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

June 2011

(Version 1.1)

| Certified By | Chyn |
|--------------|---|
| | 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.

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TABLE OF CONTENTS

Page

| EX | ECUTIVE SUMMARY | 3 |
|---|---|--|
| 1 | INTRODUCTION | 5 |
| Bac | kground | 5 |
| Proj | ect Organizations | 6 |
| Con | struction Programme | 6 |
| Sum | nmary of EM&A Requirements | 7 |
| 2 | NOISE | 8 |
| Mor | nitoring Requirements | 8 |
| Mor | nitoring Locations | 8 |
| Mor | nitoring Equipment | 8 |
| Mor | nitoring Parameters, Frequency and Duration | 8 |
| Mor | nitoring Methodology and QA/QC Procedures | 9 |
| Mai | ntenance and Calibration | 9 |
| Res | ults and Observations | 9 |
| 3 | ENVIRONMENTAL AUDIT | 1 |
| - | | I |
| Env | ironmental Site Audits | |
| | | 1 |
| Stat | ironmental Site Audits | 1 1 |
| Stat Stat | ironmental Site Audits | 1 1 2 |
| Stat Stat Imp | ironmental Site Audits | 1 1 2 2 |
| Stat Stat Imp Imp | ironmental Site Audits | 1 1 2 2 2 |
| Stat Stat Imp Imp | ironmental Site Audits | 1 1 2 2 2 |
| Stat Stat Imp Imp Sum 4 | ironmental Site Audits1us of Environmental Licensing and Permitting.1us of Waste Management1lementation Status of Environmental Mitigation Measures1lementation Status of Event Action Plans1nmary of Complaints and Prosecutions1 | 1 2 2 2 4 |
| Stat Stat Imp Imp Sum 4 Key | ironmental Site Audits | 1 2 2 2 4 4 |
| Stat Stat Imp Sum 4 Key Con | ironmental Site Audits | 1 2 2 2 4 4 4 |
| Stat Stat Imp Sum 4 Key Con | ironmental Site Audits1us of Environmental Licensing and Permitting.1us of Waste Management12elementation Status of Environmental Mitigation Measures12elementation Status of Event Action Plans12nmary of Complaints and Prosecutions12FUTURE KEY ISSUES14v Issues for the Coming Month14estruction Program for the Next Month14 | 1 2 2 2 4 4 4 4 |
| Stat Stat Imp Sum 4 Key Con Mor 5 | ironmental Site Audits 1 us of Environmental Licensing and Permitting. 1 us of Waste Management 12 lementation Status of Environmental Mitigation Measures 12 lementation Status of Event Action Plans 12 nmary of Complaints and Prosecutions 12 r Issues for the Coming Month 14 astruction Program for the Next Month 14 nitoring Schedule for the Next Month 14 | 1 1 2 2 2 2 4 4 4 5 |

LIST OF TABLES

- Table I
 Summary Table for Events Recorded in the Reporting Month
- Table II
 Summary of Key Information in the Reporting Month
- Table 1.1Key Project Contacts
- Table 1.2Monitoring Requirements
- Table 2.1
 Locations of Noise Monitoring Station
- Table 2.2Noise Monitoring Equipment
- Table 2.3
 Noise Monitoring Parameters, Frequency and Duration
- Table 2.4Baseline Noise Levels and Allowed Construction Noise Level for Monitoring
Table
- Table 2.5Wind Speed on Monitoring Date
- Table 3.1
 Observations and Recommendations of Site Audits
- Table 3.2
 Environmental License or Permit Obtained in Reporting Month
- Table 3.3Accumulated Number of Complaint Received Since the Commencement of the
Project

LIST OF FIGURE

- Figure 1.1 Site Layout Plan
- Figure 1.2 ET's Organization Chart
- Figure 1.3 Project Organization Chart
- Figure 2.1 Locations of Construction Noise Monitoring Stations

LIST OF APPENDICES

- Appendix A Action and Limit Levels
- Appendix B Copies of Calibration Certificates
- Appendix C Summary of Exceedance
- Appendix D Noise Monitoring Results and Graphical Presentations
- Appendix E Site Audit Summary
- Appendix F Summary of Waste Generated
- Appendix G Environmental Mitigation Implementation Schedule (EMIS)
- Appendix H Event Action Plans for Construction Noise
- Appendix I Tentative Construction Programme
- Appendix J Environmental Monitoring Schedule

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 June 2011.
- 2. The site activities undertaken in the reporting month were:
 - Excavation work;
 - Blinding concrete;
 - Fixing reinforcement and formwork for footing;
 - Placing footing concrete;
 - Fixing reinforcement and formwork for curb;
 - Placing concrete for curb;
 - Backfill;
 - Erection of fence post; and
 - Erection of fence mesh.

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 1, 8, 15, 24 and 29 June 2011. 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 | Parameter No. of Events | | No. of Events | Action Taken | |
|-----------|-------------------------|-------------|--------------------|--------------|--|
| | Action Level | Limit Level | Due to the Project | ACTION LAKEN | |
| 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. Summary of key information in the reporting month are in **Table II**.

| | | Event Details | | 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 under EP | 1 | Monthly EM&A Report | Submitted to EPD on 14 June 2011 | No Comment | | | |
| Notifications of any summons 0 prosecutions received | | | N/A | N/A | | | |
| Major site activities • Erect fencing a • Tree protection | Future Key Issues: Major site activities for the coming two months include: Erect fencing and install steel post; Tree protection and maintenance: whole site; and | | | | | | |

Table II Summary of Key Information in the Reporting Month

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 June 2011.

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.

| 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 | 27094104 |
| | Dr. Priscilla Choy | Contractor's Environmental Team Leader (CETL) | 2151 2089 | |
| Contractor's ET | Mr. Gary Lau | Project Coordinator & Audit Team Leader | 2151 2098 | 3107 1388 |
| | Mr. Henry Leung | Monitoring Team Leader | 9779 7340 | |
| IEC | Mr. David Yeung | Independent Environmental Checker (IEC) | 3743 0717 | 3548-6988 |
| IEC | Mr. Simon Lam | Independent Environmental Checker (IEC) Representative | 3743 0708 | 5540-0988 |

Table 1.1Key Project Contacts

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:
 - Excavation work;
 - Blinding concrete;
 - Fixing reinforcement and formwork for footing;
 - Placing footing concrete;
 - Fixing reinforcement and formwork for curb;
 - Placing concrete for curb;
 - Backfill;
 - Erection of fence post; and
 - Erection of fence mesh.

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:

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

Table 1.2 Monitoring Requirements

- 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 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 June 2011.

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 | SV30A | 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 on weekdays | Once per week | L _{eq} (30min.) dB(A) L ₁₀ (30min.) dB(A), & L ₉₀ (30min.) dB(A) | Façade 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 : A
 - time 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 2.4Baseline Noise Levels and Allowed Construction Noise Level (CNL)for the Monitoring Stations

| Station | Baseline Noise Level, dB (A) | Allowed CNL, 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 2.5Wind Speed on Monitoring Date

| Monitoring Date | Wind S | Speed (m/s) |
|-----------------|--------------------|-------------|
| | Monitoring Station | |
| | VH01 | VH03 |
| 2/6/2011 | 0.5 | 0.3 |
| 9/6/2011 | 0.2 | 0.2 |
| 15/6/2011 | 0.6 | 0.9 |
| 23/6/2011 | 0.8 | 0.2 |
| 29/6/2011 | 0.5 | 0.4 |

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 1, 8, 15, 24 and 29 June 2011. 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 Construction works with the use of powered mechanical equipment resumed from 16th March 2011.
- 3.5 No excavation work was conducted by the Contractor within the 150m buffer zone from the egretry was observed in the ET site audits in the reporting period
- 3.6 The summaries of site audits are attached in Appendix E.
- 3.7 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 3.1**.

| Parameters | Date (Ref. no.) | Observations | Remediation/ Follow up |
|-------------------------|--------------------|--|---|
| Air Quality | 110601-003 | To clear the soil/sand at the site boundary | The soil/sand at the site boundary was cleared by the Contractor on 8/6/2011. |
| | 110601-001 | To fill the hole at the bottom of the Primary Boundary Fence with geo- textile. | The hole was filled with geo-textile by the Contractor on 8/6/2011. |
| Water Quality | 110615-001 | Geo-textile was found missing in some of the holes at the bottom of the Primary Boundary Fence, The Contractor was reminded to repair it regularly | The holes were filled with Geo-textile by the Contractor on 24/6/2011. |
| Landscape and Visual | | | |
| Waste / Chemical | 110601-002 | To provide drip tray to contain the chemicals to prevent leakage. | The item was found outstanding during the site inspection and recorded as 110608-O01. |
| Management | 110608-001 | To provide drip tray to contain the chemicals to prevent leakage. | The chemicals were removed by the Contractor on 15/6/2011. |

