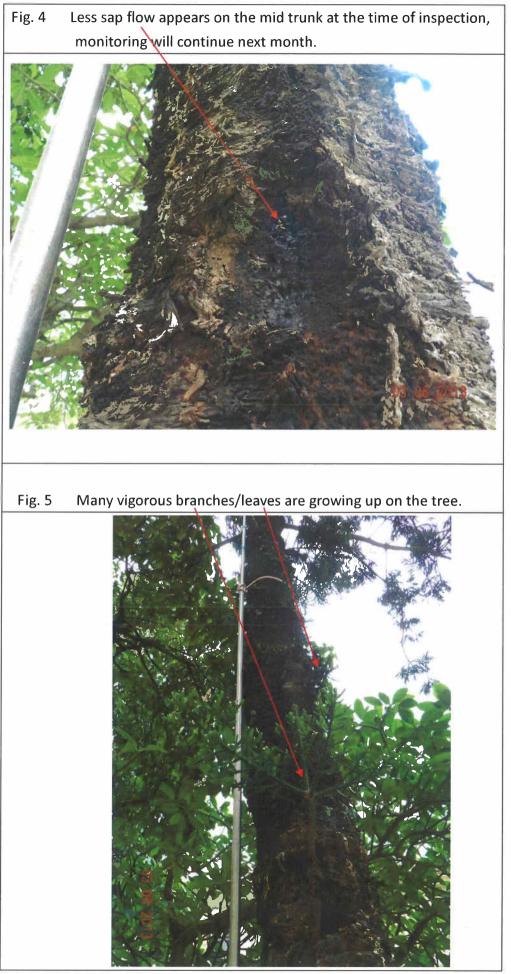
1. Monitoring on the sap flow will continue next month.



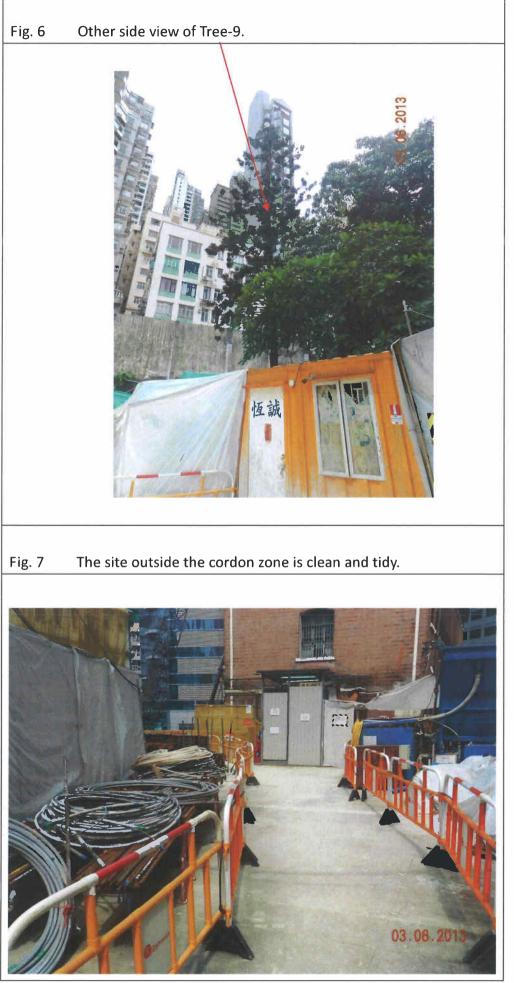
















Signature of Inspection Officer : (Mr. LAU Man-chung, ISA CA–HK0050A)

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

Name of Contractor :

Yan Wing (HK) Environment Management Ltd 30th June 2013



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

II. BASIC INFORMATION :

Height (m)	8m	Crown spread (m)	2m
DBH (mm) 170mm		Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	3 rd June 2013	Last Inspection Date	14 th May 2013

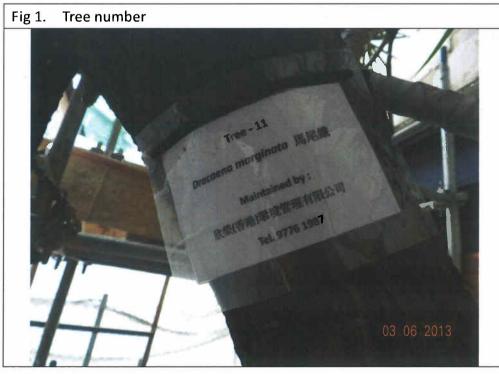
III. COMMENTS :

4

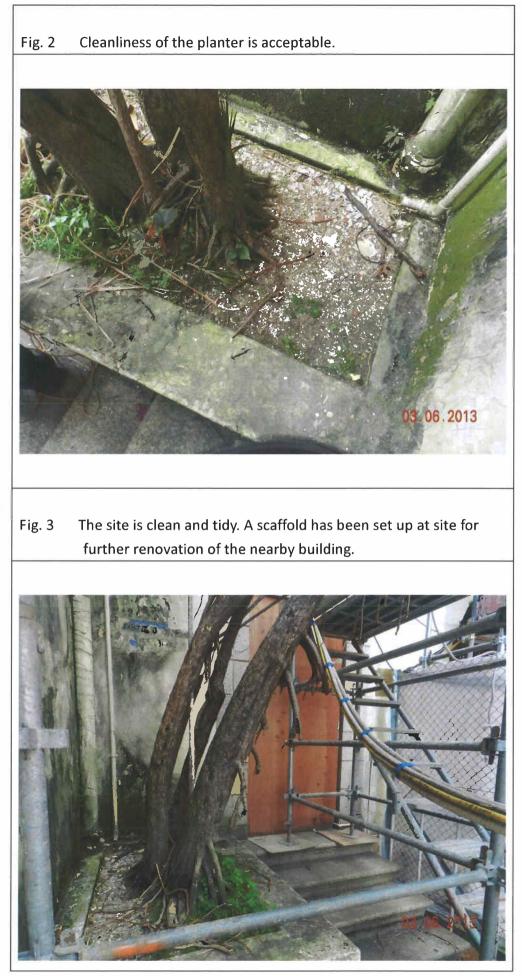
- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable.
- 3. A scaffold has been set up at site for renovation of the nearby building.
- 4. Skilled workers use hessian cloth to wrap the tree and let the tree keep a good distance from the nearby building.
- 5. The site outside the cordon zone is clean and tidy.

IV. RECOMMENDATIONS :

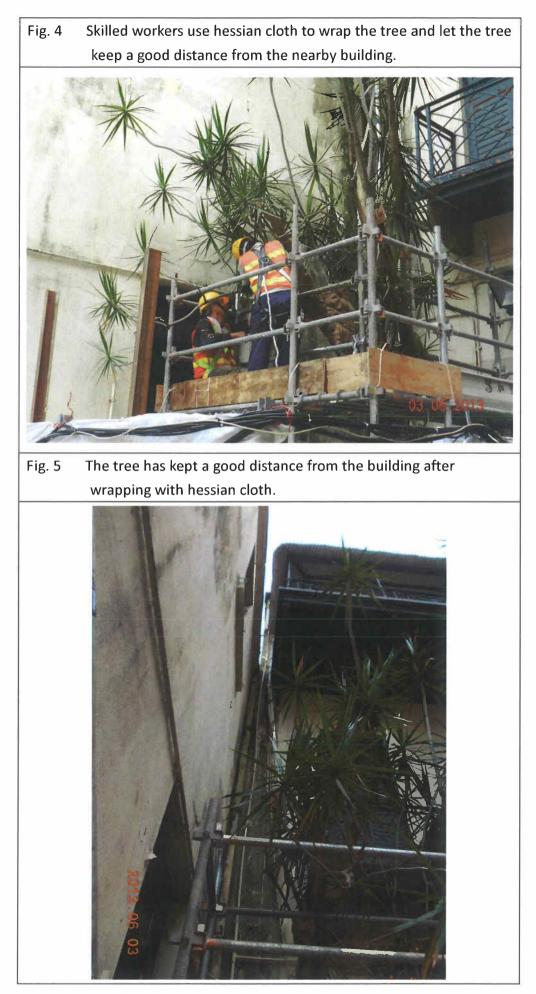
1. No further action is required.















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. 30th June 2013



Annex K

Environmental Complaint, Environmental Summon and Prosecution Log

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

Annex K Cumulative Complaint and Summons/Prosecutions Log

ENVIRONMENTAL RESOURCES MANAGEMENT

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
Overall Total	11	0

Annex L

Records of Vibration Monitoring for Trial Piling and Pipe/Bored Piling works



					Manit	Charl De		Trigger Levels	
	Gamm	on			Monitoring Check Pts.		Alert level	Alarm level	Action level
					Vibration	Vibration Monitoring		2.5mm/s	3mm/s
					# Vibration at	largest span of	5.0mm/s	6 Ommerica	7.5
					highest Str	uctural level	3.01111/8	6.0mm/s	7.5mm/s
				Vibration	Record				
Project Title: Cer	ntral Police Sta	ation Conserv	ation & Revi	talization	Project No:	WP107	31-May-2013	to	13-Jun-2013
(WP	107 Parade Gr	ound Baseme	nt)						
POINT	VM1-1	#VM1-2	VM2-1	VM3-1	#VM3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)								
31-May-13	0.175	0.218	0.087	0.704	0.851				
1-Jun-13	0.139	0.207	0.209	0.135	1.120				
2-Jun-13					Sunday				
3-Jun-13	0.151	0.341	0.087	0.764	0.284				
4-Jun-13	0.147	0.448	0.086	0.178	0.553				
5-Jun-13	0.102	0.093	0.091	1.190	0.111				
6-Jun-13	0.720	0.434	0.106	0.599	0.286				
7-Jun-13	0.291	0.458	0.087	0.484	0.631				
8-Jun-13	0.187	0.323	0.091	0.087	0.278				
9-Jun-13		1			Sunday				
10-Jun-13	0.206	0.216	0.091	0.091	0.319				
11-Jun-13	0.211	0.144	0.245	0.138	0.137				
12-Jun-13					Holiday				
13-Jun-13	0.125	0.487	0.083	1.060	0.163				

