# Hong Kong Kwong Tai Builders Limited

### Contract No. SSW 317

# Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point

Environmental Monitoring and Audit Monthly Report February 2012

(Version 1.1)

Certified By

Dr. Priscilla Choy

(Environmental Team Leader)

#### 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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### **EXECUTIVE SUMMARY**

#### Introduction

- 1. This is monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited (Cinotech) for the Contract No. SS W317 "Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point" (hereinafter called "the Project"). This document reports the findings of the environmental auditing works conducted in February 2012.
- 2. The site activity undertaken in the reporting month was:
  - Tree planting and protection works.

# **Environmental Monitoring and Audit Works**

- 3. Environmental monitoring and audit works for the Project was commenced on 17 March 2010.
- 4. Environmental monitoring and audit works for the Project is stipulated in the approved EM&A Manual. Site audits were conducted once per week. Environmental site audits were conducted on 7, 14, 21 and 28 February 2012. No non-compliance was observed during the site audits.
- 5. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 6. Summary of the events and action taken in the reporting month is tabulated in **Table I**.

**Table I** Summary Table for Events Recorded in the Reporting Month

| Parameter | No. of 1            | Events      | No. of Events             | Action Taken |  |
|-----------|---------------------|-------------|---------------------------|--------------|--|
| Farameter | <b>Action Level</b> | Limit Level | <b>Due to the Project</b> | Action Taken |  |
| Noise     | 0                   | 0           | 0                         | N/A          |  |

#### Construction Noise

7. All construction noise monitoring was conducted as scheduled in reporting month. No Action/Limit Level exceedance was recorded.

#### **Environmental Licenses and Permits**

8. Licenses/Permits granted to the Project include Environmental Permit, Billing Account under Waste Disposal Ordinance, Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (Construction Dust) Regulation and Registration as Chemical Waste Producer.

# **Key Information in the Reporting Month**

- 9. Substantial completion certificate to the Project was issued by the Architect on 28 September 2011.
- 10. Termination of site inspection and impact noise monitoring of the construction phase EM&A programme was approved by the IEC in November 2011 and is under reviewing by the Project Architect.
- 11. Summary of key information in the reporting month are in **Table II**.

Table II Summary of Key Information in the Reporting Month

|   |        | <b>Event Details</b> |              | G      | Remark |
|---|--------|----------------------|--------------|--------|--------|
| Event   | Number | Nature               | Action Taken | Status |        |
| Complaint received  | 0      |                      | N/A          | N/A    |        |
| Changes to the assumptions and key construction / operation activities recorded | 0      |                      | N/A          | N/A    |        |
| Status of submissions   | 0      |                      | N/A          | N/A    |        |
| Notifications of any summons & prosecutions received                            | 0      |                      | N/A          | N/A    |        |

<sup>•</sup> Future Key Issues:

Major site activities for the coming two months include:

- Remaining tree planting works; and
- Tree protection and maintenance: whole site.

# 1 INTRODUCTION

## **Background**

- 1.1 The Project "Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point" with a Contract No. SS W317 is the Section 1 of the "Construction of a Secondary boundary Fence and new sections of Primary Boundary Fence and Boundary Patrol Road". Hong Kong Kwong Tai Builders Limited (hereinafter called the "Contractor") was commissioned by Architectural Services Department (ArchSD) of the Hong Kong Special Administrative Region (HKSAR) to undertake the construction.
- 1.2 The Project mainly comprises a construction purposed to erect a secondary fence along the existing boundary patrol road (approximately 4.1 km) and replace the existing checkpoint at Pak Hok Chau. **Figure 1.1** shown site layout plan.
- 1.3 An Environmental Permit No. EP-347/2009 was issued on 5 June 2009 to the Secretary for Security as the Permit Holder for "Construction of a Secondary Boundary Fence and new sections of Primary Boundary Fence and Boundary Patrol Road". Later, a Further Environmental Permit (No. FEP-01/347/2009) (hereinafter called the FEP) was issued on 19 February 2010 to Contractor as Permit Holder for the Project. On 9 June 2010, a VEP (EP-347/2009/A) for the whole project was issued to Secretary for Security as the Permit Holder with amendments on the scale and scope of section 4 in whole project.
- 1.4 An environmental impact assessment (EIA) report of the Construction of a Secondary Boundary Fence and new sections of Primary Boundary Fence and Boundary Patrol Road (Register No. AEIAR-136/2009) has been prepared in January 2009.
- 1.5 The Environmental Monitoring and Audit Manual (Project's EM&A Manual) was also included as part of the EIA report in the register and the Environmental Monitoring & Audit (EM&A) requirements are specified in Section 10.The Contractor shall follow the requirements stipulated in the EM&A requirements when implementing the Project.
- 1.6 Cinotech Consultants Ltd. (Cinotech) was commissioned by the Contractor to undertake the Environmental Monitoring and Audit (EM&A) works for the Project under Condition 2.1 of FEP.
- 1.7 Environmental monitoring and audit works for the Project was commenced at 17 March 2010.
- 1.8 This is monthly EM&A Report summarizing the EM&A works for the Project in February 2012.

## **Project Organizations**

- 1.9 Different parties with different levels of involvement in the project organization include:
  - The Engineer for the Contract Mott MacDonald Limited (MMD).
  - Contractor Hong Kong Kwong Tai Builders Limited (HKKT).
  - Contractor Environmental Team (CET) Cinotech Consultants Limited (Cinotech).
  - Independent Environmental Checker (IEC) ENVIRON Hong Kong Limited (ENVIRON).
- 1.10 The responsibilities of respective parties are provided in Section 2.2 to 2.7 of the EM&A Manual of the Project.
- 1.11 The key contacts of the Project are shown in Table 1.1.

**Table 1.1 Key Project Contacts** 

| Party              | Name               | Role  | Phone No. | Fax No.   |
|--------------------|--------------------|---|-----------|-----------|
| Engineer           | Mr. Peter Tsang    | Engineer's Representative                                 | 26831179  |           |
| Contractor         | Mr. Alex Cheung    | Site Agent  | 64731088  | 27894184  |
| Contractor         | Mr. Tony Lau       | Environmental Officer                                     | 61807827  | 2/094104  |
|                    | Dr. Priscilla Choy | Contractor's Environmental<br>Team Leader (CETL)          | 2151 2089 |           |
| Contractor's<br>ET | Mr. Gary Lau       | Project Coordinator & Audit<br>Team Leader                | 2151 2098 | 3107 1388 |
|                    | Mr. Henry Leung    | Monitoring Team Leader                                    | 9779 7340 |           |
| IEC                | Mr. David Yeung    | Independent Environmental<br>Checker (IEC)                | 3743 0717 | 3548-6988 |
| IEC                | Mr. Simon Lam      | Independent Environmental<br>Checker (IEC) Representative | 3743 0708 | 3340-0988 |

1.12 The organization chart of ET and the Project are shown in **Figure 1.2** and **1.3** respectively.

#### **Construction Programme**

- 1.13 The construction activities undertaken in the reporting month were:
  - Tree planting and protection works.

### **Summary of EM&A Requirements**

- 1.14 The EM&A programme requires construction phase monitoring for construction noise and environmental site audit. The duties and responsibilities comprise the following:
  - monitor various environmental parameters as specified in the EM&A Manual;
  - analyze the environmental monitoring and audit data;

- review the EM&A programme to confirm the adequacy and effectiveness of mitigation measures implemented and the validity of the EIA predictions and to identify and adverse environmental impacts arising;
- carry out site inspection to investigate and audit the Contractor's site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and effect proactive action to pre-empt problems;
- audit and prepare EM&A reports on the site environmental conditions;
- report the environmental audit results to the Contractor; and
- recommending appropriate mitigation measures to the Contractor in case of exceedance of Action and Limit Levels in accordance with the Event and Action Plans.
- 1.15 Summary of monitoring requirements are shown in the table below:

**Table 1.2 Monitoring Requirements** 

| Monitorin<br>g Station | Parameter (Noise), dB(A)  | Period  | Frequency        | Measurement |
|------------------------|---|---|------------------|-------------|
| VH 01 and<br>VH 03     | L <sub>10</sub> (30 min.)<br>L <sub>90</sub> (30 min.)<br>L <sub>eq</sub> (30 min.) | 07:00-19:00 hours<br>on normal weekdays<br>(During<br>construction) | Once per<br>week | Façade      |

- 1.16 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 of this report.
- 1.17 Substantial completion certificate to the Project was issued by the Architect on 28 September 2011.
- 1.18 Termination of site inspection and impact noise monitoring of the construction phase EM&A programme was approved by the IEC in November 2011 and is under reviewing by the Project Architect.
- 1.19 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely noise levels and audit works for the Project in February 2012.

# 2 NOISE

## **Monitoring Requirements**

2.1 In accordance with the EM&A Manual, two noise monitoring stations (VH01and VH03) out of ten noise monitoring stations in EIA report were considered representative for Section 1 and designated for impact noise monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

# **Monitoring Locations**

2.2 **Table 2.1** describes the locations of the monitoring stations and their locations are shown in **Figure 2.1**.

**Table 2.1 Locations of Noise Monitoring Stations** 

| Monitoring Station | Location                |
|--------------------|-------------------------|
| VH01               |                         |
| VH03               | Village House at Mai Po |

# **Monitoring Equipment**

2.3 **Table 2.2** summarizes the noise monitoring equipment models being used. Copies of calibration certificates are attached in **Appendix B**.

**Table 2.2 Noise Monitoring Equipment** 

| Equipment                     | Model and Make | Quantity |
|-------------------------------|----------------|----------|
| Integrating Sound Level Meter | SVAN 955       | 1        |
| Calibrator                    | SV 30 A        | 1        |

# **Monitoring Parameters, Frequency and Duration**

2.4 **Table 2.3** summarizes the monitoring parameters, frequency and total duration of monitoring.

Table 2.3 Noise Monitoring Parameters, Frequency and Duration

| Monitoring Station | Time Period                  | Frequency     | Parameter  | Method                |
|--------------------|------------------------------|---------------|--|-----------------------|
| VH01 and VH03      | 0700-1900 hrs<br>on weekdays | Once per week | $L_{eq}(30 min.) dB(A)$<br>$L_{10}(30 min.) dB(A), &$<br>$L_{90}(30 min.) dB(A)$ | Façade<br>measurement |

## Monitoring Methodology and QA/QC Procedures

- The microphone head of the head level meter should position 1m exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
- The battery condition should check to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weighting: Atime weighting: Fast

- time measurement : 30 minutes / 5 minutes

- Prior to and after each noise measurement, the meter was calibrated using a
  Calibrator for 94 dB at 1000 Hz. If the difference in the calibration level before
  and after measurement was more than 1 dB(A), the measurement was considered
  invalid and repeat of noise measurement was required after re-calibration or repair
  of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were record on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

#### **Maintenance and Calibration**

- 2.5 Maintenance and Calibration procedures were as follows:
  - The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
  - The meter and calibrator would send to laboratory to check and calibrate at yearly intervals.

#### **Results and Observations**

- 2.6 All construction noise monitoring at two designated locations were conducted as scheduled in the reporting month. The Monitoring scheduled is shown in **Appendix J.**
- 2.7 No Action/Limit Level exceedance was recorded in the reporting month. Summary of exceedance is shown in **Appendix C.**

- 2.8 The effects of weather condition on the monitoring results are insignificant and the major noise source identified for these monitoring stations was road traffic noise. Weather condition, noise monitoring results and graphical presentations are shown in **Appendix D**.
- 2.9 In accordance with Condition 5.2 of the EP, all environmental monitoring data was made available to the public via internet access at the website http://www.cinotech.com.hk/projects/SBF.
- 2.10 All the Construction Noise Levels (CNLs) reported in this report had been adjusted with the corresponding baseline levels (i.e. Measured Leq Baseline Leq = CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the allowed CNL at each construction noise monitoring station are presented in **Table 2.4**.

