

Antiquities and Monuments Office

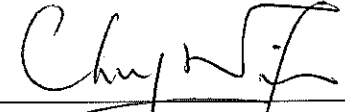
Quotation Ref.: AMO1008008

**Consultancy for Environmental Monitoring on the
Major Restoration of the Residence of Ip Ting-Sz,
Lin Ma Hang Tsuen, Sha Tau Kok**

Monthly Environmental Monitoring and Audit Report

Feb 2011

(Version 1.0)

Approved By	 Dr. Priscilla Choy (Independent Checker)
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REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

Cinotech accepts no responsibility for changes made to this report by third parties

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1. INTRODUCTION

Background

- 1.1 Cinotech Consultant Limited (CINOTECH) was commissioned by Antiquities and Monuments Office (AMO) to undertake environmental monitoring and audit for the project “Provision of Consultancy for Environmental Monitoring on the Major Restoration to the Residence of Ip Ting-Sz, Lin Ma Hang Tsuen, Sha Tau Kok” (hereinafter called the “the Project”).
- 1.2 The residence of Ip Ting-sz (hereinafter called “the Residence”) is located at Lin Ma Hang Tsuen, Sha Tau Kok, New Territories, within the Closed Area. It was declared as a Monument in November 2009.
- 1.3 Major restoration works will be carried out to the Residence which include the complete reconstruction of roof, internal and external redecorations (Location plan showing the project area and work boundary is at **Appendix A**).
- 1.4 There is a small brick-built Annex attached to the Residence, which was used as a kitchen, it is not within the declared monument boundary. Emergency repair was carried out in 2005 to reconstruct the roof at the Annex and covered it with corrugated sheets, minimum repair works will be carried out to the Annex, as part of this major renovation project.
- 1.5 A Project Profile was prepared on August 2010 for direct application of Environmental Permit (EP).
- 1.6 An Environmental Permit (EP) (No. EP-400/2010) was issued on 29 September 2010 for Antiquities and Monuments Office, Leisure and Cultural Services Department as the Permit Holder.
- 1.7 Onsite environmental monitoring and audit will be carried out to ensure the proposed mitigation measures in the Project Profile are properly implemented throughout all phases of the project as required in the EP Section 2.8. A table of summary of mitigation measures is included in Appendix VI of the Project Profile.
- 1.8 Environmental monitoring and audit works for the Project was commenced on 1 December 2010.
- 1.9 This is monthly EM&A Report summarizing the EM&A works for the Project in February 2011.

Project Organizations

- 1.10 Different parties with different levels of involvement in the project organization include:
- Project Proponent–Antiquities and Monuments Office (AMO)
 - Contractor – Kin Ming Construction Co. Ltd. (KM).
 - Independent Checker (IC) – Cinotech Consultants Limited (Cinotech).
- 1.11 The key contacts of the Project are shown in **Table 1.1** and the organization chart of ET is shown in **Figure 1**.

Table 1.1 Key Project Contacts

Party	Name	Role	Phone No.	Fax No.
AMO	Ms. Candy Chan	Senior Heritage Officer	3910 6608	3691 8185
	Mr. Lau Wing Kit	Heritage Officer	3910 6632	
	Ms. Sophia Mak	Heritage Officer	3910 6636	
KM	Mr. Bryan Leung	Project Manager	6332 9423	2807 1949
	Mr. Lawrence Au	Project Coordinator	6056 5173	
Cinotech	Dr. Priscilla Choy	Project Director	2151 2089	3107 1388
	Ms. Betty Choi	Project Coordinator	2151 2072	

Construction Programme

- 1.12 The construction activities undertaken in the reporting month were:
- Replaced all purlins and battens on the roof of the main building
 - Taken down all the defective purlins from the floor on the upper level of the main building
 - Taken down all the pan tiles and the roll tiles on the roof of the kitchen annex

Summary of EM&A Requirement

- 1.13 On-site environmental monitoring and audit will be carried out to ensure the proposed mitigation measures listed in the Project Profile are properly implemented throughout all phases of the project.

2. ENVIRONMENTAL SITE AUDIT

- 2.1 Environmental site audits were carried out on biweekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. As the Kitchen Annex was under renovation starting from January, the site audit frequency was adjusted to weekly basis as required in Section 5.7.1 (iv) of the Project Profile.
- 2.2 Site audits for the Project in the reporting month were conducted on 2, 9, 16 and 23 February 2011. No non-compliance was observed during the site audits.
- 2.3 Site inspections were undertaken to ensure and check the compliance with the EP and that the implementation and maintenance of noise, air quality, solid waste, water quality and ecology mitigation measures are being properly carried out in the reporting month in accordance to section 5.3, 5.4, 5.5, 5.6 and 5.7 of the Project Profile respectively. No non-compliance was observed during the site inspections.
- 2.4 In accordance with to Condition 2.3 of the EP, bat surveys were conducted on 19 November and 1 December 2010. No more bat was found in the Kitchen Annex of the Residence on the second visit.
- 2.5 Approval from EPD was received on 14 December 2010 for commencement of construction works in the Residence and the work shall be carried out from November to March inclusive when bats were absent.
- 2.6 Renovation work was commenced from 14 December 2010.
- 2.7 A sample of site inspection checklist can be found in **Appendix B**. The summaries of site audits are attached in **Appendix C**.
- 2.8 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 2.1**.

