MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: 64th Monthly EM&A Report (1 February to 28 February 2017)

Issue Date: March 2017

Environmental Resources Management

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Issue Date: March 2017

Reference 0095646

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 Our ref.
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Date: 13 March 2017

By Post and Email (katie.yu@erm.com)

ERM-Hong Kong Limited, 16/F Berkshire House, 25 Westlands Road, Quarry Bay, Hong Kong

Attn: Ms Katie Yu

Dear Katie,

Central Police Station Conservation and Revitalization Project Verification of Monthly EM&A Report No. 64

We refer to your letter dated 13 March 2017 regarding the Monthly EM&A Report No. 64. Atkins China Limited verifies, in the capacity of Independent Environmental Checker, that the report conforms the requirements provided in Condition 3.4 of the Environmental Permit (EP-408/2011/C).

Yours sincerely, For Atkins China Limited

Keith

Keith Chau Independent Environmental Checker

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EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the 64th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 28 February 2017 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:

- Hard landscape construction;
- Timber elements repair and replacement at Blocks, 1, 3, 6, 7, 8, 9, 10 and 14;
- Metal works installation at Blocks 1, 8, 9 and 17;
- External façade repair at Blocks 3, 8, 9, 11, 13, 14 and 17;
- Fitting out works at Blocks 1, 6, 7, 15, 17, Arbuthnot Wing and Old Bailey Wing;
- E&M fixing at Blocks 1, 3, 6, 7, 9, 12, 13, 14, 15, Arbuthnot Wing and Old Bailey Wing;
- Footbridge construction; and
- External staircase construction.

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	6 times
•	Joint environmental site inspection	1 time
•	Heritage site inspections	22 times
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration monitoring for other construction works	22 times

<u>Noise</u>

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

Cultural Heritage

No vibration monitoring was carried out for demolition works, trial piling or pile/bored piling works as the aforementioned works were not conducted during the reporting period.

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

• 22 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 every working weekday in February 2017 by the Heritage Checker during the reporting period. Following the partial collapse of the northwest corner of Block 4, construction works have resumed except for Block 4 during the reporting period. The loose and unsafe structure of Block 4 has been removed.

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

21 February 2017

• It was observed that the timber window and the painted sign at Block 17 were not protected during the coring and roofing works. The Contractor was reminded to follow up.

24 February 2017

• Blockage of the drainage outlet at lower ground floor of Block 9 has caused flooding in the corridor and rooms. The Contractor was reminded to follow up.

28 February 2017

- It was observed that the protection to painted sign on lower ground floor of Block 9 was missing. The Contractor was reminded to follow up;
- Defective paint work was observed at Rooms 03/F/01 and 03/F/31 on first floor of Block 3. The Contractor was reminded to follow up;
- Rainwater pipe at Block 6 was observed not installed in accordance with approved drawings. The Contractor was reminded to follow up;
- The door on first floor of Block 9 was observed to be fabricated in wrong size. The Contractor was reminded to follow up.

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

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. The tree inspection was conducted on 8 February 2017 by the arborist during the reporting period. The tree inspection report is still under preparation and review by the arborist at the time of submission of this EM&A report. The major observations and recommendations for the tree inspection dated 8 February 2017 will be reported in the next reporting period.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 60.97 tonnes of inert C&D materials were generated during the reporting period. 43.89 tonnes of non-inert C&D materials comprising general refuse and mixed construction waste were generated during the reporting period. No metal, paper/cardboard packaging or plastic waste was recycled during the reporting the reporting period. No chemical waste was collected by licenced chemical waste collector 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 16 February 2017. No major observations and recommendations were recorded during the environmental site inspection.

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

No exceedance of the 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 environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

Future Key Issues

ENVIRONMENTAL RESOURCES MANAGEMENT

Should construction works resume and subject to the findings of the current works review, the work items to be undertaken in the next month include:

- Hard landscape construction;
- Timber elements repair and replacement at Blocks 3, 6, 7, 8, 9, 10 and 14;
- Metal works installation at Blocks 1, 8, 9 and 17;
- External façade repair at Blocks 3, 8, 9, 11, 13, 14 and 17;
- Fitting out works at Blocks 1, 6, 7, 15, 17, Arbuthnot Wing and Old Bailey Wing;
- E&M fixing at Blocks 1, 3, 6, 7, 9, 12, 13, 14, 15, Arbuthnot Wing and Old Bailey Wing; and
- Footbridge construction.

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

ENVIRONMENTAL RESOURCES 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 64th EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1** to **28 February 2017**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 :	Introduction
	details the scope and structure of the report.

Section 2: Project Information

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

Section 3: Environmental Monitoring Requirements

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

Section 4 : Implementation Status on Environmental Protection Requirements

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

Section 5: **Monitoring Results** summarises the monitoring results obtained in the reporting period.

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

Section 7: Environmental Non-conformance

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

Section 8: Future Key Issues

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

Section 9: Conclusions

2 PROJECT INFORMATION

2.1 BACKGROUND

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

2.2 SITE DESCRIPTION

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

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

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

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

2.3 CONSTRUCTION ACTIVITIES

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

Construction Activities Undertaken

- Hard landscape construction;
- Timber elements repair and replacement at Blocks, 1, 3, 6, 7, 8, 9, 10 and 14;
- Metal works installation at Blocks 1, 8, 9 and 17;
- External façade repair at Blocks 3, 8, 9, 11, 13, 14 and 17;
- Fitting out works at Blocks 1, 6, 7, 15, 17, Arbuthnot Wing and Old Bailey Wing;
- E&M fixing at Blocks 1, 3, 6, 7, 9, 12, 13, 14, 15, Arbuthnot Wing and Old Bailey Wing;
- Footbridge construction; and
- External staircase construction.

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*.

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011/C	Throughout the Contract	Permit granted on 29 April 2016
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 Chemical Waste Producer under Waste Disposal Ordinance	Chemical Waste Producer No.: 5213- 122-G2347-25	Throughout the Contract	-
Disposal of C&D material/waste	Billing Account Number: 7013338	Throughout the Contract	-
Effluent Discharge License under Water Pollution Control Ordinance	License No. WT00026824-2017	11 Jan 2017 – 31 Oct 2021	The renewed licence was issued on 11 January 2017
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/00784) 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-RS1270-16	15 December 2016 at 0000 hours to 11 June 2017 at 2400 hours	-

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

3 ENVIRONMENTAL MONITORING REQUIREMENTS

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> CEL 120 (S/N 3421612)
	Sound Level Meter
	CEL-633A (S/N 3521757)

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 3.3Action 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.

70dB(A) for schools and 65dB(A) during school examination periods.

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

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

3.1.5 *Mitigation Measures*

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

3.2 CULTURAL HERITAGE

3.2.1 Vibration Monitoring

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

Baseline Monitoring

Baseline vibration monitoring was not conducted during the reporting period.

Vibration Monitoring for Demolition Works

As no demolition works were carried out, vibration monitoring for demolition works was not conducted during the reporting period.

Vibration Monitoring for Trial Piling and Pipe/Bored Piling Works

As no trial piling or pipe/bored piling works were carried out, vibration monitoring for trial piling and piling works was not conducted during the reporting period.

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 L*. The number and location of monitoring location will depend on the location of the specific construction works. The vibration monitoring should be conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location.

Alert, Alarm and Action Levels

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

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

Instrument Type	ment Type Item Monitored		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 and EM&A Manual during the reporting period is presented in *Table 4.1*.

Table 4.1Status of Required Submissions

4

Submission		Submission Date
EP Condition		
Condition 3.4	63rd Monthly EM&A Report	14 February 2017
EM&A Manual		
Section 10.4	20th Quarterly EM&A Report	2 February 2017

5.1 NOISE

A total of 6 sets of 30-minute construction noise measurements were carried out at the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex H*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

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

No exceedance of the 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

No vibration monitoring was carried out for the trial piling and piling works as there were no piling works conducted during the reporting period.

Other Construction Works

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

• 22 vibration monitoring measurements for the structural addition and alteration works at Block 11.

The monitoring results are presented in Annex L.

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

5.2.2 Heritage Site Audit

Heritage site audits were conducted on every working weekday in February 2017 by the Heritage Checker during the reporting period. Following the partial collapse of the northwest corner of Block 4, construction works have resumed except for Block 4 during the reporting period. The loose and unsafe structure of Block 4 has been removed.

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

21 February 2017

• It was observed that the timber window and the painted sign at Block 17 were not protected during the coring and roofing works. The Contractor was reminded to follow up.

24 February 2017

• Blockage of the drainage outlet at lower ground floor of Block 9 has caused flooding in the corridor and rooms. The Contractor was reminded to follow up.

28 February 2017

- It was observed that the protection to painted sign on lower ground floor of Block 9 was missing. The Contractor was reminded to follow up;
- Defective paint work was observed at Rooms 03/F/01 and 03/F/31 on first floor of Block 3. The Contractor was reminded to follow up;
- Rainwater pipe at Block 6 was observed not installed in accordance with approved drawings. The Contractor was reminded to follow up;
- The door on first floor of Block 9 was observed to be fabricated in wrong size. The Contractor was reminded to follow up.

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

5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 8 February 2017. The tree inspection report is still under preparation and review by the arborist at the time of submission of this EM&A report. The major observations and recommendations for the tree inspection dated 8 February 2017 will be reported in the next 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 and mixed construction waste. 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 5.1*. No metal, paper/cardboard packaging or plastic

waste was recycled during the reporting period. No chemical waste was collected by licenced chemical waste collector during the reporting period.

Table 5.1Quantities of Waste Generated from the Project

Month / Year	Quantity						
		C&D Materials (non-inert) ^(b)	Chemical Waste		Recycled materials		
			Solid	Liquid	Paper / cardboard (e)	Plastics	Metals
February 2017	60.97 tonnes (c)	43.89 tonnes (d)	0 kg	0 L	0 kg	0 kg	0 kg
Notes:							

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

(d) 43.89 tonnes of non-inert C&D materials were disposed of at SENT Landfill.