**Table 2.4** Baseline Noise Levels and Allowed Construction Noise Level (CNL) for the Monitoring Stations

| Station             | Baseline Noise<br>Level, dB (A) | Allowed CNL,<br>dB (A) |
|---------------------|---------------------------------|------------------------|
| VH01 Villager House | 56.4                            | 75                     |
| VH03 Villager House | 48.9                            | 75                     |

2.11 The wind speed records on monitoring date were shown in **Table 2.5.** 

**Table 2.5** Wind Speed on Monitoring Date

|                 | Wind Sp   | eed (m/s)  |
|-----------------|-----------|------------|
| Monitoring Date | Monitorin | ng Station |
|                 | VH01      | VH03       |
| 7/2/2012        | 1.8       | 2.1        |
| 16/2/2012       | 0.8       | 1.7        |
| 21/2/2012       | 1.4       | 2.5        |
| 28/2/2012       | 1.9       | 2.7        |

### 3 ENVIRONMENTAL AUDIT

#### **Environmental Site Audits**

- 3.1 Environmental site audits were carried out on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 3.2 Site audits for the Project in the reporting month were conducted on 7, 14, 21 and 28 February 2012. No non-compliance was observed during the site audits.
- 3.3 Site inspections were undertaken to ensure and check the compliance with the FEP and that the implementation and maintenance of air quality, water quality, ecology and landscape and visual mitigation measures are being properly carried out in the reporting month in accordance to section 3.2, 5.2, 6.2 and 7.3 of the EM&A Manual respectively. No non-compliance was observed during the site inspections.
- 3.4 The summaries of site audits are attached in **Appendix E**.
- 3.5 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 3.1**.

**Table 3.1** Observations and Recommendations of Site Audits

| Parameters                        | Date<br>(Ref. no.) | Observations   | Remediation/ Follow up |
|-----------------------------------|--------------------|--|------------------------|
| Air Quality                       | N/A                | No major environmental deficiency was observed in the reporting month. | N/A                    |
| Water<br>Quality                  | N/A                | No major environmental deficiency was observed in the reporting month. | N/A                    |
| Landscape and Visual              | N/A                | No major environmental deficiency was observed in the reporting month. | N/A                    |
| Waste /<br>Chemical<br>Management | N/A                | No major environmental deficiency was observed in the reporting month. | N/A                    |

### **Status of Environmental Licensing and Permitting**

3.6 Environmental license or permit obtained in the reporting month is shown in **Table 3.2.** 

Table 3.2 Environmental License or Permit Obtained in Reporting Month

| Type of<br>License/ | Number              | Valid Period |     | Details   | Status |
|---------------------|---------------------|--------------|-----|---|--------|
| Permit              | Number              | From         | То  | Details   | Status |
| VEP                 | EP-347<br>/2009/A   | 15/06/2010   | N/A | Location: Boundary patrol road<br>between<br>Mai Po and Lok Ma Chau Control | Valid  |
| FEP                 | FEP-<br>01/347/2009 | 19/02/2010   | N/A | Point Po and Lok Wa Chau Control  | Valid  |

| Registration as<br>Chemical<br>Waste Producer           | 5213-542-<br>H3263-02 | 29/03/2010 | N/A | <ul><li>i) Location of waste is produced:</li><li>Border Road, Yuen Long</li><li>ii) Major chemical waste: Waste paint drum, waste paint can and waste paint.</li></ul> | Valid |
|---|-----------------------|------------|-----|---|-------|
| Billing Account<br>under Waste<br>Disposal<br>Ordinance | 7010229               | 11/02/2010 | N/A | Disposal of construction and<br>demolition waste under Waste Disposal<br>Ordinance  | Valid |
| Form NA   | 314415                | 23/02/2010 | N/A | Notification pursuant to Section 3(1) of<br>the Air Pollution Control Ordinance<br>(Construction Dust) Regulation   | N/A   |

# **Status of Waste Management**

3.7 The amount of waste generated by the construction activities of the Project in the reporting month is shown in **Appendix F**.

# **Implementation Status of Environmental Mitigation Measures**

3.8 According to the Environmental Permit and the EM&A Manual, the mitigation measures detailed in the documents are required to be implemented. Details of implementation Status of Environmental Mitigation Measures are provided in **Appendix G**.

### **Implementation Status of Event Action Plans**

3.9 The Event Action Plans for construction noise are presented in **Appendix H**.

#### **Construction Noise**

3.10 No Action/Limit Level exceedance was reported in the reporting month.

# **Summary of Complaints and Prosecutions**

3.11 No environmental complaint was received in the reporting month. Table 3.3 shows the accumulated number of complaint received since the commencement of the Project.

Table 3.3 Accumulated Number of Complaint Received Since the Commencement of the Project

| Nature of Complaint | Number of<br>Complaint in the | Accumulated Number of Complaint Since the |
|---------------------|-------------------------------|---|
|                     | Reporting Month               | Commencement of the Project               |
| Public Complaint    | 0                             | 1   |

# 4 FUTURE KEY ISSUES

# **Key Issues for the Coming Month**

- 4.1 Key issues to be considered in the coming month include:
  - Remaining tree planting works; and
  - Tree protection and maintenance: whole site.

# **Construction Program for the Next Month**

4.2 The tentative construction program for the Project is provided in **Appendix I**.

# **Monitoring Schedule for the Next Month**

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

### 5 CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

- 5.1 Four environmental site audits were performed in February 2012. No non-compliance was observed during the site audits.
- 5.2 All construction noise monitoring was conducted as scheduled in the reporting month. All monitoring results were checked and reviewed. No Action/Limit Level exceedance was recorded.
- 5.3 No environmental complaint and no prosecution related to the project was received in the reporting month.

#### Recommendations

5.4 According to the environmental audits performed in the reporting month, the following recommendations are recommended:

# Dust Impact

• To implement dust suppression measures on haul road, stockpiles and dry surfaces.

#### Water Quality Impact

• To regularly maintain the condition of u-channel, catch pits and wheel washing facilities on site;

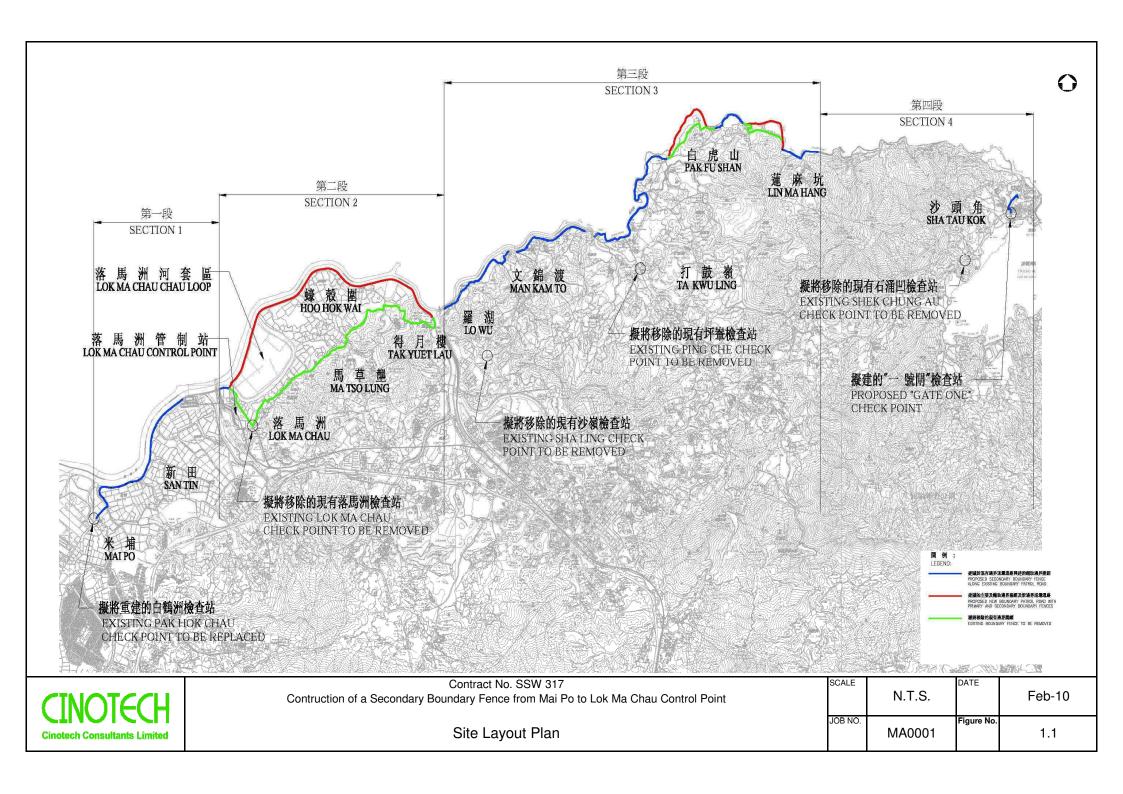
#### Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site;
- To avoid improper handling or storage of oil and paint drum on site.

### Landscape

- To maintain the protection fencing surround the retaining trees;
- To remove materials and equipments placed within the tree protection area;
- To replant vegetation at the earliest possible stage of the construction phase.

**FIGURE** 



# **Environmental Team Leader** Dr. Priscilla Choy (Tel: 2151 2089) **Project Coordinator** - coordination of the Project and compile reports Gary Lau (Tel: 2151 2098) **Audit Team Monitoring Team** conduct site inspection, complete the environmental checklist once - perform environmental monitoring works a week **Team Leader: Henry SM Leung Team Leader: Gary Lau** (Tel: 2151 2087) (Tel: 2151 2098) Team Members: Tang Wing Kwai, Yeung Wing Kun, Tsang Tsz **Team Members: Ivy Tam,** Keung, Tao Ching Hang, Choi Wai Yi. Sam Lam Title Project Contract No: SSW 317 Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau No. N.T.S MA0001