Table 2.1 Observations and Recommendations of Site Audits

Parameters	Date (Ref. No.)	Observations	Remediation/ Follow up
Water Quality	02-02-11 (110202-R-1)	Chemical leakage was observed.	The situation was improved/rectified on 09-02-11.
	02-02-11 (110202-R-2)	Debris and spoil on site were left on site without being covered up.	The situation was observed outstanding and remarked as item 100209-R-1 on 09-02-10.
	09-02-11 (110209-R-1)	Debris and spoil on site were left on site without being covered up.	The situation was improved/rectified on 16-02-11.

Parameters	Date (Ref. No.)	Observations	Remediation/ Follow up
	16-02-11 (110216-R-1)	Cutting of timber was observed.	The situation was improved/rectified on 23-02-11.
	23-02-11 (110223-R-1)	Debris and spoil were left outside of the site and not covered up or disposed of.	The situation will be followed up during coming audit sessions.
Waste/ Chemical Management	02-02-11 (110202-R-3)	Opened chemicals were placed on the floor only.	The situation was observed outstanding and remarked as item 100209-R-2 on 09-02-10.
Waste/ Chemical Management	09-02-11 (110209-R-2)	Opened chemicals were placed on the floor only.	The situation was observed outstanding and remarked as item 100216-R-2 on 16-02-10.
Waste/ Chemical Management	16-02-11 (110216-R-2)	Opened chemicals were placed on the floor only.	The situation was improved/rectified on 23-02-11.

Status of Environmental Licensing and Permitting

2.9 Environmental license or permit obtained in the reporting month is shown in **Table 2.2**.

Table 2.2 Environmental License or Permit Obtained in Reporting Month

Type of License/ Permit	Number	Valid Period		Detail	Status
		From	To		
EP	EP-400/20 10	29/9/2010	N/A	Location: Lin Ma Hang Tsuen, Sha Tau Kok	Valid
Section 6 Permit of the AMO (Cap.53)	LCS AM 51/2/11	9/11/2010	31/12/2011	Name of Permit Holder: Chief Heritage Manager of AMO Name of the Monument: Residence of Ip Ting-sz Address : Lin Ma Hang, Sha Tau Kok, New Territories	Valid

Status of Waste Management

2.10 According to the contractor, wastes generated from taking down of defected purlins, pan tiles and roll tiles were collected by local villagers.

Implementation Status of Environmental Mitigation Measures

- 2.11 According to the Environmental Permit Section 2.9, the mitigation measures detailed in the documents are required to be implemented. Details of Implementation Status of Environmental Mitigation Measures are provided in **Appendix D**.

Summary of Complaints and Prosecutions

- 2.12 No environmental complaint and prosecution related to the Project works was received

3. FUTURE KEY ISSUES

Key Issues for the Coming Month

3.1 Key environmental issues in the coming month include:

- Use of chemicals during replace, repair and redecoration of walls, tiles and cleaning of furniture
- Generation of wastes and dust during carpentry work
- Storage of chemicals/fuel and chemical waste/waste oil on-site;
- Ponding water and surface runoff generated on rainy days;
- Silty surface runoff generated from the site area during rainy weather;
- Generation of dust from stockpiles of dusty materials and loading and unloading dusty materials on-site; and
- Noise from operation of equipment on-site

Construction Programme for the Next Month

3.2 The tentative construction program for the Project is shown in **Appendix E**.

Monitoring Schedule for the Next Month

3.3 The tentative environmental monitoring schedule for coming month for the Project is provided in **Appendix F**.

4. CONCLUSION

- 4.1 Four environmental site audits were performed in February 2011. No non-compliance was observed during the site audits.
- 4.2 No environmental complaint and prosecution related to the project was received in the reporting month.

Recommendation

- 4.3 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality

- Temporary stockpiles of excavated material and sand shall be covered by tarpaulin or packed in plastic bags/enclosed skips and shall be removed off-site within 2 days.
- To implement dust suppression measures on all stockpiles and dried/unpaved surfaces and excavation.

Noise Impact

- To use only hand-held power tools
- To provide adequate lubricant on mechanical equipments to reduce frictional noise; and
- To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance

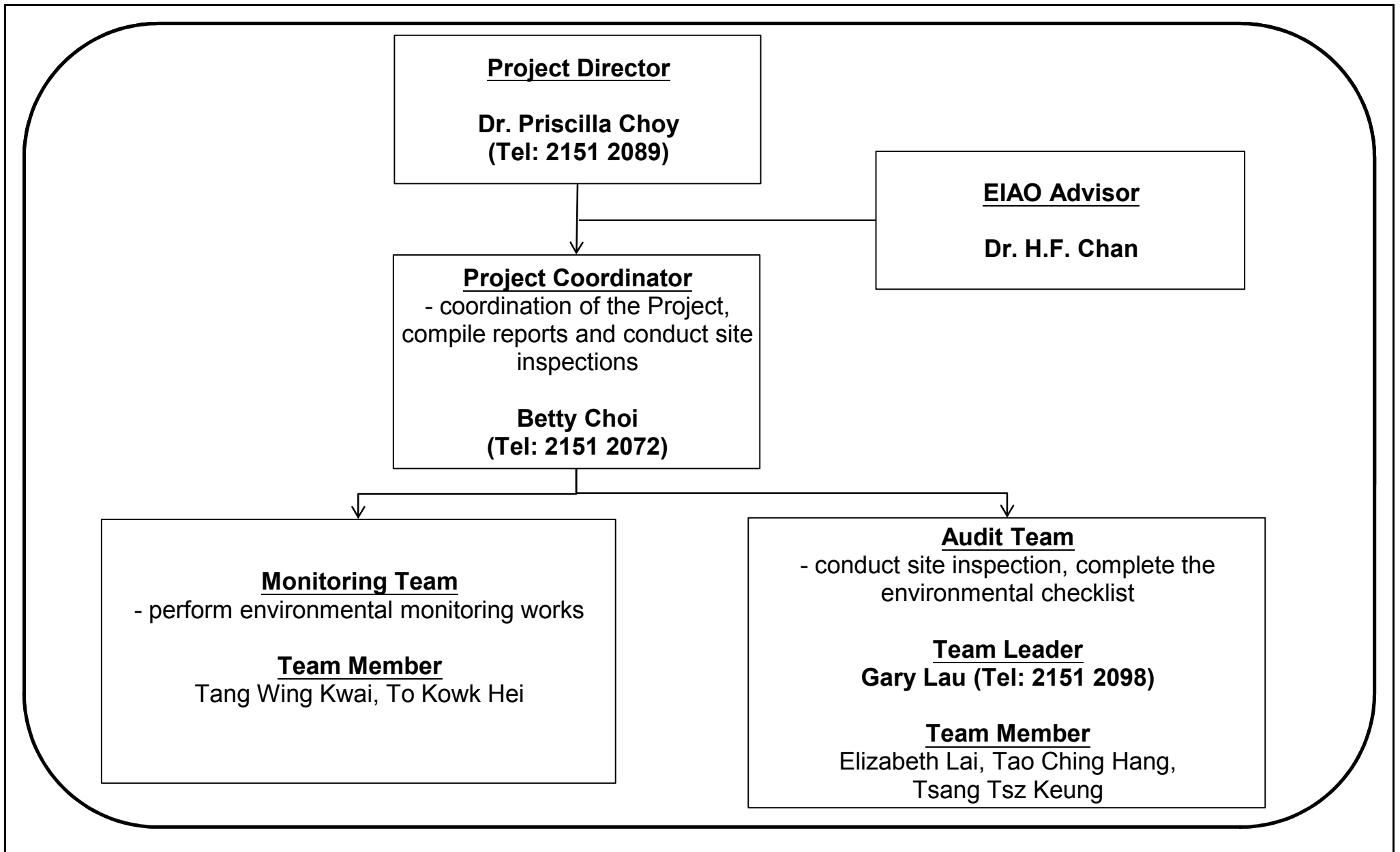
Water Impact

- To identify any discharge of wastewater from the construction site;
- To avoid any discharge of wastewater by-pass/ without the desilting facilities from the construction site; and
- Any loose materials, sand, salvage, builders rubbish, etc, acrossing the bridge must be first carefully wrapped up in heavy duty PVC sheeting
- To avoid water from accumulation on site and carry out larviciding against mosquito breeding for stagnant water when mosquito larvae are observed.