(e) 190 kg of paper/cardboard has been recycled in January 2017 which was not reported in the monthly EM&A report in January 2017. The quantity was reported by Contractor after the submission of the monthly EM&A report in January 2017.

⁽b) Non-inert C&D materials include general refuse and mixed construction waste which were disposed of at landfill site and/or sorting facilities.

⁽c) 54.84 tonnes and 6.13 tonnes of inert C&D materials were sent to Chai Wan Public Fill Barging Point and Tseung Kwan O 137 Fill Bank, respectively.

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 16 February 2017. 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 the 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 NON-COMPLIANCE

No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

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

7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons/prosecution was received during the reporting period.

8 FUTURE KEY ISSUES

8.1 KEY ISSUES FOR THE COMING MONTH

Construction works at the CPS site have resumed except for Block 4. Works to be undertaken for the coming monitoring period are summarised in *Table 8.1*.

Table 8.1Construction Works to be Undertaken in the Coming Month

Work to be Undertaken

- Hard landscape construction;
- Timber elements repair and replacement at Blocks 3, 6, 7, 8, 9, 10 and 14;
- Metal works installation at Blocks 1, 8, 9 and 17;
- External façade repair at Blocks 3, 8, 9, 11, 13, 14 and 17;
- Fitting out works at Blocks 1, 6, 7, 15, 17, Arbuthnot Wing and Old Bailey Wing;
- E&M fixing at Blocks 1, 3, 6, 7, 9, 12, 13, 14, 15, Arbuthnot Wing and Old Bailey Wing; and
- Footbridge construction.

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 to 28 February 2017 in accordance with EM&A Manual and the requirement under EP-408/2011/C.

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

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

No enquiry was received during the reporting period.

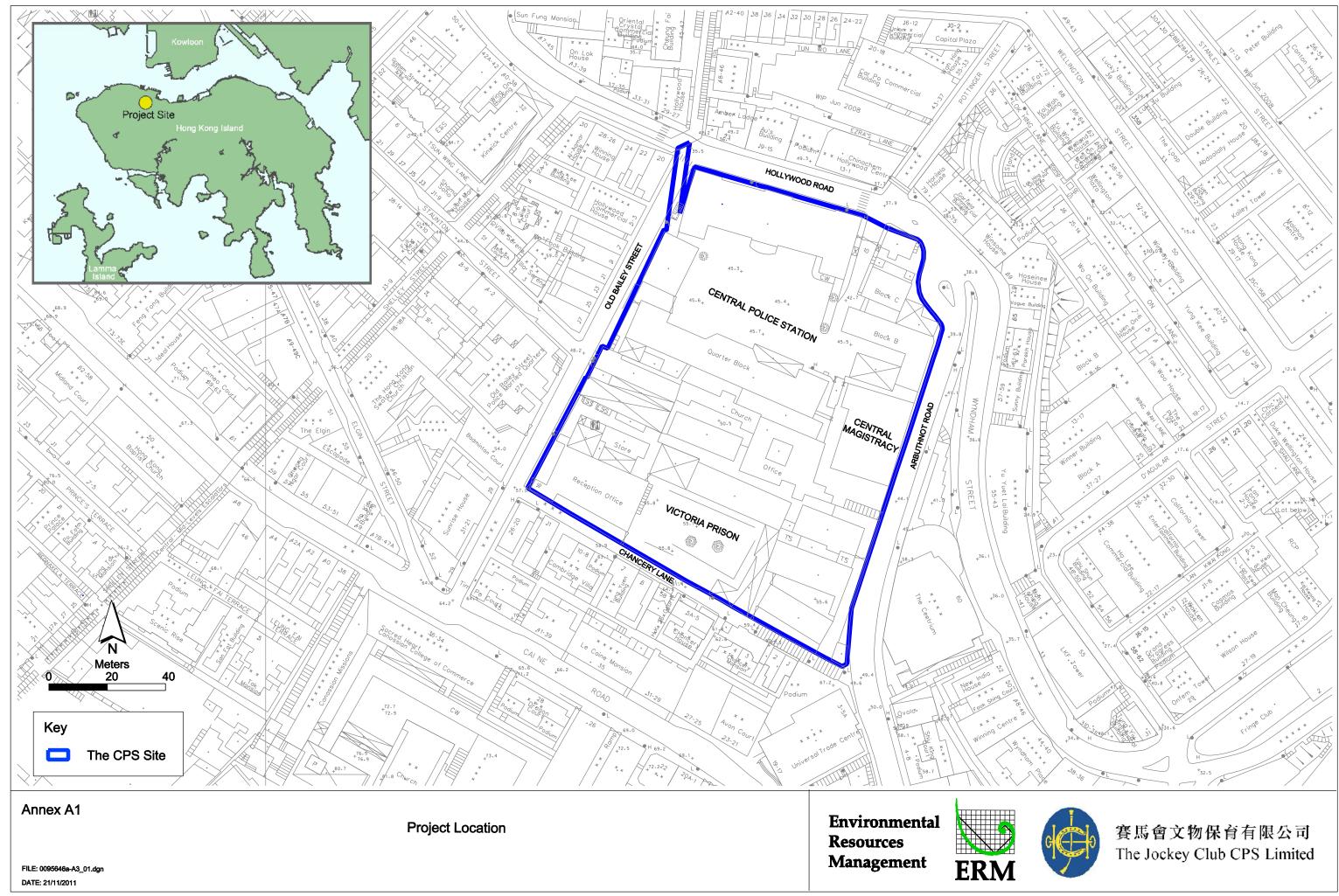
No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

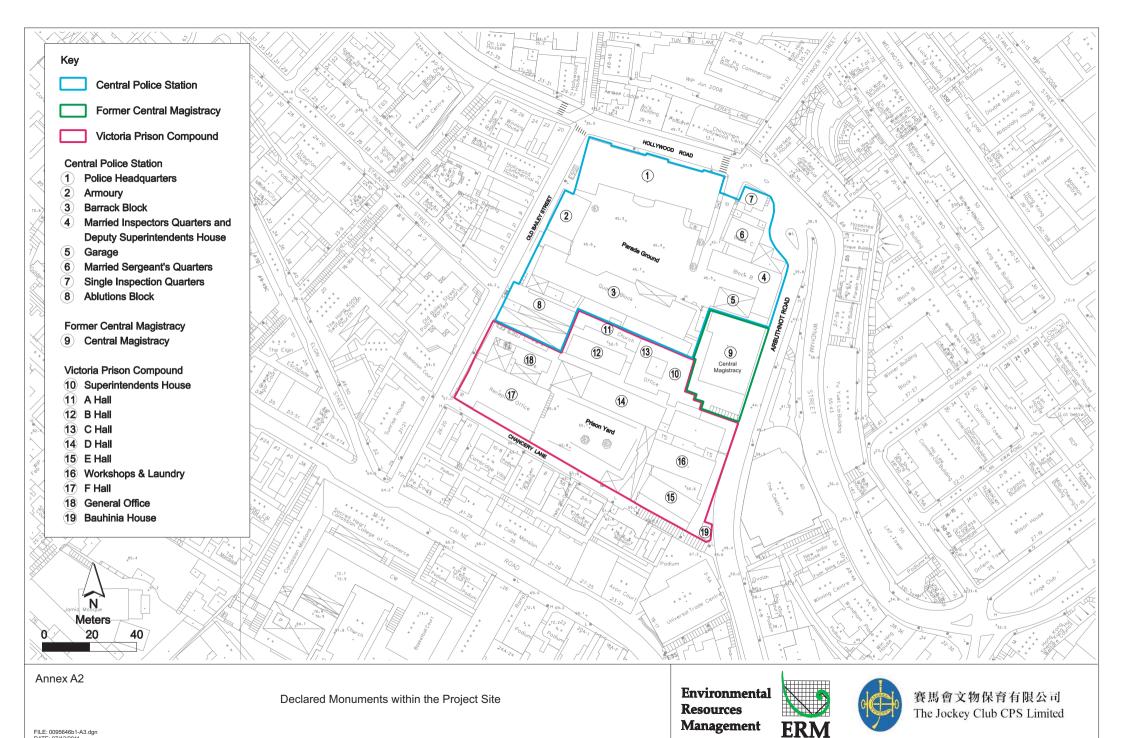
No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