Date

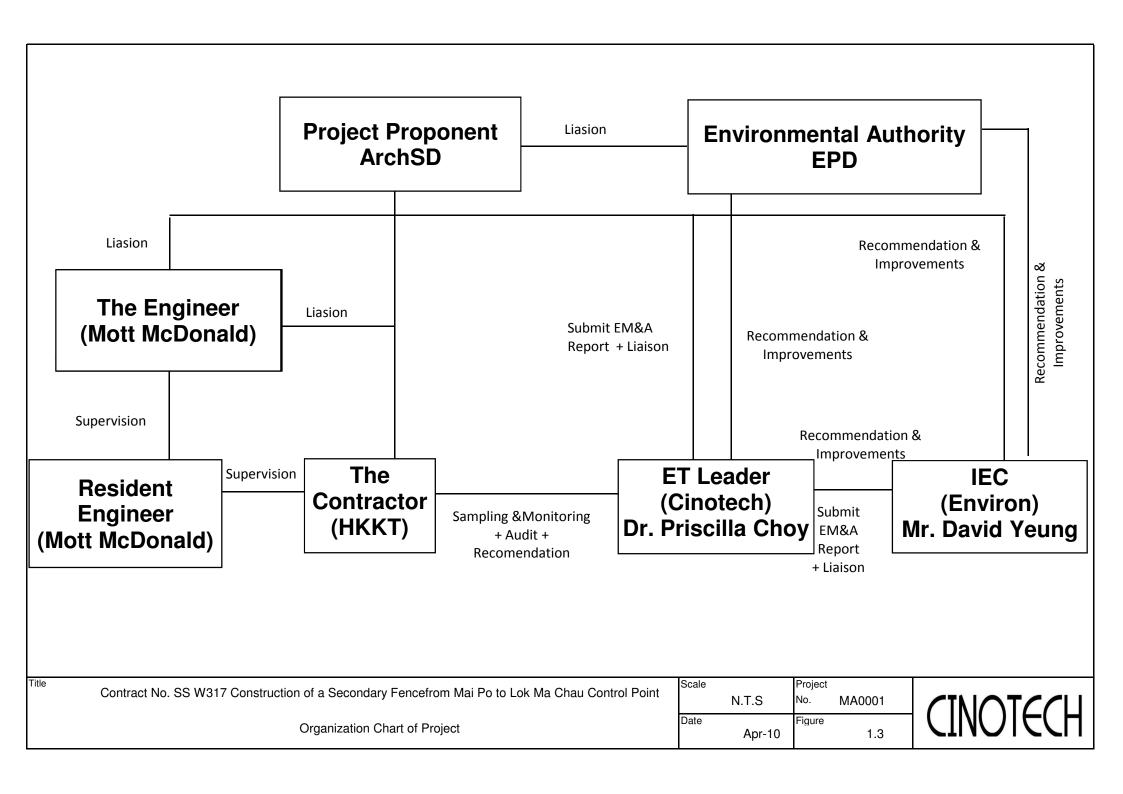
Figure

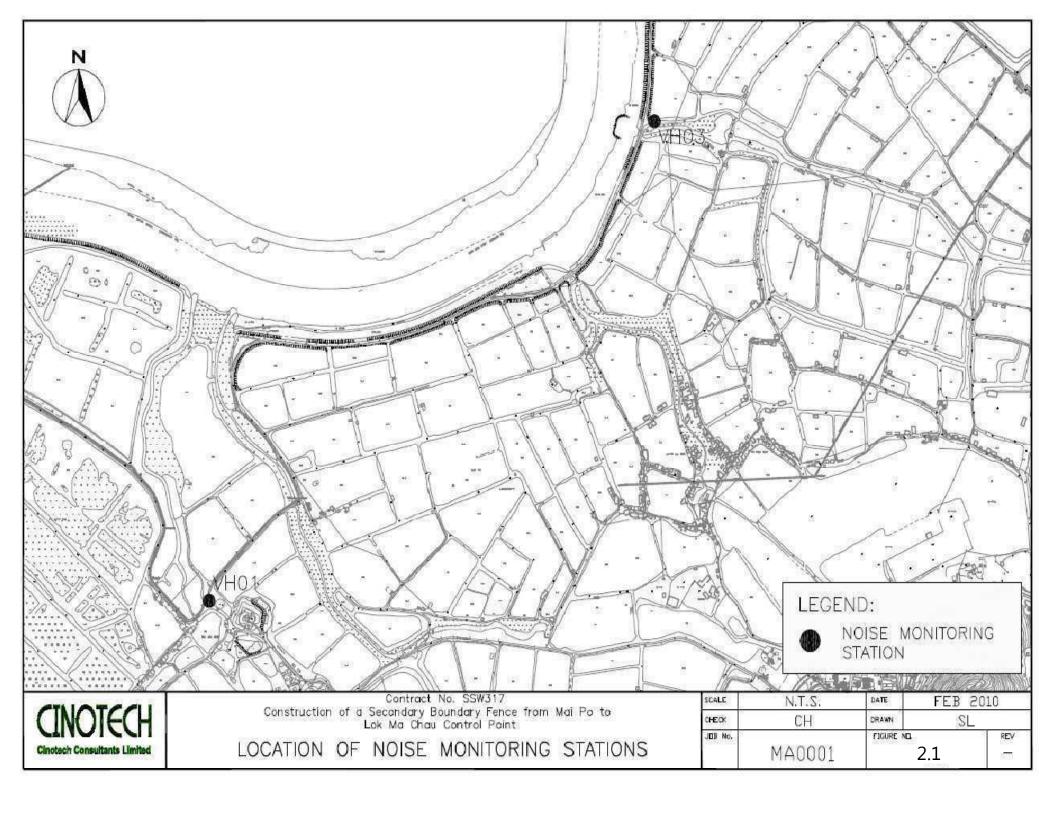
1.2

Jun-10

Control Point

ET Organization Chart





# APPENDIX A ACTION AND LIMIT LEVELS

# Appendix A - Action and Limit Level for Construction Noise

| Time Period                         | Action Level                              | Limit Level |
|-------------------------------------|---|-------------|
| 0700-1900 hrs on normal<br>weekdays | When one documented complaint is received | 75 dB(A)    |

APPENDIX B COPIES OF CALIBRATION CERTIFICATES



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# TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/120120/1 Date of Issue: 2012-01-21 Date Received: 2012-01-20 Date Tested: 2012-01-20 Date Completed: 2012-01-21 Next Due Date:

2013-01-20

ATTN:

Mr. Henry Leung

Page:

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# Certificate of Calibration

## Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No.

: SVAN 955

Serial No.

: 14303

Microphone No.

: 17204

Equipment No.

: N-08-05

#### **Test conditions:**

Room Temperatre

: 21 degree Celsius

Relative Humidity

: 52%

## **Test Specifications:**

Performance checking at 94 and 114 dB

## Methodology:

In-house method, according to manufacturer instruction manual

#### Results:

| Reference Set Point, dB | Instrument Readings, dB |
|-------------------------|-------------------------|
| 94                      | 94.0                    |
| 114                     | 114.0                   |

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



WELLAB LIMITED

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Website: www.wellab.com.hk

# **TEST REPORT**

APPLICANT:

**Cinotech Consultants Limited** 

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

|                  | V            |
|------------------|--------------|
| Test Report No.: | C/N/111008/1 |
| Date of Issue:   | 2011-10-10   |
| Date Received:   | 2011-10-08   |
| Date Tested:     | 2011-10-08   |
| Date Completed:  | 2011-10-10   |

ATTN:

Mr. Henry Leung

Page:

Next Due Date:

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2012-10-09

### Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK

Model No.

: SV30A

Serial No.

: 24803

Equipment No.

: N-09-03

Test conditions:

Room Temperatre

: 22 degree Celsius

Relative Humidity

: 62%

#### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

#### Results:

| Sound Pressure Level (1kHz) | Measured SPL | Tolerance      |
|-----------------------------|--------------|----------------|
| At 94 dB SPL                | 94.0         | 94.0 ± 0.1 dB  |
| At 114 dB SPL               | 114.0        | 114.0 ± 0.1 dB |

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

# APPENDIX C SUMMARY OF EXCEEDANCE

**Appendix C – Summary of Exceedance** 

**Reporting Month:** February 2012

**Exceedance Report for Construction Noise (NIL)** 

APPENDIX D NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

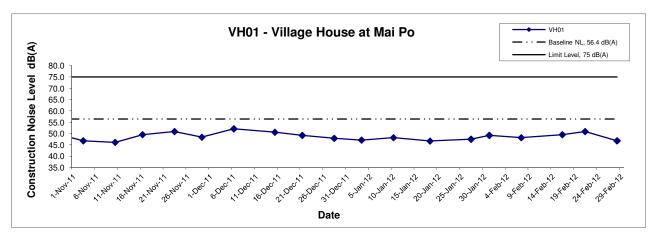
# Appendix D - Noise Monitoring Results

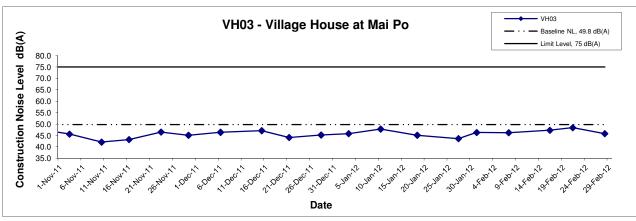
| Location VH01 - Village House at Mai Po |       |         |                 |                       |       |                 |                               |
|---|-------|---------|-----------------|-----------------------|-------|-----------------|-------------------------------|
|   |       |         |                 | Unit: dB (A) (30-min) |       |                 |                               |
| Date                                    | Time  | Weather | Meas            | sured Noise I         | _evel | Baseline Level  | Construction Noise Level      |
|   |       |         | L <sub>eq</sub> | L <sub>10</sub>       | L 90  | L <sub>eq</sub> | L <sub>eq</sub>               |
| 7-Feb-12                                | 13:30 | Cloudy  | 48.2            | 51.2                  | 46.3  |                 | 48.2 Measured ≤ Baseline      |
| 16-Feb-12                               | 14:00 | Cloudy  | 49.5            | 52.3                  | 48.5  | 56.4            | 49.5 Measured $\leq$ Baseline |
| 21-Feb-12                               | 10:00 | Sunny   | 50.9            | 51.2                  | 49.2  | 30.4            | 50.9 Measured $\leq$ Baseline |
| 28-Feb-12                               | 11:00 | Cloudy  | 46.8            | 48.1                  | 45.5  |                 | 46.8 Measured ≤ Baseline      |

| Location VH03 - Village House at Mai Po |       |         |                 |                       |       |                 |                          |
|---|-------|---------|-----------------|-----------------------|-------|-----------------|--------------------------|
|   |       |         |                 | Unit: dB (A) (30-min) |       |                 |                          |
| Date                                    | Time  | Weather | Meas            | sured Noise           | _evel | Baseline Level  | Construction Noise Level |
|   |       |         | L <sub>eq</sub> | L <sub>10</sub>       | L 90  | L <sub>eq</sub> | L <sub>eq</sub>          |
| 7-Feb-12                                | 14:15 | Cloudy  | 46.2            | 48.5                  | 45.2  |                 | 46.2 Measured ≤ Baseline |
| 16-Feb-12                               | 14:45 | Cloudy  | 47.3            | 49.5                  | 46.8  | 49.8            | 47.3 Measured ≤ Baseline |
| 21-Feb-12                               | 10:45 | Sunny   | 48.4            | 49.2                  | 47.3  | 43.0            | 48.4 Measured ≤ Baseline |
| 28-Feb-12                               | 11:45 | Cloudy  | 45.8            | 46.5                  | 44.6  |                 | 45.8 Measured ≤ Baseline |

MA0001/App D - Noise Cinotech

#### **Noise Levels**





Title Contract No. SSW317
Construction of a Secondary Boundary Fence
from Mai Po to Lok Ma Chau Control Point
Graphical Presentation of Construction Noise Monitoring
Results



# APPENDIX E SITE AUDIT SUMMARY

**Inspection Information** 

| Checklist Reference Number | 120207                    |
|----------------------------|---------------------------|
| Date                       | 7 February 2012 (Tuesday) |
| Time                       | 09:30 - 10:30             |

|          |  | Related |
|----------|--|---------|
| Ref. No. | Non-Compliance   | Item No |
| -        | None identified  | -       |
|          |  | Related |
| Ref. No. | Remarks/Observations   | Item No |
|          | B. Water Quality   |         |
|          | No environmental deficiency was identified during site inspection. |         |
|          | C. Air Quality   |         |
|          | No environmental deficiency was identified during site inspection. |         |
|          | D. Construction Noise Impact                                       |         |
|          | No environmental deficiency was identified during site inspection. |         |
|          | E. Waste / Chemical Management                                     |         |
|          | No environmental deficiency was identified during site inspection. |         |
|          | F. Landscape   |         |
|          | No environmental deficiency was identified during site inspection. |         |
|          | H. Others  |         |
|          | • N/A  |         |

| Reminders   | Related  |
|---|----------|
|   | Item No. |
| <br>The Contractor was reminded to implement the following preventive measures:                                     |          |
| <br>B. Water Quality  | <b> </b> |
| No environmental deficiency was identified during site inspection.  |          |
| C. Air Quality  |          |
| No environmental deficiency was identified during site inspection.  |          |
| D. Construction Noise Impact  |          |
| <br>No environmental deficiency was identified during site inspection.  |          |
| E. Waste / Chemical Management  |          |
| <br>No environmental deficiency was identified during site inspection.  |          |
| <br>F. Landscape  |          |
| <br>No environmental deficiency was identified during site inspection.  |          |
| <br>G. Permits/Licenses   |          |
| <br>No environmental deficiency was identified during site inspection.  |          |
| <br>H. Others   |          |
| <br>Follow-up on previous audit session (Ref. 120131), all environmental deficiency was improved by the Contractor. |          |

|             | Name               | Signature | Date            |
|-------------|--------------------|-----------|-----------------|
| Recorded by | Gary Lau           | Com 1.    | 8 February 2012 |
| Checked by  | Dr. Priscilla Choy | NI        | 8 February 2012 |
|             |                    |           |                 |