Waste/Chemical Management

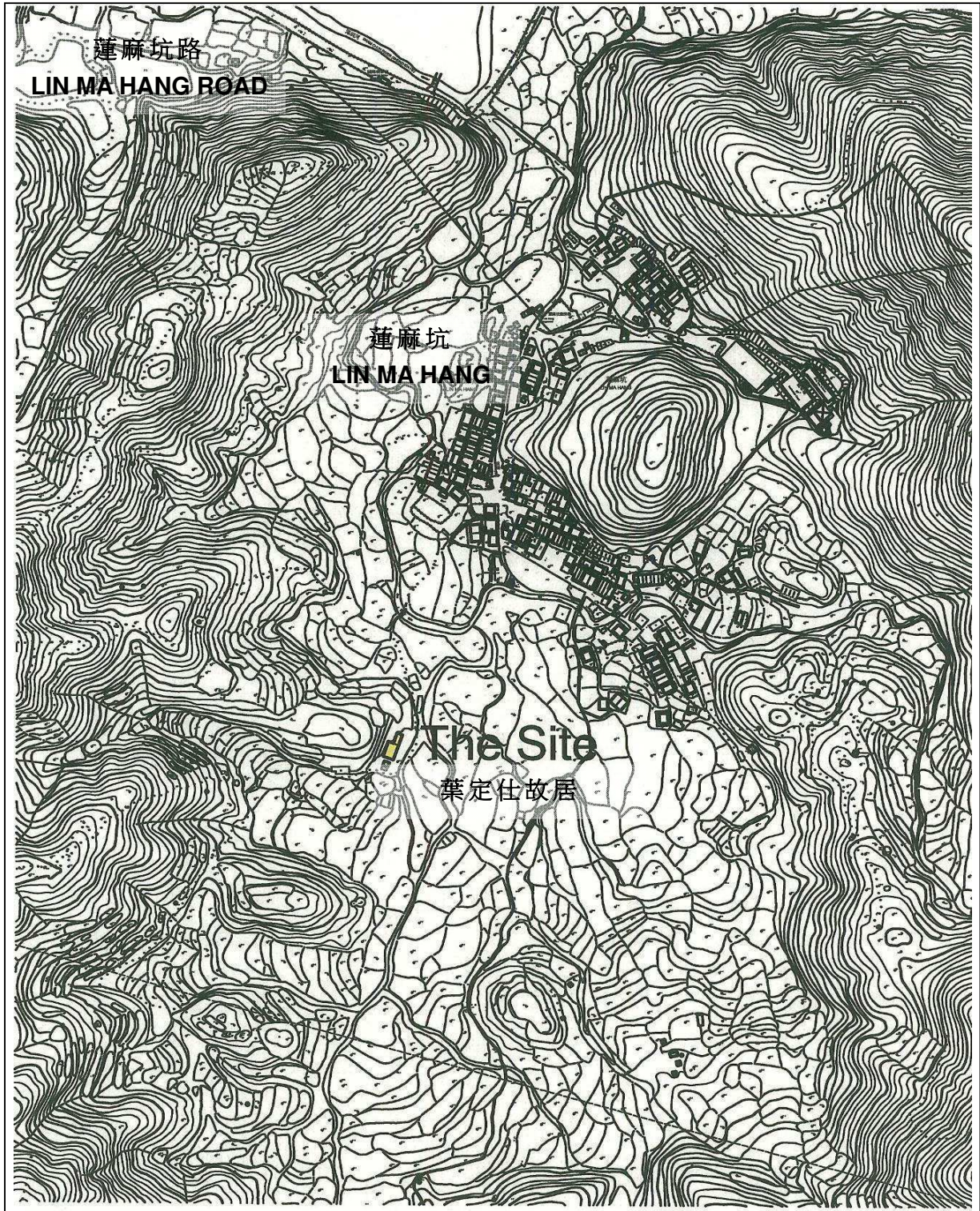
- To check for any accumulation of wasted materials or rubbish on site;
- To provide proper storage area or drip trays for oil containers/ equipments on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment;
- To well maintain the equipments and drip trays to avoid oil leakage; and

**FIGURE 1
ORGANIZATION CHART OF
ENVIRONMENTAL TEAM**



Title	Provision of Consultancy for Environmental Monitoring on the Major Restoration to the Residence of Ip Ting-sz, Lin Ma Hang Tsuen, Sha Tau Kok		Scale	N.T.S	Project No.	MA0060	CINOTECH
	Organization Chart		Date	Nov-10	Figure	1	