Prepared by : Wong Wing Yee

l Endorsed by: Yee Hop

								Trigger Levels	
	iamm	on			Monitoring	g Check Pts.	Alert level	Alarm level	Action level
					Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
					# Vibration at	largest span of	5.0 mm/s	6.0 mm/s	7.5mm/s
					highest Str	uctural level	5.01111/3	0.011111/3	7.5111173
				Vibration	Record				
Project Title: Cent	ral Police Sta	ation Conserva	ation & Revi	talization	Project No:	WP107	14-Jun-2013	to	27-Jun-2013
(WP1	07 Parade Gr	ound Baseme	nt)		-				
POINT	V M 1-1	#VM1-2	VM2-1	VM3-1	# ∇ M 3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
14-Jun-13	0.842	0.192	0.242	0.636	0.163				
15-Jun-13	0.966	0.139	0.169	0.497	0.117				
16-Jun-13					Sunday				
17-Jun-13	1.540	0.451	0.739	0.266	0.247				
18-Jun-13	0.883	0.209	0.087	0.323	0.416				
19-Jun-13	0.223	0.214	0.624	0.151	0.163				
20-Jun-13	0.194	0.162	0.150	0.293	0.402				
21-Jun-13	0.122	0.384	0.114	0.113	0.436				
22-Jun-13	0.203	0.143	0.119	0.705	0.630				
23-Jun-13		-			Sunday				
24-Jun-13	0.363	0.131	0.087	0.113	0.182				
25-Jun-13	0.470	0.160	0.203	0.094	0.579				
26-Jun-13	0.151	0.146	0.113	0.173	0.392				
20-Juli-13									

					Manitaria	a Chaola Dta		Trigger Levels	
	iamm	on			Wonitoring	g Check Pts.	Alert level	Alarm level	Action level
					Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
					# Vibration at	t largest span of	5.0 mm/s	6.0mm/s	7.5mm/s
					highest Str	ructural level	5.01111/5	0.011111/5	7.51111/5
				Vibration	Record				
Project Title: Cen	tral Police Sta	ation Conserva	ation & Revi	talization	Project No:	WP107	28-Jun-2013	to	11-Jul-2013
(WP1	107 Parade Gr	ound Baseme	nt)						
POINT	V M 1-1	#VM1-2	VM2-1	VM 3-1	# VM3-2				
DATE	mm/s	mm/s	mm/s	mm/s	mm/s				
19-Jun-2012 (Initial)									
28-Jun-13	0.156	0.561	0.087	0.403	1.650				
29-Jun-13	0.103	0.199	0.225	0.192	0.378				
30-Jun-13					Sunday				
1-Jul-13					Holiday				
2-Jul-13	0.150	0.175	0.398	0.502	0.308				
3-Jul-13	0.398	0.163	0.147	0.150	0.825				
4-Jul-13	0.228	0.450	0.209	0.974	0.178				
5-Jul-13	0.132	0.139	0.153	0.211	0.230				
6-Jul-13	0.183	0.185	0.434	0.310	0.104				
7-Jul-13					Sunday				
8-Jul-13	0.128	1.050	0.095	0.135	0.241				
9-Jul-13									
10-Jul-13									
11-Jul-13									1



Gia	/Pipe Pile Walls	3/3053/11 (BLK 17&56) (HW)(S)
UI MIC	HOUSE HOUSE	F.S.D. Ref. No. 消防虚检索编张
	CHO/	Revision/Submission 佳改哉/ 提出 No. 编辑 Description 说明 Date日期 Approved 審定
7//		- BD SUBMISSION 12/11 JS
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15	Shiu King Court	
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UH.	354	NG Kin shing Chief Structural Engineer
	+ · · · ·	for BUILDING AUTHORITY 2 0 FEB 2012
1 52	the last	
-115	W-B/R176	Key Plan 索引圖
-41		Store to
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11	Martin Contraction	BD SUBMISSION
	AV 5	Drawing Status 製圖狀況 - This drawing and the contents herein are the copyright
1 /3)	KWAN KIN KEI CEng FISmeels MICE EDER ABOISTENED STRUCCHAL ENOR	of relevant consultants. 本關紙及其內省的成星屬有關範間公司所有。 - No part of the drawing and the design contained herein
11	REGISTERED STRUCT RAL ENGRAPHICA	may be reproduced without the prior written consent of relevant concultance. 未经有關請問公司書面同意。不得複製此圖紙內任何
		內容或設計。 - Do not take measurements directly from this drawing 切勿直接從圓底上量度尺寸。
0-100	EXISTING FRESH WATER MAIN	 Check and verify all dimensions or 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
©	EXISTING SALT WATER MAIN	and all other related drawings. 此圈話必须與現格說明書及其它有關圈紙一併閱讀。 - Notify the relevant consultants immediately of any
- LAIST	EXISTING STREET LIGHTING CAELE	discrepancy found herein. 如發現內容有任何謬誤之處。應立刻通知有讚願問公司。
ê) 150	EXISTING GAS WAIN	Client 菜主 賽馬會文物保有有限公司
- 1330	EXISTING HV ELECTRICITY CABLE	The Jockey Club CPS Limited
1.9	EXISTING LV ELECTRICITY CABLE	
HZ -	(HUTCHISON GLOBAL COMMUNICATIONS	Conservation Architect
C	LIMITED) EXISTING STORNWATER DRAIN	Executive Architect / AP
150	EXISTING FOUL SEWER	ROCCO
15]	PROPOSED FOUL SEWER	Structural Engineer / RSE E & M Engineer
	SITE BOUNDARY	ARUP ARUP
1.00	EXISTING RETAINING WALL	Project 項目 CENTRAL POLICE STATION
,P)	EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER	CONSERVATION AND REVITALISATION PROJECT
-1	PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER	Drawing Title III名 MONITORING LAYOUT PLAN
174-1	PROPOSED RETAINING WALL SETLEMENT POINTS/THEIMETER	
	PROPOSED INCLINOMETER TO BE BALLT IN	Scale HERM Drawn NUM Checked KER 1:3000A1 K.C.Loi AL
	BORED PILE OR FIPE PILE WALL PROPOSED GROUND SETTLEMENT POINTS	Drawing No. 国弦 Revision 你说能 00-0AP209674-G-001 -
	PROPOSED UTILITY WONITORING POINTS	
Û.	PROPOSED VIBRATION MONITORING POINTS	
(S/P)		
1.11	PROPOSED ADDITIONAL DRILLHOLE	

WW 恆

							(Bore	d Pile Walls / Pipe	Pile Walls at B	lock 50)
10/10						Manitarina	Chaols Dta		Trigger Levels	
	桥	试建筑-	L程有限	八司		Monitoring	; Check Pts.	Alert level	Alarm level	Action level
	L TVE	败生未_	山王日的	山山		Vibration Monitoring		2mm/s	2.5mm/s	3mm/s
Win W	in Way	Construct	tion Compa	ny Ltd.		1	argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
					Vibration	Record				
Project Title:	Central	Police Station	Conservation	& Revitalization	on	Project No: W	/P201	19-May-2013	to	1-Jun-2013
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
19-May-2013						Sunday				
20-May-2013		0.23	0.13	0.55	0.19	0.56	0.34	0.55	0.11	0.27
21-May-2013		0.61	0.25	0.33	0.18	0.46	0.95	0.14	0.11	0.57
22-May-2013		0.35	0.13	0.55	0.14	0.19	0.62	0.13	0.11	0.28
23-May-2013		0.36	0.22	0.29	0.11	0.54	0.85	0.46	0.26	0.13
24-May-2013		0.23	0.28	0.45	0.41	0.11	0.86	0.28	0.13	0.27
25-May-2013		0.56	0.55	0.11	0.42	0.64	0.71	0.25	0.33	0.11
26-May-2013						Sunday				
27-May-2013		0.61	0.23	0.15	0.11	0.25	0.45	0.16	0.88	0.45
28-May-2013		0.25	0.56	0.74	0.13	0.12	0.46	0.33	0.41	0.58
29-May-2013		0.13	0.29	0.99	0.45	0.26	0.35	0.33	0.11	0.45
30-May-2013		0.62	0.15	0.18	0.31	0.22	0.51	0.42	0.11	0.25
31-May-2013		0.52	0.11	0.26	0.22	0.42	0.33	0.13	0.33	0.26
1-Jun-2013		0.23	0.15	0.42	0.17	0.53	0.16	0.62	0.25	0.63
Remark										

-Col Prepared by Lo wing yue (Surveyor)

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

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

 Trigger Levels

 Monitoring Check Pts.
 Alert level
 Alarm level
 Average

 Vibration Monitoring
 2mm/s
 2.5mm/s
 3mm/s

 Vibration at largest span of highest Structural level
 5.0mm/s
 6.0mm/s
 7.5mm/s

 Ibration Record
 2-Jun-2013
 to
 15-Jun-2013

 VM12-1
 VM12-2
 VM14-3
 VM17-1
 VM17-2
 VM17-3

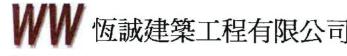
 mm/s
 mm/s
 mm/s
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 mm/s
 mm/s

Project Title:	Central P	olice Station	Conservation	& Revitalization	on	Project No: W	P201	2-Jun-2013	to	15-Jun-2013
POINT	ſ	VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date					27					
2-Jun-2013						Sunday				
3-Jun-2013		0.36	0.23	0.11	0.51	0.42	0.23	0.55	0.68	0.15
4-Jun-2013		0.23	0.13	0.53	0.62	0.11	0.45	0.82	0.21	0.13
5-Jun-2013		0.33	0.12	0.16	0.51	0.26	0.22	0.54	0.13	0.22
6-Jun-2013		0.36	0.23	0.15	0.14	0.55	0.82	0.46	0.25	0.11
7-Jun-2013		0.23	0.15	0.46	0.56	0.37	0.82	0.19	0.12	0.11
8-Jun-2013		0.62	0.15	0.44	0.31	0.15	0.18	0.82	0.54	0.33
9-Jun-2013						Sunday				
10-Jun-2013		0.23	0.11	0.14	0.85	0.24	0.55	0.16	0.27	0.33
11-Jun-2013		0.63	0.13	0.23	0.53	0.14	0.11	0.68	0.45	0.12
12-Jun-2013					Р	ublic Holiday				
13-Jun-2013		0.23	0.63	0.52	0.41	0.74	0.58	0.63	0.25	0.14
14-Jun-2013		0.25	0.44	0.62	0.53	0.15	0.55	0.95	0.48	0.86
15-Jun-2013		0.13	0.15	0.18	0.82	0.54	0.56	0.77	0.29	0.91