Table 3.1Observations and Recommendations of Site Audits

Status of Environmental Licensing and Permitting

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

| Type of License/ | Number | Valid Period | | Details | Status |
|---|-----------------------|--------------|-----|---|--------|
| Permit | number | From | То | Details | Status |
| VEP | EP-347 /2009/A | 15/06/2010 | N/A | Location: Boundary patrol road between Mai Po and Lok Ma Chau Control | Valid |
| FEP | FEP- 01/347/2009 | 19/02/2010 | N/A | Point | Valid |
| Registration as Chemical Waste Producer | 5213-542- H3263-02 | 29/03/2010 | N/A | i) Location of waste is produced: Border Road, Yuen Longii) Major chemical waste: Waste paint drum, waste paint can and waste paint. | Valid |
| Billing Account under Waste Disposal Ordinance | 7010229 | 11/02/2010 | N/A | Disposal of construction and demolition waste under Waste Disposal Ordinance | Valid |
| Form NA | 314415 | 23/02/2010 | N/A | Notification pursuant to Section 3(1) of the Air Pollution Control Ordinance (Construction Dust) Regulation | N/A |

Table 3.2 Environmental License or Permit Obtained in Reporting Month

Status of Waste Management

3.9 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

3.10 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

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

Construction Noise

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

Summary of Complaints and Prosecutions

3.13 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 3.3AccumulatedNumber ofComplaintReceivedSince theCommencement of the Project

| Nature of Complaint | Number of Complaint in the Reporting Month | Accumulated Number of Complaint Since the 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:
 - Storage of chemicals/fuel and chemical waste/waste oil on-site;
 - Runoff control, especially the work area closed to fish pondl;
 - Larviciding against mosquito breeding in stagnant water should be carried out at least on a weekly basis;
 - Site tidiness;
 - Maintenance of the protection fence for retaining trees; and
 - No excavation works within a 150m buffer zone from the egretry shall be allowed between 1st March and 31st July inclusive.

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 Five environmental site audits were performed in June 2011. 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.

Noise Impact

• No excavation works within a 150m buffer zone from the egretry shall be allowed between 1st March and 31st July inclusive.

Water Quality Impact

- To regularly maintain the condition of u-channel, catch pits and wheel washing facilities on site;
- To regularly maintain the sediment control measures after rainstorms;
- To avoid water from accumulation on site and carry out larviciding against mosquito breeding for stagnant water when mosquito larvae are observed;

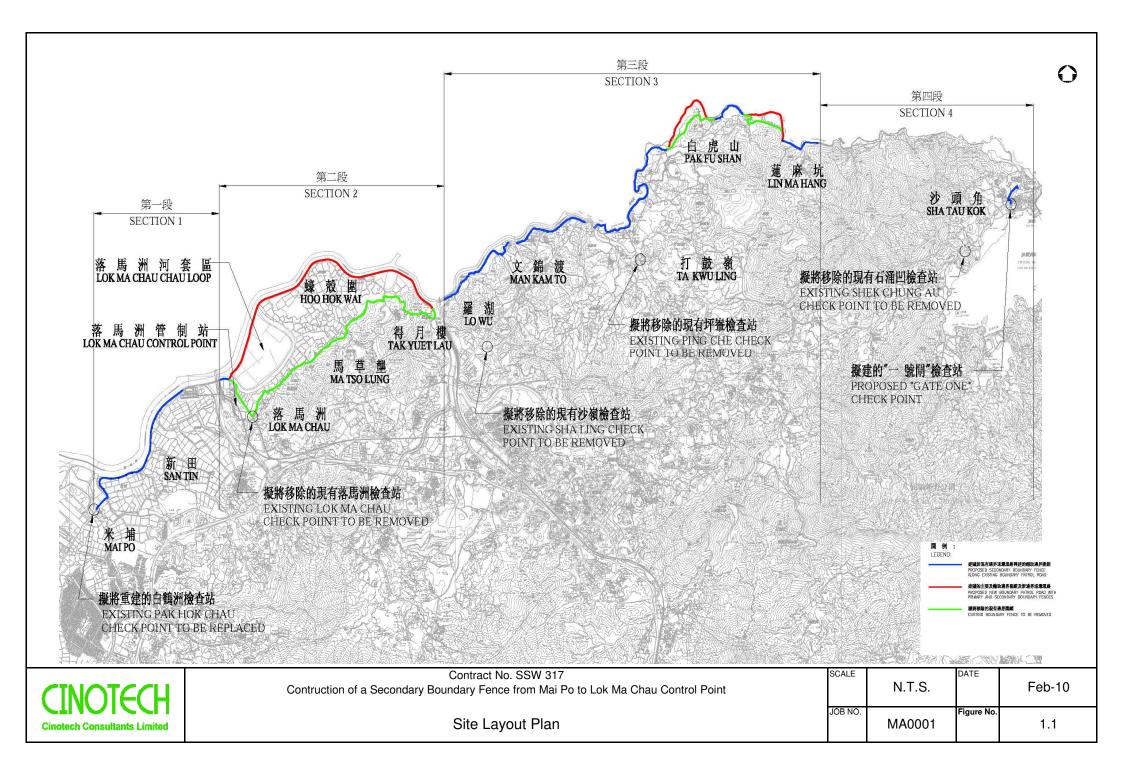
Waste/Chemical Management

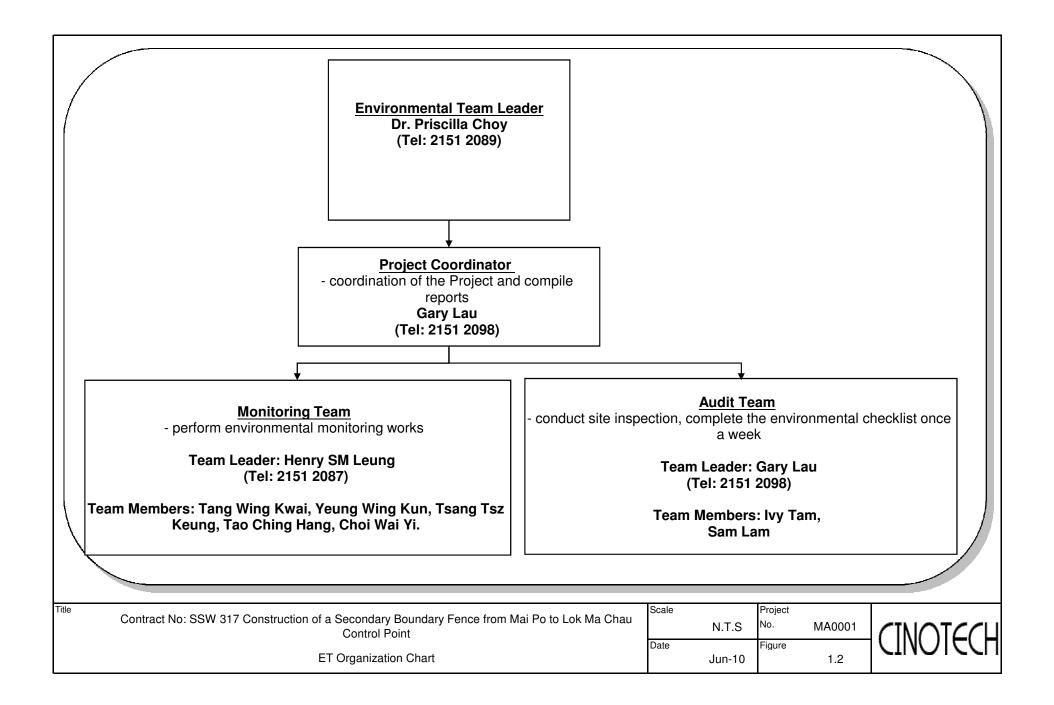
- To check for any accumulation of waste materials or rubbish on site;
- To avoid any discharge of chemical waste or oil directly from the site;
- To well maintain the equipments and drip trays to avoid oil leakage;
- To avoid improper handling or storage of oil and paint drum on site.