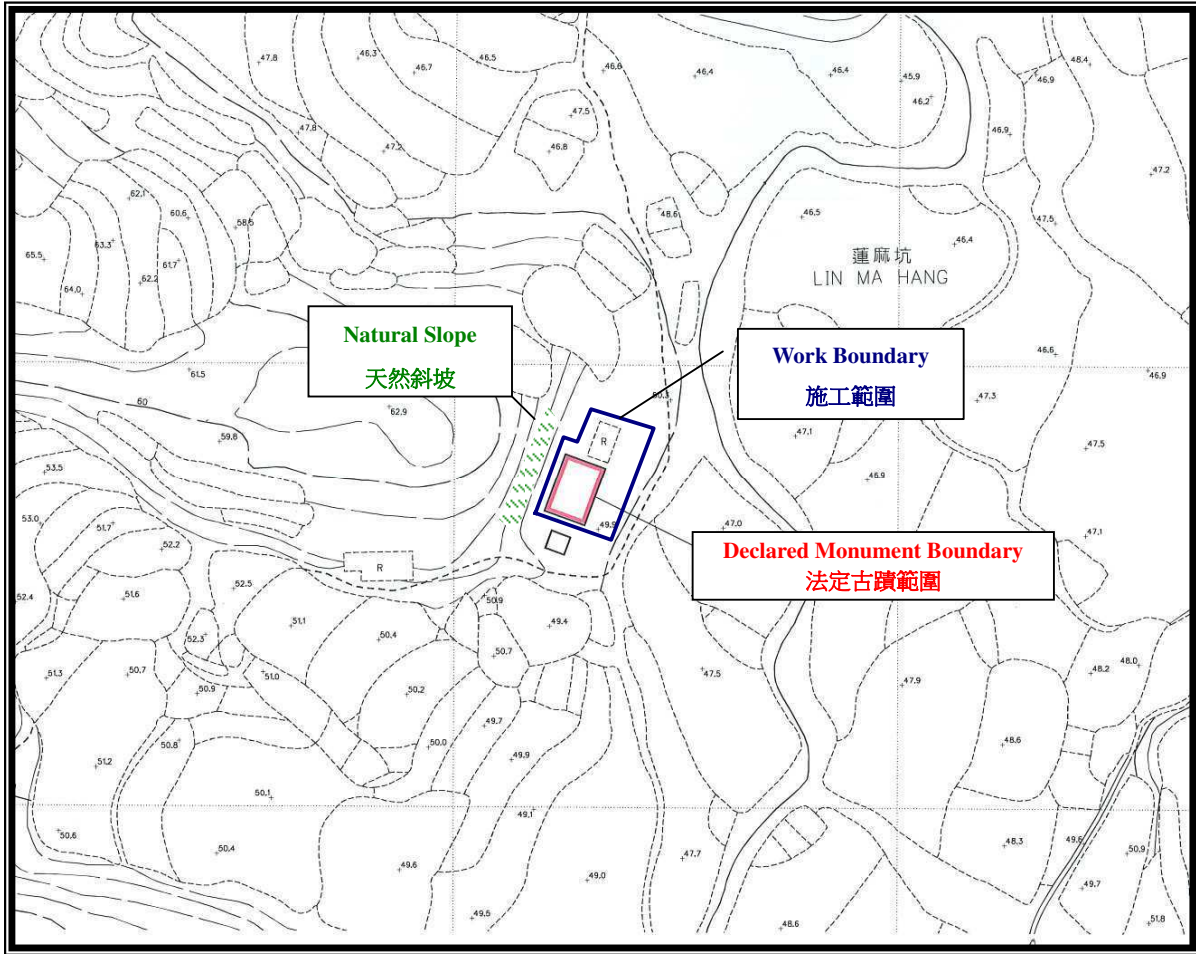
**APPENDIX A
LOCATION PLANS & WORK
BOUNDARY OF THE PROJECT**



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Scale 1:5000

Location Plan
位置圖



只作識別用 FOR IDENTIFICATION PURPOSE ONLY

Work Boundary of the Project 施工範圍

**APPENDIX B
SITE INSPECTION CHECKLIST**

Environmental Monitoring and Audit Site Inspection Checklist

Audit Ref. No. _____

Project <u>AMO1008008</u> <u>Provision of Consultancy for Environmental Monitoring</u> <u>on the Major Restoration to the Residence of Ip Ting-sz,</u> <u>Lin Ma Hang Tsuen, Sha Tau Kok</u>	Env. Team <u>Cinotech Consultants Ltd.</u> Employer <u>AMO</u> Contractor <u>Kin Ming Construction Co. Ltd.</u>
Inspected By <u>ET Auditor:</u> <u>Contractor:</u> <u>Employer Rep:</u>	Inspection Date _____ Time Period _____

Weather Condition

Condition Sunny Fine Overcast Drizzle Rain Storm Hazy
Temperature °C
Humidity High (RH>90%) Moderate (90%>RH>60%) Low (RH<60%)
Wind Calm Light Breeze Strong

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
Part A Water Quality							
Bridge							
1.	Is the surface of the bridge overlaid with plywood sheets of minimum 25mm thick with flexible/elastic underlay (rubber, plastic, etc.), of minimum 20mm thick in-between?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	Are the joints between the sheets taped together by heavy-duty duct tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	Is an upskirt of minimum 150mm high provided on both sides of the plywood sheets?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Are all cutting of the materials undertaken off site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Site							
5.	Is concrete mixing activities observed on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Is the waste water properly collected and stored in plastic tanks and filtered before discharging to drainage system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	Is the stored waste water taken by hand trolley to the nearest drainage point?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	Are the construction materials stockpiled, properly covered and located away from the stream?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	Is the distance between the hoarding and the stream maximised?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	Are sand bags placed along the edge of the hoardings to prevent discharge of waste water to the stream?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
11.	Is waste water/ chemical leakage or spillage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
12.	Is ponding/stand water avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
13.	Are debris and spoil on site covered up and/or properly disposed as soon as possible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Monitoring and Audit Site Inspection Checklist

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
Part B Construction Noise Impact						
1. Are hand-held power tools and hand-held manual tools used in this project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is silenced equipment used where practicable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Is the existing roof demolished by hand-held manual tools only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Is heavy power-operated machinery applied on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Is construction work stopped from 6pm to 8am and any time on Sundays and general holidays?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Are all plant and equipment well maintained and in good operating condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8. Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9. Major noise source(s)	<input type="checkbox"/> Traffic	<input type="checkbox"/> Construction activities inside of site				
	<input type="checkbox"/> Construction activities outside of site	<input type="checkbox"/> Others _____				

Part C Air Quality						
1. Are all trucks loaded to a level within the side and tail boards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is hoarding / fencing for designated area being erected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. Is the reconstruction of roof and brickwork repairs carried out by using either handheld power tools or hand-held manual tools only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Is free falling of debris during removal and dismantlement of the roof prevented?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Is debris carried in baskets or similar containers from the roof to ground level for disposal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Is the floor regularly dampened with clean water to avoid spread of dust during the hacking-up of and removing of existing floor finishing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Is the debris sprayed with clean water so that it remains damp before it is carted away?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8. Is water continuously sprayed on the surface where any drilling, cutting or other small-scale breaking operation is carried out by using hand-held power tools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9. Observable dust sources	<input type="checkbox"/> Wind erosion	<input type="checkbox"/> Vehicle/equipment movements				
	<input type="checkbox"/> Loading/unloading of materials	<input type="checkbox"/> Others _____				