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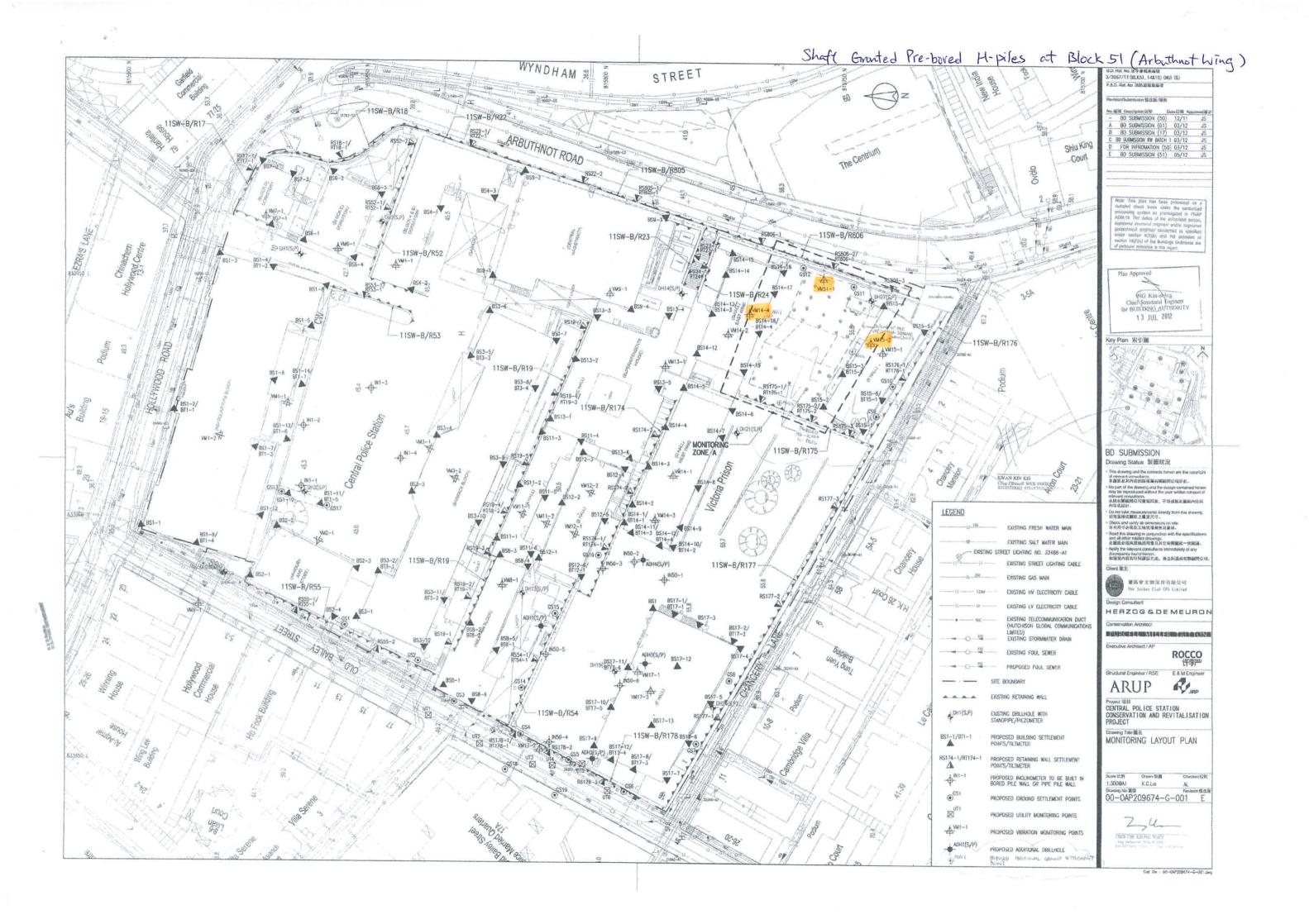
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(Bored Pile Walls / Pipe Pile Walls at Block 50)										
14/14						Monitoring	g Check Pts.		Trigger Levels	
	何情	就建筑	L程有限	公司		wioimorms	g Check Pls.	Alert level	Alarm level	Action level
	L TAT					Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s
Win Wi	in Way	Construct	tion Compa	ny Ltd.			argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s
				30	Vibration	Record				
Project Title:	Central I	Police Station	Conservation	& Revitalizatio	on	Project No: W	/P201	16-Jun-2013	to	29-Jun-2013
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012 (Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
Surveying Date										
16-Jun-2013						Sunday				
17-Jun-2013		0.32	0.12	0.15	0.14	0.56	0.66	0.32	0.25	0.88
18-Jun-2013		0.11	0.65	0.32	0.52	0.48	0.78	0.95	0.86	0.45
19-Jun-2013		0.33	0.65	0.15	0.42	0.28	0.71	0.92	0.55	0.62
20-Jun-2013		0.11	0.18	0.83	0.56	0.45	0.75	0.25	0.33	0.12
21-Jun-2013		0.11	0.18	0.23	0.56	0.45	0.85	0.77	0.56	0.25
22-Jun-2013		0.65	0.98	0.32	0.12	0.45	0.58	0.47	0.65	0.25
23-Jun-2013						Sunday				
24-Jun-2013		0.36	0.25	0.26	0.24	0.53	0.15	0.57	0.95	0.19
25-Jun-2013		0.63	0.25	0.41	0.47	0.85	0.69	0.25	0.45	0.21
26-Jun-2013		0.26	0.42	0.56	1.08	0.57	0.60	0.49	0.93	0.28
27-Jun-2013		0.49	0.65	0.37	0.27	0.48	0.95	0.24	0.50	0.50
28-Jun-2013		0.32	0.20	0.63	0.49	0.67	0.21	0.22	0.65	0.23
29-Jun-2013		0.19	0.22	0.31	0.51	0.21	0.41	0.70	0.20	0.65

N



							(Sha	ft Grouted Pre-bore	ed H-piles at B	lock 51)
WW	枢邦	建筑工	程有限公) লা		Monitoring	Check Dto		Trigger Levels	
	卫则	收 注 未上	任行队2	イロ		Monitoring Check Pts.		Alert level	Alarm level	Action level
Win Win	Way (onstanotio	n Company	T tol		Vibrating M	Ionitoring	2mm/s	2.5mm/s	3mm/s
ччні ччні	mayc		n Company		ration 1	Record				
Project Title:	Central	Police Station	n Conservation	& Revitalization	Proje	ct No: WP201		26-May-2013	to	8-Jun-2013
POINT		VM14-4	VM15-2	VM51-1						~
DATE	PD/(m)	mm/s	mm/s	mm/s				+		
03-Dec-2012	(Initial)	0.14	0.21	0.3						
26-May-2013				· · · · · · · · · · · · · · · · · · ·		Sunday				
27-May-2013		0.15	0.11	0.51						
28-May-2013		0.16	0.24	0.55						
29-May-2013		0.52	0.14	0.28						
30-May-2013		0.13	0.52	0.41						
31-May-2013		0.19	0.42	0.22						
1-Jun-2013		0.52	0.64	0.55						
2-Jun-2013						Sunday				
3-Jun-2013		0.55	0.11	0.26						
4-Jun-2013		0.26	0.69	0.22						
5-Jun-2013		0.11	0.48	0.42						
6-Jun-2013		0.18	0.11	0.13						
7-Jun-2013		0.13	0.55	0.61						
8-Jun-2013		0.15	0.25	0.54						
Remarks										