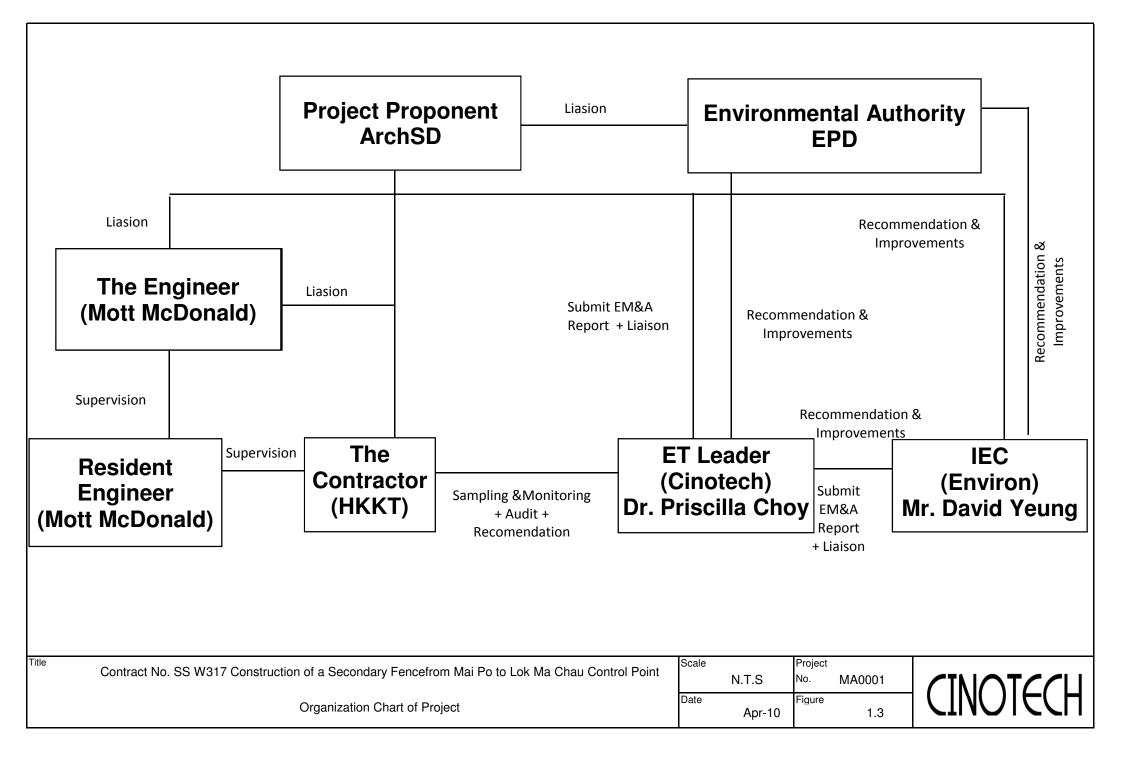
Landscape

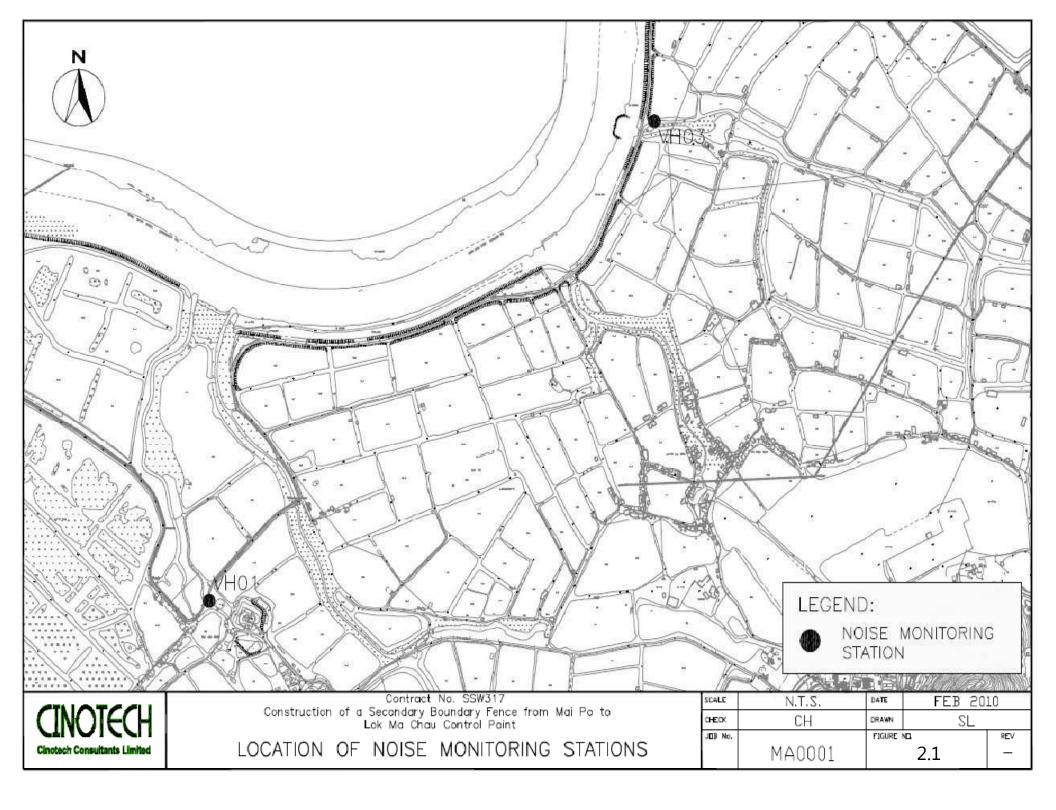
- To maintain the protection fencing surround the retaining trees;
- To remove the felled tree to avoid damage on retaining trees;
- To remove materials and equipments placed within the tree protection area;
- To conduct tree pruning works by approved landscape contractor; and
- To replant vegetation at the earliest possible stage of the construction phase.

FIGURE









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 weekdays | When one documented complaint is received | 75 dB(A) |

APPENDIX B COPIES OF CALIBRATION CERTIFICATES



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

1 of 1

TEST REPORT

APPLICANT: Cinotech Consultants Limited Test Report No.: C/N/110124/1 Date of Issue: Room 1710, Technology Park, 2011-01-24 18 On Lai Street, Date Received: 2011-01-21 Shatin, NT, Hong Kong Date Tested: 2011-01-21 Date Completed: 2011-01-24 Next Due Date: 2012-01-23

ATTN: Mr. Henry Leung

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 |
| | |

Page:

Test conditions:

Room Temperatre Relative Humidity : 23 degree Celsius : 55%

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 Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

| | TEST | REPOR | KT | |
|-----------------|--------------------------------------|----------------------|------------------|--------------|
| APPLICANT: | Cinotech Consultants L | imited | Test Report No.: | C/N/101110/1 |
| | Room 1710, Technology | y Park, | Date of Issue: | 2010-11-10 |
| | 18 On Lai Street, | | Date Received: | 2010-11-08 |
| | Shatin, NT, Hong Kong | 5 | Date Tested: | 2010-11-08 |
| | | | Date Completed: | 2010-11-10 |
| | | | Next Due Date: | 2011-11-09 |
| ATTN: | Mr. Henry Leung | | Page: | 1 of 1 |
| Item for calibr | ation: | | | |
| | Description | : Acoustic | al Calibrator | |
| | Manufacturer | : SVANTE | EK | |
| | Model No. | : SV30A | | |
| | Serial No. | : 10965 | | |
| | Equipment No. | : N-09-02 | | |
| Test conditions | 8: | | | |
| | Room Temperatre Relative Humidity | : 22 degree : 57% | e Celsius | |

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

This report may not be reproduced except with prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested.

APPENDIX C SUMMARY OF EXCEEDANCE **Appendix C – Summary of Exceedance**

Reporting Month: June 2011

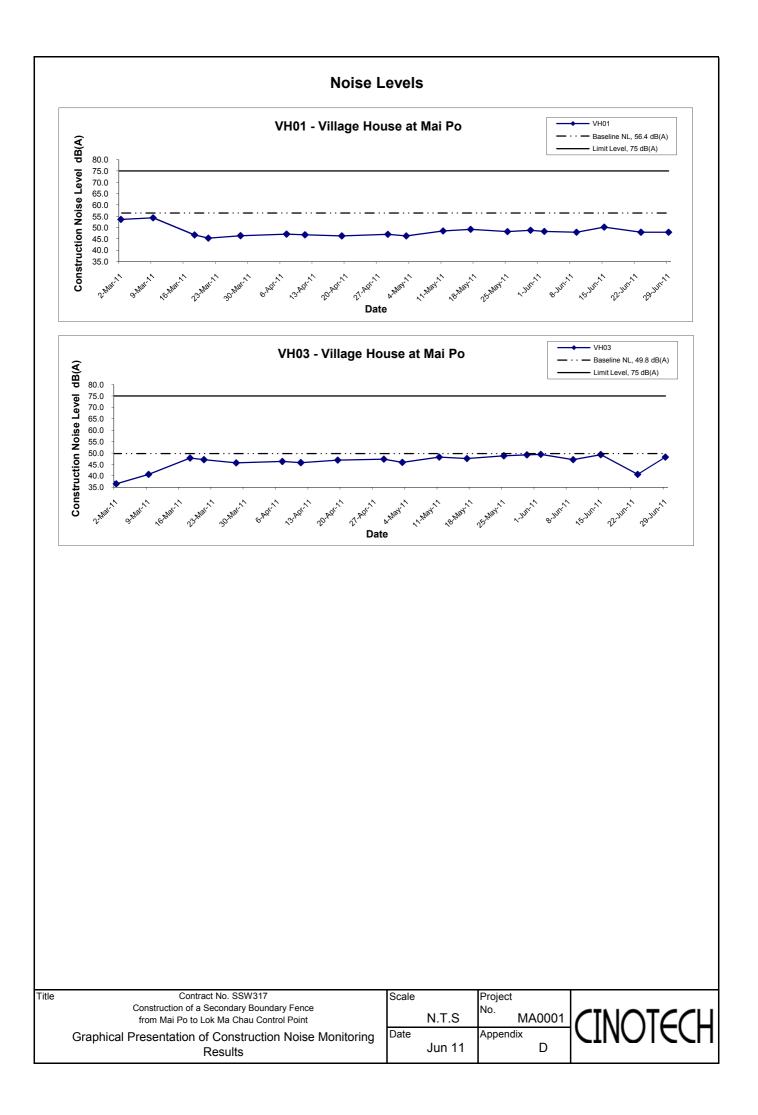
Exceedance Report for Construction Noise (NIL)