**Inspection Information** 

| Checklist Reference Number | 120214                     |
|----------------------------|----------------------------|
|                            | 14 February 2012 (Tuesday) |
| Time                       | 14:30 – 15:30              |

| Ref. No.  | Non-Compliance   | Related             |
|-----------|--|---------------------|
| - Ken Hui | None identified  | Item No.            |
| Ref. No.  | Remarks/Observations   | Related<br>Item No. |
|           | B. Water Quality   |                     |
|           | No environmental deficiency was identified during site inspection. |                     |
|           | C. Air Quality   |                     |
|           | No environmental deficiency was identified during site inspection. |                     |
|           | D. Construction Noise Impact                                       |                     |
|           | No environmental deficiency was identified during site inspection. |                     |
|           | E. Waste / Chemical Management                                     |                     |
|           | No environmental deficiency was identified during site inspection. |                     |
|           | F. Landscape   |                     |
|           | No environmental deficiency was identified during site inspection. |                     |
|           | H. Others  |                     |
|           | • N/A  |                     |

| Reminders   | Related Item No. |
|---|------------------|
| The Contractor was reminded to implement the following preventive measures:                                     |                  |
| B. Water Quality  |                  |
| No environmental deficiency was identified during site inspection.  |                  |
| C. Air Quality  |                  |
| <br>No environmental deficiency was identified during site inspection.  |                  |
| D. Construction Noise Impact  |                  |
| <br>No environmental deficiency was identified during site inspection.  |                  |
| E. Waste / Chemical Management  |                  |
| <br>No environmental deficiency was identified during site inspection.  |                  |
| <br>F. Landscape  |                  |
| No environmental deficiency was identified during site inspection.  |                  |
| <br>G. Permits/Licenses   |                  |
| <br>No environmental deficiency was identified during site inspection.  |                  |
| <br>H. Others   |                  |
| Follow-up on previous audit session (Ref. 120207), all environmental deficiency was improved by the Contractor. |                  |

|             | Name               | Signature | Date             |
|-------------|--------------------|-----------|------------------|
| Recorded by | Gary Lau           | lagh      | 15 February 2012 |
| Checked by  | Dr. Priscilla Choy | NZ        | 15 February 2012 |

**Inspection Information** 

| Checklist Reference Number | 120221                     |
|----------------------------|----------------------------|
| Date                       | 21 February 2012 (Tuesday) |
| Time                       | 10:30 – 11:30              |

| Ref. No. | Non-Compliance   | Related Item No    |
|----------|--|--------------------|
|          | None identified  | TICHI INC          |
| Ref. No. | Remarks/Observations   | Related<br>Item No |
|          | B. Water Quality   |                    |
|          | No environmental deficiency was identified during site inspection. |                    |
|          | C. Air Quality   |                    |
|          | No environmental deficiency was identified during site inspection. |                    |
|          | D. Construction Noise Impact                                       |                    |
|          | No environmental deficiency was identified during site inspection. |                    |
|          | E. Waste / Chemical Management                                     |                    |
|          | No environmental deficiency was identified during site inspection. |                    |
|          | F. Landscape   |                    |
|          | No environmental deficiency was identified during site inspection. |                    |
|          | H. Others  |                    |
|          | • N/A  |                    |

| Dental  | Related  |
|---|----------|
| <br>Reminders   | Item No. |
| The Contractor was reminded to implement the following preventive measures:                                     |          |
| <br>B. Water Quality  |          |
| <br>No environmental deficiency was identified during site inspection.  |          |
| <br>C. Air Quality  |          |
| <br>No environmental deficiency was identified during site inspection.  |          |
| <br>D. Construction Noise Impact  |          |
| No environmental deficiency was identified during site inspection.  |          |
| <br>E. Waste / Chemical Management  |          |
| No environmental deficiency was identified during site inspection.  |          |
| <br>F. Landscape  |          |
| <br>No environmental deficiency was identified during site inspection.  |          |
| <br>G. Permits/Licenses   |          |
| No environmental deficiency was identified during site inspection.  |          |
| <br>H. Others   |          |
| Follow-up on previous audit session (Ref. 120214), all environmental deficiency was improved by the Contractor. |          |

|             | Name               | Signature | Date             |
|-------------|--------------------|-----------|------------------|
| Recorded by | Gary Lau           | lingl     | 22 February 2012 |
| Checked by  | Dr. Priscilla Choy | WI.       | 22 February 2012 |

1

**Inspection Information** 

| Checklist Reference Number | 120228                     |
|----------------------------|----------------------------|
| Date                       | 28 February 2012 (Tuesday) |
| Time                       | 10:00 – 11:00              |

| D 4 N    | N. G. H  | Related  |
|----------|--|----------|
| Ref. No. | Non-Compliance   | Item No. |
|          | None identified  | -        |
|          |  | Related  |
| Ref. No. | Remarks/Observations   | Item No. |
|          | B. Water Quality   |          |
|          | No environmental deficiency was identified during site inspection. |          |
|          | C. Air Quality   |          |
|          | No environmental deficiency was identified during site inspection. |          |
|          | D. Construction Noise Impact                                       |          |
|          | No environmental deficiency was identified during site inspection. |          |
|          | E. Waste / Chemical Management                                     |          |
|          | No environmental deficiency was identified during site inspection. |          |
|          | F. Landscape   |          |
|          | No environmental deficiency was identified during site inspection. |          |
|          | H. Others  |          |
|          | • N/A  |          |

| Reminders   | Related<br>Item No. |
|---|---------------------|
| The Contractor was reminded to implement the following preventive measures:   |                     |
| B. Water Quality  |                     |
| <br>No environmental deficiency was identified during site inspection.  |                     |
| <br>C. Air Quality  |                     |
| No environmental deficiency was identified during site inspection.  |                     |
| D. Construction Noise Impact  |                     |
| No environmental deficiency was identified during site inspection.  |                     |
| E. Waste / Chemical Management  |                     |
| No environmental deficiency was identified during site inspection.  |                     |
| <br>F. Landscape  |                     |
| No environmental deficiency was identified during site inspection.  |                     |
| <br>G. Permits/Licenses   |                     |
| <br>No environmental deficiency was identified during site inspection.  |                     |
| <br>H. Others   |                     |
| <br>Follow-up on previous audit session (Ref. 120221), all environmental deficiency was improved by the Contractor. | ′                   |

|             | Name               | Signature | Date             |
|-------------|--------------------|-----------|------------------|
| Recorded by | Gary Lau           | and       | 29 February 2012 |
| Checked by  | Dr. Priscilla Choy | NZ        | 29 February 2012 |

# APPENDIX F SUMMARY OF WASTE GENERATED

Contract No.: SS W317

## Monthly Summary Waste Flow Table for 2012 [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

|           | Actua   | l Quantities of Iner                   | rt Construction W                | aste Generated M                   | onthly                               | Actual Quantities of Non-inert Construction Waste Generated Monthly |                                      |                                 |                       |  |  |
|-----------|---|--|----------------------------------|------------------------------------|--------------------------------------|---|--------------------------------------|---------------------------------|-----------------------|--|--|
| Month     | (a)=(b)+(c)+(d)+(e)  Total Quantity Generated | (b)<br>Broken Concrete<br>(see Note 4) | (c)<br>Reused in the<br>Contract | (d)<br>Reused in other<br>Projects | (e)<br>Disposed of as<br>Public Fill | (f)<br>Metals   | (g)<br>Paper/ cardboard<br>packaging | (h)<br>Plastics<br>(see Note 3) | (i)<br>Chemical Waste | (j)<br>Others, e.g. general<br>refuse disposed of<br>at Landfill |  |
|           | (in '000m <sup>3</sup> )                      | (in '000m <sup>3</sup> )               | (in '000m <sup>3</sup> )         | (in '000m <sup>3</sup> )           | (in '000m <sup>3</sup> )             | (in '000kg)   | (in '000kg)                          | (in '000kg)                     | (in '000kg)           | (in '000m <sup>3</sup> )   |  |
| Jan       | 0   | 0                                      | 0                                | 0                                  | 0                                    | 0   | 0                                    | 0                               | 0                     | 0  |  |
| Feb       | 0   | 0                                      | 0                                | 0                                  | 0                                    | 0   | 0                                    | 0                               | 0                     | 0  |  |
| Mar       | 936   |  | Bis                              |                                    | 11                                   |   | 30<br>30                             | (M)                             |                       | Fil  |  |
| Apr       |   |  |                                  | 40                                 | Total                                |   | 10 10                                |                                 | 11111                 |  |  |
| May       |   |  |                                  | 1                                  |                                      |   |                                      |                                 | 50                    |  |  |
| Jun       |   | 17                                     |                                  | 8                                  |                                      | W   |                                      |                                 | 1                     | =  |  |
| Sub-total |   |  |                                  |                                    |                                      |   |                                      |                                 |                       |  |  |
| Jul       |   |  |                                  | 800                                |                                      |   |                                      | - 編                             | 200                   |  |  |
| Aug       |   |  |                                  |                                    | =                                    |   |                                      |                                 |                       |  |  |
| Sep       | 33<br>20                                      |  | (91)<br>30-0                     |                                    |                                      |   |                                      | Ē                               |                       | Photo:   |  |
| Oct       | 271 -> 04                                     |  |                                  | =                                  |                                      |   |                                      |                                 |                       | 2.00   |  |
| Nov       |   |  |                                  |                                    |                                      |   | <b>35</b>                            |                                 |                       |  |  |
| Dec       | 590   |  |                                  |                                    |                                      | 7.75  | 85                                   |                                 | 111                   |  |  |
| Total     |   |  |                                  |                                    |                                      | 9200  |                                      |                                 |                       |  |  |

Notes:

- (1) The performance targets are given in the Particular Specification on Environmental Management Plan.
- (2) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4) Broken concrete for recycling into aggregates.
- (5) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m<sup>3</sup> by volume.

APPENDIX G ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

# Appendix G - Environmental Mitigation Implementation Schedule (EMIS)

| Types of Impacts | Mitigation Measures   | Status |  |  |  |  |  |  |
|------------------|---|--------|--|--|--|--|--|--|
|                  | Construction Phase  |        |  |  |  |  |  |  |
|                  | • Excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading. |        |  |  |  |  |  |  |
|                  | The working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet.   |        |  |  |  |  |  |  |
| Air Quality      | Dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting.   | ۸      |  |  |  |  |  |  |
| - •              | <ul> <li>Vehicle washing area and the section of the road between the washing facilities and the exit point<br/>should be paved with concrete, bituminous materials or hardcores.</li> </ul>  | N/A    |  |  |  |  |  |  |
|                  | • The portion of road within 30m of designated vehicle entrance or exit should be kept clear of dusty materials.  | ۸      |  |  |  |  |  |  |
|                  | All dusty materials should be sprayed with water prior to any loading, unloading or transfer.   | ٨      |  |  |  |  |  |  |
|                  | Vehicle speed should be limited to 10kph except on completed access roads.  | ٨      |  |  |  |  |  |  |
|                  | <ul> <li>Vehicle should be washed to remove any dusty materials from its body and wheels before leaving the<br/>construction sites.</li> </ul>  | ٨      |  |  |  |  |  |  |
|                  | Construction Phase  |        |  |  |  |  |  |  |
|                  | Adopt the Code of Practice on Good Management Practice to comply with the Noise Control     Ordinance (Chapter 400) (for Construction Industry) published by EPD  | ۸      |  |  |  |  |  |  |
|                  | Observe and comply with the statutory and non-statutory requirements and guidelines.  | ^      |  |  |  |  |  |  |
|                  | Before commencing any work, the Contractor shall submit to the Engineer Representative for approval the method of working, equipment and noise mitigation measures intended to be used at the site.   | ۸      |  |  |  |  |  |  |
| Noise            | The Contractor shall devise and execute working methods to minimise the noise impact on the surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented.  | ۸      |  |  |  |  |  |  |
|                  | Noisy equipment and noisy activities should be located as far away from the NSRs as is practical.   | ٨      |  |  |  |  |  |  |
|                  | Unused equipment should be turned off. PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided.   | ۸      |  |  |  |  |  |  |
|                  | Regular maintenance of all plant and equipment.   | ۸      |  |  |  |  |  |  |
|                  | Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable.   | ۸      |  |  |  |  |  |  |