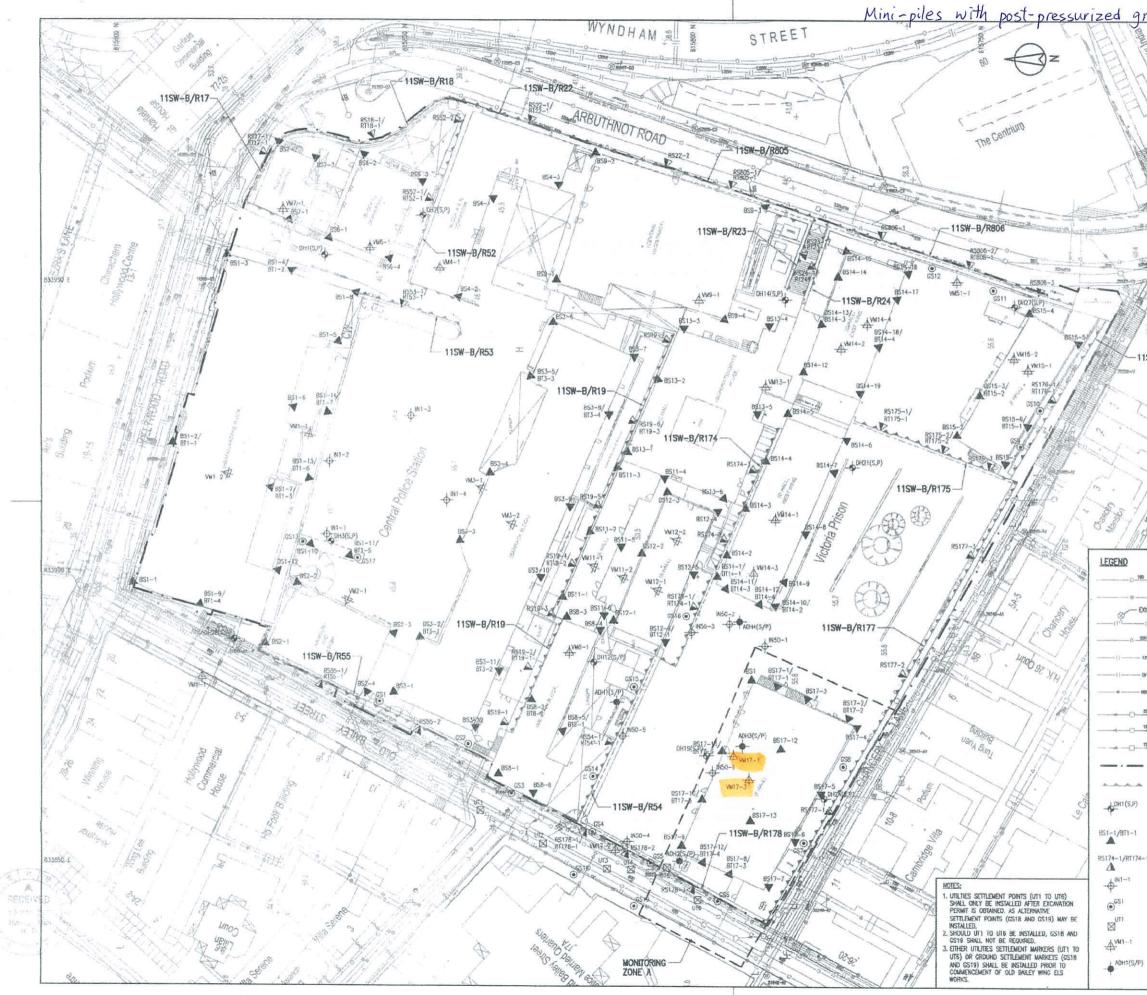
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							(Sha	ift Grouted Pre-bore	ed H-piles at B	lock 51)
	框封	油饼丁	程有限公	रज्ञ					Trigger Levels	
	也初	使采上	任月1132	スリ		Monitoring (Lheck Pts.	Alert level	Alarm level	Action level
						Vibrating M	onitoring	2mm/s	2.5mm/s	3mm/s
	l way (n Company		ration 1	Record				
Project Title	: Central	Police Station	Conservation	& Revitalization	Projec	et No: WP201		9-Jun-2013	to	22-Jun-2013
POIN	ſ	VM14-4	VM15-2	VM51-1						
DATE	PD/(m)	mm/s	mm/s	mm/s						
03-Dec-2012	(Initial)	0.14	0.21	0.3						
9-Jun-2013						Sunday				
10-Jun-2013		0.16	0.52	0.42						
11-Jun-2013		0.15	0.55	0.40						
12-Jun-2013										
13-Jun-2013		0.12	0.75	0.45						
14-Jun-2013		0.13	0.14	0.62						
15-Jun-2013		0.25	0.64	0.25						
16-Jun-2013						Sunday				
17-Jun-2013		0.19	0.66	0.42						
18-Jun-2013		0.11	0.24	0.58						
19-Jun-2013		0.25	0.55	0.14						
20-Jun-2013		0.31	0.25	0.65						
21-Jun-2013		0.15	0.28	0.45						
22-Jun-2013		0.25	0.47	0.58						
Remarks										

160

						(Sha	aft Grouted Pre-bor	ed H-piles at B	ock 51)
	5-17-14-45	和七四7月7	7 =1		1.1	1	1	Trigger Levels	
	誠建築工	.住有限2	ンリ		Monitoring Ch	eck Pts.	Alert level	Alarm level	Action level
					Vibrating Mor	uitoring	2mm/s	2.5mm/s	3mm/s
Win Win Wa	y Constructio	on Company		ration I	Record				
Project Title: Cer	tral Police Statio	n Conservation	& Revitalization	Projec	et No: WP201		23-Jun-2013	to	6-Jul-2013
POINT	VM14-4	VM15-2	VM51-1						
DATE PD/	(m) mm/s	mm/s	mm/s						-
03-Dec-2012 (Initia	0.14	0.21	0.3						-
23-Jun-2013	5	•	•		Sunday				
24-Jun-2013	0.13	0.56	0.62	5. ¹					
25-Jun-2013	0.12	0.26	0.65						9 27
26-Jun-2013	0.56	1.44	1.07		a				9
27-Jun-2013	1.53	0.15	0.19						
28-Jun-2013	0.22	0.61	0.22		- 				2
29-Jun-2013	0.19	0.23	0.18	23					0
30-Jun-2013	Cu	Çu	fa fa		Sunday		Jat -		~~
1-Jul-2013	÷	-	No. No.	Pu	blic Holiday				
2-Jul-2013	0.77	0.31	0.23						
3-Jul-2013	0.54	0.56	0.69	5.1					
4-Jul-2013	0.18	0.19	0.19		-				5
5-Jul-2013	0.63	0.19	0.17						
6-Jul-2013	0.29	0.16	0.23	5.1					
Remarks									

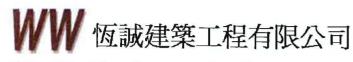


Mini-piles with post-pressurized grout in CDG and steel shear H-piles at Block 1, D SUBMISSION RD SUGMISSION B BD SUSMISSION Shou King Calif 10-1 Plas Approved NG Kun-shing Chief Structural Engineer for BCILLINNG ALTCHORITO 1 9 MAR 2012 lay Plan 索引導 11SW-B/R176 BD SUBMISSION wing Blatux 對顯狀況 ゼロlisist Lonsilion。 主義法以外の内容現象体的指面明白1 remains optionants. 未加有機解約合同實動指數,手導度緊迫機械 出來或加利 的mit Like meansaments 的导致转动器系上重要的 Check and while a4 dimensions on sa 所有尺寸必須加工地領導者參加單核. EXISTING FRESH WATER MAD and an other related scoreigh 素羅是心思與現俗說何喜及其它介張講師一座認識。 EXISTING SALT WATER MAIN STREET LIGHTING NO. 33488-A1 EXISTING TRUES & BORERARY DUSTING STREET LIGHTING CABLE Chent @ 1 EXISTING GAS MAIN 唐馬會文物從直有關公司 Jovan Carl US Listin XUSTING HV ELECTRICITY CASEE EXISTING LY ELECTRICITY CABLE HERZOG&DEMEURON EXISTING TELECOMMUNICATION DUCT (HUTCHISON G OBAL COMMUNICATIONS LIMITED) EXISTING STORMWATER DRAIN ROCCO 许纳严 EXISTING FOUL SEWER PROPOSED FOLL SEWER 三古鮮王的 R. JRP STIE BOUNDAR ARUP EXISTING RETAINING WALL Project 251 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER Drawing Title EA MONITORING LAYOUT PLAN PROPOSED BUILDING SETTLEMENT POINTS/TRUTMETER PROPOSED RETAINING WALL SETTLEMENT POINTS/TRUTMETER Chann 90 PROPOSED INCLINOMETER TO BE BUILT IN BORIED PILE WALL OR PIPE PILE WALL 1:300041 K.C.Lei 00-0AP209674-G-001 B PROPOSED GROUND SETTLEMENT POINTS PROPOSED UTILITY MONITORING POINTS PROPOSED VERATION MONITORING POINTS PROPOSED ADDITIONAL DRILLHOLE Cat Sis : 00-434P209674-G-601.dwg

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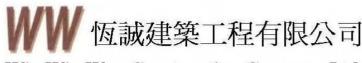
								(Block 17 Four	ndation Works)
14/14						Monitoring	Chaole Dto		Trigger Levels	
VVV	/ 恆	試建筑	L程有限	公司		Monitoring	Check Pts.	Alert level	Alarm level	Action level
100.000						Vibration N	Aonitoring	2mm/s	2.5mm/s	3mm/s
Win W	in Way	Construct	tion Compa	ny Ltd.		Vibration at la		5.0mm/s	6.0mm/s	7.5mm/s
			-	•		highest Stru	ctural level	5.01111/3	0.01111/3	7.51111/5
				Vibra	ation	Record				
Project Title:	Central	Police Station	Conservation	& Revitalization		Project No: W	P201	26-May-2013	to	8-Jun-2013
			1		2			T T		
POINT	·	VM17-1	VM17-3							
DATE	PD/(m)	mm/s	mm/s							
19-Jun-2012	(Initial)	0.13	0.37	100						
Surveying Date						105	¥			
26-May-2013				· · · · · · · · · · · · · · · · · · ·		Sunday				
27-May-2013		0.16	0.45							
28-May-2013		0.33	0.58							
29-May-2013		0.33	0.45							
30-May-2013		0.42	0.25							
31-May-2013		0.13	0.26							
1-Jun-2013		0.62	0.63							
2-Jun-2013						Sunday		-II		
3-Jun-2013		0.55	0.15							
4-Jun-2013		0.82	0.13							
5-Jun-2013		0.54	0.22							
6-Jun-2013		0.46	0.11							
7-Jun-2013		0.19	0.11							
8-Jun-2013		0.82	0.33							
D										