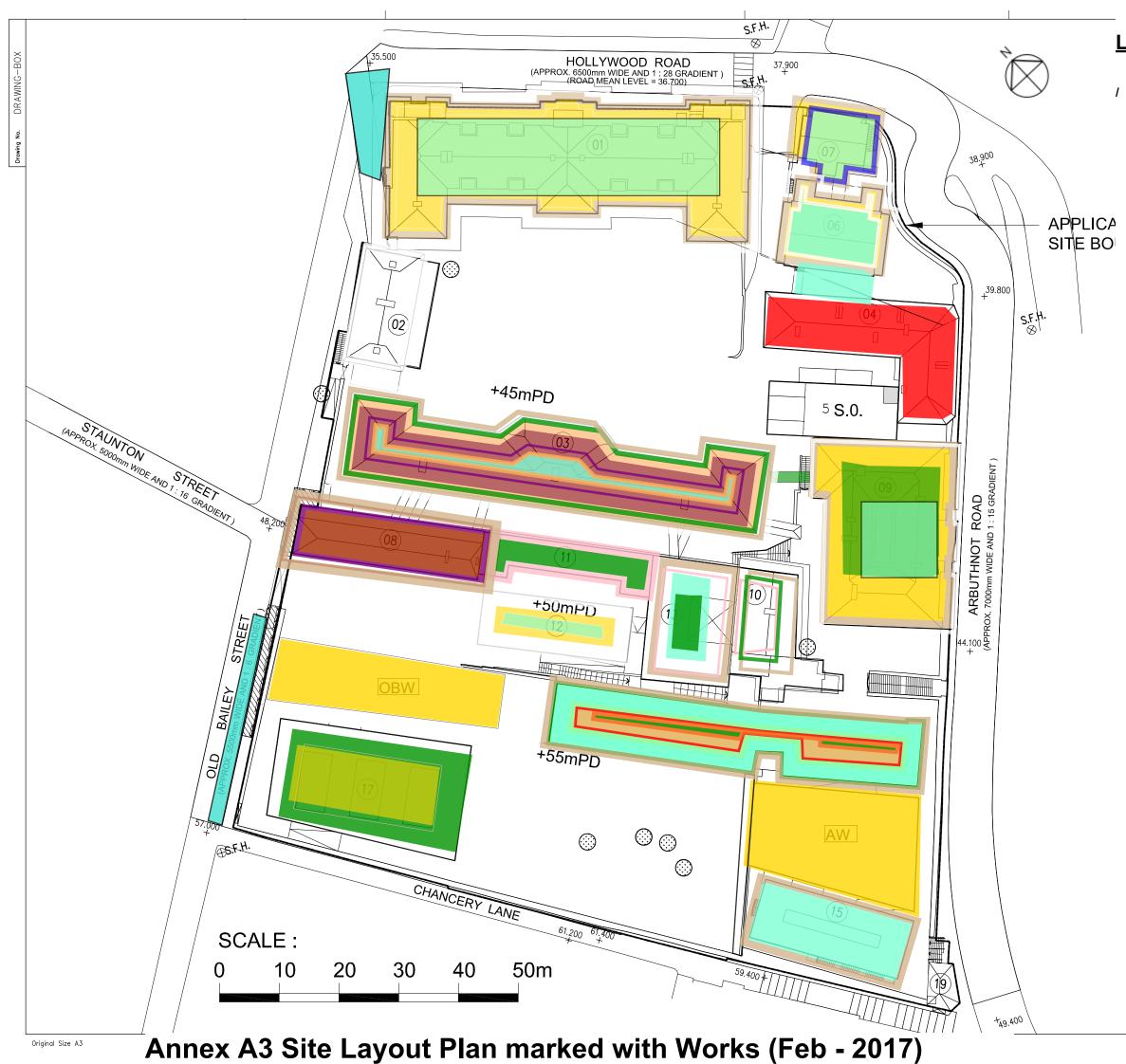
The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures. Annex A

Locations of Works Areas and the Surroundings





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





- 1. E&M Installation / Opening / Conduit Transformer delivery and installation
- 2. Excavation
- 3. Internal Building Works
- 4. Permanent Steel Works Erection
- 5. Upgrading
- 6. Roof Replacement Works / New Roof / Repair
- 7. Basement Construction
- 8. Structure A&A Works
- 9. Repair Works to Timber Window, Door, Structure, Floor and Metal Elements
- **10. Demolition Works**
- 11. Facade Works / Link Bridage Repair
- **12. New Structure Construction**
- 13. Balcony Repair
- 14. Paint Stripping and Plastering Works
- 15. Core Wall Construction
- 16. Utilities Diversion and Carriageway
- 17. PBR
- 18. Removal of Needle Beams
- 19. U/G Drainage
- 20. Service trench construction
- 21. Demolition of concrete block
- 22. New Balcony Construction
- 23. Construction of terminal Manhole
- 24. Emergency Works for collasped building and BD inspection
- 25. Fitting Out Works / E&M Fixing



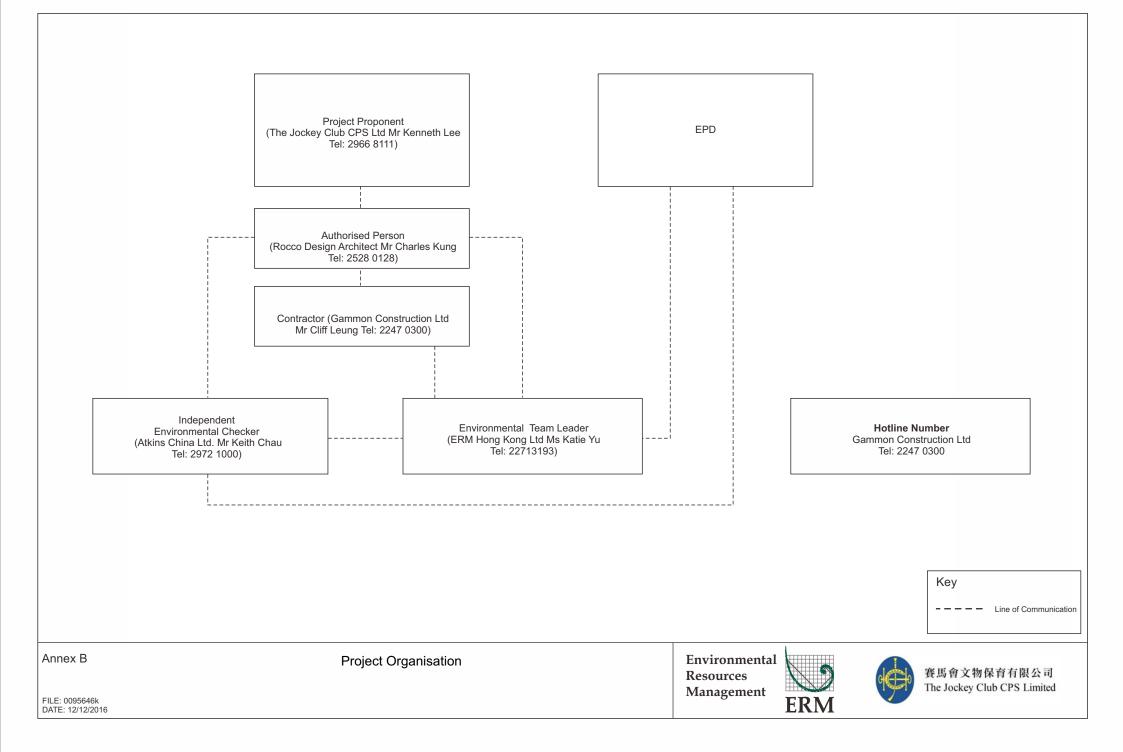
Drawing Title

SITE LAYOUT PLAN

Drawn	Scale N.T.S.
Designed	Status Marked for Enguiry & Complaint log
Checked	(CPS/E&C/09)
Approved	Drawing No.
CAD Ref	

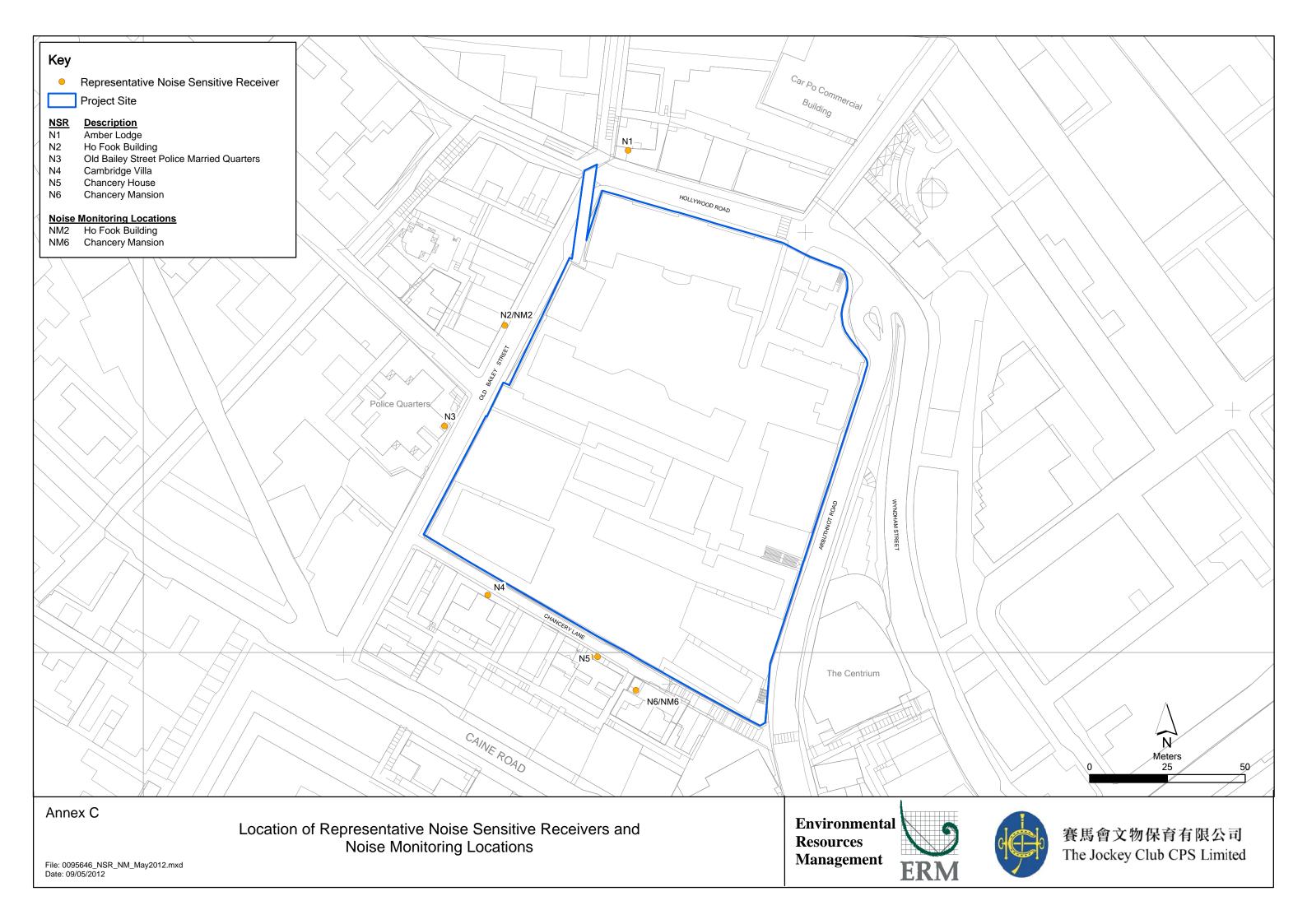
Annex B

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 - February 2017

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

Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Next Reporting Month - March 2017