Environmental Monitoring and Audit Site Inspection Checklist

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
Part D	Ecology						
1.	Does the construction work commence after confirming that no bat is found in the Residence?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	Is the repairing work scheduled in dry season (November to March inclusive)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	Is renovation work mainly taken place in the Residence?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Is minimum repairing work at the Kitchen Annex restricted to repairing, patching and cleaning on the external wall and the replacement of the corrugated roof with tiles only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	Is the existing purlin in the Kitchen Annex affected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Are the corrugated sheets at the roof in the Kitchen Annex replaced by Chinese tiles?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	Are visitors prohibited from entering the annex?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	Is bat-friendly gate installed in the Kitchen Annex before operation phase?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	Is bat-friendly gate installed according to the specified design?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	Has the furniture in the Kitchen Annex been removed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
11.	Is the woodland behind the Residence impacted by the project (e.g. unauthorized felling and damaging)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
12.	Is the stream impacted by the project (e.g. deterioration of water quality)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
13.	Is pruning of the two Cinnamomum camphora behind the Main Building kept minimal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Part E	Waste/Chemical Management						
1.	General refuse						
1 i.	Accumulation avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1 ii.	Receptacles (e.g. rubbish bins) available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1 iii.	Disposed of regularly and properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2 i.	Are building materials re-used or repaired in the Residence as far as possible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2 ii.	Disposed off properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	Is foam, oil, grease, litter or other objectionable matters in water of nearby drain/sewer avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	Are all plant and equipment well maintained to avoid chemical/fuel leakage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	Are drip trays provided with adequate capacity and maintained well?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	Are loose materials, sand, salvage, builders rubbish, etc., that needs to be transported across the bridge, first carefully wrapped up in heavy duty PVC sheeting?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	Are all the unwanted construction and demolition waste transported to statutory landfill sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Monitoring and Audit Site Inspection Checklist

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
9. Are waste termiticide returned to its container and to be taken back to the contractor's workshop for filtering and future reuse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10. Are spent chemicals from any waste termiticide and normal domestic detergent handled, stored and disposed of correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
11. Are construction debris and spoil covered up and/ or properly disposed of as soon as possible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Part F Permits/Licences

1. Is Environmental Permit displayed conspicuously on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is the Section 6 Permit of the Antiquities and Monuments Ordinance (Cap. 53) available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Part G Follow-up for the Previous Site Audit (Ref. No. _____)

1. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
11. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
12. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
13. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
14. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
15. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

**Environmental Monitoring and Audit
Site Inspection Checklist**

N/A or not observed Yes No Follow-up N/C Remarks

Remarks/Observations

Signatures:

ET Auditor

Employer Representative

Contractor's Representative

(Name:)
(Date:)

(Name:)
(Date:)

(Name:)
(Date:)

APPENDIX C
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary

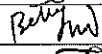

Inspection Information

Checklist Reference Number	110202
Date	2 February 2011 (Wednesday)
Time	10:30–11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
110202-R-1	• Chemical leakage was observed.	A11
110202-R-2	• Debris and spoil on site were left on site without being covered up.	A13
	B. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Ecology	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
110202-R-3	• Opened chemicals were placed on the floor only.	E5
	F. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	G. Others	
	• Follow-up from previous site inspection (s) (Ref. no.: 110126): Environmental deficiencies 110126-R-2 & 110126-R-3 were not improved/rectified by the contractor. They were remarked as 110202-R-2 & 110202-R-3 in this site inspection respectively.	

Weekly Site Inspection Record Summary

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	A. Water Quality	
110202-R-1	• Leakage should be avoided.	A11
110202-R-2	• Debris and spoil on site should be disposed or covered up.	A13
	B. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Ecology	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
110202-R-3	• Chemicals should be placed on drip tray.	E5
	F. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	G. Others	
	• Follow-up from previous site inspection (s) (Ref. no.: 110126): Environmental deficiencies 110126-R-2 & 110126-R-3 were not improved/rectified by the contractor. They were remarked as 110202-R-2 & 110202-R-3 in this site inspection respectively.	

	Name	Signature	Date
Recorded by	Betty Choi		02-02-2011
Checked by	Dr. Priscilla Choy		2/2/11

Weekly Site Inspection Record Summary

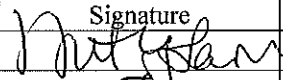

Inspection Information

Checklist Reference Number	110209
Date	9 February 2011 (Wednesday)
Time	10:30– 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
110209-R-1	• Debris and spoil on site were left on site without being covered up.	A13
	B. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Ecology	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
110209-R-2	• Opened chemicals were placed on the floor only.	E5
	F. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	G. Others	
	• Follow-up from previous site inspection (s) (Ref. no.: 110202): Environmental deficiencies 110202-R-2 & 110202-R-3 were not improved/rectified by the contractor. They were remarked as 110209-R-1 & 110209-R-2 in this site inspection respectively.	