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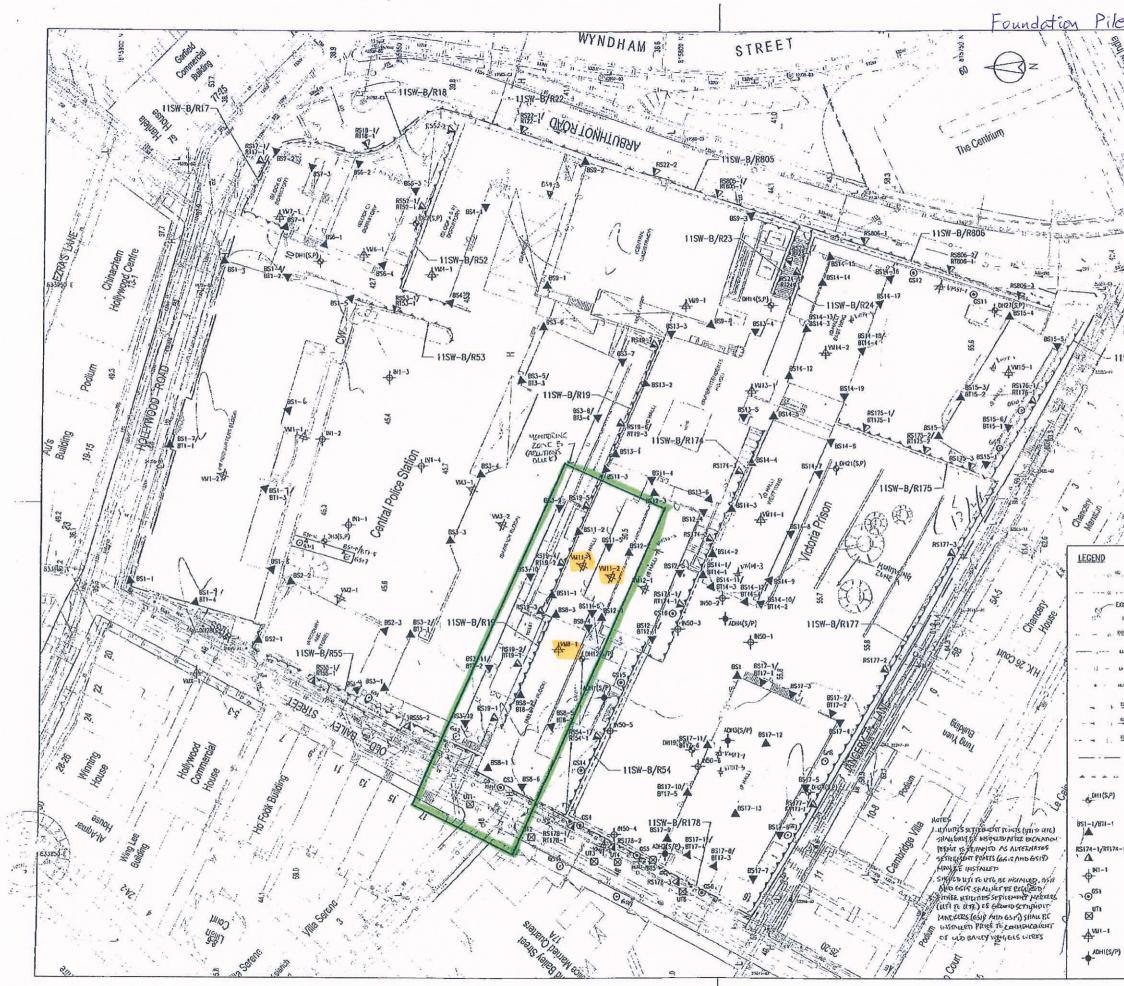
Win Win Way Con

								(Block 17 Foundation Works)				
14/14						Monitorin	g Check Pts.		Trigger Levels			
	/ 恆	试建 築 ⁻	L程有限	[公司			g Check Fis.	Alert level	Alarm level	Action lesel		
						Vibration	Monitoring	2mm/s	2.5mm/s	3mm/s		
Win W	in Way	Construct	tion Compa	ny Ltd.			argest span of uctural level	5.0mm/s	6.0mm/s	7.5mm/s		
				Vibra	ation	Record						
Project Title:	Central I	Police Station	Conservation	& Revitalization		Project No: W	/P201	9-Jun-2013	to	22-Jun-2013		
POINT		VM17-1	VM17-3									
DATE	PD/(m)	mm/s	mm/s									
19-Jun-2012 ((Initial)	0.13	0.37									
Surveying Date												
9-Jun-2013						Sunday						
10-Jun-2013		0.16	0.33									
11-Jun-2013		0.68	0.12									
12-Jun-2013						Public Holiday						
13-Jun-2013		0.63	0.14									
14-Jun-2013		0.95	0.86									
15-Jun-2013		0.77	0.91									
16-Jun-2013						Sunday						
17-Jun-2013		0.32	0.88									
18-Jun-2013		0.95	0.45									
19-Jun-2013		0.92	0.62									
20-Jun-2013		0.25	0.12									
21-Jun-2013		0.77	0.25									
22-Jun-2013		0.47	0.25									
Remark												



			1975	(Discient roal	radion viono	,
10/10/			Monitoring Check Pts.		Trigger Levels	
₩₩ 恆誠建築	[丁积右阻/	「一方」	Womtoning Check Pis.	Alert level	Alarm level	Action level
山吹生未	:二/王/日/仪/	A ⊢]	Vibration Monitoring	2mm/s	2.5mm/s	3mm/s
Win Win Way Constru	iction Company	z Ltd.	Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s
		Vibration	Record			
Project Title: Central Police Stat	ion Conservation &	Revitalization	Project No: WP201	23-Jun-2013	to	6-Jul-2013
POINT VM17-1	VM17-3					
DATE PD/(m) mm/s	mm/s	р. 	, , , , , , , , , , , , , , , , , , , ,		Å.	
19-Jun-2012 (Initial) 0.13	0.37					
Surveying Date					·	
23-Jun-2013			Sunday			
24-Jun-2013 0.57	0.19					
25-Jun-2013 0.25	0.21					
26-Jun-2013 0.49	0.28					
27-Jun-2013 0.24	0.50					
28-Jun-2013 0.22	0.23					
29-Jun-2013 0.70	0.65	5				
30-Jun-2013			Sunday			
1-Jul-2013		ŕ	Public Holiday			
2-Jul-2013 0.18	0.50					
3-Jul-2013 0.32	0.31					
4-Jul-2013 0.36	0.32					
5-Jul-2013 0.33	0.33					
6-Jul-2013 0.33	0.26					
Remark						

(Block 17 Foundation Works)



Block & at Pile Works SO Rel IN SHEDKAS - ED SJEARSSION 12/11 299.65 Shiu King Court 000 Plan Approved 9500 tis NG Kin-shing Chill Structural Engineer for BUILDING AUTHORITY 20 FEB 2012 2.54 Key Plan 常引四 - 115W-B/R176 BD SUBMISSION Drawing Status 製图狀況 - This many and co mains been at \$c o of sky of conducts 本文社及代史書的語言が知られて知知られたら。 EWAY KIN X 4월2021 NYDERE OF HUSSEN NYDERED No son of the drawing and the design conserved here a style regradued when of the prior action conserved relevant consultants 고요 (1010년(1012) 자신은, 자유산성관관관위등 등 위장(1011년) Ou mi lake seaso as only in Which TEELFERRI. Cod and only alderertoors on Site EXISTING FRESH WATER WAIN Rest Rest groups a convertion with the specific and a mixer where it among RESERVICE RELIGIONS - FREE RESERVICE RELIGIONS of any EXISTING SALT WATER WAN - EXISTING STREET LIGHTING NO. 33488-A1 normany builters Breachtricel, edigerents DUSTING STREET LIGHTING CABL len III RUAZORATIRAN Ibe Jacker Clab CIS Lielted EXISTING GAS MAIN DUSTING HY ELECTRICITY CABLE EXISTING LY ELECTROITY CABLE HERZOG GDE MEURON EDISTING TELECOMMUNICATION DUCT trefthy anima HUTCHISON GLOBAL COMMUNICATION LAMITED) EXISTING STORMWATUR DRAIN Vanders Arrindert \$ 25 ROCCO 许尔 14 EXISTING FOUR SEWER PROPOSED FOLK SEWER E & M Engine Suvaural Engineer / RSE R. JRP STE DOUNDARD ARUP DUSTING RETAINING WALL Project INEL CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT FXCSTING ORIHINGEF WITH STANDFIPE/PEZOWETER Drawing Takes MONITORING LAYOUT PLAN PROPOSED BURLOWC SETTLEMENT POINTS/TR_TWETER PROPOSED RETAINING WALL SETTLEMENT PORTS/TILTMETER Scale LER Draven S.E. PROPOSED INCLINOUETER TO BE FAINT IN TECTED FILE WALL OL IPIPE FILE WALL KCLd 1:3000A1 00-0AP209674-G-001 PROPOSED GROUND SETTLEMENT PORITS PROPOSED LITELY MONTORING PODITS PROPOSED VERATION MONITORING POINTS PROPOSED ADDITIONAL DEALHOLE Cost fire : 00-04/209571-G-001.049

								(Block 8 F	oundation)	
WW	小石 主義人	事物 丁毛	リカロル			Monitoring	Check Pts.		Trigger Levels	
10.00	区视火	主宋 上 1	主有的2	2 H]				Alert level	Alarm level	Action level
Win Win V	Way Co	nstruction	Company	Ltd.		Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
				Vib	oration R	lecord				
Project Title: 0	Central Po	lice Station C	onservation &	Revitalization		Project No: W	'P201	19-May-2013	to	1-Jun-2013
POINT		VM8-1	VM11-1	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (Initial)	0.212	0.087	0.116						
10 M 2012						46.72				
19-May-2013 20-May-2013	+	0.23	0.13	0.55		40.72		1	<u>г г</u>	
20-May-2013	++	0.23	0.13	0.33						
22-May-2013		0.35	0.23	0.55				-	+	
23-May-2013	++	0.35	0.13	0.29		· · · · · · · · · · · · · · · · · · ·			+	
24-May-2013	++	0.30	0.22	0.45		-		-		
25-May-2013		0.25	0.28	0.11					<u> </u>	
26-May-2013		0.00		0.11		Sunday	L			
27-May-2013		0.61	0.23	0.15				1		
28-May-2013		0.25	0.56	0.74						
29-May-2013		0.13	0.29	0.99						
30-May-2013		0.62	0.15	0.18						
31-May-2013		0.52	0.11	0.26						
1-Jun-2013		0.23	0.15	0.42						

