

Chun Wo Construction &  
Engineering Co Ltd

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**Contract No HY/2005/06  
Castle Peak Road  
Improvement – West of  
Tsing Lung Tau**

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Bi-Monthly Landscape &  
Visual Audit & Monitoring  
Report – July to August  
2008

**First Issue**

Chun Wo Construction &  
Engineering Co Ltd

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**Castle Peak Road**  
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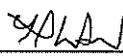
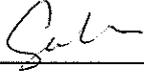
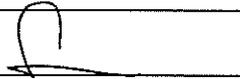
Bi-Monthly Landscape &  
Visual Audit & Monitoring  
Report – July to August  
2008

Oct 2008

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## 1 Introduction

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by the Contractor (CT) – Chun Wo Construction & Engineering Co. Ltd (Chun Wo) as the Environmental Team (ET) for *Contract No. HY/2005/06 Castle Peak Road Improvements – West of Tsing Lung Tau*. In accordance with the EM&A Manual of the Project, a bi-monthly Landscape & Visual Audit & Monitoring will be required during the 12 month establishment period. The establishment period of the Project commenced on 15 April 2008.

This is the second Landscape & Visual Audit & Monitoring (L&VA&M) report summarising site audit findings of the landscape and visual monitoring from July 2008 to August 2008.

## 2 Project Organisation

The key personnel contact names and numbers are summarised in **Table 2-1**. The duties of respective parties are listed in Section 1.9 of the EM&A Manual.

**Table 2-1:** Contact Information of Key Personnel

Organisation	Name	Telephone
Highways Department	Mr Kevin Ng	Tel: 2762 3570
Environmental Protection Department	Mr Thomas To	Tel: 2835 1103
Engineer's Representative (MHJV)	Mr Larry Chan	Tel: 2411 9388
Independent Environmental Checker (ENSR)	Mr YT Tang	Tel: 3105 8537
Contractor (Chun Wo)	Mr Simon Wong	Tel: 2491 1214
ET Leader (Arup)	Mr Sam Tsoi	Tel: 2268 3211

## 3 Summary of Findings

The second bi-monthly L&VA&M audit was conducted on 5 September 2008, which was deferred due to the typhoon episodes in August. The deferment of the scheduled L&VA&M inspection was a result of the interruptions by the frequency of typhoon events of August, namely Typhoon Kammuri on 6<sup>th</sup> August 2008 and Typhoon Nuri on 22<sup>nd</sup> and 23<sup>rd</sup> August 2008.

The following items requiring remedial works have been identified:

- Replacement of dead and under-sized trees in Planter Bed 2.9 near Outfall EB as well as incorrect tree species in Planter Bed 1.3 and carrying out compensatory planting of transplanted trees.
- Careful monitoring on conditions of transplanted trees located north-west of former Maeda site and to carry out necessary establishment works to improve survival of trees.
- Application of mulching along BPRW-01 and replacement of all dead climbers.
- Re-hydroseeding on slopes B, E and lower RW-03 where grass germinations were poor.

Details of the L&VA&M are presented in **Appendix A**. The next bi-monthly L&VA&M inspection is scheduled to be undertaken in October 2008.

Appendix A  
**Bi-Monthly Landscape  
& Visual Audit &  
Monitoring Report –  
June to August 2008**

**Contract No. HY/2005/06  
Castle Peak Road Improvements –  
West of Tsing Lung Tau**

**Landscape & Visual Audit and Monitoring**

**Monthly Inspection Report No. 28**

**Operational Phase**

**(August 2008)**

Prepared by

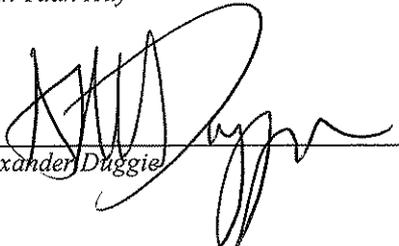
URBIS LIMITED

Prepared by :

  
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*Tran Tuan Huy*

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29<sup>th</sup> September 2008

Approved by :

  
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*Alexander Duggie*

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29<sup>th</sup> September 2008

## **1.0 INTRODUCTION**

This is a Landscape and Visual Audit conducted to fulfill the requirements of the EIA during the Construction and Operational Phases of the project, and is based on the procedures and requirements as set out in the Castle Peak Road Improvements – West of Tsing Lung Tau, Environmental Monitoring and Audit Manual.