Weekly Site Inspection Record Summary

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	A. Water Quality	
110209-R-1	<ul style="list-style-type: none"> Debris and spoil on site should be disposed or covered up. 	A13
	B. Construction Noise Impact	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	C. Air Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
110209-R-2	<ul style="list-style-type: none"> Chemicals should be placed on drip tray. 	E5
	F. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Others	
	<ul style="list-style-type: none"> Follow-up from previous site inspection (s) (Ref. no.: 110202): Environmental deficiencies 110202-R-2 & 110202-R-3 were not improved/rectified by the contractor. They were remarked as 110209-R-1 & 110209-R-2 in this site inspection respectively. 	

	Name	Signature	Date
Recorded by	Elizabeth Lam		9 Feb 2011.
Checked by	Dr. Priscilla Choy		9/2/11

Weekly Site Inspection Record Summary



Inspection Information

Checklist Reference Number	110216
Date	16 February 2011 (Wednesday)
Time	10:30- 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
110216-R-1	<ul style="list-style-type: none"> Cutting of timber was observed. 	A4
	B. Construction Noise Impact	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	C. Air Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
110216-R-2	<ul style="list-style-type: none"> Opened chemicals were placed on the floor only. 	E5
	F. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Others	
	<ul style="list-style-type: none"> Follow-up from previous site inspection (s) (Ref. no.: 110209): Environmental deficiency 110209-R-2 was not improved/rectified by the contractor. It was remarked as 110216-R-2 in this site inspection. 	

Weekly Site Inspection Record Summary

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	A. Water Quality	
110216-R-1	<ul style="list-style-type: none"> All cutting of materials should be taken off site. 	A4
	B. Construction Noise Impact	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	C. Air Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
110216-R-2	<ul style="list-style-type: none"> Drip tray should be provided to store chemicals. 	E5
	F. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Others	
	<ul style="list-style-type: none"> Follow-up from previous site inspection (s) (Ref. no.: 110209): Environmental deficiency 110209-R-2 was not improved/rectified by the contractor. It was remarked as 110216-R-2 in this site inspection. 	

	Name	Signature	Date
Recorded by	Betty Choi		16-2-2011
Checked by	Dr. Priscilla Choy		16/2/11

Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	110223
Date	23 February 2011 (Wednesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality	
110223-R-1	• Debris and spoil were left outside of the site and not covered up or disposed of.	A13
	B. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Ecology	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	G. Others	
	• Follow-up from previous site inspection (s) (Ref. no.: 110216): All environmental deficiencies were improved/rectified by the contractor.	

Weekly Site Inspection Record Summary

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	A. Water Quality	
110223-R-1	<ul style="list-style-type: none"> Debris and spoil should be covered up and/or properly disposed of as soon as possible. 	A13
	B. Construction Noise Impact	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	C. Air Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	F. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Others	
	<ul style="list-style-type: none"> Follow-up from previous site inspection (s) (Ref. no.: 110216): All environmental deficiencies were improved/rectified by the contractor. 	

	Name	Signature	Date
Recorded by	Betty Choi	<i>Betty Choi</i>	23-02-2011
Checked by	Dr. Priscilla Choy	<i>[Signature]</i>	23/2/11