								(Block 8 F	oundation)	
WW	小言最多	聿筑 丁1	呈有限公			Monitoring Cl	neck Pts.	/10.12 -	Trigger Levels	
								Alert level	Alarm level	Action level.
Win Win V	Way Co	nstruction	ı Company	Ltd.		Vibrating Mc	nitoring	2mm/s	2.5mm/s	3mm/s
					tion R					
Project Title: (Central Po	lice Station C	onservation &	Revitalization	_	Project No: WP2	201	2-Jun-2013	3 to	15-Jun-201
POINT		VM8-1	VM11-1	VM11-2						
DATE	PD/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (Initial)	0.212	0.087	0.116						
02-Jun-2013	+					Sunday	12			
3-Jun-2013		0.36	0.23	0.11		Sunday			T T	
4-Jun-2013		0.23	0.13	0.53					1	
5-Jun-2013		0.33	0.12	0.16					+	
6-Jun-2013		0.36	0.23	0.15					++	
7-Jun-2013		0.23	0.15	0.46						
8-Jun-2013		0.62	0.15	0.44						
9-Jun-2013						Sunday			<u> </u>	
10-Jun-2013		0.23	0.11	0.14						
11-Jun-2013		0.63	0.13	0.23						
12-Jun-2013	_				Pı	ablic Holiday				
13-Jun-2013		0.23	0.63	0.52						
14-Jun-2013		0.25	0.44	0.62						
15-Jun-2013		0.13	0.15	0.18						

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								(Block 8 Fo	oundation)	
WW 🖄	निक्ति क	事物了1				Monitorir	1g Check Pts.		Trigger Level	S
						Womon	ig check I is.	Alert level	Alarm level	Action level
Win Win Wa	ıy Coı	nstruction	ı Company	Ltd.		Vibrating	g Monitoring	2mm/s	2.5mm/s	3mm/s
				Vibr	ation F	Record				
Project Title: Cen	tral Pol	ice Station C	onservation &	Revitalization		Project No: V	WP201	16-Jun-2013	to	29-Jun-20
POINT		VM8-1	VM 11-1	VM11-2						
DATE P	'D/(m)	mm/s	mm/s	mm/s						
23-Apr-2012 (Initi	al)	0.212	0.087	0.116						
16-Jun-2013						Sunday				
17-Jun-2013		0.32	0.12	0.15						
18-Jun-2013		0.11	0.65	0.32						
19-Jun-2013		0.33	0.65	0.15						
20-Jun-2013		0.11	0.18	0.83						
21-Jun-2013		0.11	0.18	0.23						
22-Jun-2013		0.65	0.98	0.32						
23-Jun-2013								······································		
24-Jun-2013		0.36	0.25	0.26						
25-Jun-2013		0.63	0.25	0.41						
26-Jun-2013		0.26	0.42	0.56						
27-Jun-2013		0.49	0.65	0.37						
28-Jun-2013		0.32	0.20	0.63						
29-Jun-2013		0.19	0.22	0.31						



Locations for Tr	rial Pile near Block 17
PLACE NIN	B.D. Ref. No. 超学習指案编辑 F.S.D. Ref. No. 消防废相实编弦
11SW-B/A68	Revision/Submission 修改版/複批
11.5W-04100	No.展団 Detarption 説明 Date 日期 Approved 客注 - BD SUBMISSION 07/11 JS
1997 Sec. 1	A TENDER DRAWING 08/11 JS B TENDER ADDENDJM 09/11 JS
Shiu King	C BD RE-SUBWISSION 09/11 JS
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Ovidio	
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1040 00 100 500 000	Z
10 10 000000000000000000000000000000000	NG Kig-shing Chief Shuthural Engineer for BUILDING AUTHORITY
A A	1 7 NOV 2011
12241C/P17	L
uite .	
a 1 a2410/f	
· -Φ ^{all} · ····	Key Plan 索引圖
-	Salt - Jase
Doug 22410/HLA	A STREET
22410/H13A 22410/H13B, 224*0/1 22410/H13B, 224*0/1 22410/H18 224*0/1 22410/H18 224*0/1	ALL THE REAL PROPERTY AND ALL PROPERTY A
22410/H#8 114 2241	and share
	EABLES ()
EXISTING BOREHCLE (DONE BY OTHERS)	BD SUBMISSION
EXISTING TRUL PIT (DONE BY OTHERS)	Drawing Status 製圖状況 - This drawing and the contents herein are the copyinght
21 EXISTING COREHOLE (DONE BY OTHERS)	of relevant consultants. 本圈低及其內容的版極單有描稿問公司所有。 - No gar. of the drawing and the design contained herein
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EXISTING TRAL PIT (DONE BY OAP)	 Do not take measurements directly from this drawing 切り直接容量減上最优化。 Check and verify all climensions on site. 所有代育会項在工具线理論変更審任。
HI EXISTING HORIZONTIAL/INCLINED COREHOLE (DONE BY CAP)	所有尺寸30段在上2023年後至2023年4。 - Read this drawing in sonjunction with the specifications and all other related drawings. 此國版必須民業格說明書及其它有個圓服一体問讀。
EXISTING VERTICAL COREHOLE (DONE BY CAP)	- Notify the reference consultants immediately of any discrepancy faund herein 如意現代表有任何調定之意。 走立刻通过有副範疇公司。
EXISTING INCLINED DRILLHOLE (DONE BY GAP)	Client 窦主 (
DENOTED STANDPIPE/PIEZOMETER	奇雅尊馬奇維善倍に近金 The Hong Kong Jockey Club Chariñies Trust
(DH1B, DH20 & DH27) SITE BOUNDARY	
TRIAL PILE (SHAFT-GROUTED PREBORED H-PILE)	Conservation Architect
TRIAL PILE (SHAFT-GROUTED MINI-PILE)	Architect / AP
PROPOSED BUILDING SETTLEMENT POINTS/ TILIMETER (BS1/BT1 TO BS7/BT7)	ROCCO 计字型
PROPOSED GROUND SETTLEMENT POINTS (GS1 TO GS8)	Structural Engineer / RSE E & M Engineer
PROPOSED VIBRATING MONITORING (VM1 TO VM12)	ARUP KI
(DURING PILE CONSTRUCTION ONLY)	Project % E CENTRAL POLICE STATION CONSERVATION AND REVITALISATION
EXISTING SALT WATER MAIN	Drawing Title 圖名
ISTING STREET LIGHTING NO. 33488-A1	LAYOUT PLAN FOR SHAFT GROUTED PILE FOUNDATION
EXISTING GAS MAIN EXISTING GAS MAIN	(TRIAL PILE & MONITORING)
JAN EXISTING IN ELECTRICITY CABLE	Scale I:29 Drawn 황國 Checked 10월 1:30C@(A1) K.C.Lai AL
V EXISTING LV ELECTRICITY CABLE	Drawing No. III F/005 C
EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS (AUTED)	A P
LIMITED) EXISTING STORMWATER DRAN	1V
	RWAN KIN KEI Cher Fishwar MCR firle MIGISTERED STRUCTURAL ENGINER
PROPOSED FOUL SEWER	

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Win W						ny Ltd		on Rea	cord				g Check Pts. Monitoring	Alert level 5mm/s	Trigger Leve Alarm level 6mm/s	ls Auton cvcl 7.5mm/s
Project Title:	Central P	olice Sta	tion Con	servation	& Revita	lization			Project 1	No: WP20)1	16-Ju	n-2013	to	29-Ju	n-2013
POINT		VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM 11	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 (I	nitial)	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
27-Mar-2013		0.13	0.14	0.14	0.14	0.17	0.36	0.40	0.11	0.19	0.15	0.24	0.72	0.15	0.17	0.25
3-Apr-2013		0.29	0.30	0.14	0.15	0.40	0.20	0.19	0.26	0.24	0.22	0.13	0.09	0.13	0.23	0.29
10-Apr-2013		0.16	0.26	0.25	0.25	0.19	0.39	0.15	0.25	0.78	0.46	0.51	0.25	0.61	0.13	0.19
17-Apr-2013	_	0.25	0.39	0.20	0.56	0.35	0.43	0.50	0.56	0.35	0.26	0.30	0.30	0.26	0.36	0.25
24-Apr-2013		0.23	0.13	0.25	0.16	0.45	0.25	0.44	0.81	0.19	0.23	0.36	0.45	0.75	0.61	0.25
2-May-2013		0.14	0.28	0.23	0.29	0.30	0.14	0.36	0.19	0.17	0.28	0.15	0.14	0.28	0.13	0.22
9-May-2013		0.11	0.19	0.29	0.39	0.20	0.56	0.35	0.22	0.25	0.60	0.19	0.19	0.39	0.30	0.21
16-May-2013		0.56	0.35	0.13	0.09	0.17	0.14	0.40	0.37	0.17	0.40	0.30	0.25	0.37	0.28	0.34
23-May-2013		0.34	0.31	0.26	0.40	0.29	0.22	0.19	0.41	0.26	0.28	0.17	0.32	0.36	0.27	0.19
30-May-2013		0.30	0.28	0.16	0.18	0.26	0.33	0.31	0.27	0.28	0.42	0.25	0.33	0.18	0.26	0.24
6-Jun-2013		0.25	0.19	0.39	0.15	0.19	0.17	0.28	0.15	0.14	0.40	0.37	0.17	0.40	0.30	0.33
13-Jun-2013		0.14	0.40	0.37	0.17	0.40	0.30	0.29	0.40	0.37	0.34	0.18	0.26	0.50	0.12	0.13
20-Jun-2013		0.29	0.34	0.57	0.41	0.16	0.33	0.28	0.24	0.35	0.40	0.19	0.13	0.44	0.32	0.20
27-Jun-2013		0.21	0.28	0.40	0.42	0.27	0.26	0.21	0.94	0.40	0.67	0.54	0.23	0.21	0.21	1.12