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

Annex E

Calibration Reports for Calibrators and Sound Level Meters



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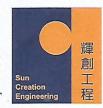
Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C166691 證書編號

Manufacturer / 製 Model No. / 型號 Serial No. / 編號 Supplied By / 委討	ž : :	(Job No. / 序引編號: IC16- Acoustic Calibrator Casella CEL-120/1 3421612 Envirotech Services Co. Room 113, 1/F, My Loft, 9 He New Territories, Hong Kong	s.	201
TEST CONDIT Temperature / 溫 Line Voltage / 電	度: (23	式條件 3 ± 2)°C	Relative Humidity / 相對濕度 : (55 =	± 20)%
TEST SPECIFIC		/測試規範		
DATE OF TEST	Г/測試日期	月 : 30 November 2016		
The results do no	to the parti of exceed ma	cular unit-under-test only. nufacturer's specification.	-	
The results are de	etailed in the	e subsequent page(s).		
The test equipme - The Governme	ent used for ent of The H ologies / Ke varz Laborat	calibration are traceable to Nati ong Kong Special Administrati ysight Technologies ory, Germany	onal Standards via : ve Region Standard & Calibration Laboratory	
The test equipme - The Governme - Agilent Techno - Rohde & Schw	ent used for ent of The H ologies / Ke varz Laborat	calibration are traceable to Nati ong Kong Special Administrati ysight Technologies ory, Germany		

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Certificate No. : C166691 證書編號

1

3

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

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C163709
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

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

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.1	± 0.25	± 0.2
114 dB, 1 kHz	114.1		

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000 0	$1 \text{ kHz} \pm 5 \text{ Hz}$	± 0.1

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

Note :

Only the original copy or the laboratory's certified true copy is valid.

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.

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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Description / 儀器 Manufacturer / 製製 Model No. / 型號 Serial No. / 編號 Supplied By / 委討	名稱 : 造商 : :	(Job No. / 序引編號: IC16-2717 Sound Level Meter Casella CEL-633A 3521757 Envirotech Services Co. Room 113, 1/F, My Loft, 9 Hoi W New Territories, Hong Kong)16
TEST CONDITIO Temperature / 溫月 Line Voltage / 電風	芰: (2	式條件 3 ± 2)°C	Relative Humidity / 相對濕度 : (55 ± 20)%
TEST SPECIFIC Calibration check	ATIONS	/ 測試規範		
DATE OF TEST	/ 測試日期	期 : 30 November 2016		ų
TEST RESULTS			-	
The results do not	exceed ma	cular unit-under-test only. anufacturer's specification. e subsequent page(s).		
- The Governmen	t of The H ogies / Ke rz Laborat	ysight Technologies tory, Germany	Standards via : gion Standard & Calibration Laboratory	
Tested By 測試	: _	H T Wong Technical Officer		
		2		



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- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration using the Casella Acoustic Calibrator CEL-120/1, S/N : 3421612 was performed before the test.
- 3. The results presented are the mean of 3 measurement at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C160077
CL281	Multifunction Acoustic Calibrator	PA160023

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

UUT Setting		Applied Value		UUT	IEC 61672 Class 1
Time	Frequency	Level	Freq.	Reading	Spec.
Weighting	Weighting	(dB)	(kHz)	(dB)	- (dB)
L _F	A	114.00	1	113.7	± 1.1

6.1.2 Linearity

UUT Setting		Applied Value		UUT
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
L _F	A	114.00	1	113.7 (Ref.)
		104.00		103.7
1		94.00		93.5

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		JUT Setting Applied Value		UUT	IEC 61672 Class 1
Time	Frequency	Level	Freq.	Reading	Spec.
Weighting	Weighting A	(dB) 114.00	(kHz)	(dB) 113.7	(dB) Ref.
L _F L _s	A	117.00	•	113.7	± 0.3

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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



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6.3 Frequency Weighting

6.3.1 A-Weighting

UUT	Setting	App	lied Value	UUT	SIEC 61672 Class 1
Time Weighting	Frequency Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)
L _F	A		63 Hz	87.4	-26.2 ± 1.5
		125 Hz	97.5	-16.1 ± 1.5	
			250 Hz	105.0	-8.6 ± 1.4
			500 Hz	110.4	-3.2 ± 1.4
			1 kHz	113.7	Ref.
			2 kHz	114.9	$+1.2 \pm 1.6$
			4 kHz	114.6	$+1.0 \pm 1.6$
			8 kHz	112.2	-1.1(+2.1;-3.1)
			12.5 kHz	108.1	-4.3(+3.0;-6.0)

6.3.2 C-Weighting

UUT	Setting	App	lied Value	UUT	IEC 61672 Class 1
Time	Frequency	Level	Freq.	Reading	Spec.
Weighting	Weighting	(dB)		(dB)	(dB)
L _F	С	94.00	63 Hz	112.8	-0.8 ± 1.5
			125 Hz	113.5	-0.2 ± 1.0
			250 Hz	113.7	0.0 ± 1.0
			500 Hz	113.7	0.0 ± 1.0
			1 kHz	113.7	Ref.
			2 kHz	113.5	-0.2 ± 1.0
			4 kHz	112.8	-0.8 ± 1.0
			8 kHz	110.4	-3.0 (+1.5 ; -3.0)
			12.5 kHz	106.2	-6.2 (+3.0 ; -6.0)

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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Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C166692 證書編號

Remarks : - UUT Microphone Model No. : CEL-251 & S/N : 1950

- Mfr's Spec. : IEC 61672 Class 1 - Uncertainties of Applied Value : 114 dB : 63 Hz - 125 Hz $: \pm 0.45 \, dB$ 250 Hz - 500 Hz : ± 0.40 dB 1 kHz : ± 0.30 dB 2 kHz - 4 kHz : ± 0.45 dB 8 kHz $: \pm 0.55 \, dB$ 12.5 kHz $: \pm 0.80 \text{ dB}$ 104 dB : 1 kHz $: \pm 0.10 \text{ dB}$ (Ref. 114 dB) 94 dB : 1 kHz $:\pm 0.10 \text{ dB}$ (Ref. 114 dB)

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

Note :

Only the original copy or the laboratory's certified true copy is valid.

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

Annex G

Summary of Implementation Status

Annex G Implementation Schedule for Environmental Protection Measures

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	
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	~
53.9.2	53.3.3	<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	\Leftrightarrow

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement. The Heritage Checker shall also attend the regular site meetings with			
		AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
S3.9.3	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	At around 10:05pm on 29 May 2016, the northwest corner of Block 4 partially collapsed. The collapsed area includes northwest corner roof, west elevation façade wall, north elevation façade wall west part, 1/F and 2/F verandah west part, 2/F

	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2		checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure. Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. One set of updated CMP shall be submitted to the AMO for approval before	Whole site	During detailed design, construction, post- construction and operation	west balcony, floor structure in room 04/5/03. Temporary propping has been undertaken to prevent further collapse. Construction works have resumed except Block 4.

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary,			
		particularly in the dry season.			
S4.7.2	S4	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 (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.			
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	Compensatory Tree Planting A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10 and T10a. The existing tree site will be enlarged to become a wide tree strip to accommodate the compensatory 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. An aggregate DBH			
		of the new trees would be 60cm, the rate of compensation is beyond the requirements The replacement trees should be planted in accordance with the requirement of the landscape proposal approved by the Planning Department.			
S4.7.2	S4	<i>Existing Granite Revetment Wall</i> The inner stone face along the southern wall of the Site shall be preserved to its original historical appearance.	Inner Southern Wall	During detailed design and construction	\checkmark
S4.7.2	-	<u>New Custom Paving</u> 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 (<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 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	1	-	1		
<i>S5.9</i>	-	The following site practices should be followed during the construction of the Project:	Whole Site	During	\checkmark

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 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; 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. 		construction	
<i>S5.9</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	N
<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	V
<i>S5.9</i>	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	1
<i>S5.9</i>	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	√
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures	Whole Site	During construction	1

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		are properly implemented during the construction stage.			
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	√
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	N
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	√
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	\checkmark
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	\checkmark
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	\checkmark
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	\checkmark
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	\checkmark
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	√ √
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	√ √

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	N
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	\checkmark
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		I		
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <i>Appendix A1</i> of <i>ProPECC PN 1/94</i> . All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	\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.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	1
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	<>

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	\checkmark
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	\checkmark
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	√
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	\checkmark
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket	Whole Site	During construction	л И

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		• Be arranged so that incompatible materials are appropriately separated.			
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	\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	√
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	\checkmark

Remark:

 $\sqrt{}$ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

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

Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd

N/A Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

Annex H Noise Monitoring Results

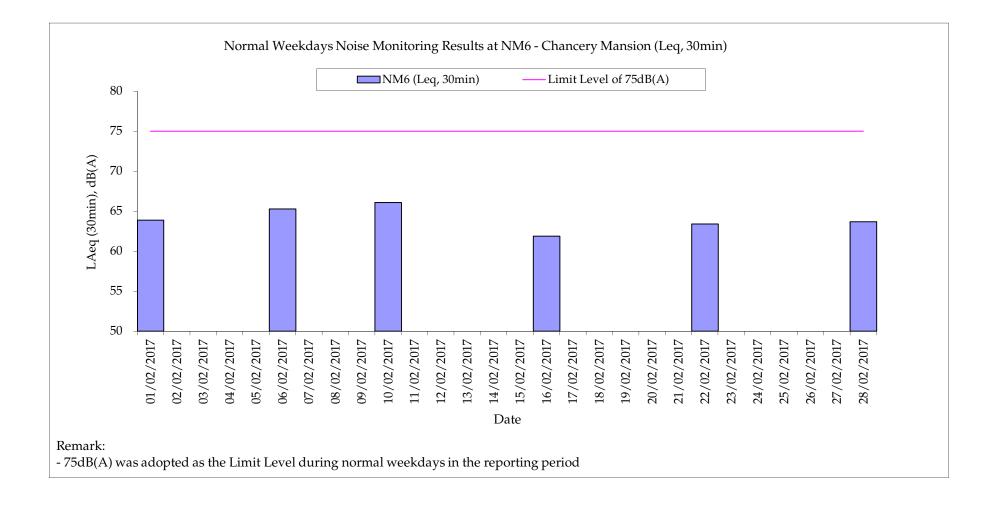
Daytime Noise Monitoring Results

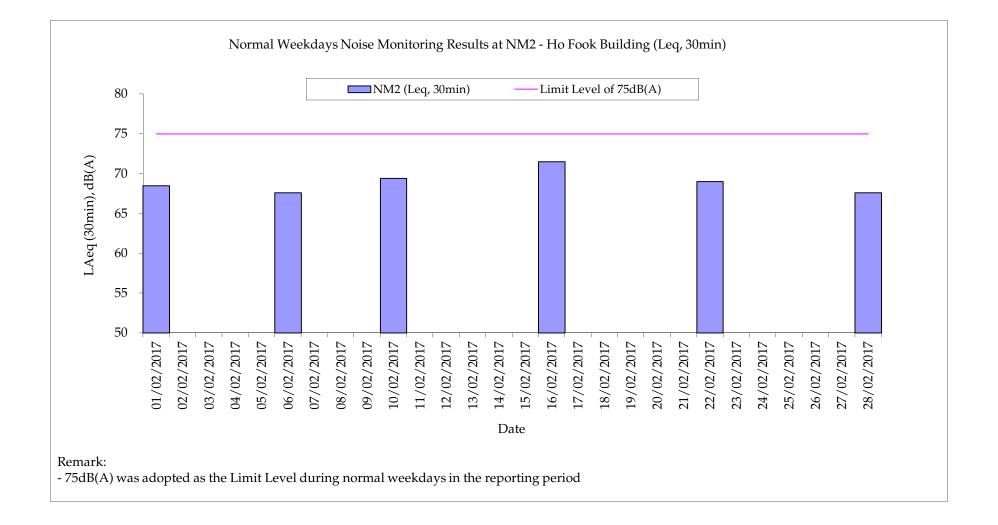
NM6 Chancery Mansion

Date	Start Time	End Time	Weather	Noise	level (dB(A)), 30 min	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				
01-Feb-17	10:28	10:58	Cloudy	63.9	65.4	62.2	Interior fitting (within the project site)	Traffic Noise	-	0.8	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
06-Feb-17	11:10	11:40	Fine	65.3	66.8	62.9	Interior fitting (within the project site)	Traffic Noise	-	0.2	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
10-Feb-17	9:13	9:43	Cloudy	66.1	67.6	63.5	Interior fitting (within the project site)	Traffic Noise	-	0.8	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
16-Feb-17	11:09	11:39	Sunny	61.9	63.3	60.6	Interior fitting (within the project site)	Traffic Noise	-	0.2	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
22-Feb-17	8:43	9:13	Cloudy	63.4	64.6	61.5	Interior fitting (within the project site)	Traffic Noise	-	0.5	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
28-Feb-17	8:48	9:18	Sunny	63.7	65.4	61.6	Interior fitting (within the project site)	Traffic Noise	-	0.3	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
			Min.	61.9								
			Max.	66.1								

NM2 Ho Fook Building

				Noise	level (dB(A)), 30 min	Major Construction Noise	Other Noise		Wind Speed	Noise Meter	Calibrator
Date	Start Time	End Time	Weather	Leq	L10	L90	Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
01-Feb-17	11:07	11:37	Cloudy	68.5	71.6	64.6	Interior fitting (within the project site)	Traffic noise	-	0.8	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
06-Feb-17	9:10	9:40	Fine	67.6	70.3	64.4	Interior fitting (within the project site)	Traffic Noise	-	0.3	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
10-Feb-17	9:51	10:21	Cloudy	69.4	71.7	66.0	Interior fitting (within the project site)	Traffic Noise	-	0.8	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
16-Feb-17	9:12	9:42	Sunny	71.5	73.5	69.6	Interior fitting (within the project site)	Traffic Noise	-	0.2	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
22-Feb-17	10:40	11:10	Cloudy	69.0	71.6	65.5	Interior fitting (within the project site)	Traffic Noise	-	0.5	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
28-Feb-17	10:45	11:15	Sunny	67.6	70.2	64.4	Interior fitting (within the project site)	Traffic Noise	-	0.3	CEL-633A (S/N 3521757)	CEL-120 (S/N 3421612)
	•		Min.	67.6							·	
			Max.	71.5								





Annex I

Construction Programme for the Project

Activity ID	Activity Description	Orig Dur	Start Date	Finish Date	Baseline Prog Rev.7	Baseline Prog Bey 7		2016				20	017					2018
	Decomption	Dui	Duic	Duic	Planned Star				FEB	MAR	APR MAY	JUN	JUL AUG	SEP	ОСТ	NOV	DEC	JAN
CENTRAL POL									- 							- 		
BLOCK 1 - POLI SB01-0010	CE HEADQUARTERS BLOCK 1 - FACADE WORK	156*	21JUL16A	23DEC16	21JUL16A	20FEB17		BLOCK 1 - FA				1				1		
SB01-0020	BLOCK 1 - FINISHES & E/M INCL TEMP SITE OFFICE				21JUL16A			BLOCK I - FA		1						1 1 1		
		243	ZIJULIOA	20101AN17	ZIJULIOA	13IVIAN17					OCK 1 - FINISHES & E/I			1		 		
BLOCK 2 - ARMO SB02-0010	OURY & STORE BLOCK 2 - FACADE WORK	26*	21007164	25NOV/16	21NOV16		Ì									 		
								BLOCK 2 - FACADE WO	1			 		I		1 		
SB02-0020	BLOCK 2 - FINISHES & E/M WORK	185^	21JUL16A	21JAN17	21JUL16A	21DEC16			OCK 2 - FI	NISHES & E	/M WORK	 				 		
BLOCK 3 - BARI SB03-0010	BLOCK 3 - FACADE WORK	174*		12MAD17	21SEP16A	01EED17			 			1				 		
										BLOC	K 3 - FACADE WORK					 		
SB03-0020	BLOCK 3 - FINISHES & E/M WORK	156^	09DEC16	13MAY17	01DEC16	05MAY17	I I		1	I	BLOC	K 3 - FINISH	IES & E/M WORK			1 		
BLOCK 6 - DORI SB06-0010	BLOCK 6 - FACADE WORK			07 14 11 7	15NOV16	10 (4)(17			 	 		 				 		
						_			6 - FACAD	1		1				 		
SB06-0020	BLOCK 6 - FINISHES & E/M WORK	228*	09AUG16A	24MAR17	09AUG16A	24FEB17				B	OCK 6 - FINISHES & E	M WORK				 		
	MITORY BLOCK D						-		1			1				1 		
SB07-0010	BLOCK 7 - FINISHES & E/M WORK	243*	09AUG16A	08APR17	09AUG16A	10MAR17			1		BLOCK 7 - FINISHE	S & E/M W	ORK	 		 		
BLOCK 8 - ABLU		0.01	0.0100.010	0005040	4.000/440	1005010	1		 	1		1				1 1		
SB08-0010	BLOCK 8 - FACADE WORK	30*			14NOV16			BLOCK 8 - FA	CADE WO	RK		1				- 		
SB08-0020	BLOCK 8 - FINISHES & E/M WORK	151*	07OCT16A	06MAR17	07OCT16A	14FEB17				BLOCK	8 - FINISHE\$ & E/M WC	RK				 		
	IRAL MAGISTRACY								 			1				 		
SB09-0010	BLOCK 9 - FACADE WORK				25AUG16A				BLOCH	K 9 - FACAD	E WORK					 		
SB09-0020	BLOCK 9 - FINISHES & E/M WORK	246*	25AUG16A	27APR17	25AUG16A	30MAR17					BLOCK 9 - F	INISHES &	E/M WORK	I		1 		
SB09-0030	BLOCK 9 - STRENGTHENING WORKS & REINSTATEMENT	208*	03MAR17	26SEP17					 					-	BLOCK 9 - S	TRENGTHE	NING WOR	KS & REIN
BLOCK 10 - SUP	PERINTENDENTS HOUSE			I					 	1		t 1						
SB10-0010	BLOCK 10 - FACADE WORK	145*	06OCT16A	27FEB17	06OCT16A	27JAN17			1	BLOCK 10	FACADE WORK	1				- 		
SB10-0020	BLOCK 10 - FINISHES & E/M WORK	230*	140CT16A	31MAY17	01NOV16	09MAY17			1			BLOCK 10	- FINISHES & E/M V	VORK		 		
BLOCK 11 - A HA	ALL			1					 	l I		 		I		I I I		
SB11-0010	BLOCK 11 - FACADE WORK	149*	07OCT16A	04MAR17	07OCT16A	04MAR17			1	BLOCK 1	1 - FACADE WORK	1				1		
SB11-0020	BLOCK 11 - FINISHES & E/M WORK	171*	24NOV16A	13MAY17	01NOV16	16MAY17	1		1	1	BLOC	K 11 - FINIS	HES & E/M WORK			- 		
SB11-0030	BLOCK 11 - STRENGTHENING WORKS & REINSTATEMENT	111*	09JAN17	29APR17	09JAN17	29APR17			1	1	BLOCK 11 -	STRENGT	HENING WORKS &	REINSTATEM	ENT	 		
BLOCK 12 - B H	ΔΙΙ								1			1 1		 		 		
SB12-0010	BLOCK 12 - FACADE WORK	185*	14JUL16A	14JAN17	14JUL16A	23JAN17		BLOC	K 12 - FAC	CADE WORK		1				- 		
SB12-0020	BLOCK 12 - FINISHES & E/M WORK	255*	14JUL16A	25MAR17	14JUL16A	27FEB17			1	B	LOCK 12 - FINISHES &	E/M WORK				I I I		
BLOCK 13 - C H	A11									<u> </u>		 		 		 		
SB13-0010	BLOCK 13 - FACADE WORK	113*	06OCT16A	26JAN17	060CT16A	16FEB17		B	LOCK 13 -	FACADE W	/ORK	1				1		
SB13-0020	BLOCK 13 - FINISHES & E/M WORK	115*	24NOV16	18MAR17	03NOV16	10MAR17				BLC	CK 13 - FINISHES & E/	M WORK				1		
BLOCK 14 - D H	A11								1			 		 		 		
SB14-0010	BLOCK 14 - FACADE WORK	174*	21SEP16A	13MAR17	21SEP16A	09MAR17			 	BLOC	K 14 - FACADE WORK	 				 		
SB14-0020	BLOCK 14 - FINISHES & E/M WORK	224*	21SEP16A	02MAY17	21SEP16A	29APR17			1		BLOCK 14	- FINISHES	S & E/M WORK			1		
	ALL													1		 		
BLOCK 15 - E H/ SB15-0010	BLOCK 15 - FACADE WORK	150*	04JUL16A	30NOV16	04JUL16A	02DEC16		BLOCK 15 - FACADE V	VORK	I I I		 				1 1 1		
SB15-0020	BLOCK 15 - FINISHES & E/M WORK		04JUL16A		04JUL16A				1	- FINIQUEQ	& E/M WORK	1				1 1 1		
										I INIGHES		 		 		 		
BLOCK 17 - F H/ SB17-0010	BLOCK 17 - FACADE WORK	170*	21JUL16A	06JAN17	21JUL16A	24DEC16			 7 - FACAE	DE MOBK		1 				r I I		
Start Date Finish Date	07JUL10 06MAR18			6L2B				CE STATION	She	eet 1 of 2				Date	GCL/P/J3 Revisi	416 /SA6/SUN	1	Approved
Data Date Run Date	24NOV16 01DEC16 18:51		gamme Rev.7 Bar		CON	SERVATIO	on and	REVITALIZATION			— 本洪安日本				1164131			
					SUMMA	ARY PRO	GRAMN	E TO COMPLETIO	N	ole	香港賽馬會 The Hong Kong							
											Jockey Club		ammon					
					(WITI	H PRORG	ESS AS	OF 24 NOV 2016)										
?Prima	vera Systems, Inc.																	