APPENDIX D NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix D - Noise Monitoring Results

| Location VH0 | 1 - Village H | louse at Mai F | °0 | | | | |
|--------------|---------------|----------------|-----------------|-----------------|-----------------|-----------------|-------------------------------|
| | | | | | Unit: | dB (A) (30-min) | |
| Date | Time | Weather | Meas | sured Noise | Level | Baseline Level | Construction Noise Level |
| | | | L _{eq} | L ₁₀ | L ₉₀ | L _{eq} | L _{eq} |
| 2-Jun-11 | 15:15 | Sunny | 48.3 | 51.2 | 45.1 | | 48.3 Measured \leq Baseline |
| 9-Jun-11 | 15:15 | Sunny | 47.9 | 49.3 | 44.6 | | 47.9 Measured \leq Baseline |
| 15-Jun-11 | 10:00 | Sunny | 50.2 | 51.9 | 46.3 | 56.4 | 50.2 Measured \leq Baseline |
| 23-Jun-11 | 11:25 | Cloudy | 47.9 | 49.6 | 46.2 | | 47.9 Measured \leq Baseline |
| 29-Jun-11 | 13:15 | Cloudy | 47.9 | 49.3 | 43.2 | | 47.9 Measured \leq Baseline |

| Location VH0 | 3 - Village H | louse at Mai F | °0 | | | | |
|--------------|---------------|----------------|-----------------|-----------------|-----------------|-----------------|-------------------------------|
| | | | | | Unit: | dB (A) (30-min) | |
| Date | Time | Weather | Meas | sured Noise | Level | Baseline Level | Construction Noise Level |
| | | | L _{eq} | L ₁₀ | L ₉₀ | L _{eq} | L _{eq} |
| 2-Jun-11 | 16:15 | Sunny | 49.4 | 52.7 | 42.6 | | 49.4 Measured \leq Baseline |
| 9-Jun-11 | 16:20 | Sunny | 47.1 | 48.8 | 44.2 | | 47.1 Measured \leq Baseline |
| 15-Jun-11 | 11:00 | Sunny | 49.3 | 51.2 | 46.4 | 49.8 | 49.3 Measured \leq Baseline |
| 23-Jun-11 | 10:10 | Cloudy | 50.3 | 52.0 | 48.1 | | 40.7 |
| 29-Jun-11 | 14:10 | Cloudy | 48.2 | 50.3 | 43.9 | | 48.2 Measured \leq Baseline |



APPENDIX E SITE AUDIT SUMMARY

Contract No. SS W317 Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point Weekly Site Inspection Record Summary

Inspection InformationChecklist Reference Number110601Date1 June 2011 (Wednesday)Time10:00 - 11:15

| | | 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 | |

| | Demindere | Related |
|------------|---|----------|
| <u> </u> | Reminders | Item No. |
| | The Contractor was reminded to implement the following preventive measures: | |
| 110/01 001 | B. Water Quality | |
| 110601-001 | • To fill the hole at the bottom of the Primary Boundary Fence with geo-textile. | B 2 |
| | C. Air Quality | |
| 110601-003 | • To clear the soil/sand at the site boundary | C 2 |
| | D. Construction Noise Impact | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Waste / Chemical Management | |
| 110601-002 | To provide drip tray to contain the chemicals to prevent leakage. | E 8 |
| | F. Landscape | |
| ••••• | No environmental deficiency was identified during site inspection. | |
| | G. Permits/Licenses | |
| | No environmental deficiency was identified during site inspection. | |
| | H. Others | |
| <u> </u> | Follow-up on previous audit session (Ref. 110527), item 110527-O02 will be followed up in next site inspection. | |

| 1 June 2011 |
|-------------|
| 1 June 2011 |
| • |

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Contract No. SS W317

<u>Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point</u> Weekly Site Inspection Record Summary

Inspection Information

| Checklist Reference Number | 110608 |
|----------------------------|-------------------------|
| 4 | 8 June 2011 (Wednesday) |
| Time | 10:00 - 11:15 |

| | | 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 | |

| | | Related |
|--|---|----------|
| | Reminders | 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 | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Construction Noise Impact | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Waste / Chemical Management | |
| 110608-001 | To provide drip tray to contain the chemicals to prevent leakage. | E 8 |
| | F. Landscape | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Permits/Licenses | |
| | No environmental deficiency was identified during site inspection. | |
| | H. Others | |
| ···· · · · · · · · · · · · · · · · · · | Follow-up on previous audit session (Ref. 110601), item 110601-O02 will be followed up in next site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|-------------|
| Recorded by | Gary Lau | banle. | 8 June 2011 |
| Checked by | Dr. Priscilla Choy | IST | 8 June 2011 |

Contract No. SS W317

<u>Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point</u> Weekly Site Inspection Record Summary

Inspection Information

| Checklist Reference Number | 110615 |
|----------------------------|--------------------------|
| Date | 15 June 2011 (Wednesday) |
| Time | 10:00 – 11:15 |

| | | 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. |
|------------|--|---------------------|
| | The Contractor was reminded to implement the following preventive measures: | |
| | B. Water Quality | |
| 110615-001 | • Geo-textile was found missing in some of the holes at the bottom of the Primary Boundary Fence, The Contractor was reminded to repair it regularly. | B 2 |
| | 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. | |
| | G. Permits/Licenses | |
| | No environmental deficiency was identified during site inspection. | |
| | H. Others | |
| | Follow-up on previous audit session (Ref. 110608), all environmental deficiency was improved by the Contractor. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Gary Lau | hoin C- | 16 June 2011 |
| Checked by | Dr. Priscilla Choy | NIL | 16 June 2011 |
| | | | |

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Contract No. SS W317 Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point

Weekly Site Inspection Record Summary

Inspection Information

| Checklist Reference Number | 110624 |
|----------------------------|-------------------------|
| Date | 24 June 2011 (Friday) |
| Time | 14:00 - 14:30 |

| | | 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 | |

| | Related |
|---|----------|
| Reminders | 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 | |
| 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. | |
| G. Permits/Licenses | |
| No environmental deficiency was identified during site inspection. | |
| H. Others | |
| Follow-up on previous audit session (Ref. 110615), all environmental deficiency was improved by the Contractor. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Gary Lau | Cample. | 24 June 2011 |
| Checked by | Dr. Priscilla Choy | I ISE | 24 June 2011 |
| | | • | |

Contract No. SS W317

<u>Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point</u> Weekly Site Inspection Record Summary

Inspection Information

| Checklist Reference Number | 110629 |
|----------------------------|--------------------------|
| Date | 29 June 2011 (Wednesday) |
| Time | 14:30 15:15 |

| | | 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 | |
| <u> </u> | • 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 | |
| , | 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. | |
| | G. Permits/Licenses | |
| | No environmental deficiency was identified during site inspection. | |
| | H. Others | |
| | Follow-up on previous audit session (Ref. 110624), all environmental deficiency was improved by the Contractor. | |

| ······································ | Name | Signature | Date |
|--|--------------------|-----------|--------------|
| Recorded by | Gary Lau | Come | 29 June 2011 |
| Checked by | Dr. Priscilla Choy | Wit | 29 June 2011 |

APPENDIX F SUMMARY OF WASTE GENERATED Contract No. : SS W317

Programme No.

15 GB

Monthly Summary Waste Flow Table for 2011 (year) [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.)

| | Act | ual Quantities of Ir | nert C&D Materia | als Generated Mon | thly | | Actual Quantities | s of C&D Waste | s Generated Mont | hly |
|-----------|--|--|----------------------------------|------------------------------------|-----------------------------------|---------------|--------------------------------------|---------------------------------|-----------------------|---|
| Month | (a)=(b)+(c)+(d)+(e) Total Quantity Generated | (b) Broken Concrete (see Note 4) | (c) Reused in the Contract | (d) Reused in other Projects | (e) Disposed as Public Fill | (f) Metals | (g) Paper/ cardboard packaging | (h) Plastics (see Note 3) | (i) Chemical Waste | (j) Others, e.g. general refuse disposed at Landfill |
| | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000 kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m ³) |
| Jan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Feb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.135 | 0 |
| Mar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May | 0.429 | 0 | 0 | 0 | 0.429 | 0 | 0 | 0 | 0 | 0 |
| June | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub-total | 0.429 | 0 | 0 | 0 | 0.429 | 0 | 0 | 0 | 0.135 | 0 |
| July | | | | | | | | | | |
| Aug | | | | | | | | | | |
| Sept | | | | | | | | | | |
| Oct | | | | | | | | | | |
| Nov | | | | | | | | | 14. 18 | |
| Dec | | | | | | | | | | |
| Total | 1 | | | | | | | | | |

Notes: (1) The performance targets are given in the Particular Specification on Waste Management Plan, Sub-clause 2(5)(c).