M

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Annex M

Records of Vibration Monitoring for Other Construction Works



	,							(Block	(14)	
	板計	2曲筏丁	程有限公	া		Monitoring	Check Pts		Trigger Levels	
AA AA	且初	使采上	任月1121	ブロー				Alert level	Alarm level	Action level
TTP: TTP:	W	4	<u> </u>	T 4.1		Vibrating N	lonitoring	2mm/s	2.5mm/s	3mm/s
wm wm	way C	onstructio	on Company	Lta.						
					Vibration	Record				
Project Title:	Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201		19-May-2013	to	1-Jun-2013
						I I				1
POINT	.	VM14-1	VM14-2	VM14-3	VM14-4					
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s					
19-Nov-12 (l	Initial)	0.103	0.112	0.147	0.136					
19-May-2013						Sunday				
20-May-2013		0.60	0.13	0.34	0.29		-			
21-May-2013		0.36	0.95	0.95	0.54					
22-May-2013		0.62	0.26	0.62	0.13					
23-May-2013		0.13	0.22	0.85	0.11					
24-May-2013		0.65	0.19	0.86	0.26					
25-May-2013		0.33	0.23	0.71	0.15					
26-May-2013						Sunday				
27-May-2013		0.21	0.26	0.45	0.15					
28-May-2013		0.32	0.22	0.46	0.16					
29-May-2013		0.52	0.33	0.35	0.52					
30-May-2013		0.36	0.21	0.51	0.13					
31-May-2013		0.22	0.33	0.33	0.19					
1-Jun-2013		0.62	0.12	0.16	0.52					
Remarks										

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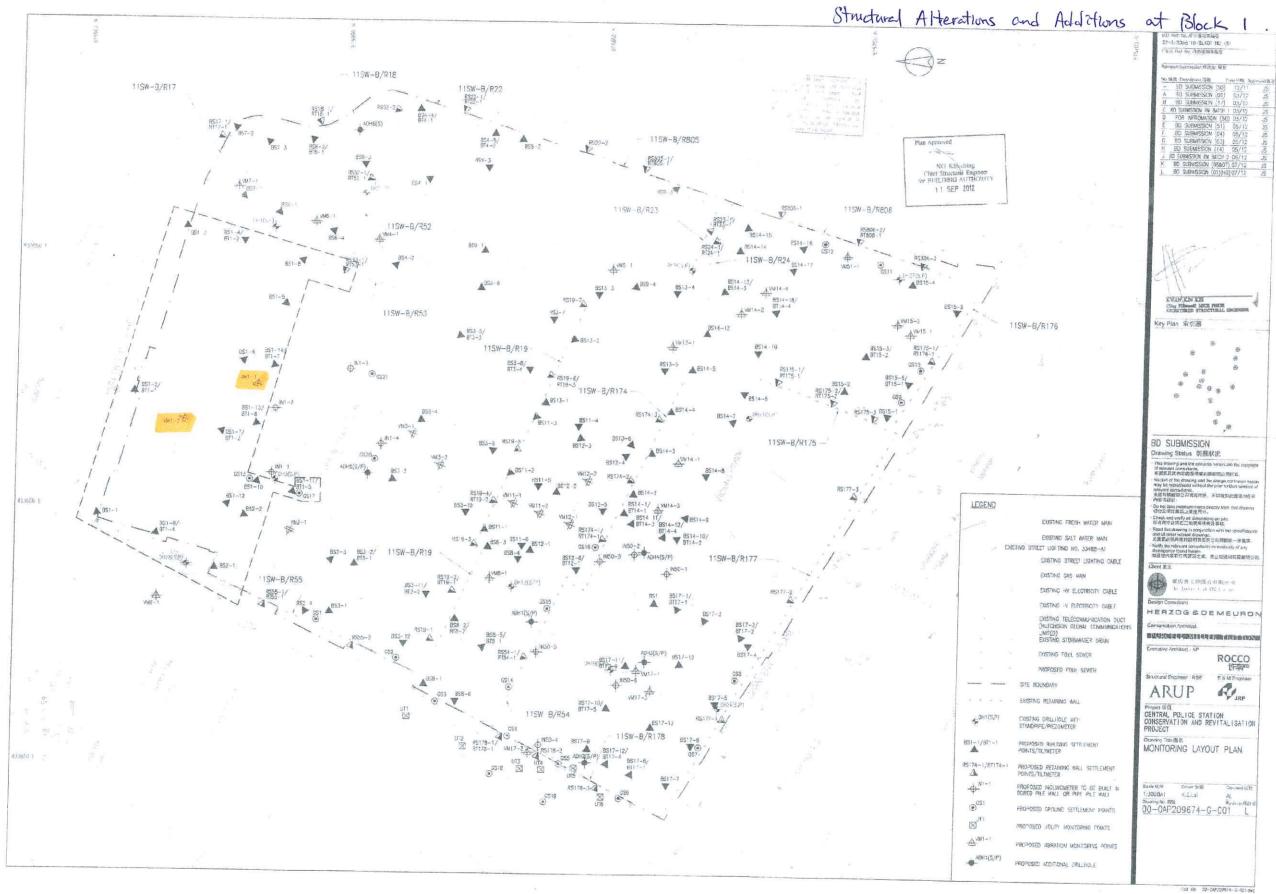
								(Block 14 Str	uctural A&A)
WW	恆誠	建筑工	程有限公	、司		Monitorin	g Check Pts.		Trigger Levels	
11.11	山泉	是未上	任日松	イトリ			g CHECK I IS.	Alert level	Alarm level	Action level
Win Win	Way	onstructio	on Company	- T +J		Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
уу <u>ш</u> т ууш)	e vray C	onstructio	лі Сошрацу		Vibration	Record				
Project Title	: Central	Police Station	n Conservation	& Revitalizati	on Proie	ct No: WP201		2-Jun-2013	to	15-Jun-2013
		55	14		1.0)•			2 3411-2013	10	1 <i>3-</i> Juli-2013
POINT	r	VM14-1	VM14-2	VM14-3	VM14-4					
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	/				
19-Nov-12 (Initial)	0.103	0.112	0.147	0.136					
2-Jun-2013						Sunday				
3-Jun-2013		0.56	0.81	0.23	0.55					
4-Jun-2013		0.21	0.33	0.45	0.26					
5-Jun-2013		0.31	0.62	0.22	0.11					
6-Jun-2013		0.30	0.36	0.82	0.18					
7-Jun-2013		0.68	0.23	0.82	0.13					
8-Jun-2013		0.33	0.23	0.18	0.15					
9-Jun-2013						Sunday				
10-Jun-2013		0.39	0.23	0.55	0.16					
11-Jun-2013		0.65	0.22	0.11	0.15					
12-Jun-2013					Pi	ublic Holiday				
13-Jun-2013		0.33	0.33	0.58	0.12					
14-Jun-2013		0.61	0.22	0.55	0.13					
15-Jun-2013		0.32	0.31	0.56	0.25					
Remarks										

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14/14	,						(Block 14 Stru	uctural A&A)
WW	恆訊	建筑 工	程有限公	てヨ		Monitoring Check Pts.		Trigger Levels	
46.46	区则	使未上	任何收2	7.11			Alert level	Alarm level	Action level.
Win Win	Way	onstructio	n Company	T 4-1		Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s
уушт уушт	. way C	onstructio	on Company						
					Vibration	Record			
Project Title	: Central	Police Station	n Conservation	& Revitalizati	on Proje	ct No: WP201	16-Jun-2013	to	29-Jun-2013
POINT		VM14-1	VM14-2	VM14-3	VM14-4				
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s				
19-Nov-12 (0.103	0.112	0.147	0.136				
16-Jun-2013						Sunday			
17-Jun-2013		0.33	0.22	0.66	0.19				
18-Jun-2013		0.22	0.56	0.78	0.11				
19-Jun-2013		0.53	0.33	0.71	0.25				
20-Jun-2013		0.36	0.22	0.75	0.31				
21-Jun-2013		0.62	0.33	0.85	0.15				
22-Jun-2013		0.75	0.36	0.58	0.25				
23-Jun-2013						Sunday			
24-Jun-2013		0.32	0.21	0.15	0.13				
25-Jun-2013		0.11	0.21	0.69	0.12				
26-Jun-2013		0.33	0.59	0.60	0.56				
27-Jun-2013		0.34	0.28	0.95	1.53				
28-Jun-2013		0.40	0.22	0.21	0.22				
29-Jun-2013		0.41	0.23	0.41	0.19				
Remarks									

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				Monito	ring Check Pts.	T.	Frigger Level	S
	iamm	on				Alert level	Alarm level	Action level
					tion Monitoring	2mm/s	2.5mm/s	3mm/s
					on at largest span of	5.0mm/s	6.0mm/s	7.5mm/s
				highest	t Structural level		0.01111/3	7.51111/5
			Vibration	n Record				
roject Title: Cer	tral Police Sta	tion Conservatio	n & Revitalization	Project No:	WP202 (Block 1 A&	A 30-May-2013	to	12-Jun-20
					1	1		
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						1
11-12-12 (Initial)	0.132	0.698						
30-May-13	0.163	1.400		-				
31-May-13	0.175	0.218						
1-Jun-13	0.139	0.207						
2-Jun-13				Sunday		1		
3-Jun-13	0.151	0.341						
4-Jun-13	0.147	0.448						
5-Jun-13	0.102	0.093						
6-Jun-13	0.720	0.434						
7-Jun-13	0.291	0.458						
8-Jun-13	0.187	0.323						
9-Jun-13				Sunday				
10-Jun-13	0.206	0.216						
11-Jun-13	0.211	0.144						
12-Jun-13				Holiday		1	1	
Remarks: * sam # Vibr		oan of highest struct	ural level		Prepared by : W	,	1 a0	