Activity ID	Activity Description	Orig	Start Date	Finish Date	Baseline Prog Rev.7	Baseline Prog Bey 7	2	016						2	017						2018
		20.	Duto	Duito		lanned Finis		DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN
SB17-0020	BLOCK 17 - FINISHES & E/M WORK	213*	21JUL16A	18FEB17	21JUL16A	18FEB17		1		BL	OCK 17 - FI	NISHES & E	/M WORK	1		 	1		 	 	
BLOCK 19 - BAI	UHINIA HOUSE		1	1				1		1			1	1		1	1		l I	1	
SB19-0010	BLOCK 19 - FINISHES & E/M WORK	103*	11NOV16A	21FEB17	28NOV16	08FEB17				B	LOCK 19 - F	INISHES &	E/M WORK	1 [] 		 	 		1 1 1	 	
BLOCK 50 OLD	BAILEY WING		I	I		1				 	 		 	 		 	 		 	 	
SB50-0010	OBW FINISHES & E/M WORK	295*	20JUN16A	10APR17	20JUN16A	07APR17						OBW F	INISHES &	E/M WORK		1	1		 	1	
BLOCK 51 ARB		I	I	I		I	 	1			1		1	1		1	1		1 1	1	
SB51-0010	AW - FINISHES & E/M WORK	256*	20JUN16A	02MAR17	20JUN16A	11FEB17					AW - FINIS	SHES & E/M	WORK	 		1	 		 	1	
EXTERNAL WO	RKS		1	1		I				1	1		1	1		1	1		1	1	
SBEW-0010	EXTERNAL WORK	466*	04JUL16A	120CT17	04JUL16A	16MAY17				1				 		1	 	EXTER	NAL WOR	K	
STATUTORY IN	SPECTIONS & HANDOVER	<u> </u>	1	1		1							 			 	 		 	 	
SBST-0010	SUBMIT BA13 & BA14	0		13MAY17		02MAY17							SUB	MIT BA13 &	BA14	1	1		 	1	
SBST-0020	BD INSPECTION	28*	14MAY17	10JUN17	03MAY17	16MAY17				 	1			BD INS	PECTION	1 	1 1 1		1 	1 	
SBST-0030	ISSUE OP & BA14 ACKNOWLEDGEMENT	0		10JUN17		16MAY17				 	 			 ISSUE	OP & BA14	4 ACKNOW	LEDGEMEN	т	1 1 1	 	
SBST-0040	HANDOVER FOR PC	27*	15MAY17	10JUN17	04MAY17	31MAY17				 	 				VER FOR F	c	 		1 1 1	1	
SBST-0050	PRACTICAL COMPLETION	0		10JUN17		31MAY17		 		 	 		 		TICAL COM	PLETION	 		 	 	
FOOTBRIDGE		1	1	1	1	1		<u> </u> 		 	<u> </u> 		<u> </u> 	►		 	<u> </u> 		<u> </u> 	 	
SBFB-0010	FOOTBRIDGE (FS Only)	450	21SEP16A	06JAN18	21SEP16A	15DEC17		- I 	1	l	1		I		1		ı	1	l	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	FOOT

Start Date	07JUL10	Early Bar	6L2B CENTRAL POLICE STATION	Sheet 2 of 2			GCL/P/J3416 /SA6/SUM	M/CP07	
Finish Date	06MAR18	BASELINE Progamme Rev.7 Bar				Date	Revision	Checked	Approved
Data Date	24NOV16				_				
Run Date	01DEC16 18:51	Progress Bar			香港賽馬會				
			SUMMARY PROGRAMME TO COMPLETION		Charles The Hong Kong				
					Jockev Club Gammon				
			(WITH PRORGESS AS OF 24 NOV 2016)						
	?Primavera Systems, Inc.								L