**APPENDIX D
IMPLEMENTATION STATUS OF
ENVIRONMENTAL MITIGATION
MEASURES**

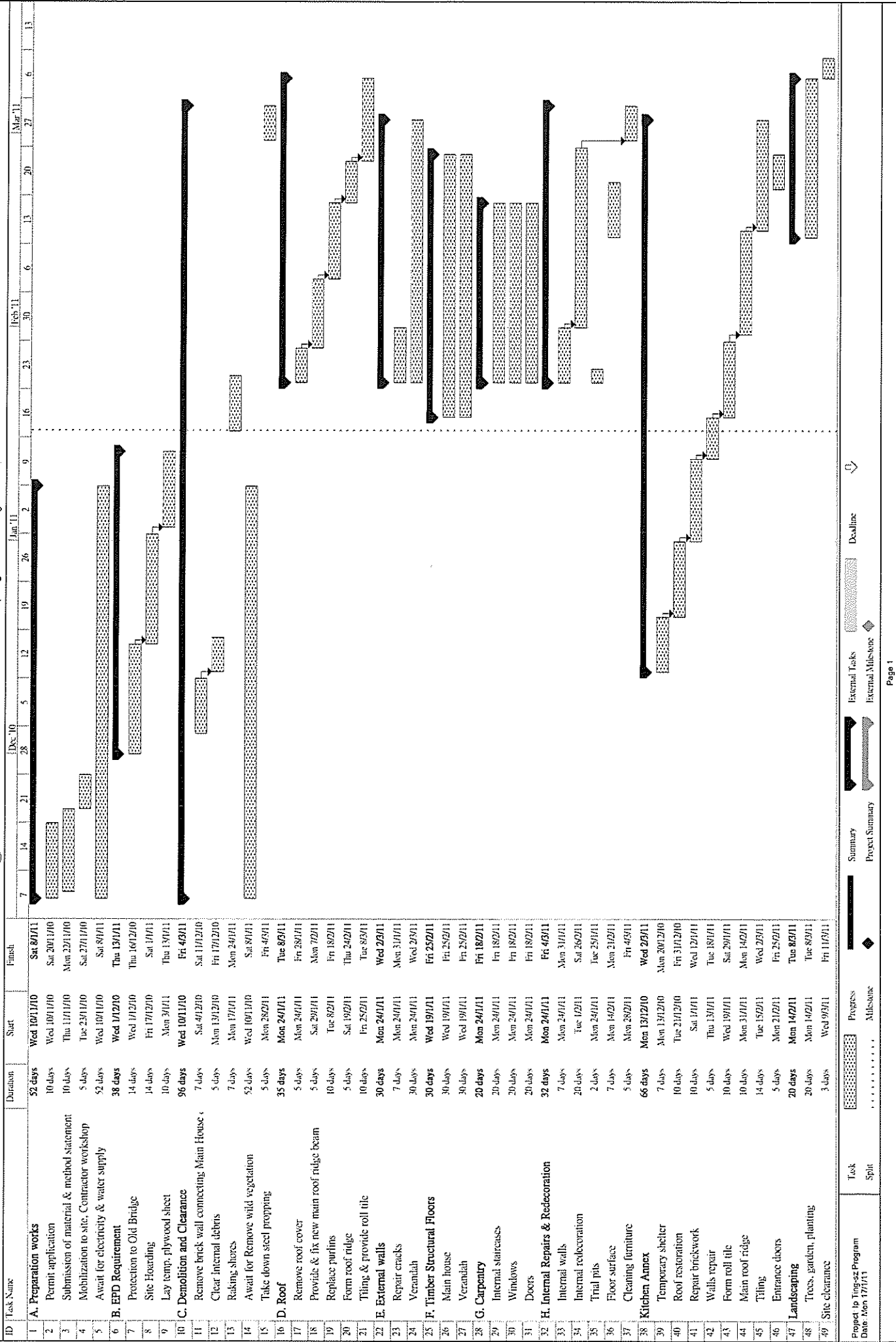
Appendix D - Environmental Mitigation Implementation Schedule (EMIS)

Types of Impacts	Mitigation Measures	Status
5.2.3	Overlay plywood sheets with flexible/elastic underlay as a temporary protection to the Old Bridge	V
5.3.1	Use of hand-held tools	V
5.3.2	Implement noise mitigation measures (e.g. use quieter tools)	V
5.3.3	No works will be carried out during 6 p.m. to 8 a.m. and any time on Sundays and General Holidays	V
5.4.1 (i)	Use basket and the like to carry debris from the roof to ground level for disposal	N/A
5.4.1 (ii)	Regularly dampen the floor	N/A
5.4.1 (iii)	Water spray	N/A
5.5.1	Construction and demolition material would transport to the landfill site	N/A
5.5.1	Any loose materials, sand, salvage, builders rubbish, etc , acrossing the bridge must be first carefully wrapped up in heavy duty PVC sheeting	N/A
5.6.1	Waste water would be stored and filtered before discharge into drains	N/A
5.6.1	Placing sand bags along the edge of the hoardings	V
5.6.1	Maximise the distance between the hoarding and the stream	V
5.6.2	Stockpiling of construction materials will be minimised and properly covered and located away from the SSSI Stream	V
5.6.2	Construction debris and spoil will be covered up and/ or properly disposed of as soon as possible	#
5.7.1 (i)	Renovation works mainly within the Residence	V
5.7.1 (ii)	The proposed works will be scheduled during dry season when bats leave the Residence for hibernation	V
5.7.1 (iii) and (iv)	Maintain the roosting site for bat at the Kitchen Annex	N/A
5.7.1 (iv)	Minimum repairing works in the Kitchen Annex	V
5.7.1 (vi)	Do not put any furniture inside the annex block	V
5.7.1 (vi)	Visitors are prohibited from entering the annex	N/A
5.7.1 (vii)	Provide the opening at Kitchen Annex with a bat-friendly gate	N/A

Remark:	V	Compliance of mitigation measure;
	N/A	Not Applicable/ Not observed;
	*	Recommendation was made during site audit but improved/rectified by the contractor.
	#	Recommendation was made during site audit and to be improved / rectified by the contractor.
	X	Non-compliance of mitigation measure;
	□	Non-compliance but rectified by the contractor;

APPENDIX E
CONSTRUCTION PROGRAMME

Programs for Provision of Restoration of Residence of Ip Ting-sz, Lin Ma Hang



**APPENDIX F
SITE INSPECTION SCHEDULE IN THE
COMING MONTH**

Quotation Ref.: AMO1008008
Consultancy for Environmental Monitoring on the Major Restoration of the Residence of Ip Ting-Sz,
Lin Ma Hang Tsuen, Sha Tau Kok
Tentative Site Inspection Schedule for March 2011

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