				Marita	nin a Chaole Dec		Trigger Level	ls
	iammo	nn		ivionito	ring Check Pts.	A lert level	Alarm level	Action level
				Vibrat	tion Monitoring	2mm/s	2.5mm/s	3mm/s
				# Vibratic	on at largest span of	5.0mm/s	6.0 mm/s	7.5 mm/s
				highest	Structural level	5.01111/3	0.01111/3	7.5111173
			Vibration	Record				
roject Title: Cen	tral Police Sta	tion Conservation	& Revitalization	Project No:	WP202 (Block 1 A&	A 13-Jun-2013	3 to	26-Jun-201
POINT	#VM1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
13-Jun-13	0.125	0.487						
14-Jun-13	0.842	0.192						
15-Jun-13	0.966	0.139						
16-Jun-13	•			Sunday	•	•	•	•
17-Jun-13	1.540	0.451						
18-Jun-13	0.883	0.209						
19-Jun-13	0.223	0.214						
20-Jun-13	0.194	0.162						
21-Jun-13	0.122	0.384						
22-Jun-13	0.203	0.143						
23-Jun-13				Sunday				
24-Jun-13	0.363	0.131						
25-Jun-13	0.470	0.160						
26-Jun-13	0.151	0.146						

						r.	Frigger Level	ç
	iammo			Monito	ring Check Pts.	A lert level	Alarm level	Action level
	annu			Vibrat	ion Monitoring	2mm/s	2.5mm/s	3mm/s
					n at largest span of Structural level	5.0 mm/s	6.0 mm/s	7.5 mm/s
			Vibration					
Project Title: Cen	tral Police Sta	tion Conservat	ion & Revitalization	Project No:	WP202 (Block 1 A&	A 27-Jun-2013	to	10-Jul-2013
	1	Г Г			I			
POINT	#VM 1-1*	#VM1-2*						
DATE	mm/s	mm/s						
11-12-12 (Initial)	0.132	0.698						
27-Jun-13	0.182	0.147						
28-Jun-13	0.156	0.561						
29-Jun-13	0.103	0.199						
30-Jun-13	-			Sunday	-	-		
1-Jul-13				Holiday				
2-Jul-13	0.150	0.175						
3-Jul-13	0.390	0.163						
4-Jul-13	0.228	0.450						
5-Jul-13	0.132	0.139						
6-Jul-13	0.183	0.185						
7-Jul-13				Sunday				
8-Jul-13	0.128	1.050						
9-Jul-13								
10-Jul-13								
Remarks: * same		<u> </u>	I					
# Vibr	ation at largest sp	pan of highest stru	ictural level		Prepared by : W			

Structural Additions and



0	Ilterations at 13	B.D. Ref. No. RP-Branking
ew India	10U50	22-3/3066/10/BLK11(HU) (S) F.S.D. Ref No 纳防原植築編號
Neg.	815	Revision/Submission 性较粒/极批
FT		No.编號 Description 說明 Date 日界 Approved事
11	5	- BD SUBMISSION (50) 12/11 JS A BD SUBMISSION (01) 03/12 JS
11	ad.	B BC SUBMISSION (17) 03/12 JS C BD SUBMISSION RW BATCH 1 03/12 JS
	Shiru King	D FOR INFROMATION (50) 03/12 JS E BO SUBMISSION (51) 05/12 JS
1	Court	F BD SUBMISSION (04) 05/12 JS
NE		H BD SUBMISSION (14) 05/12 JS
the		J ED SUBMISSION RW BATCH 2 D6/12 JS K BD SUBMISSION (06&07) 07/12 JS
		L BD SUBMISSION (01)(HQ)07/12 JS M BD SUBMISSION (11) 07/12 JS
2	The second se	
And I	175 - P.S	
	E The second	
1	278 - 28	
550-51		Plan Approved
11		CHIONG Kam-yueng Jacky
	Sec.	Chief Structural Engineer for BUILDING AUTHORITY
2	911	- 3 OCT 2012
19	je U	
11SW	V-B/R176	Key Plan 索引圖
	Win .	6 9 9 Y
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2	AN	
H.	T	BD SUBMISSION
14	E M	Drawing Status 裂罷狀況 - This drawing and the contents berein are the copyright
19	CEAS FISHINGE MICE FIRME SHAREN	of relevant consultants. 本確能及其內容的版極團有關觀問公司所有。
97	14 8	 No part of the drawing and the design contained herein may be reproduced without the prior written consent of relevant consultants, 未詳有問題問公司書面回意,不可收製此圓紙內任何
		- Do not take measurements directly from this crawing.
100	EXISTING FRESH WATER MAIN	初勿直浪從屬紙上量度尺寸。 Check and vortily all dimensions on site 研有尺寸必须在工业现场找费及客栈。
	EXISTING SALT WATER MAIN	 Read this drawing in conjunction with the specifications and all other related drawings.
EXISTI	EXISTING SALT WATER MAIN NG STREET LICHTING NC. 33488-A1	此置統必須與終結設明實及其它有關團紙一併相議。 - Notify the relevant consultants immediately of any discrepancy lound herein, 約發現內容存任何診験之處。應点對通知有關朝間公司。
-11-		如發現內容有任何課設之處。應立創還加有關範疇公司。 Client 聚主
250	EXISTING GAS MAIN	第几 余文物保育有限公司
1326	EXISTING HV ELECTRICITY CABLE	The Jorkey Club CP Limited
LV -	EXISTING LV ELECTRICITY CABLE	Design Consultant
нос -	EXISTING TELECOMMUNICATION DUCT	
225	(HUTCHISON GLOBAL COMMUNICATIONS LIMITED) SYISTING ETOPLIMATED DRAIN	
150	EXISTING STORWWATER DRAIN	Executive Architect / AP
150	PROPOSED FOUL SEWER	ROCCO 计争严
		Structural Engineer / RSE E & M Engineer
	SITE BOUNDARY	ARUP RURP
	EXISTING RETAINING WALL	Project 10 E CENTRAL POLICE STATION
	EXISTING DRILLHOLE WITH STANDPIPE/PIEZOWETER	CONSERVATION AND REVITALISATION PROJECT
	PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER	Drawing Title 著名 MONITORING LAYOUT PLAN
-1	PROPOSED RETAINING WALL SETTLEMENT	
	POINTS/TILTMETER PROPOSED INCLINOMETER TO BE BUILT IN	Scale 분위 Drawn #문화 Checked 문화
	BORED PILE WALL OR PIPE PILE WALL	1:300@A1 K.C.Lai AL Drawing No.圆梁 Revision修改派
	PROPOSED GROUND SETTLEMENT POINTS	00-0AP209674-G-001 M
	PROPOSED UTILITY MONITORING POINTS	
	PROPOSED VIBRATION MONITORING POINTS	
P)	PROPOSED ADDITIONAL DRILLHOLE	



Monitoring Check Pts.	Trigger Levels				
Wollitoring Check I is.	Alert level	Alarm level	Action level		
Vibration Monitoring	2mm/s	2.5mm/s	3mm/s		
Vibration at largest span of	50 1				
highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s		

Vibration Record

				tion & Revit	Project N	o: WP202 (Bl	IK II A&A)	19-May-2013	to	1-Jun-2013
POINT		VM11-1*	VM11-2*							
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s				
3-Apr-2012 (Initial)	0.130	0.190							
19-May-13 Sunday										
20-May-13		0.13	0.55							
21-May-13		0.25	0.33						(Ma)	
22-May-13		0.13	0.55				-0404-			
23-May-13		0.22	0.29							
24-May-13		0.28	0.45							
25-May-13		0.55	0.11							
26-May-13						Sunday				
27-May-13		0.23	0.15							
28-May-13		0.56	0.74						5.0	
29-May-13		0.29	0.99							
30-May-13		0.15	0.18							
31-May-13		0.11	0.26							
1-Jun-13		0.15	0.42							

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee



	-	Gammon				Monitori	Monitoring Check Pts.		Trigger Levels			
		amm	on					Alert level	Alarm level	Action level		
							n Monitoring	2mm/s	2.5mm/s	3mm/s		
							t largest span of	5.0mm/s	6.0mm/s	7.5mm/s		
						highest S	tructural level	5.0111/3	0.01111/5	7.51111/5		
					T 7'1 (*	D 1						
					Vibration	n Record						
Project Title	e: Centr	al Police Sta	tion Conserva	ation & Revit	Project N	lo: WP202 (E	112 11 A PrA)	2 1 2012		15 1 0010		
	e. centi		conserva		Tiojeet P	10. W1202 (E	or IT A&A)	2-Jun-2013	to	15-Jun-2013		
							1800			T		
POIN	Г	VM11-1*	VM11-2*									
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s						
23-Apr-2012	(Initial)	0.130	0.190				1					
2-Jun-13						Sunday				1		
3-Jun-13		0.23	0.11							1		
4-Jun-13		0.13	0.53									
5-Jun-13		0.12	0.16									
6-Jun-13		0.23	0.15									
7-Jun-13		0.15	0.46									
8-Jun-13		0.15	0.44									
9-Jun-13						Sunday				L		
10-Jun-13		0.11	0.14					1		1		
11-Jun-13		0.13	0.23									
12-Jun-13						Public Holiday	1	L		1		
13-Jun-13		0.63	0.52			1	1			1		
14-Jun-13		0.44	0.62			1						
15-Jun-13		0.15	0.18									
							1	1		1		

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee



POINT

23-Apr-2012 (Initial)

PD/(m)

DATE

16-Jun-13 17-Jun-13

18-Jun-13

19-Jun-13

20-Jun-13

21-Jun-13

22-Jun-13

23-Jun-13 24-Jun-13

25-Jun-13

26-Jun-13

27-Jun-13

28-Jun-13

29-Jun-13

Project Title: Central Police Station Conservation & Revit

VM11-2*

mm/s

0.190

0.15

0.32

0.15

0.23

0.32

0.26

0.41

0.56

0.63

0.31

mm/s

VM11-1*

mm/s

0.130

0.12

0.65

0.65

0.18

0.18

0.98

0.25

0.25

0.42

0.65

0.20 0.22

		Monitorin	g Check Pts.	Trigger Levels					
		WOINTOTIN	g Check Fis.	Alert level	Alarm level	Action level			
		Vibratior	n Monitoring	2mm/s	2.5mm/s	3mm/s			
			largest span of ructural level	5.0 mm/s	6.0 mm/s	7.5 mm/s			
	Vibration	Record							
t	Project No	o: WP202 (B	lk 11 A&A)	16-Jun-2013	to	29-Jun-2013			
Т		_							
	mm/s	mm/s							
l									
		Sunday							
		Sunday							
T									
T									

Remarks: * These points intercept with WP201 Block 50

Prepared by : Wong Wing Yee