|               | Use of Quiet Plant and Movable Noise Barrier   |     |  |  |  |  |  |  |  |  |  |
|---------------|--|-----|--|--|--|--|--|--|--|--|--|
|               | • Purpose-built movable noise barriers should be used to mitigate construction noise directly at sources that are not usually mobile provide that the direct line of sight to the source is blocked.   | N/A |  |  |  |  |  |  |  |  |  |
|               | Construction Phase   |     |  |  |  |  |  |  |  |  |  |
|               | The site should be confined to avoid silt runoff to the site.  |     |  |  |  |  |  |  |  |  |  |
|               | No discharge of silty water into the storm drain and drainage channel within and the vicinity of the site.   | ٨   |  |  |  |  |  |  |  |  |  |
|               | Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.   | ۸   |  |  |  |  |  |  |  |  |  |
|               | Stockpiles to be covered by tarpaulin to avoid spreading of materials during rainstorms;   | ٨   |  |  |  |  |  |  |  |  |  |
|               | Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.   | ٨   |  |  |  |  |  |  |  |  |  |
|               | Chemical waste containers shall be labelled with appropriate warning signs in English and Chinese to avoid accidents. There shall also be clear instructions showing what action to take in the event of an accidental.                                      | ٨   |  |  |  |  |  |  |  |  |  |
|               | Storage areas shall be selected at safe locations on site and adequate space shall be allocated to the storage area.   |     |  |  |  |  |  |  |  |  |  |
|               | <ul> <li>Any construction plant which causes pollution to the water system due to leakage of oil or fuel shall be removed<br/>off-site immediately.</li> </ul>   |     |  |  |  |  |  |  |  |  |  |
|               | Spillage or leakage of chemical waste to be controlled by using suitable absorbent materials.  |     |  |  |  |  |  |  |  |  |  |
| Water Quality | Chemicals will always be stored on drip trays or in bunded areas where the volume is 110% of the stored volume.  |     |  |  |  |  |  |  |  |  |  |
|               | Regular clearance of domestic waste generated in the temporary sanitary facilities to avoid waste water spillage.  | ٨   |  |  |  |  |  |  |  |  |  |
|               | Temporary sanitary facilities to be provided for on-site workers during construction   | ٨   |  |  |  |  |  |  |  |  |  |
|               | Concreting Work  |     |  |  |  |  |  |  |  |  |  |
|               | Set up a temporary drainage channel to collect the runoff generated and prevent concrete-contaminated water from entering watercourses. Adjustment of pH can be achieved by adding a suitable neutralising reagent to wastewater prior to discharge.         | ٨   |  |  |  |  |  |  |  |  |  |
|               | Soil Excavation and Stockpiling  |     |  |  |  |  |  |  |  |  |  |
|               | • Temporarily stockpiled excavated soil should be stored in a designated area and provided with a tarpaulin cover to avoid runoff into the drainage channel.   | ٨   |  |  |  |  |  |  |  |  |  |
|               | Site Depot   |     |  |  |  |  |  |  |  |  |  |
|               | <ul> <li>All compounds in works areas should be located on areas of hard standing with provision of drainage channels<br/>and settlement ponds to allow interception and controlled release of settled/treated water.</li> </ul>                             | N/A |  |  |  |  |  |  |  |  |  |
|               | <ul> <li>Hard standing compounds should drain via an oil interceptor, it should be regularly inspected and cleaned to avoid wash-out of oil during storm conditions. A bypass should be provided to avoid overload of the interceptor's capacity.</li> </ul> | N/A |  |  |  |  |  |  |  |  |  |

|            | Registered as a chemical waste producer for contractor generating waste oil or other chemicals. Disposal of the waste oil should be done by a licensed collector  | ٨   |  |  |  |  |  |  |  |  |
|------------|---|-----|--|--|--|--|--|--|--|--|
|            | • Appropriate training including safety codes and relevant manuals should be given to the personnel who regularly handle the chemicals on site to keep the storage and the work space in a tidy and clean condition.  | N/A |  |  |  |  |  |  |  |  |
|            | Construction of Checkpoint  |     |  |  |  |  |  |  |  |  |
|            | Sewage system should be constructed to divert domestic sewage, which will be generated from the sanitary facilities provided in the new checkpoint at Shek Chung Au, to public sewer connected to government sewage treatment facilities.   | N/A |  |  |  |  |  |  |  |  |
|            | Site Clearance  |     |  |  |  |  |  |  |  |  |
|            | • The topsoil and vegetation removed and excavated material may have to be temporarily stockpiled on-site.to prevent the generation of dust and pollution of stormwater channels, fish ponds or river channels. Stockpiling of excavated materials during the wet season should be avoided as far as practicable.   |     |  |  |  |  |  |  |  |  |
|            | Construction Phase  |     |  |  |  |  |  |  |  |  |
|            | Good site management to minimize over-ordering and generation of waste materials such as concrete mortars and cement grouts.  | ٨   |  |  |  |  |  |  |  |  |
|            | The Contractor should recycle as much of the C&D materials as possible on-site.   |     |  |  |  |  |  |  |  |  |
|            | Trip-ticket system should be employed to monitor the disposal of C&D material and solid at public filling facilities and landfills, and to control fly-tipping.   |     |  |  |  |  |  |  |  |  |
|            | Chemical Waste  |     |  |  |  |  |  |  |  |  |
|            | To reduce generating chemical waste as much as possible.  | ٨   |  |  |  |  |  |  |  |  |
|            | Containers used for the storage of chemical wastes should be suitable for the substance they are holding,   | ٨   |  |  |  |  |  |  |  |  |
|            | resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 litres  |     |  |  |  |  |  |  |  |  |
| Waste      | with label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations.  |     |  |  |  |  |  |  |  |  |
| Management | The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste.  | ٨   |  |  |  |  |  |  |  |  |
|            | • The storage area should be enclosed on at least 3 sides, have adequate ventilation with impermeable floor, capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area.  | ۸   |  |  |  |  |  |  |  |  |
|            | Rainfall entering should be avoided entering to storage area and adequately separated with incompatible materials.  | ٨   |  |  |  |  |  |  |  |  |
|            | Disposal of chemical waste should be via a licensed waste collector to licensed facility which can supply the necessary storage containers, or to be re-user of the waste, under approval from the EPD.   |     |  |  |  |  |  |  |  |  |
|            | General Refuse  |     |  |  |  |  |  |  |  |  |
|            | • Should be stored in enclosed bins or compaction units separate from C&D and chemical wastes. The Contractor should employ a reputable waste collector to remove general refuse from the site, separate from C&D and chemical wastes, on a regular basis to minimise odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. |     |  |  |  |  |  |  |  |  |
|            | Prohibition of refuse burning on construction sites   | ٨   |  |  |  |  |  |  |  |  |
|            | Construction Waste Management Plan  |     |  |  |  |  |  |  |  |  |

|               | Construction waste management plan (CWMP) should be prepared  | ۸ |  |  |  |  |  |  |  |
|---------------|---|---|--|--|--|--|--|--|--|
|               | Contractor should ensure proper collection, treatment and disposal of waste on site.  | ٨ |  |  |  |  |  |  |  |
|               | Ecological Impacts on Floral Species of Conservation Concern  |   |  |  |  |  |  |  |  |
|               | Erection of protective fencing to protect the plant during construction period  |   |  |  |  |  |  |  |  |
|               | Potential Ecological Impacts on Offsite Habitats  |   |  |  |  |  |  |  |  |
|               | <ul> <li>Controlling the dust and water quality by avoiding stockpiles adjacent to wetlands and covering the stockpiles<br/>with impervious sheeting.</li> </ul>  | ۸ |  |  |  |  |  |  |  |
|               | Controlling vehicle speed and ensure no discharge of silty water to the rivers, streams.  | ٨ |  |  |  |  |  |  |  |
|               | Disturbance to Wetland-Dependent Birds, Raptors, Terrestrial Birds and Egretry  |   |  |  |  |  |  |  |  |
| Ecology       | Restriction of excavation works within a 150m buffer zone from the egretry to ardeid non-breeding season (from August to February).   | ۸ |  |  |  |  |  |  |  |
|               | Switching off unused equipment, keep minimum number of powered mechanical equipment in operation at the   | ٨ |  |  |  |  |  |  |  |
|               | same period, the use of stockpiles and other structures to form noise barriers where practicable to avoid causing disturbance to feeding the wildlife.  |   |  |  |  |  |  |  |  |
|               | <ul> <li>Proper cover of stockpiles with impervious sheeting to minimize construction noise, uncontrolled surface runoff<br/>and discharge of silts.</li> </ul>   | ٨ |  |  |  |  |  |  |  |
|               | • Avoidance of construction works using Power Mechanical Equipments within the Wetland Conservation Area during bird migratory season (15th November – 15th March).   | ۸ |  |  |  |  |  |  |  |
|               | Preservation of Existing Vegetation throughout construction phase   |   |  |  |  |  |  |  |  |
|               | To retain trees that have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.   | ۸ |  |  |  |  |  |  |  |
|               | Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling   | ٨ |  |  |  |  |  |  |  |
|               | and washing of equipment including concrete mixers within the precautionary area  |   |  |  |  |  |  |  |  |
|               | • Phased segmental root pruning for trees to be retained over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case. | ^ |  |  |  |  |  |  |  |
| Landscape and | <ul> <li>Pruning of the branches of existing trees identified for retention to be based on the principle of crown thinning maintaining their form and amenity value.</li> </ul>   | ٨ |  |  |  |  |  |  |  |
| Visual        | The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.  | ٨ |  |  |  |  |  |  |  |
|               | <ul> <li>The rectification and repair of damaged vegetation following the construction phase to it's original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected</li> </ul>                    | ۸ |  |  |  |  |  |  |  |
|               | All works affecting the trees identified for retention will be carefully monitored, including the key stages in the preparation of the trees, the implementation of protection measures and health monitoring through out the construction period   | ۸ |  |  |  |  |  |  |  |
|               | Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WBTC No. 3/2006.   | ۸ |  |  |  |  |  |  |  |
|               | The tree preservation works should be implemented by approved Landscape Contractors and inspected and   | ٨ |  |  |  |  |  |  |  |

| approved on site by a qualified Landscape Architect. A tree protection specification would be included within  |     |
|--|-----|
| the contract documents.  |     |
| Preservation of Existing Topsoil   |     |
| <ul> <li>Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and<br/>where it is found to be worthy of retention stored for re-use.</li> </ul>                          | N/A |
| The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered with a waterproof covering to prevent erosion.                            | N/A |
| <ul> <li>Regularly turned over the stockpile to avoid acidification and the degradation of the organic material, and reused after completion.</li> </ul>   | N/A |
| Considered for re-use in other projects when above actions are not practical.  | N/A |
| Permanent and Temporary Works Areas  |     |
| • Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.  | N/A |
| <ul> <li>Construction site controls should be enforced including the storage of materials, the location and appearance of<br/>site accommodation and the careful design of site lighting to prevent light spillage.</li> </ul> | ٨   |
| Mitigation Planting  |     |
| Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase   | N/A |
| Use of native plant species predominantly in the planting design for the buffer areas.   | N/A |

| Remarks: | ٨                                     | Compliance of mitigation measure;                   |  |  |  |  |  |
|----------|---------------------------------------|---|--|--|--|--|--|
|          | N/A                                   | Not Applicable;                                     |  |  |  |  |  |
|          | *                                     | Recommendation was made during site audit but       |  |  |  |  |  |
|          | improved/rectified by the contractor. |   |  |  |  |  |  |
|          | #                                     | Recommendation was made during site audit and to be |  |  |  |  |  |
|          | improve                               | d / rectified by the contractor.                    |  |  |  |  |  |
|          | Х                                     | Non-compliance of mitigation measure;               |  |  |  |  |  |
|          | •                                     | Non-compliance but rectified by the contractor;     |  |  |  |  |  |