Activity ID	Activity Description	Dur	Start Date	Finish Date	Programme	REVISED SA Programme	% Comp	2016 OCT NOV		C JAN	FEB	MAR	APR	MAY	2017 JUN JU	JL AUG	SEP	OCT	NOV DEC	JAN		018 AR APR	3 MA'
MANAGEMEI	NT CONTRACT / ON-SITE WORKS				Start	Finish		+ • • • • • • •	1,11,1 	<u> </u>	<u> </u>	<u></u>	1 1 1 1	111	<mark></mark>	<u> </u>		<mark>, , , , , , , , , , , , , , , , , , , </mark>	<u> </u>		<mark>, I I I I, I I</mark> I I I I	• • • • • • •	<mark></mark>
SITE WORKS									i I		Ì												
Proposed Net																	1						
-	tbrdige Piling & Pile Cap										1					1	1		l l				
F2300105	Footbridge const'n - piling, ELS & pile cap	602*	05OCT15A	28MAY17	05OCT15A	21MAY17	69	- 							Footbridge c	onst'n - pili	ng, ELS 8	pile cap					
F2300125	STAGE 1 - PILING & PILE TEST	568*	05OCT15A	24APR17	05OCT15A	17APR17	73	3					S	TAGE 1	- PILING & PI	LE TEST	I I		I I		, , I I I I		i I
F2300135	STAGE 2 - PILE CAP CONSTRUCTION	40*	12APR17	21MAY17	05APR17	14MAY17	C	נ		1	1			s	TAGE 2 - PILE		STRUCTIO	N					
F2300145	STAGE 3 - ROADWORK REINSTATEMENT	7*	22MAY17	28MAY17	15MAY17	21MAY17	C	נ			ļ				STAGE 3 - RC	DADWORK	REINSTAT	FEMENT					
WP402 - Foor	rbridge Superstructure					· · · · ·			T T						1	1	I I		l I		I I I I		
F2300108	Footbridge cont'n - site access	0	29MAY17		22MAY17		C)						\wedge	Footbridge	cont'n - site	access						
F2300110	Footbridge cont'n-Pier, bridge deck&Finish/E&M	223*	29MAY17	06JAN18	22MAY17	30DEC17	C	נ	Footbr	ridge cont'n-l	Pier, bi	ridge dec	k&Finis	sh/E&M							 I I I I		l I
F2300155	Footbridge con'tn - Pier & bridge deck structure	130*	29MAY17	05OCT17	22MAY17	28SEP17	C)						_					ge con'tn - Pi	ier & bridg	e deck stru	cture	
F2300165	Footbridge cont'n - Finishes & E/M & inspection	93*	06OCT17	06JAN18	29SEP17	30DEC17	C)	1				Footb	ridge c	ont'n - Finishe	es & E/M &	inspectio	n					
Design & WP	Contractors Procurement			1		1 1		¦	T T	1	1					l l	1		I I				
F2301840	Superstruct WP - Mobilise/Lead time to commence	150	17MAR16A	28JAN17	17MAR16A	14JAN17	56	<u>ز</u>		\$u	iperstr	uct WP -	Mobilis	e/Lead	time to comm	nence	1	1					
	on & Approval		1	1	1			<u> </u>	i		į						I I						
F2301860	Superstructure	60	01DEC16*	29JAN17	01DEC16*	29JAN17	C)		Su	uperstr	ucture					1	 	 				
	- Foundation							4									1						
	lini Pile (zone A)	10	4700/4404	051001440	471101/40	001/01/40			Desetie	on nilo lood t			i nila /i	noludo	BA10 submis:	nion)	- - -		i I		 I I I I		i
F2302064C			17NOV16A				80			oad test - min	i.	up - min	i pile (il	iciude		sion	1		I I				
F2302064E		4	26NOV16	30NOV16		02DEC16	0			nove kentled	- T	ni nilo					-						
F2302066	Remove kentledge - mini pile	6	01DEC16	07DEC16		09DEC16	0				-		mini n	ilo		i i	I I		I I				I I
F2302075		11	06DEC16	16DEC16	08DEC16	18DEC16	C	·		Prepare & sub	mit te	st report	- mini p	lie			1		 				
	hear H Pile (zone B)	17	27FEB17	15MAR17	20FEB17	0914017					Ļ	Dilo I	aad taa	t eat ur	- shear H pile	a(at nile cut							
F2302062	Pile load test set up - shear H pile	17	16MAR17	16MAR17	09MAR17	08MAR17 09MAR17	0		i.					-	ar H pile	e(at pile cu							i I
F2302064	Pile load test - shear H pile	1	17MAR17	20MAR17	10MAR17		0				1				- shear H pile		1		l l				
F2302064A		3		310CT16A		13MAR17 310CT16A	100		kina sus	spended after	GEO			-			1						
F2302064F F2302064G		17	01NOV16A		01NOV16A	17NOV16	100	- <u>^</u>	10	alternative EL	1			010	1	l l	I I	 	I I		I I I I		1
F2302064G		26		09DEC16		17DEC16	100		•			Ŭ		vring (A	ssume prebor	ing can pro		currently)	 				
F2302065A		30	24NOV16	25DEC16	18NOV16*	17DEC16	40	I 📕		Resubmit E	1		-		1			can chuy,					
F2302065D		3	24NOV10 28DEC16	30DEC16	19DEC16	21DEC16	0	¦ ■	1	Inspection	-	-	-		, approvai	1	l L		l I				1
F2302065G		2	31DEC16	03JAN17	22DEC16	23DEC16	0		•					•			1						
F2302065G		2	04JAN17	05JAN17	22DEC16 24DEC16	23DEC16 28DEC16			i I		1			•	1	i I	I I		i I				
F2302065N		12	04JAN17 06JAN17	19JAN17	24DEC16 29DEC16	12JAN17		2 <u> </u>	1			Prebori				1	1	1	 				<u> </u>
F2302063N	Install planking to cap - P6 to P7 (1 No)	4	20JAN17	24JAN17	13JAN17	17JAN17						nking to	3	6 to P7	(1 No)	l l	1						
F2302007	Prepare & submit test report - shear H pile	11	17MAR17	24JAN17 27MAR17	10MAR17	20MAR17	0		i T			•	•		it test report -	shear H ni			l I				
F2302070	Prepare sheet pile as-built drawings	5	25JAN17	27MAR17 29JAN17	18JAN17	2000AR17 22JAN17	0			□ □ Pr	enare	sheet pil	•			Shear II pi	-						1
F2302140	Submit BA14 for channel planking	0	23371117	29JAN17	TOUANT	22JAN17 22JAN17	0			■ . I		BA14 for			-		-						
F2302160	Submit BA8 for ELS consent	28	30JAN17	26FEB17	23JAN17	19FEB17			1			Submit B		•		 	1	1	I		I <u>I</u>		
General		20	000/1117	ZOILDIT	200/117			, ,															
F2302080	BD acknowledgement	28	28MAR17*	24APR17	21MAR17*	17APR17	C	5	i i		i		В	D ackno	owledgement	i I	I I		i I				
F2302090	Apply pile cap consent	28	28MAR17*	24APR17	21MAR17*	17APR17	C	j l						pply pil	e cap consen	t	1		I I				
Construction			-				-				I 						 		I		<u> </u> 		
F2302095	Exc pile caps	10	21MAR17*	30MAR17	14MAR17*	23MAR17	C	נ	i I	1	Ì		xc pile	caps		i I	I I		I I		I I I I		I
F2302100	Construct pile cap	40	12APR17	21MAY17	05APR17	14MAY17	C	ī ¦			1				onstruct pile	cap							
F2302120	Backfilling of excavated area	7	22MAY17	28MAY17	15MAY17	21MAY17	C	آر آ							Backfilling of	excavated	area		i I I		, I 		-
F2302130	Erection of temporary steel decking	70	29MAY17	06AUG17	22MAY17	30JUL17	C	Ī			i					Erect	ion of tem	porary ste	el decking				1
F2302200	Pier Construction	56	12JUN17	06AUG17	05JUN17	30JUL17	C	ין ד								Pier C	Constructi	ion					
F2302300	Footbridge Structure	60	07AUG17	05OCT17	31JUL17	28SEP17	C		1 								·	Footbrid	ge Structure		, <u>I</u> 		
F2302310	Ex Central escalator modification work	45	07AUG17	20SEP17	31JUL17	13SEP17	C	ן ב			i						Ex	Central es	calator mod	ification v	ork		1
F2302400	Finishes & E&M	58	06OCT17	02DEC17	29SEP17	25NOV17	C	ן ב											Finish	nes & E&N	(assume no	needle g	unfinisl
F2302403	Curing	28	06OCT17	02NOV17	29SEP17	26OCT17	C	ן נ								1 			uring		, 1 		i I I
_		1														1	1		1				
art Date nish Date	01JUL11 16JAN18	Early		F6L2	•	-	-	OLICE STATIC	-		Sheet	1 of 2							Date R14 assume no obier	Revision	3416 /CP06A (Footbrid	ge) Checked	Approved
ata Date	24NOV16		SED SA Target Ba ess Bar	ar	-		-	ND REVITAL	-	-			-						R14 amend to account	ction from public nt for public objectio ewed	ns to Gazet	+'	
un Date	30NOV16 09:09	i iogi				F	оот	BRIDGE					Ľ					0.055	B16 revised to includ V16 revised to cater	for Zone B planking			
								AS OF 24 NO							Gar	nn	nO	17NO	V16 revised after me	eting on 17Nov201		+	\models
ODvin	navera Sveteme Inc					(WITH OBJE	CTIC	ON FROM PU	JBLIC))							_						L

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Activity	Activity	Dur	Start	Finish	REVISED SA	REVISED SA	%		2016							20)17								2018		
ID	Description		Date		Programme			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY J
					Start	Finish																					
F2302405	Dismantle of temporary steel decking	30	03NOV17	02DEC17	270CT17	25NOV17	0		i l	 		i I		Ì				i I	 			Disman	tle of ter	nporary	steel deo	cking	i
F2302410	Footpath refurbishment work	30	18NOV17	17DEC17	11NOV17	10DEC17	0		1	1				1				1	1			Foo	tpath re	furbishm	nent worl	k	1
F2302500	Statutory Inspection	35	03DEC17	06JAN18	26NOV17	30DEC17	0		i I	1		1							 				Statuto	ory Inspe	ection	I	
F2302510	Remaining roadworks at street level	30	18DEC17	16JAN18	11DEC17	09JAN18	0		1	 		i I		Ì				i I	I I		. –		Ren	naining r	oadwork	ks at stree	et level

Start Date
Finish Date
Data Date

Run Date



CENTRAL POLICE STATION CONSERVATION AND REVITALIZATION TARGET CONSTRUCTION PROGRAMME FOR FOOTBRIDGE (WITH PROGRESS AS OF 24 NOV 2016) (WITH OBJECTION FROM PUBLIC)



Date	Revision	Checked	Approved
25MAR14	assume no objection from public		
28APR14	amend to account for public objections to Gazet		
22FEB16	programme reviewed		
23FEB16	revised to include comments		
14NOV16	revised to cater for Zone B planking		
17NOV16	revised after meeting on 17Nov2016		

Annex J

Not Used

Annex K

Environmental Complaint, Environmental Summons 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

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
May 2013	0	0
June 2013	0	0
July 2013	0	0
August 2013	0	0
September 2013	0	0
October 2013	0	0
November 2013	0	0
December 2013	0	0
January 2014	2	0
February 2014	1	0
March 2014	1	0
April 2014	1	0
May 2014	0	0
June 2014	0	0
July 2014	2	0
August 2014	3	0
September 2014	2	0
October 2014	1	0
November 2014	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
December 2014	0	0
January 2015	0	0
February 2015	1	0
March 2015	1	0
April 2015	0	0
May 2015	1	0
June 2015	1	0
July 2015	1	0
August 2015	1	0
September 2015	0	0
October 2015	0	0
November 2015	0	0
December 2015	0	0
January 2016	0	0
February 2016	0	0
March 2016	1	0
April 2016	0	0
May 2016	0	0
June 2016	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
July 2016	0	0
August 2016	0	0
September 2016	1	0
October 2016	0	0
November 2016	0	0
December 2016	0	0
January 2017	0	0
February 2017	0	0
Overall Total	32	0