(2) The waste flow table shall also include C&D materials 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 m³ 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. | * |
| | • Vehicle washing area and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores. | N/A |
| | • The portion of road within 30m of designated vehicle entrance or exit should be kept clear of dusty materials. | ٨ |
| | • 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 |
| | • Vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. | ٨ |
| Noise | 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 | ٨ |
| | Observe and comply with the statutory and non-statutory requirements and guidelines. | ٨ |
| | • 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. | ٨ |
| | • 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. | ٨ |
| | • 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. | ^ |
| | Regular maintenance of all plant and equipment. | ٨ |
| | • Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable. | ٨ |

| | Use of Quiet Plant and Movable Noise Barrier | | | | |
|---------------|--|-----|--|--|--|
| | • Purpose-built movable noise barriers should be used to mitigate construction noise directly at sources | N/A | | | |
| | that are not usually mobile provide that the direct line of sight to the source is blocked. | | | | |
| Water Quality | 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. | * | | | |
| | • Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. | | | | |
| | Stockpiles to be covered by tarpaulin to avoid spreading of materials during rainstorms; | ۸ | | | |
| | Suitable containers shall be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. | * | | | |
| | 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. | ^ | | | |
| | • Storage areas shall be selected at safe locations on site and adequate space shall be allocated to the storage area. | ^ | | | |
| | • Any construction plant which causes pollution to the water system due to leakage of oil or fuel shall be removed off-site immediately. | ^ | | | |
| | Spillage or leakage of chemical waste to be controlled by using suitable absorbent materials. | ۸ | | | |
| | 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. | ^ | | | |
| | Temporary sanitary facilities to be provided for on-site workers during construction | ^ | | | |
| | 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. | ^ | | | |
| | Site Depot | | | | |
| | • All compounds in works areas should be located on areas of hard standing with provision of drainage channels and settlement ponds to allow interception and controlled release of settled/treated water. | N/A | | | |
| | • 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. | 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 | | | | |
| Waste | Site Clearance | | | | | |
| Management | • 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. | ۸ | | | | |
| | 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. | ٨ | | | | |
| | Chemical Waste | | | | | |
| | To reduce generating chemical waste as much as possible. | ۸ | | | | |
| | • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 litres | * | | | | |
| | with label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations. | | | | | |
| | 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. | ٨ | | | | |
| | 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. | ٨ | | | | |
| | 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. | ٨ | | | | |
| | Prohibition of refuse burning on construction sites | ٨ | | | | |
| | Construction Waste Management Plan | | | | | |

| | Construction waste management plan (CWMP) should be prepared | ٨ | | | | | | |
|--|---|---|--|--|--|--|--|--|
| | | ٨ | | | | | | |
| | | | | | | | | |
| | | ٨ | | | | | | |
| | | | | | | | | |
| | Controlling the dust and water quality by avoiding stockpiles adjacent to wetlands and covering the stockpiles | ٨ | | | | | | |
| Ecological Impacts on Floral Species of Conservation Concern • Contractor should ensure proper collection, treatment and disposal of waste on site. 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 • Controlling the dust and water quality by avoiding stockpiles adjacent to wetlands and covering the stockpiles with impervious sheeting. • Controlling vehicle speed and ensure no discharge of silty water to the rivers, streams. Disturbance to Wetland-Dependent Birds, Raptors, Terrestrial Birds and Egretry • Restriction of excavation works within a 150m buffer zone from the egretry to ardeid non-breeding season (from August to February). • Switching off unused equipment, keep minimum number of powered mechanical equipment in operation at the same period, the use of stockpiles and other structures to form noise barriers where practicable to avoid causing disturbance to feeding the wildlife. • Proper cover of stockpiles with impervious sheeting to minimize construction noise, uncontrolled surface runoff and discharge of silts. • Avoidance of construction works using Power Mechanical Equipments within the Wetland Conservation Area during bird migratory season (15th November – 15th March). Itandscape and Visual 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 | | | | | | | | |
| | Controlling vehicle speed and ensure no discharge of silty water to the rivers, streams. | ۸ | | | | | | |
| | Disturbance to Wetland-Dependent Birds, Raptors, Terrestrial Birds and Egretry | | | | | | | |
| Ecology | | ٨ | | | | | | |
| | | ٨ | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | ^ | | | | | | |
| | | | | | | | | |
| | | ۸ | | | | | | |
| | during bird migratory season (15th November – 15th March). | | | | | | | |
| Landscape and | Preservation of Existing Vegetation throughout construction phase | | | | | | | |
| Visual | | | | | | | | |
| | of the site and its immediate environs. | | | | | | | |
| | • Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling | Λ | | | | | | |
| | 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) | ۸ | | | | | | |
| | 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. | | | | | | | |
| | • Pruning of the branches of existing trees identified for retention to be based on the principle of crown thinning | Λ | | | | | | |
| | maintaining their form and amenity value. | | | | | | | |
| | • The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered. | ^ | | | | | | |
| | The rectification and repair of damaged vegetation following the construction phase to it's original condition | ٨ | | | | | | |
| | 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 | | | | | | | |
| | All works affecting the trees identified for retention will be carefully monitored, including the key stages in the | ٨ | | | | | | |
| | preparation of the trees, the implementation of protection measures and health monitoring through out the | | | | | | | |
| | construction period | | | | | | | |
| | | | | | | | | |
| | • Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for | ^ | | | | | | |
| | • 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. | ~ | | | | | | |

| approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract documents. | |
|--|-----|
| Preservation of Existing Topsoil | |
| • Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of retention stored for re-use. | 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 |
| • Regularly turned over the stockpile to avoid acidification and the degradation of the organic material, and reused after completion. | 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 |
| • Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of site lighting to prevent light spillage. | ^ |
| 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: | ^ | Compliance of mitigation measure; |
|----------|---------|---|
| | N/A | Not Applicable; |
| | * | Recommendation was made during site audit but |
| | improve | ed/rectified by the contractor. |
| | # | Recommendation was made during site audit and to be |
| | improve | ed / 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

| | | АСТ | ION | |
|--------------|--|---|--|---|
| EXCEEDANCE | ET | IEC | Engineer | Contractor |
| Action Level | Notify IEC and the HKKT. Carry out investigation. Report the results of investigation to IEC and the HKKT. Discuss with the HKKT and formulate remedial measures. Increase monitoring frequency to check mitigation measures. | 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. | Confirm receipt of notification of exceedance in writing. Notify the HKKT. Require the HKKT to propose remedial measures for the analyzed noise problem. Ensure remedial measures are properly implemented. | Submit noise mitigation proposals to IEC. Implement noise mitigation proposals. |
| Limit Level | Identify the source. Notify IEC, ER, EPD and the HKKT. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of HKKT's working procedures to determine possible mitigation to be implemented. Inform IEC, ER, and EPD the causes & actions taken for the exceedances. Assess effectiveness of the HKKT's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring. | 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. | Confirm receipt of notification of exceedance in writing. Notify the HKKT. Require the HKKT to propose remedial measures for the analyzed noise problem. Ensure remedial measures are properly implemented. 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. | Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedance is abated. |

APPENDIX I TENTATIVE CONSTRUCTION PROGRAMME

| ong k | Kong Kwoi | ng Tai Builders Ltd | | SS W317 - Cor | nstruction of a S | Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme |
|---------|-----------|--|----------|---------------|------------------------|--|
| 战別 碼 | WBS | Task Name | 工期 | 開始時間 | 完成時間 | 2010年 2011年 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 Apr 2 |
| | | Construction of a Secondary Boundary Fence from Mai Po to Lok Ma Chau Control Point | 548 days | 15/1/2010 | 27/7/2011 | |
| | 1.1 | | 116 days | 15/11/2010 | 15/3/2011 | |
| | 1.2 | Application of permits and licences required under legislatic | 28 days | 15/1/2010 | 11/2/2010 | |
| | 1.3 | Conition surveying & submission of report | 10 days | 21/1/2010 | 30/1/2010 | |
| | 1.4 | Site Office setup | 24 days | 18/2/2010 | 13/3/2010 | |
| , | 1.5 | Site mobilization | 45 days | 1/2/2010 | 17/3/2010 | |
| 7 | 1.6 | Material submissions | 285 days | 20/1/2010 | 31/10/2010 | |
| 8 | 1.6.1 | Submission and approval of XPM mesh | 181 days | 20/1/2010 | 19/7/2010 | |
| 9 | 1.6.2 | Submission of concrete mix design | 107 days | 25/1/2010 | 11/5/2010 | |
| 10 | 1.6.3 | submission of spacer | 14 days | 5/3/2010 | 18/3/2010 | |
| 10 | 1.6.4 | submission of sub-base material | 28 days | 21/9/2010 | 18/10/2010 | |
| 12 | 1.6.5 | submission of bituminous material | 28 days | 4/10/2010 | 31/10/2010 | |
| 12 | 1.7 | Initial site survey | 30 days | 9/4/2010 | 8/5/2010 | |
| 13 | 1.8 | Mock up panel | 119 days | 30/3/2010 | 26/7/2010 | |
| 15 | 1.8.1 | submission and approval of shop drawing and method statement | 50 days | 30/3/2010 | 18/5/2010 | |
| 16 | 1.8.2 | fix mock up panel | 7 days | 20/7/2010 | 26/7/2010 | |
| 17 | 1.9 | Submissions | 104 days | 15/1/2010 | 28/4/2010 | |
| 18 | 1.9.1 | Submission to EPD as required under the Environment Permit | 1 day | 15/1/2010 | 15/1/2010 | |
| 19 | 1.9.2 | Submission of temporary traffic arrangement | 90 days | 15/1/2010 | 14/4/2010 | |
| 20 | 1.9.3 | submission of safety aspect schedule | 30 days | 15/1/2010 | 13/2/2010 | |
| 21 | 1.9.4 | submission of safety plan | 1 day | 28/4/2010 | 28/4/2010 | |
| 22 | 1.9.5 | Submission of Environmental Management Plan | 1 day | 1/3/2010 | 1/3/2010 | |
| 23 | 1.9.6 | submission of waste management plan | 30 days | 11/2/2010 | 12/3/2010 | |
| 24 | 1.9.7 | Submission of Smart Card System | 18 days | 18/3/2010 | 4/4/2010 | |
| 25 | 1.10 | application of excavation permit (XP Permit) | 303 days | 19/3/2010 | 17/1/2011 | |
| 26 | 1.10.1 | 1st stage | 169 days | 19/3/2010 | 3/9/2010 | |
| 27 | 1.10.1.1 | CH0+285 to CH 0+315(Zone 30 - Zone 31)PlanID: 1006307 | 1 day | 3/9/2010 | 3/9/2010 | |
| 28 | 1.10.1.2 | CH 3+270 to 3+300(Zone 54)PlanID: 1006328 | 1 day | 30/8/2010 | 30/8/2010 | |
| 29 | 1.10.1.3 | | 1 day | 12/7/2010 | 12/7/2010 | |
| 30 | 1.10.1.4 | 1006328 | 1 day | 12/7/2010 | 12/7/2010 | |
| 31 | | Zone54)PlanID: 1006328 | 1 day | 29/7/2010 | 29/7/2010 12/7/2010 | |
| 32 | •••••• | | 1 day | 12/7/2010 | | |
| 33 | | 1006307 | | 5/8/2010 | 5/8/2010 | |
| 34 | | 51)PlanID: 1006326 | 1 day | 12/5/2010 | 12/5/2010 | |
| 35 | | 35)PlanID: 1006317 | 1 day | 19/3/2010 | 19/3/2010 | |
| 36 | | 33)PlanID: 1006317 | 1 day | 13/7/2010 | 13/7/2010 | |
| 37 | | 37)PlanID: 1006319 | 1 day | 19/4/2010 | 19/4/2010 | |
| 38 | | | | 17/5/2010 | 17/5/2010 | |
| 39 | | 39)PlanID: 1006321 | 1 day | 14/6/2010 | 14/6/2010 | |
| 40 | | 40)PlanID: 1006321 | 1 day | 26/8/2010 | 26/8/2010 | |
| 41 | | 42)PlanID: 1006321 | 1 day | 27/7/2010 | 27/7/2010 | |
| 42 | 2 1.10.1. | 16 CH 1+650 to CH 1+850(Zone 42 - Zone 44)PlanID: 1006324 | 1 day | 19/3/2010 | 19/3/2010 | |