#### APPENDIX H EVENT ACTION PLANS FOR CONSTRUCTION NOISE

#### **Appendix H- Event and Action Plan for Construction Noise**

|              | ACTION   |   |   |   |  |  |  |  |  |  |  |
|--------------|--|---|---|---|--|--|--|--|--|--|--|
| EXCEEDANCE   | ET   | IEC   | Engineer  | Contractor  |  |  |  |  |  |  |  |
| Action Level | <ol> <li>Notify IEC and the HKKT.</li> <li>Carry out investigation.</li> <li>Report the results of investigation to IEC and the HKKT.</li> <li>Discuss with the HKKT and formulate remedial measures.</li> <li>Increase monitoring frequency to check mitigation measures.</li> </ol>  | Review with analyzed results submitted by ET.     Review the proposed remedial measures by the HKKT and advise ER accordingly.     Supervise the implement of remedial measures.  | <ol> <li>Confirm receipt of notification of exceedance in writing.</li> <li>Notify the HKKT.</li> <li>Require the HKKT to propose remedial measures for the analyzed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>  | Submit noise mitigation proposals to IEC.     Implement noise mitigation proposals.   |  |  |  |  |  |  |  |
| Limit Level  | <ol> <li>Identify the source.</li> <li>Notify IEC, ER, EPD and the HKKT.</li> <li>Repeat measurement to confirm findings.</li> <li>Increase monitoring frequency.</li> <li>Carry out analysis of HKKT's working procedures to determine possible mitigation to be implemented.</li> <li>Inform IEC, ER, and EPD the causes &amp; actions taken for the exceedances.</li> <li>Assess effectiveness of the HKKT's remedial actions and keep IEC, EPD and ER informed of the results.</li> <li>If exceedance stops, cease additional monitoring.</li> </ol> | Discuss amongst ER, ET     Leader and the HKKT on     the potential remedial     actions.     Review the HKKT's     remedial actions whenever     necessary to assure their     effectiveness and advise ER     accordingly.     Supervise the     implementation of remedial     measures. | 1. Confirm receipt of notification of exceedance in writing. 2. Notify the HKKT. 3. Require the HKKT to propose remedial measures for the analyzed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the HKKT to stop that activity of work until the exceedance is abated. | <ol> <li>Take immediate action to avoid further exceedance.</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Resubmit proposals if problem still not under control.</li> <li>Stop the relevant activity of works as determined by the ER until the exceedance is abated.</li> </ol> |  |  |  |  |  |  |  |

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#### APPENDIX I TENTATIVE CONSTRUCTION PROGRAMME

SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Hong Kong Kwong Tai Builders Ltd Date: 30-May-2011 Master Programme 2012年 2011年 開始時間 完成時間 工期 Task Name 識別 WBS Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Dec 2 Jan 20 Feb 2 碼 27/7/2011 Construction of a Secondary Boundary Fence from Mai Po 15/1/2010 548 days to Lok Ma Chau Control Point 15/11/2010 15/3/2011 116 days bird migratory season 2 1.1 Application of permits and licences required under legislatic 28 days 15/1/2010 11/2/2010 3 1.2 30/1/2010 21/1/2010 Conition surveying & submission of report 10 days 4 1.3 18/2/2010 13/3/2010 24 days Site Office setup 5 1.4 17/3/2010 1/2/2010 45 days Site mobilization 6 1.5 285 days 20/1/2010 31/10/2010 7 1.6 Material submissions Submission and approval of XPM mesh 181 days 20/1/2010 19/7/2010 8 1.6.1 11/5/2010 25/1/2010 107 days Submission of concrete mix design 1.6.2 9 5/3/2010 18/3/2010 14 days submission of spacer 10 1.6.3 18/10/2010 28 days 21/9/2010 submission of sub-base material 11 1.6.4 31/10/2010 4/10/2010 28 days submission of bituminous material 12 1.6.5 8/5/2010 9/4/2010 30 days 13 1.7 Initital site survey 26/7/2010 30/3/2010 119 days 14 1.8 Mock up panel 30/3/2010 18/5/2010 50 days submission and approval of shop drawing and method 15 1.8.1 26/7/2010 20/7/2010 7 days 16 1.8.2 fix mock up panel 28/4/2010 15/1/2010 104 days 17 1.9 Submissions 15/1/2010 15/1/2010 Submission to EPD as required under the Environment 1 day 1.9.1 18 Permit 15/1/2010 14/4/2010 Submission of temporary traffic arrangement 90 days 19 1.9.2 13/2/2010 15/1/2010 submission of safety aspect schedule 30 days 1.9.3 20 28/4/2010 28/4/2010 1 day submission of safety plan 21 1.9.4 1/3/2010 1/3/2010 Submission of Environmental Management Plan 1 day 22 1.9.5 12/3/2010 11/2/2010 30 days 23 1.9.6 submission of waste management plan 18/3/2010 4/4/2010 Submission of Smart Card System 18 days 24 1.9.7 17/1/2011 303 days 19/3/2010 application of excavation permit (XP Permit) 25 1.10 3/9/2010 19/3/2010 169 days 26 1.10.1 1 day 3/9/2010 3/9/2010 CH0+285 to CH 0+315(Zone 30 - Zone 27 1.10.1.1 31)PlanID: 1006307 30/8/2010 30/8/2010 CH 3+270 to 3+300(Zone 54)PlanID: 1006328 1 day 1.10.1.2 28 12/7/2010 12/7/2010 CH 2+790 to CH 2+900(Zone 51)PlanID: 1006320 1 day 1.10.1.3 29 12/7/2010 12/7/2010 CH 2+900 to 3+030(Zone 51 - Zone 52)PlanID: 1 day 1.10.1.4 30 1006328 29/7/2010 29/7/2010 CH 3+030 to CH 3+270(Zone 52 -1 day 31 1.10.1.5 Zone54)PlanID: 1006328 12/7/2010 CH+000 to CH+090(Zone 29)PlanID: 1006307 1 day 12/7/2010 1.10.1.6 32 5/8/2010 5/8/2010 1 day CH+090 to CH 0+285(Zone 29 - Zone 30)PlanID: 1.10.1.7 33 CH 2+550 to CH 2+790(Zone 49 - Zone 12/5/2010 12/5/2010 1 day 34 1.10.1.8 51)PlanID: 1006326 19/3/2010 19/3/2010 1 day CH 0+600 to CH 0+800(Zone33 - Zone 1.10.1.9 35 35)PlanID: 1006317 13/7/2010 13/7/2010 CH 0+315 to CH 0+600(Zone 31 - Zone 1 day 36 1.10.1.10 33)PlanID: 1006317 19/4/2010 19/4/2010 1 day CH 0+800 to CH 1+020(Zone 35 - Zone 37 1.10.1.11 37)PlanID: 1006319 17/5/2010 17/5/2010 1 day CH 1+020 to CH 1+050(Zone 37)PlanID: 1006319 1.10.1.12 38 14/6/2010 CH 1+050 to CH 1+260(Zone 37 - Zone 1 day 14/6/2010 39 1.10.1.13 39)PlanID: 1006321 26/8/2010 26/8/2010 40 1.10.1.14 CH 1+260 to CH 1+500(Zone 39 - Zone 1 day 40)PlanID: 1006321 27/7/2010 27/7/2010 1 day CH 1+500 to CH 1+650(Zone 41 - Zone 41 1.10.1.15 42)PlanID: 1006321 19/3/2010 19/3/2010 CH 1+650 to CH 1+850(Zone 42 - Zone 1 day 42 1.10.1.16 44)PlanID: 1006324 Page 1

| ng Kong Kwon           | g Tai Builders Ltd   |                  | SS W317 - Co | nstruction of a  | Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point<br>Master Programme   | R<br>Date: 30-May-                          |
|------------------------|--|------------------|--------------|--|---|---|
| 別 WBS T                | 'ask Name  | 工期               | 開始時間         | 完成時間   | 2010年   2011年   201 | 2012年<br>Sep 2 Oct 2 Nov 2 Dec 2 Jan 20 Feb |
| 3 1.10.1.17            | CH 1+850 to CH 2+070(Zone 44 - Zone<br>45)PlanID: 1006324  | 1 day            | 19/4/2010    | 19/4/2010  |   |   |
| 1.10.1.18              | CH 2+070 to CH 2+150(Zone 45 - Zone  | 1 day            | 17/5/2010    | 17/5/2010  |   |   |
| 1.10.1.19              | 46)PlanID: 1006324<br>CH 2+150 to CH 2+310(Zone 46 - Zone  | 1 day            | 14/6/2010    | 14/6/2010  |   |   |
| 1.10.1.20              | 47)PlanID: 1006325<br>CH 2+310 to CH 2+550(Zone 47 - Zone  | 1 day            | 13/7/2010    | 13/7/2010  |   |   |
| 1.10.2                 | 49)PlanID: 1006325  2nd stage  | 1 day            | 17/1/2011    | 17/1/2011  |   | ·<br>•<br>•                                 |
| 1.10.2.1               | CH0+86 to CH4050 (Gate 24)   | 1 day            | 17/1/2011    | 17/1/2011  |   |   |
|                        |  | 300 days         | 19/4/2010    | 17/2/2011  |   |   |
| ) 1.11<br>) 1.11.1     | 1st stage  | 169 days         | 19/4/2010    | 4/10/2010  |   |   |
| 1.11.1.1               | CH0+285 to CH 0+315(Zone 30 - Zone 31)   | 1 day            | 4/10/2010    | 4/10/2010  |   |   |
|                        | CH 3+270 to 3+300(Zone 54)   | 1 day            | 30/9/2010    | 30/9/2010  | · · ·   |   |
| 1.11.1.2               | CH 2+790 to CH 2+900(Zone 51)  | 1 day            | 12/8/2010    | 12/8/2010  |   | ·<br>•                                      |
| 1.11.1.3               | CH 2+900 to CH 2+900(Zone 51)  CH 2+900 to 3+030(Zone 51 - Zone 52)  | 1 day            | 12/8/2010    | 12/8/2010  |   |   |
| 1.11.1.4               | CH 2+900 to 3+030(Zone 51 - Zone 52)  CH 3+030 to CH 3+270(Zone 52 - Zone54)   | 1 day            | 29/8/2010    | 29/8/2010  | <b>'</b>  | ·<br>:                                      |
| 1.11.1.5               |  | 1 day            | 12/8/2010    | 12/8/2010  |   |   |
| 5 1.11.1.6             | CH+000 to CH+090(Zone 29)  |                  | 5/9/2010     | 5/9/2010   |   | <u>:</u><br>:                               |
| 7 1.11.1.7             | CH+090 to CH 0+285(Zone 29 - Zone 30)  | 1 day            |              | 12/6/2010  |   |   |
| 8 1.11.1.8             | CH 2+550 to CH 2+790(Zone 49 - Zone 51)  | 1 day            | 12/6/2010    | The second section of the second section of the second section of the second section s |   |   |
| 9 1.11.1.9             | CH 0+600 to CH 0+800(Zone33 - Zone 35)   | 1 day            | 19/4/2010    | 19/4/2010  |   |   |
| 0 1.11.1.10            | CH 0+315 to CH 0+600(Zone 31 - Zone 33)  | 1 day            | 13/8/2010    | 13/8/2010  |   |   |
| 1.11.1.11              | CH 0+800 to CH 1+020(Zone 35 - Zone 37)  | 1 day            | 20/5/2010    | 20/5/2010  |   |   |
| 2 1.11.1.12            | CH 1+020 to CH 1+050(Zone 37)  | 1 day            | 17/6/2010    | 17/6/2010  |   |   |
| 3 1.11.1.13            | CH 1+050 to CH 1+260(Zone 37 - Zone 39)  | 1 day            | 15/7/2010    | 15/7/2010  |   | :   |
| 54 1.11.1.14           | CH 1+260 to CH 1+500(Zone 39 - Zone 40)  | 1 day            | 26/9/2010    | 26/9/2010  |   | *<br>:                                      |
| 65 1.11.1.15           | CH 1+500 to CH 1+650(Zone 41 - Zone 42)  | 1 day            | 27/8/2010    | 27/8/2010  |   |   |
| 56 1.11.1.1 <i>€</i>   | The state of the s | 1 day            | 19/4/2010    | 19/4/2010  |   | :   |
| 67 1.11.1.17           | The second secon | 1 day            | 20/5/2010    | 20/5/2010  |   |   |
| 68 1.11.1.18           |  | 1 day            | 17/6/2010    | 17/6/2010  |   |   |
| 69 1.11.1.19           |  | 1 day            | 15/7/2010    | 15/7/2010  |   |   |
| 70 1.11.1.20           |  | 1 day            | 13/8/2010    | 13/8/2010  |   |   |
| 71 1.11.2              | 2nd stage  | 1 day            | 17/2/2011    | 17/2/2011  |   |   |
| 72 1.11.2.1            | CH0+86 to CH4050 (Gate 24)   | 1 day            | 17/2/2011    | 17/2/2011  |   |   |
| 73 <b>1.12</b>         | Submission   | 100 days         |              | 11/5/2010  |   |   |
|                        | Submission of Computer and mobile phone  | 26 days          | 1/2/2010     | 26/2/2010  |   | :<br>:                                      |
|                        | Submission of Subcontractor Management Plan  | 59 days          | 3/3/2010     | 30/4/2010  |   |   |
| 75 1.12.2              | Submission of Subcontractor Management Flan  Submission of EM&A works schedule   | 28 days          | 18/2/2010    | 17/3/2010  |   |   |
| 76 1.12.3              |  | 30 days          | 25/2/2010    | 26/3/2010  |   | :<br>;                                      |
| 77 1.12.4              | Submission of Landscape Plan   |                  | 1/3/2010     | 30/3/2010  |   |   |
| 78 1.12.5<br>79 1.12.6 | Submission of Baseline Monitoring Report submission of Site Management plan for trip ticket  | 30 days<br>1 day | 16/3/2010    | 16/3/2010  |   |   |
| 00 1105                | system   | 30 days          | 15/3/2010    | 13/4/2010  |   |   |
| 80 1.12.7              | submission of formwork & temporary work design   |                  |              | 13/4/2010  |   |   |
| 81 1.12.8              | submission of welding procedure  | 30 days          |              | 11/5/2010  |   |   |
| 82 1.12.9              | submission of welder certificate   | 30 days          |              |  |   |   |
| 83 1.12.10             | Submission of fencing shop drawing   | 28 days          |              | 9/5/2010   |   |   |
| 84 1.12.11             | Submission of gate shop drawing  | 28 days          |              | 9/5/2010   |   |   |
| 85 1.12.12             | Submission of method statement for footing at Pak<br>Hok Chau  | 28 days          |              | 9/5/2010   |   |   |
| 86 1.13                | Checking existing underground utilities and submit report  | 28 days          |              | 11/4/2010  | 4 10 10 10 10 10 10 10 10 10 10 10 10 10  |   |
| 87 1.14                | Site clearance prior to work   | 4 days           | 17/3/2010    | 20/3/2010  |   |   |
| 88 1.15                | Footing construction   | 262 day          | s 22/9/2010  | 20/6/2011  |   |   |
| 89 1.15.1              | CH0+000 to CH0+086   | 55 days          | 22/9/2010    | 15/11/201  |   | :   |