Under the EIA, the proposed mitigation measures include both the planting works and treatment to structures. As stated in Section 6.4 of the EM & A, all measures undertaken by both the Contractor and the Landscape Contractor during the construction phase and the first 12 months of the operational phase shall be audited on a bi-weekly and bi-monthly basis respectively to ensure compliance with the intended aims of the mitigation measures.

## **2.0 SCOPE OF AUDIT**

The broad scope of the audit on mitigation measures is as detailed below:

### **2.1 Planting Proposals**

- Regular inspection of the agreed works areas to ensure no unnecessary intrusion by the Contractor outside the limit of the works;
- Regular review of the progress of engineering works to identify the earliest practical opportunity for the landscape works;
- Monitoring of tree transplanting and planting operations;
- Monitoring of works around the area of existing trees to be retained and protected;
- Monitoring of protection works for existing trees;
- Ensure planting works are carried out in accordance with the Specification and within the right planting season;
- Monitoring of the maintenance operations during the Establishment Period to ensure all plants are well watered and nutrients applied.

### **2.2 Standard Treatment to Structures**

- Monitoring and review to ensure the proposed architectural treatments to retaining walls, viaducts, bridges, and noise barriers are implemented in accordance with the approved design, and where appropriate, to soften the hard edges to structures with planting works.

### 3.0 INSPECTIONS

#### 3.1 Summary of Inspection – 5<sup>th</sup> September 2008

##### 3.1.1 Planting Works and Maintenance Operations

- It was noted that application of mulch to planter along base of BPRW-01 was still outstanding. The Contractor was reminded to apply mulch to planter a.s.a.p.
- It was observed that replacement of all dead climbers inside the planter along the base of BPRW-01 was outstanding. The Contractor was requested to replace all dead plants a.s.a.p.
- It was observed that the replacement of dead trees identified in previously inspections was still outstanding. The Contractor was again reminded to replace all the dead trees as soon as possible, including the followings:
  - a. 9 nos. *Callistemon viminalis*;
  - b. 3 nos. *Khaya senegalensis*; and
  - c. 7 nos. *Albizia lebbek*;
  - d. 8 nos. *Celtis sinensis*;
  - e. 2 nos. *Peltophorum pterocarpum*.
- It was observed that replacement of incorrectly planted *Peltophorum pterocarpum* inside planter bed 1.3 was outstanding. The Contractor was reminded to replace the tree with correct tree species as shown on drawing a.s.a.p.
- It was again observed that replacement of an undersized *Celtis sinensis* tree at the east end of planter bed 2.9 near Outfall EB was still outstanding. The Contractor was reminded to replace the defective tree as soon as possible.
- It was again observed that replacement of new trees as compensation for 6 dead transplanted trees was outstanding. The Contractor was reminded to carry out the tree replacement as soon as possible.
- It was observed that re-hydroseeding of grass at slopes 'B' & 'E' and lower RW-03 were still outstanding. The Contractor was reminded to re-hydroseed all slope surface areas where grass germination rate is less than that specified in Specification.
- It was observed that many of the trees ties of pavement trees and tree stakes in planter areas were rocked loose by recent Typhoon. The Contractor was requested to rectify all tree ties and tree stakes as soon as possible.

3.1.2 Recommendations

- The Contractor was reminded to replace all dead, undersized, and incorrect tree species, and to carry out the compensatory planting for dead transplant trees as soon as possible.
- The Contractor was reminded to carefully monitor the conditions of transplanted trees, and to carry out necessary establishment works to improve the survival of the trees.
- The Contractor was reminded to apply mulch to planter along base of BPRW-01 as soon as possible, and to also replant all dead climbers.
- The Contractor was reminded to re-hydroseed all the slope areas where grass germination was poor.

**4.0 AUDIT SCHEULE**

**4.1 Bi-monthly Audit Schedule during Establishment Period**

The next bi-monthly audit is tentatively schedule to be conducted on 20<sup>th</sup> October 2008.