| .11 | Rev 30-May-20 | | | |
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| ong Kong Kwong Tai Builders | Ltd | | SS W317 - Co | Instruction of a S | Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme | Rev. F Date: 30-May-201 | |
|--|--|----------|--------------|--------------------|---|----------------------------|--|
| He was by the | | 工期 | 開始時間 | 完成時間 | 2010年 2011年 | | |
| 別 WBS Task Name 馬 | | 上別 | 別がロルゴにコ | 门记忆时间 | 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 | | |
| 3 1.10.1.17 CH | 1 1+850 to CH 2+070(Zone 44 - Zone | 1 day | 19/4/2010 | 19/4/2010 | | | |
| 4 1.10.1.18 CH | PlanID: 1006324 I 2+070 to CH 2+150(Zone 45 - Zone | 1 day | 17/5/2010 | 17/5/2010 | | | |
| 5 1.10.1.19 CH |)PlanID: 1006324 I 2+150 to CH 2+310(Zone 46 - Zone | 1 day | 14/6/2010 | 14/6/2010 | | | |
| 6 1.10.1.20 CI |)PlanID: 1006325 I 2+310 to CH 2+550(Zone 47 - Zone | 1 day | 13/7/2010 | 13/7/2010 | | | |
| 49 7 1.10.2 2nd sta |)PlanID: 1006325 | 1 day | 17/1/2011 | 17/1/2011 | | | |
| | 10+86 to CH4050 (Gate 24) | 1 day | 17/1/2011 | 17/1/2011 | | | |
| • | | 300 days | 19/4/2010 | 17/2/2011 | | | |
| | | 169 days | 19/4/2010 | 4/10/2010 | | | |
| | H0+285 to CH 0+315(Zone 30 - Zone 31) | 1 day | 4/10/2010 | 4/10/2010 | | | |
| | H $3+270$ to $3+300$ (Zone 54) | 1 day | 30/9/2010 | 30/9/2010 | | | |
| | H 2+790 to CH 2+900(Zone 51) | 1 day | 12/8/2010 | 12/8/2010 | | - | |
| - | · · · · · · · · · · · · · · · · · · · | 1 day | 12/8/2010 | 12/8/2010 | | | |
| | H 2+900 to 3+030(Zone 51 - Zone 52) H 3+030 to CH 3+270(Zone 52 - Zone54) | 1 day | 29/8/2010 | 29/8/2010 | | | |
| | H + 000 to CH + 090 (Zone 29) | 1 day | 12/8/2010 | 12/8/2010 | | | |
| • | | 1 day | 5/9/2010 | 5/9/2010 | | | |
| | H+090 to CH 0+285(Zone 29 - Zone 30) | | 12/6/2010 | 12/6/2010 | | | |
| | H 2+550 to CH 2+790(Zone 49 - Zone 51) | 1 day | 19/4/2010 | 19/4/2010 | | | |
| | H 0+600 to CH 0+800(Zone33 - Zone 35) | 1 day | | 13/8/2010 | | | |
| | H 0+315 to CH 0+600(Zone 31 - Zone 33) | 1 day | 13/8/2010 | | | | |
| | CH 0+800 to CH 1+020(Zone 35 - Zone 37) | 1 day | 20/5/2010 | 20/5/2010 | | | |
| - | CH 1+020 to CH 1+050(Zone 37) | 1 day | 17/6/2010 | 17/6/2010 | | • | |
| 63 1.11.1.13 C | CH 1+050 to CH 1+260(Zone 37 - Zone 39) | 1 day | 15/7/2010 | 15/7/2010 | | | |
| V . | CH 1+260 to CH 1+500(Zone 39 - Zone 40) | 1 day | 26/9/2010 | 26/9/2010 | | | |
| 00 1 | CH 1+500 to CH 1+650(Zone 41 - Zone 42) | 1 day | 27/8/2010 | 27/8/2010 | | | |
| 66 1.11.1.1¢ (| CH 1+650 to CH 1+850(Zone 42 - Zone 44) | 1 day | 19/4/2010 | 19/4/2010 | | | |
| 67 1.11.1.17 (| CH 1+850 to CH 2+070(Zone 44 - Zone 45) | 1 day | 20/5/2010 | 20/5/2010 | | | |
| 68 1.11.1.18 (| CH 2+070 to CH 2+150(Zone 45 - Zone 46) | 1 day | 17/6/2010 | 17/6/2010 | | | |
| 69 1.11.1.19 | CH 2+150 to CH 2+310(Zone 46 - Zone 47) | 1 day | 15/7/2010 | 15/7/2010 | | | |
| * · · · · · · · · · · · · · · · · · · · | CH 2+310 to CH 2+550(Zone 47 - Zone 49) | 1 day | 13/8/2010 | 13/8/2010 | | | |
| 71 1.11.2 2nd s | itage | 1 day | 17/2/2011 | 17/2/2011 | | | |
| | CH0+86 to CH4050 (Gate 24) | 1 day | 17/2/2011 | 17/2/2011 | | | |
| 73 1.12 Submission | | 100 days | 1/2/2010 | 11/5/2010 | | | |
| | nission of Computer and mobile phone | 26 days | 1/2/2010 | 26/2/2010 | | | |
| | nission of Subcontractor Management Plan | 59 days | 3/3/2010 | 30/4/2010 | | | |
| | nission of EM&A works schedule | 28 days | 18/2/2010 | 17/3/2010 | | | |
| | nission of Landscape Plan | 30 days | 25/2/2010 | 26/3/2010 | | | |
| | nission of Baseline Monitoring Report | 30 days | 1/3/2010 | 30/3/2010 | | | |
| 79 1.12.6 subn | nission of Site Management plan for trip ticket | 1 day | 16/3/2010 | 16/3/2010 | | | |
| 80 1.12.7 subr | mission of formwork & temporary work design | 30 days | 15/3/2010 | 13/4/2010 | | | |
| | nission of welding procedure | 30 days | 12/4/2010 | 11/5/2010 | | | |
| | nission of welder certificate | 30 days | 12/4/2010 | 11/5/2010 | | | |
| | mission of fencing shop drawing | 28 days | 12/4/2010 | 9/5/2010 | | | |
| | | 28 days | 12/4/2010 | 9/5/2010 | | | |
| 85 1.12.12 Sub | mission of gate shop drawing mission of method statement for footing at Pak | 28 days | 12/4/2010 | 9/5/2010 | | | |
| and the second | Chau a existing underground utilities and submit report | 28 days | 15/3/2010 | 11/4/2010 | | | |
| | g existing underground utilities and submit report | | 17/3/2010 | | | | |
| | rance prior to work | 4 days | | | | | |
| | construction | 262 days | | | | | |
| 89 1.15.1 CH | 0+000 to CH0+086 | 55 days | 22/9/2010 | 15/11/2010 | | | |

| Hong Kong | Kwong | Tai | Builders | Ltd |
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SS W317 - Construction of a Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme

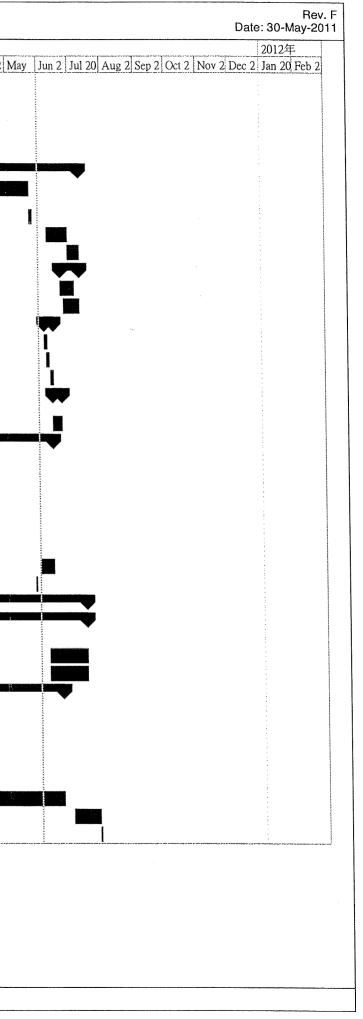
| ig Kung Kwung Ta | | | | | Master Programme |
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| IJ WBS Task | Name | 工期 | 開始時間 | 完成時間 | 2010年 2011年 |
| | | | | 1 1 1 4 100 40 | Jan 2 Feb 2 Mar 2 Apr 2 May Jun 2 Jul 20 Aug 2 Sep 2 Oct 2 Nov Dec 2 Jan 2 Feb 2 Mar 2 Apr 2 M |
| 1.15.2 | CH0+318 to CH0+345 | · • | 12/10/2010 | 15/11/2010 15/11/2010 | |
| 1.15.3 | CH0+540 to CH0+620 | 55 days | 22/9/2010 | | |
| 1.15.4 | CH0+660 to CH1+420 | 55 days | 22/9/2010 | 15/11/2010 | |
| 1.15.5 | CH1+670 to CH1+900 | 55 days | 22/9/2010 | 15/11/2010 | |
| 1.15.6 | CH2+010 to CH2+788 | 55 days | 22/9/2010 | 15/11/2010 | |
| 1.15.7 | CH2+900 to CH2+986 | 55 days | 22/9/2010 | 15/11/2010 | |
| 1.15.8 | CH086 to CH0+318 (Type 3 footing) | 83 days | 16/3/2011 | 11/6/2011 | |
| 1.15.8.1 | 1000x500 Balance Beam | 41 days | 16/3/2011 | 26/4/2011 | |
| 1.15.8.1. | excavation and erect formwork | 35 days | 16/3/2011 | 20/4/2011 | |
| 1.15.8.1.: | rebar fixing | 35 days | 19/3/2011 | 23/4/2011 | |
| 1.15.8.1. | placing concrete | 35 days | 22/3/2011 | 26/4/2011 | |
| 1 1.15.8.2 | Tie Beam CH0+086 to CH 0+318 | 42 days | 27/4/2011 | 11/6/2011 | |
| 1.15.8.2. | excavation and erect formwork | 37 days | 27/4/2011 | 5/6/2011 | me |
| 3 1.15.8.2.: | rebar fixing | 37 days | 30/4/2011 | 9/6/2011 | |
| 4 1.15.8.2. | placing concrete | 37 days | 4/5/2011 | 11/6/2011 | |
| 1.15.9 | CH0+345 to 0+540 | 84 days | 16/3/2011 | 12/6/2011 | |
| 5 1.15.9.1 | Fence Footing | 41 days | 16/3/2011 | 26/4/2011 | |
| 7 1.15.9.1. | excavation and erect formwork | 35 days | 16/3/2011 | 20/4/2011 | |
| 8 1.15.9.1.: | rebar fixing | 35 days | 19/3/2011 | 23/4/2011 | |
| 9 1.15.9.1. | placing concrete | 35 days | 22/3/2011 | 26/4/2011 | |
| 0 1.15.9.2 | Fence Kerb | 16 days | 27/5/2011 | 12/6/2011 | |
| 1 1.15.9.2. | Erect formwork | 13 days | 27/5/2011 | 9/6/2011 | |
| 12 1.15.9.2.: | placing concrete | 13 days | 30/5/2011 | 12/6/2011 | |
| 13 1.15.10 | CH0+620 to CH0+660 | 24 days | 6/5/2011 | 30/5/2011 | |
| 4 1.15.10.1 | Fence Footing | 16 days | 6/5/2011 | 22/5/2011 | |
| 15 1.15.10.1 | excavation and erect formwork | 10 days | 6/5/2011 | 16/5/2011 | |
| 16 1.15.10.1 | rebar fixing | 10 days | 9/5/2011 | 19/5/2011 | |
| 17 1.15.10.1 | placing concrete | 10 days | 13/5/2011 | 22/5/2011 | |
| 18 1.15.10.2 | Fence Kerb | 8 days | 23/5/2011 | 30/5/2011 | |
| 19 1.15.10.2 | Erect formwork | 7 days | 23/5/2011 | 29/5/2011 | |
| 20 1.15.10.2 | placing concrete | 1 day | 30/5/2011 | 30/5/2011 | |
| 21 1.15.11 | CH1+420 to CH1+670 | 69 days | 16/3/2011 | 27/5/2011 | |
| 22 1.15.11.1 | Fence Footing | 56 days | 16/3/2011 | 14/5/2011 | |
| 23 1.15.11.1 | excavation and erect formwork | 50 days | 16/3/2011 | 7/5/2011 | |
| 1.15.11.1 | rebar fixing | 50 days | 19/3/2011 | 11/5/2011 | |
| 25 1.15.11.1 | placing concrete | 50 days | 22/3/2011 | 14/5/2011 | |
| 126 1.15.11.2 | Fence Kerb | 13 days | 15/5/2011 | 27/5/2011 | |
| 27 1.15.11.2 | Erect formwork | 7 days | 15/5/2011 | 21/5/2011 | |
| 128 1.15.11.2 | placing concrete | 7 days | 21/5/2011 | 27/5/2011 | |
| 129 1.15.12 | CH1+900 to CH 2+010 | 76 days | 16/3/2011 | 3/6/2011 | |
| | Fence Footing | 36 days | 16/3/2011 | 21/4/2011 | |
| | excavation and erect formwork | 30 days | 16/3/2011 | 15/4/2011 | |
| | rebar fixing | 30 days | 19/3/2011 | 18/4/2011 | |
| | placing concrete | 30 days | 22/3/2011 | 21/4/2011 | |
| | Fence Kerb | 40 days | 22/4/2011 | 3/6/2011 | |
| 134 1.15.12.2 | Erect formwork | 30 days | 22/4/2011 | 24/5/2011 | |
| 135 1.15.12.2 | | 30 days | 4/5/2011 | 3/6/2011 | |
| 136 1.15.12.2 | placing concrete | 41 days | 16/4/2011 | 29/5/2011 | |
| 137 1.15.13 | CH2+788 to CH 3+125 | 31 days | 16/4/2011 | 19/5/2011 | |
| 138 1.15.13.1 | Fence Footing | 25 days | 16/4/2011 | 13/5/2011 | |
| 139 1.15.13.1 | excavation and erect formwork rebar fixing | 25 days 25 days | 19/4/2011 | 16/5/2011 | |
| 140 1.15.13.1 | | 16 days | | | |