Rev. F SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Hong Kong Kwong Tai Builders Ltd Date: 30-May-2011 Master Programme 2012年 2011年 開始時間 完成時間 工期 識別 WBS Task Name Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov 2 Dec 2 Jan 20 Feb 2 碼 15/11/2010 35 days 12/10/2010 CH0+318 to CH0+345 90 1.15.2 15/11/2010 22/9/2010 55 days CH0+540 to CH0+620 1.15.3 91 15/11/2010 22/9/2010 55 days CH0+660 to CH1+420 92 1.15.4 15/11/2010 55 days 22/9/2010 CH1+670 to CH1+900 93 1.15.5 15/11/2010 22/9/2010 55 days CH2+010 to CH2+788 94 1.15.6 15/11/2010 22/9/2010 55 days CH2+900 to CH2+986 95 1.15.7 11/6/2011 16/3/2011 83 days CH086 to CH0+318 (Type 3 footing) 1.15.8 96 26/4/2011 16/3/2011 41 days 1000x500 Balance Beam 97 1.15.8.1 20/4/2011 16/3/2011 35 days excavation and erect formwork 98 1.15.8.1. 23/4/2011 19/3/2011 35 days rebar fixing 99 1.15.8.1. 22/3/2011 26/4/2011 35 days placing concrete 100 1.15.8.1. 11/6/2011 42 days 27/4/2011 Tie Beam CH0+086 to CH 0+318 101 1.15.8.2 27/4/2011 5/6/2011 37 days 102 1.15.8.2. excavation and erect formwork 37 days 9/6/2011 30/4/2011 rebar fixing 103 1.15.8.2. 11/6/2011 4/5/2011 37 days placing concrete 104 1.15.8.2. 16/3/2011 12/6/2011 84 days 105 1.15.9 CH0+345 to 0+540 26/4/2011 41 days 16/3/2011 106 1.15.9.1 **Fence Footing** 20/4/2011 16/3/2011 35 days 107 1.15.9.1. excavation and erect formwork 23/4/2011 35 days 19/3/2011 rebar fixing 108 1.15.9.1. 22/3/2011 26/4/2011 35 days placing concrete 1.15.9.1. 27/5/2011 12/6/2011 16 days 110 1.15.9.2 Fence Kerb 9/6/2011 27/5/2011 13 days 111 1.15.9.2. Erect formwork 12/6/2011 13 days 30/5/2011 112 1.15.9.2. placing concrete 30/5/2011 6/5/2011 24 days CH0+620 to CH0+660 1.15.10 22/5/2011 6/5/2011 16 days Fence Footing 114 1.15.10.1 6/5/2011 16/5/2011 10 days 115 1.15.10.1 excavation and erect formwork 19/5/2011 9/5/2011 10 days 116 1.15.10.1 rebar fixing 13/5/2011 22/5/2011 10 days 1.15.10.1 placing concrete 23/5/2011 30/5/2011 8 days Fence Kerb 1.15.10.2 118 29/5/2011 23/5/2011 7 days 1.15.10.2 Erect formwork 119 30/5/2011 1 day 30/5/2011 placing concrete 120 1.15.10.2 27/5/2011 69 days 16/3/2011 CH1+420 to CH1+670 121 1.15.11 14/5/2011 16/3/2011 56 days **Fence Footing** 122 1.15.11.1 7/5/2011 16/3/2011 50 days excavation and erect formwork 1.15.11.1 123 19/3/2011 11/5/2011 50 days 124 1.15.11.1 rebar fixing 50 days 14/5/2011 22/3/2011 125 1.15.11.1 placing concrete 27/5/2011 15/5/2011 13 days Fence Kerb 126 1.15.11.2 21/5/2011 7 days 15/5/2011 Erect formwork 127 1.15.11.2 27/5/2011 21/5/2011 7 days 1.15.11.2 placing concrete 128 16/3/2011 3/6/2011 76 days 1.15.12 CH1+900 to CH 2+010 129 16/3/2011 21/4/2011 36 days **Fence Footing** 130 1.15.12.1 16/3/2011 15/4/2011 30 days excavation and erect formwork 1.15.12.1 131 18/4/2011 19/3/2011 30 days rebar fixing 132 1.15.12.1 22/3/2011 21/4/2011 30 days 1.15.12.1 placing concrete 133 40 days 22/4/2011 3/6/2011 134 1.15.12.2 Fence Kerb 24/5/2011 22/4/2011 30 days Erect formwork 135 1.15.12.2 3/6/2011 30 days 4/5/2011 136 1.15.12.2 placing concrete 29/5/2011 16/4/2011 41 days CH2+788 to CH 3+125 137 **1.15.13** 16/4/2011 19/5/2011 31 days 138 1.15.13.1 **Fence Footing** 16/4/2011 13/5/2011 25 days excavation and erect formwork 139 1.15.13.1 19/4/2011 16/5/2011 25 days rebar fixing 140 1.15.13.1