ENVIRONMENTAL RESOURCES MANAGEMENT

Annex L

Records of Vibration Monitoring for Other Construction Works

Structural Additions and



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10056 10056	22-3/3066/10/BLK11 (HU) (S) F.S.D. Ref No 语韵虚微繁编数
816	Revision/Submission 性改成/級批
1	No.编型 Description货币 Date 日期 Approved鉴测
	- BD_SUBMISSION (50) 12/11 JS A BD_SUBMISSION (01) 03/12 JS
1/	B BC SUBMISSION (17) 03/12 JS C BD SUBMISSION RW BATCH 1 03/12 JS
Shu King	D FOR INFROMATION (50) 03/12 JS E B0 SUBMISSION (51) 05/12 JS
Court	F BD SUBMISSION (04) 05/12 JS
	H BD SUBMISSION (14) 05/12 JS
A CARLES AND A CAR	J BO SUBMISSION RW BATCH 2 06/12 JS K BO SUBMISSION (05&07) 07/12 JS
A. 10.	L BD SUBMISSION (01)(HQ107/12 JS M BD SUBMISSION (11) 07/12 JS
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at the second	Chief Structural Engineer
572 Centre	- 3 OCT 2012
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CEAS FISHINGE MICE FIRE CONTINUES	of relevant consultants 本龍紙及其內容的版樹關有朝朝間公司所主。 - No part of the drawing and the design contained herein
1 4 ×	 No hall be reproduced without the pror written consent of relevant consultants, 未提有時期間公司資源印度。不可收製此區紙內任何
	内容或设計 - Do not take measurements directly from this drawing.
100 EXISTING FRESH WATER MAIN	切勿重误従醫統上豐度尺寸。 Check and vertily all dimensions on site 研究尺寸必须在工业现场找费及審核。
EXISTING SALT WATER MAIN	 Read this drawing in conjunction with the specifications and all other related drawings, 此關紙必須與規格投明實及其它有關團紙一件胞講。
EXISTING STREET LIGHTING NC. 33488-A1	に離兵必須以及招奴物資及共包谷副員紙一併相議。 - Notify the relevant consultants immediately of any discrepancy found berein, 如發現內容有任何謬誤之流。應立刻通知有算朝間公司。
EXISTING STREET LIGHTING CABLE	如發現內容有任何詳談之處。進立創還如有關範疇公司。 Client 聚主
250 EXISTING GAS MAIN	· · · · · · · · · · · · · · · · · · ·
EXISTING HV ELECTRICITY CABLE	The Jeckey Club CP Limited
W EXISTING LV ELECTRICITY CABLE	
HOC	
(HUTCHISON GLOBAL COMMUNICATIONS LIMITED)	
225 EXISTING STORYWATER DRAIN	Executive Architect / AP
EXISTING STORVWATER DRAN	Executive Architect / AP
225 EXISTING STORWWATER DRAIN 150 DXISTING FOUL SEWER 152 PROPOSED FOUL SEWER	ROCCO
EXISTING FOUL SEWER EXISTING FOUL SEWER PROPOSED FOUL SEWER SITE BOUNDARY	ROCCO 计争严
EXISTING STORWWATER DRAIN DRISTING FOUL SEWER PROPOSED FOUL SEWER SITE BOUNDARY	Structural Engineer / RSE ARUP Project 1/4 19
225 EXISTING STORWMATER DRAIN 100 EXISTING FOUL SEWER PROPOSED FOUL SEWER STE BOUNDARY	Structural Engineer / RSE E & M Engineer ARUP
225 EXISTING STORWWATER DRAIN 109 EXISTING FOUL SEWER 109 PROPOSED FOUL SEWER 109 STE BOUNDARY EXISTING RETAINING WALL EXISTING DRULHOLE WITH	ROCCO 近日 Structural Engineer / RSE ARUP Project 項目 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale 置名
EXISTING STORWAATER DRAIN EXISTING FOUL SEWER STE BOUNDARY EXISTING RELAINING WALL EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER	Sinuctural Engineer / FISE Sinuctural Engineer / FISE ARUP Project 408 CONSERVATION AND REVITAL ISATION PROJECT
EXISTING STORWAATER DRAIN EXISTING FOUL SEWER STE BOUNDARY EXISTING RETAINING WALL EXISTING DRILHOLE WITH SIANDRIPE/PREZOWETER PROPOSED BRALDING SETTLEMENT POINTS/TILITMETER	ROCCO 近日 Structural Engineer / RSE ARUP Project 項目 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale 置名
EXISTING STORWAATER DRAIN EXISTING FOUL SEWER DROPOSED FOUL SEWER STE BOUNDARY EXISTING RETAINING WALL EXISTING DRILIHOLE WITH SIANDPIPE/PIEZOMETER PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER PROPOSED INCLINGMETER TO BE BUILT IN	ROCCO 上子の Structural Engineer / RSE ARUD Project 沿自 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale 圖名 MONITORING LAYOUT PLAN
EXISTING STORWAATER DRAIN EXISTING FOUL SEWER DROPOSED FOUL SEWER STEE BOUNDARY EXISTING RETAINING WALL EXISTING RETAINING WALL EXISTING RETAINING WALL EXISTING ORILIHOLE WITH STANDPIPE/PIEZOWETER PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER PROPOSED INCLINIOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL	ROCCO LTS Structural Engineer / RSE ARUP Project 101 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale 1842 MONITORING LAYOUT PLAN Scale 1549 1-3009A1 K.C.Lai AL Drawing No. BIZ Proving Tale 1942 Checked 1247 1-3009A1 K.C.Lai AL Drawing No. BIZ
EXISTING STORUWATER DRAIN EXISTING FOUL SEWER DISTING FOUL SEWER STE BOUNDARY EXISTING RETARING WALL EXISTING DRILHOLE WITH STANDPIPE/PREZOWETER PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER PROPOSED RETARING WALL SETTLEMENT POINTS/TILTMETER PROPOSED RETARING WALL SETTLEMENT POINTS/TILTMETER PROPOSED INCLINIMETER TO BE BUILT IN	ROCCO LTP Structural Engineer / RSE ARUP Project 40 E CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale B & MONITORING LAYOUT PLAN Scale ESM 1:3000A1 K.C.Lai AL
EXISTING STORWAATER DRAIN EXISTING FOUL SEWER DROPOSED FOUL SEWER SITE BOUNDARY EXISTING RETAINING WALL EXISTING RETAINING WALL EXISTING RETAINING WALL EXISTING ORILIHOLE WITH SIANDPIPE/PIEZOWETER PROPOSED BRALDING SETTLEMENT POINTS/TILTMETER PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER PROPOSED INCLINIOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL	ROCCO LTS Structural Engineer / RSE ARUP Project 101 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale 1842 MONITORING LAYOUT PLAN Scale 1549 1-3009A1 K.C.Lai AL Drawing No. BIZ Proving Tale 1942 Checked 1247 1-3009A1 K.C.Lai AL Drawing No. BIZ
EXISTING STORWWATER DRAIN DASTING FOUL SEWER DASTING FOUL SEWER STE BOUNDARY EXISTING RELANING WALL EXISTING RELANING WALL EXISTING DRILLHOLE WITH SIANDPIPE/PIEZOWETER PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER PROPOSED RULLING WALL SETTLEMENT PROPOSED MULTIONE WALL SETTLEMENT PROPOSED MULTIONETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL PROPOSED GROUND SETTLEMENT POINTS	ROCCO LTS Structural Engineer / RSE ARUP Project 101 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale 1842 MONITORING LAYOUT PLAN Scale 1549 1-3009A1 K.C.Lai AL Drawing No. BIZ Proving Tale 1942 Checked 1247 1-3009A1 K.C.Lai AL Drawing No. BIZ
EXISTING STORWAATER DRAIN EXISTING FOUL SEWER DROPOSED FOUL SEWER STE BOUNDARY EXISTING RETAINING WALL EXISTING RETAINING WALL EXISTING RETAINING WALL EXISTING DRILLHOLE WITH SIANDPIPE/PIEZOWETER PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER PROPOSED RETAINING WALL SETTLEMENT PROPOSED INCLINDMETER TO BE BUILT IN BORED PILE WILL OR PIPE PILE WALL PROPOSED UNCLINDMETER TO BE BUILT IN BORED PILE WILL OR PIPE PILE WALL PROPOSED UTLITY MONITORING POINTS PROPOSED UTLITY MONITORING POINTS	ROCCO LTS Structural Engrneer / RSE ARUP Project 1019 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT Drawing Tale B4: MONITORING LAYOUT PLAN Scale 15.99 Tradical Edge Checked 15.19 Tradical Edge Checked 15.19 Checked 15.19 Checke

Vibration Monitoring Record (February 2017)

	Blo	ck 11
Point	VM11-1	VM11-2
Date	mm/s	mm/s
01-Feb-17	Site Close	
02-Feb-17	Site Close	
03-Feb-17	0.076	0.108
04-Feb-17	0.082	0.087
05-Feb-17	Su	nday
06-Feb-17	0.097	0.108
07-Feb-17	0.089	0.111
08-Feb-17	0.085	0.104
09-Feb-17	0.090	0.101
10-Feb-17	0.081	0.106
11-Feb-17	0.075	0.103
12-Feb-17	Su	nday
13-Feb-17	0.097	0.105
14-Feb-17	0.100	0.107
15-Feb-17	0.108	0.102
16-Feb-17	0.103	0.100
17-Feb-17	0.099	0.105
18-Feb-17	0.124	0.101
19-Feb-17	Su	nday
20-Feb-17	0.108	0.108
21-Feb-17	0.116	0.104
22-Feb-17	0.104	0.101
23-Feb-17	0.128	0.109
24-Feb-17	0.114	0.103
25-Feb-17	0.103	0.118
26-Feb-17	Su	nday
27-Feb-17	0.105	0.110
28-Feb-17	0.101	0.102