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| 別 | WBS | Task Name | 工期 | 開始時間 | 完成時間 | 2010年 2011年 |
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| 馬 | | | | | | 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 |
| | 1.15.13.1 | | 25 days | 22/4/2011 | 19/5/2011 | |
| <u>.</u> | 1.15.13.2 | | 10 days | 20/5/2011 | 29/5/2011 | |
| | 1.15.13.2 | | 7 days | 20/5/2011 | 26/5/2011 | |
| | 1.15.13.2 | | 7 days | 23/5/2011 | 29/5/2011 | |
| | 1.15.14 | | 84 days | 16/3/2011 | 12/6/2011 | |
| | 1.15.14.1 | | 61 days | 16/3/2011 | 19/5/2011 | |
| | 1.15.14.1 | | 55 days | 16/3/2011 | 13/5/2011 | |
| 18 | 1.15.14.1 | | 55 days | 19/3/2011 | 16/5/2011 | |
| | 1.15.14.1 | | 55 days | 22/3/2011 | 19/5/2011 | |
| 0 | 1.15.14.2 | | 16 days | 27/5/2011 | 12/6/2011 | |
| | 1.15.14.2 | · · · · · · · · · · · · · · · · · · · | 13 days | 27/5/2011 | 9/6/2011 | |
| 2 | 1.15.14.2 | placing concrete | 13 days | 30/5/2011 | 12/6/2011 | m |
| | 1.15.15 | Gates | 60 days | 18/4/2011 | 20/6/2011 | |
| | 1.15.15.1 | | 58 days | 18/4/2011 | 18/6/2011 | ma tanàna dia kaominina dia Mandritra dia kaominina dia k |
| 55 | 1.15.15.2 | | 58 days | 19/4/2011 | 19/6/2011 | |
| 56 | 1.15.15.3 | | 58 days | 20/4/2011 | 20/6/2011 | |
| 57 | 1.16 | • ~ | 238 days | 16/11/2010 | 22/7/2011 | |
| 58 | 1.16.1 | | 238 days | 16/11/2010 | 22/7/2011 | |
| 59 | 1.16.1.1 | Post installation | 235 days | 16/11/2010 | 19/7/2011 | |
| 60 | 1.16.1.2 | | 238 days | 16/11/2010 | 22/7/2011 | |
| 51 | 1.17 | Soft Landscape | 547 days | 15/1/2010 | 26/7/2011 | |
| 62 | 1.17.1 | tree survey report | 94 days | 25/2/2010 | 29/5/2010 | |
| 63 | 1.17.2 | Tree felling | 167 days | 28/5/2010 | 10/11/2010 | |
| 64 | 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 | |
| 66 | 1.17.4.1 | | 208 days | 1/11/2010 | 5/6/2011 | |
| 67 | 1.17.4.1 | | 208 days | 1/11/2010 | 5/6/2011 | |
| 68 | 1.17.4.1 | | 173 days | 6/12/2010 | 5/6/2011 | |
| 69 | 1.17.4.1 | | 166 days | 13/12/2010 | 5/6/2011 | |
| 170 | 1.17.4.1 | | 208 days | 1/11/2010 | 5/6/2011 | |
| 171 | 1.17.4.1 | | 159 days | 20/12/2010 | 5/6/2011 | |
| 172 | 1.17.4.2 | | 24 days | 7/6/2011 | 30/6/2011 | NUMBER OF CONTRACTOR OF CONTRACT |
| 173 | 1.17.4.3 | | 1 day | 2/6/2011 | 2/6/2011 | |
| 174 | 1.17.4.4 | | 28 days | 3/6/2011 | 2/7/2011 | |
| 175 | 1.17.4.5 | planting for additional trees | 24 days | 3/7/2011 | 26/7/2011 | |
| 176 | 1.18 | Remove obstructions | 143 days | 20/9/2010 | 14/2/2011 | |
| 177 | 1.18.1 | Joint inspection with CLP and telephone company for the obstructed CLP pole and telephone pole | 20 days | 20/9/2010 | 9/10/2010 | |
| 178 | 1.18.2 | anticipated removal of CLP pole and Telephone pole | 30 days | 13/1/2011 | 14/2/2011 | |
| 79 | 1.19 | 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 | 1 day | 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 | 2/8/2010 | 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 | 5/6/2011 | 22/6/2011 | |
| 188 | 1.20 | Electrical Installation | 486 days | | 10/7/2011 | |
| 189 | 1.20 | Submission | 90 days | 1/3/2010 | 29/5/2010 | |



| long | Kong Kw | ong Tai Builders Ltd | | SS W317 - Co | instruction of a S | Secondary Boundary Fence From Mai Po to Lok Ma Chau Control Point Master Programme |
|------------|----------|--|----------|--------------|--------------------|--|
| 識別 | WBS | Task Name | 工期 | 開始時間 | 完成時間 | 2010年 2011年 |
| 碼 190 | 1.20.1.1 | Material & Equipment submission | 68 days | 1/3/2010 | 7/5/2010 | 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 |
| 190 191 | 1.20.1.1 | Drawing & method statement submission | 20 days | 10/5/2010 | 29/5/2010 | |
| 191 | 1.20.1.2 | Revised design | 6 days | 25/10/2010 | 30/10/2010 | |
| 192 | 1.20.2.1 | Received of revised drawing from MM | 1 day | 25/10/2010 | 25/10/2010 | |
| 195 | 1.20.2.2 | Submission of revised drawing by KT | 5 days | 26/10/2010 | 30/10/2010 | |
| 194 | 1.20.2.2 | 24V power / 7 cores signal Cable installation | 86 days | 11/4/2011 | 10/7/2011 | |
| 196 | 1.20.3.1 | Laying and Fixing on existing cable tray at primary | 40 days | 11/4/2011 | 23/5/2011 | |
| 197 | 1.20.3.2 | Installation of connection box under CCTV Panel | 3 days | 24/5/2011 | 26/5/2011 | |
| 198 | 1.20.3.3 | Installation of conduit on New gate | 20 days | 10/6/2011 | 29/6/2011 | |
| 199 | 1.20.3.4 | Wiring for the gate lock system | 10 days | 30/6/2011 | 10/7/2011 | |
| 200 | 1.20.3.5 | Installation of electrical gate Lock | 17 days | 23/6/2011 | 10/7/2011 | |
| 201 | 1.20.3.5 | | 12 days | 23/6/2011 | 5/7/2011 | |
| 202 | 1.20.3.5 | | 14 days | 26/6/2011 | 10/7/2011 | |
| 203 | 1.20.3.6 | | 9 days | 7/6/2011 | 15/6/2011 | |
| 204 | 1.20.3.6 | . Switch Room 1 | 3 days | 7/6/2011 | 9/6/2011 | |
| 205 | 1.20.3.6 | : Switch room 2 | 3 days | 9/6/2011 | 11/6/2011 | |
| 206 | 1.20.3.6 | . Switch Room 3 | 3 days | 13/6/2011 | 15/6/2011 | |
| 207 | 1.20.4 | Pak Hok Chau CheckPoint | 9 days | 15/6/2011 | 23/6/2011 | |
| 208 | 1.20.4.1 | E&M installation work | 9 days | 15/6/2011 | 23/6/2011 | |
| 209 | 1.21 | Construction of Pak Hok Chau Check Point | 292 days | 17/8/2010 | 14/6/2011 | |
| 210 | 1.21.1 | Shop drawing submission and approval | 160 days | 17/9/2010 | 28/2/2011 | |
| 211 | 1.21.2 | provide Temporary Check point (container) on site | 1 day | 17/8/2010 | 17/8/2010 | |
| 212 | 1.21.3 | HKPF Move to temporary check point | 10 days | 18/10/2010 | 27/10/2010 | |
| 213 | 1.21.4 | Demolition of existing check point | 5 days | 28/10/2010 | 1/11/2010 | |
| 214 | 1.21.5 | Excavation | 3 days | 2/11/2010 | 4/11/2010 | |
| 215 | 1.21.6 | Footing | 8 days | 5/11/2010 | 12/11/2010 | |
| 216 | 1.21.7 | Install GRP | 13 days | 1/6/2011 | 14/6/2011 | |
| 217 | 1.21.8 | Lightning pole installation | 1 day | 28/5/2011 | 28/5/2011 | |
| 218 | 1.22 | Roadworks | 272 days | 6/10/2010 | 15/7/2011 | |
| 219 | 1.22.1 | reinstatement road surface | 272 days | 6/10/2010 | 15/7/2011 | |
| 220 | | | 8 days | 6/10/2010 | 13/10/2010 | |
| 221 | 1.22.1.2 | | 35 days | 10/6/2011 | 15/7/2011 | |
| 222 | 1.22.2 | Reinstatement of road kerb | 35 days | 10/6/2011 | 15/7/2011 | |
| 223 | 1.23 | Temporary fencing for MTR area | 226 days | 30/10/2010 | 22/6/2011 | |
| 224 | | Application of CP to MTR | 1 day | 30/10/2010 | 30/10/2010 | |
| 225 | | waiting reply from MTR | 28 days | 31/10/2010 | 27/11/2010 | |
| 226 | | Receive MTR work permit | 1 day | 1/12/2010 | 1/12/2010 | |
| 227 | | Tempertory Fencing construction | 21 days | 16/3/2011 | 6/4/2011 | |
| 228 | 1.23.5 | Demolition of existing MTR fencing | 12 days | 7/4/2011 | 18/4/2011 | |
| 229 | 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 | |



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 June 2011

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

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 July 2011

| Sunda | ny | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|----------------------|---------|-----------|----------|--------|----------|
| | | | | | | 1-Jul | 2-Jul |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 3-Jul | 4-Jul | 5-Jul | 6-Jul | 7-Jul | 8-Jul | 9-Jul |
| | | | | | | | |
| | | | | | | NT . | |
| | | | | | | Noise | |
| | | | | | | | |
| | 10-Jul | 11-Jul | 12-Jul | 13-Jul | 14-Jul | 15-Jul | 16-Jul |
| | | | | | | | |
| | | | | | | | |
| | | Noise | | | | | |
| | | | | | | | |
| | 17-Jul | 18-Jul | 19-Jul | 20-Jul | 21-Jul | 22-Jul | 23-Jul |
| | | | | | | | |
| | | | | | | | |
| | | | | Noise | | | |
| | | | | | | | |
| 31-Jul | 24-Jul | 25-Jul | 26-Jul | 27-Jul | 28-Jul | 29-Jul | 30-Jul |
| | gui | 25 Jui | 20 501 | 27 Jul | 20 Jul | Jui | 50 Jul |
| | | | | | | | |
| | | | | Noise | | | |
| | | | | | | | |
| | | anged due to unforme | | | | | |

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