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| ong Kong Kwong Tai Builders Ltd |   | SS W317 - Co | nstruction of a  | Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point  Master Programme | Re<br>Date: 30-May-20  |                                       |
|---------------------------------|---|--------------|--|---|--|---------------------------------------|
| 識別 WBS Task                     | Nama  | 工期           | 開始時間   | 完成時間  | 2010年 2011年  | 2012年                                 |
| 碼 WBS Task                      | Name  | 7-701        | PHADAIL  | 70/2/21/23  | Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 2 Jul 2 |                                       |
| 141 1.15.13.1                   | placing concrete  | 25 days      | 22/4/2011  | 19/5/2011   |  | · · · · · · · · · · · · · · · · · · · |
| 142 1.15.13.2                   | Fence Kerb  | 10 days      | 20/5/2011  | 29/5/2011   |  |                                       |
| 143 1.15.13.2                   | Erect formwork  | 7 days       | 20/5/2011  | 26/5/2011   |  |                                       |
| 144 1.15.13.2                   | placing concrete  | 7 days       | 23/5/2011  | 29/5/2011   |  |                                       |
| 145 <b>1.15.14</b>              | CH3+125 to CH 3+255   | 84 days      | 16/3/2011  | 12/6/2011   |  |                                       |
|                                 | Fence Footing   | 61 days      | 16/3/2011  | 19/5/2011   |  |                                       |
| 146 1.15.14.1                   | excavation and erect formwork   | 55 days      | 16/3/2011  | 13/5/2011   |  | •<br>:                                |
| 147 1.15.14.1                   |   | 55 days      | 19/3/2011  | 16/5/2011   |  |                                       |
| 148 1.15.14.1                   | rebar fixing  | 55 days      | 22/3/2011  | 19/5/2011   |  |                                       |
| 149 1.15.14.1                   | placing concrete  |              | 27/5/2011  | 12/6/2011   |  |                                       |
| 150 1.15.14.2                   | Fence Kerb  | 16 days      |  | 9/6/2011  |  |                                       |
| 151 1.15.14.2                   | Erect formwork  | 13 days      | 27/5/2011  |   |  |                                       |
| 152 1.15.14.2                   | placing concrete  | 13 days      | 30/5/2011  | 12/6/2011   |  |                                       |
| 153 <b>1.15.15</b>              | Gates   | 60 days      | 18/4/2011  | 20/6/2011   |  |                                       |
| 154 1.15.15.1                   | excavation and erect formwork   | 58 days      | 18/4/2011  | 18/6/2011   |  |                                       |
| 155 1.15.15.2                   | rebar fixing  | 58 days      | 19/4/2011  | 19/6/2011   |  |                                       |
| 156 1.15.15.3                   | placing concrete  | 58 days      | 20/4/2011  | 20/6/2011   |  | _                                     |
|                                 | Structural post and Fencing construction  | 238 days     | 16/11/2010   | 22/7/2011   |  | <u> </u>                              |
| 158 <b>1.16.1</b>               | CH0+050 to CH3+255  | 238 days     | 16/11/2010   | 22/7/2011   |  | <b>.</b>                              |
| 159 1.16.1.1                    | Post installation   | 235 days     | 16/11/2010   | 19/7/2011   |  | <u> </u>                              |
| 160 1.16.1.2                    | Fence installation  | 238 days     | 16/11/2010   | 22/7/2011   |  | <u> </u>                              |
| 161 1.17                        | Soft Landscape  | 547 days     | 15/1/2010  | 26/7/2011   |  |                                       |
| 162 1.17.1                      | tree survey report  | 94 days      | 25/2/2010  | 29/5/2010   |  |                                       |
| 163 1.17.2                      | Tree felling  | 167 days     | 28/5/2010  | 10/11/2010  |  |                                       |
| 164 1.17.3                      | tree protection and maintenance   | 545 days     | 15/1/2010  | 24/7/2011   |  |                                       |
| 165 1.17.4                      | new planting  | 257 days     | 1/11/2010  | 26/7/2011   |  | <b>\P</b>                             |
| 166 1.17.4.1                    | submission  | 208 days     | 1/11/2010  | 5/6/2011  |  |                                       |
| 167 1.17.4.1.                   | soil mix  | 208 days     | 1/11/2010  | 5/6/2011  |  |                                       |
| 168 1.17.4.1.                   | fertilizer  | 173 days     | 6/12/2010  | 5/6/2011  |  |                                       |
| 169 1.17.4.1.                   | conditioner and mulching  | 166 days     | 13/12/2010   | 5/6/2011  |  |                                       |
| 170 1.17.4.1.                   | plant stock photographs   | 208 days     | 1/11/2010  | 5/6/2011  |  |                                       |
| 171 1.17.4.1.:                  | drawing of tree stakes  | 159 days     | 20/12/2010   | 5/6/2011  |  |                                       |
| 172 1.17.4.2                    | planting  | 24 days      | 7/6/2011   | 30/6/2011   |  |                                       |
| 173 1.17.4.3                    | confirmation from ADI for additional trees  | 1 day        | 2/6/2011   | 2/6/2011  |  |                                       |
|                                 | submission and approval of additional trees   | 28 days      | 3/6/2011   | 2/7/2011  |  |                                       |
| 174 1.17.4.4                    | planting for additional trees   | 26 days      | 3/7/2011   | 26/7/2011   |  |                                       |
| 175 1.17.4.5                    | Remove obstructions   | 143 days     | anguaran anno ann an tao an tao ann an tao a | 14/2/2011   |  |                                       |
| 176 <b>1.18</b><br>177 1.18.1   | Joint inspection with CLP and telephone company for   | 20 days      | 20/9/2010  | 9/10/2010   | <u> </u>   |                                       |
| 178 1.18.2                      | the obstructed CLP pole and telephone pole anticipated removal of CLP pole and Telephone pole | 30 days      | 13/1/2011  | 14/2/2011   |  |                                       |
| 179 <b>1.19</b>                 | Steelwork   | 430 days     | 9/4/2010   | 22/6/2011   |  |                                       |
| 180 1.19.1                      | Submission of proposed steel fabricator   | 1 day        | 21/4/2010  | 21/4/2010   |  |                                       |
| 181 1.19.2                      | submission of proposed hot-dipped galvanizing factory   |              | 9/4/2010   | 9/4/2010  |  |                                       |
| 182 1.19.3                      | submission and approval of shop drawing   | 200 days     | 5/7/2010   | 22/1/2011   |  |                                       |
| 183 1.19.4                      | testing of steel material   | 14 days      | 19/7/2010  | 1/8/2010  |  |                                       |
| 184 1.19.5                      | procurement of steel material   | 1 day        | 15/7/2010  | 15/7/2010   |  |                                       |
| 185 1.19.6                      | fabrication of steel material   | 180 days     |  | 30/1/2011   |  |                                       |
| 186 1.19.7                      | delivery of steel material to site  | 60 days      | 16/3/2011  | 18/5/2011   |  |                                       |
| 187 1.19.8                      | installation of steel gate  | 17 days      |  | 22/6/2011   |  |                                       |
| 188 1.20                        | Electrical Installation   | 486 days     |  | 10/7/2011   |  |                                       |
|                                 |   | 90 days      |  | 29/5/2010   |  |                                       |
| 189 <b>1.20.1</b>               | Submission  | ou days      | 1/3/4010   | 251512010   |  | :                                     |

| Hong Kong Kwong Tai Builders Ltd |   |          | SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme |            |   |             |  |  |
|----------------------------------|---|----------|--|------------|---|-------------|--|--|
| 識別 WBS I                         | ask Name  | 工期       | 開始時間   | 完成時間       | 2010年 2011年   | 2012年       |  |  |
| 碼                                |   |          |  |            | Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov |             |  |  |
| 190 1.20.1.1                     | Material & Equipment submission                     | 68 days  | 1/3/2010   | 7/5/2010   |   |             |  |  |
| 91 1.20.1.2                      | Drawing & method statement submission               | 20 days  | 10/5/2010  | 29/5/2010  |   |             |  |  |
| 92 <b>1.20.2</b>                 | Revised design                                      | 6 days   | 25/10/2010   | 30/10/2010 |   |             |  |  |
| 93 1.20.2.1                      | Received of revised drawing from MM                 | 1 day    | 25/10/2010   | 25/10/2010 |   |             |  |  |
| 94 1.20.2.2                      | Submission of revised drawing by KT                 | 5 days   | 26/10/2010   | 30/10/2010 |   |             |  |  |
| 5 1.20.3                         | 24V power / 7 cores signal Cable installation       | 86 days  | 11/4/2011  | 10/7/2011  |   |             |  |  |
| 6 1.20.3.1                       | Laying and Fixing on existing cable tray at primary | 40 days  | 11/4/2011  | 23/5/2011  |   |             |  |  |
| 7 1.20.3.2                       | Installation of connection box under CCTV Panel     | 3 days   | 24/5/2011  | 26/5/2011  |   | :           |  |  |
| 8 1.20.3.3                       | Installation of conduit on New gate                 | 20 days  | 10/6/2011  | 29/6/2011  |   |             |  |  |
| 9 1.20.3.4                       | Wiring for the gate lock system                     | 10 days  | 30/6/2011  | 10/7/2011  |   | :           |  |  |
| 0 1.20.3.5                       | Installation of electrical gate Lock                | 17 days  | 23/6/2011  | 10/7/2011  |   | :           |  |  |
| 1.20.3.5.                        | Installation of electrical gate Lock                | 12 days  | 23/6/2011  | 5/7/2011   |   |             |  |  |
| 1.20.3.5.:                       | Wiring for the gate lock system                     | 14 days  | 26/6/2011  | 10/7/2011  |   | :           |  |  |
| 03 <b>1.20.3.6</b>               | Main & Submain                                      | 9 days   | 7/6/2011   | 15/6/2011  |   | •           |  |  |
| 4 1.20.3.6.                      | Switch Room 1                                       | 3 days   | 7/6/2011   | 9/6/2011   |   | :           |  |  |
| )5 1.20.3.6.:                    | Switch room 2                                       | 3 days   | 9/6/2011   | 11/6/2011  |   |             |  |  |
| 06 1.20.3.6.                     | Switch Room 3                                       | 3 days   | 13/6/2011  | 15/6/2011  |   | :           |  |  |
| 7 1.20.4                         | Pak Hok Chau CheckPoint                             | 9 days   | 15/6/2011  | 23/6/2011  |   | :           |  |  |
| 8 1.20.4.1                       | E&M installation work                               | 9 days   | 15/6/2011  | 23/6/2011  |   |             |  |  |
| 9 1.21                           | Construction of Pak Hok Chau Check Point            | 292 days | 17/8/2010  | 14/6/2011  |   | ,           |  |  |
| 1.21.1                           | Shop drawing submission and approval                | 160 days | 17/9/2010  | 28/2/2011  |   | :           |  |  |
| 1.21.2                           | provide Temporary Check point (container) on site   | 1 day    | 17/8/2010  | 17/8/2010  |   | :           |  |  |
| 1.21.3                           | HKPF Move to temporary check point                  | 10 days  | 18/10/2010   | 27/10/2010 |   | •           |  |  |
| 13 1.21.4                        | Demolition of existing check point                  | 5 days   | 28/10/2010   | 1/11/2010  |   |             |  |  |
| 14 1.21.5                        | Excavation  | 3 days   | 2/11/2010  | 4/11/2010  |   |             |  |  |
| 15 1.21.6                        | Footing   | 8 days   | 5/11/2010  | 12/11/2010 |   | :           |  |  |
| 16 1.21.7                        | Install GRP   | 13 days  | 1/6/2011   | 14/6/2011  |   |             |  |  |
| 17 1.21.8                        | Lightning pole installation                         | 1 day    | 28/5/2011  | 28/5/2011  |   |             |  |  |
| 18 <b>1.22</b>                   | Roadworks   | 272 days | 6/10/2010  | 15/7/2011  |   |             |  |  |
| .19 <b>1.22.1</b>                | reinstatement road surface                          | 272 days | 6/10/2010  | 15/7/2011  |   |             |  |  |
| 20 1.22.1.1                      | CH 0+050 to CH 0+086                                | 8 days   | 6/10/2010  | 13/10/2010 |   | :           |  |  |
| 21 1.22.1.2                      | CH 0+086 to CH 0+550                                | 35 days  | 10/6/2011  | 15/7/2011  |   | -<br>-<br>- |  |  |
| 22 1.22.2                        | Reinstatement of road kerb                          | 35 days  | 10/6/2011  | 15/7/2011  |   | •           |  |  |
| 23 <b>1.23</b>                   | Temporary fencing for MTR area                      | 226 days | 30/10/2010   | 22/6/2011  | · · · · · · · · · · · · · · · · · · ·   |             |  |  |
| 24 1.23.1                        | Application of CP to MTR                            | 1 day    | 30/10/2010   | 30/10/2010 |   | :           |  |  |
| 225 1.23.2                       | waiting reply from MTR                              | 28 days  | 31/10/2010   | 27/11/2010 |   |             |  |  |
| 26 1.23.3                        | Receive MTR work permit                             | 1 day    | 1/12/2010  | 1/12/2010  |   |             |  |  |
| 27 1.23.4                        | Tempertory Fencing construction                     | 21 days  | 16/3/2011  | 6/4/2011   |   | •           |  |  |
| 28 1.23.5                        | Demolition of existing MTR fencing                  | 12 days  | 7/4/2011   | 18/4/2011  |   |             |  |  |
| 29 1.23.6                        | replace new fence                                   | 61 days  | 19/4/2011  | 22/6/2011  |   | •           |  |  |
| 230 1.24                         | Site clearance                                      | 25 days  | 2/7/2011   | 26/7/2011  |   |             |  |  |
| 231 1.25                         | Handover  | 1 day    | 27/7/2011  | 27/7/2011  |   | <u> </u>    |  |  |

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APPENDIX J ENVIRONMENTAL MONITORING SCHEDULE S

# Contract No. SS W317 Impact Noise Monitoring for Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Noise Monitoring Schedule for February 2012

| Sunday                                  | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |  |  |
|---|--------|---------|-----------|----------|--------|----------|--|--|
|   |        |         | 1-Feb     | 2-Feb    | 3-Feb  | 4-Feb    |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
| 5-Feb                                   | 6-Feb  | 7-Feb   | 8-Feb     | 9-Feb    | 10-Feb | 11-Feb   |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        | Noise   |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
| 12-Feb                                  | 13-Feb | 14-Feb  | 15-Feb    | 16-Feb   | 17-Feb | 18-Feb   |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        |         |           | Noise    |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
| 19-Feb                                  | 20-Feb | 21-Feb  | 22-Feb    | 23-Feb   | 24-Feb | 25-Feb   |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        | Noise   |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
| 26-Feb                                  | 27-Feb | 28-Feb  | 29-Feb    |          |        |          |  |  |
| 20-1-00                                 | 27-100 | 20100   | 27-100    |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
|   |        | Noise   |           |          |        |          |  |  |
|   |        |         |           |          |        |          |  |  |
| 771 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 11 6 |         |           |          |        |          |  |  |

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

#### **Noise Monitoring Station**

VH01 - Village House at Mai Po

VH03 - Village House at Mai Po

### Contract No. SS W317 Impact Noise Monitoring for Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Tentative Noise Monitoring Schedule for March 2012

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

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

#### **Noise Monitoring Station**

VH01 - Village House at Mai Po

VH03 - Village House at Mai Po