

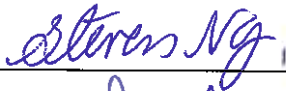
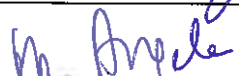
**MTR Corporation Limited**

Express Rail Link (XRL)  
Consultancy Agreement No.: C8016

**Environmental Term Consultancy for  
XRL**

**Tse Uk Tsuen Works Area - Archaeological  
Watching Brief Report**

August 2012

	Name	Signature
Prepared & Checked:	Steven Ng	
Reviewed & Approved:	Josh Lam	

Version: B Date: 14 August 2012

**Disclaimer**

This report is prepared for MTR Corporation Limited and is given for its sole benefit in relation to and pursuant to Consultancy Agreement No. C8016 and may not be disclosed to, quoted to or relied upon by any person other than MTR Corporation Limited without our prior written consent. No person (other than MTR Corporation Limited) into whose possession a copy of this report comes may rely on this report without our express written consent and MTR Corporation Limited may not rely on it for any purpose other than as described above.

AECOM Asia Co. Ltd.  
8/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong  
Tel: (852) 3922 9000 Fax: (852) 2317 7609 [www.aecom.com](http://www.aecom.com)

## Table of Content

	Page
<b>1 INTRODUCTION .....</b>	<b>1</b>
1.1 Background .....	1
1.2 The Archaeological Team .....	1
1.3 Objective and Structure of the Report .....	2
<b>2 OBJECTIVE AND METHDOLOGY .....</b>	<b>3</b>
2.1 Objective .....	3
2.2 Methodology .....	3
<b>3 GEOGRAPHICAL, GEOLOGICAL, HISTORICAL, AND ARCHAEOLOGICAL BACKGROUND.....</b>	<b>5</b>
3.1 Geographic and Geological Background .....	5
3.2 Historical Background .....	5
3.3 Archaeological Background .....	6
<b>4 WATCHING BRIEF FINDINGS .....</b>	<b>8</b>
4.1 Results of Watching Brief .....	8
4.2 Excavation and Stratification .....	8
4.3 Features .....	10
4.4 Stratigraphic Matrix .....	10
<b>5 DISCUSSION OF FINDINGS .....</b>	<b>11</b>
5.1 Landuse and Artefacts Analysis .....	11
5.2 Review of Archaeological Potential Area .....	11
<b>6 CONCLUSION AND RECOMMENDATION .....</b>	<b>13</b>
6.1 Conclusion .....	13
6.2 Recommendation .....	13
<b>7 BIBLIOGRAPHY .....</b>	<b>14</b>

### List of Tables

Table 3.1	Summary of Findings from XRL EIA
Table 4.1	Dates of Watching Brief
Table 4.2	General Stratigraphic Information of this Watching Brief
Table 4.3	Harris Matrix of this Watching Brief
Table 5.1	Comparison of Stratigraphy Sequence between TUW and TP2 during EIA Study
Table 5.2	Comparison of Stratigraphy Sequence between TUW and SSS

### List of Figures

C8016/C/XRL/ACM/M55/031	Location for Archaeological Watching Brief in Tse Uk Tsuen
C8016/C/XRL/ACM/M55/032	Geological Map of TUW Area

## **Appendices**

Appendix A	Watching Brief Monitoring Records
Appendix B	Stratigraphy Drawings

## English Abstract

The Mass Transit Railway Corporation (MTR) commissioned AECOM Asia Company Limited (AECOM) to conduct archaeological watching brief in the excavation area of Tse Uk Tsuen Works Area (TUW) for the “Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL)” Project. The findings of the watching brief are recorded in this Archaeological Watching Brief Report. The watching brief were conducted at TUW excavation area in two phases, with phase one from 9 July 2011 to 26 July 2011 and phase two from 28 February 2012 to 29 April 2012.

According to the Archaeological Action Plan (AAP), this archaeological watching brief at TUW aims to discover any potential for finds and remains of archaeological interest. No intact or isolated artefact, archaeological finding, archaeological feature or human burial were discovered in this watching brief monitoring. As a result, it is suggested that the TUW area has no archaeological significance and no further follow-up archaeological works is recommended in the project area.

## 中文摘要

香港鐵路有限公司（港鐵公司）委托艾奕康有限公司（艾奕康）為「廣深港高速鐵路香港段（高鐵）」項目中的謝屋村施工區進行考古監察。本次考古監察所得資料已載入是次考古監察報告中。謝屋村施工區的考古監察分兩期進行，第一期由 2011 年 7 月 9 日至 7 月 26 日，第二期由 2012 年 2 月 28 日至 4 月 29 日。

根據〈考古行動計劃書〉，本次謝屋村考古監察旨在探尋任何考古文物和具有考古價值之遺存。在本次考古監察中，沒有發現任何原位置或脫層之考古遺存、考古發現、考古遺跡、或人類墓穴。因此，謝屋村施工區不具考古價值，不需進行跟進的考古工作。

## 1 INTRODUCTION

### 1.1 Background

- 1.1.1 The “Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL)” Project (hereinafter known as “the Project”) covers a 26km long underground rail line on a dedicated track that runs from the terminus in West Kowloon to the boundary at Huanggang, where it connects with the Mainland section of Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL). The Project also comprises construction and operation of ventilation buildings, emergency access points, stabling sidings and maintenance facilities and emergency rescue sidings.
- 1.1.2 An Environmental Impact Assessment (EIA) study for the Project was conducted in accordance with the EIA Study Brief No. ESB-197/2008 (ESB). The EIA study concluded that the Project would be environmentally acceptable with the implementation of mitigation measures.
- 1.1.3 The EIA Report (Register No.: AEIA-143/2009) was approved on 28 September 2009 by the Director of Environmental Protection (DEP) under the Environmental Impact Assessment Ordinance (EIAO). Following the approval of the EIA Report, an environmental permit (EP) was granted on 16 October 2009 (EP No: EP-349/2009) for the construction and operation of the Project. A variation of environmental permit was approved with an Environmental Permit (EP No: EP-349/2009/G) issued by DEP on 5 June 2012.
- 1.1.4 Pursuant to EP Condition 2.37, an Archaeological Action Plan (AAP) was prepared following the AMO’s *Guidelines for Cultural Heritage Impact Assessment* and the recommendations specified in the EIA Report. The AAP includes the details of the archaeological actions required to mitigate potential impact on archaeological deposits in the works area of Shek Kong Stabling Sidings (SSS), Tai Kong Po Emergency Access Point (TPP) and Tse Uk Tsuen (TUW). The AAP includes the following items:
- a detailed plan for further archaeological investigation at inaccessible areas at SSS and TPP;
  - a detailed plan for rescue excavation at the southern portion of SSS;
  - a contingency plan in the event that significant archaeological findings are unearthed during the further archaeological investigation and rescue excavation; and
  - a detailed plan for an Archaeological Watching Brief for the identification of any historical finds during the construction works at TUW.
- 1.1.5 The AAP was submitted to the Antiquities and Monuments Office (AMO) together with the application of a Licence to excavate and search for antiquities under *Antiquities and Monuments Ordinance* (Cap 53).
- 1.1.6 AECOM Asia Co. Ltd (AECOM) has been commissioned by the MTR Corporation Ltd (MTR) to conduct the Archaeological Watching Brief (AWB) during soil excavation of construction shaft at TUW. A License (License No. 313) was granted on 19 January 2011. Due to the delay of construction programme at TUW, a renewed License (License No. 330) for watching brief was granted on 21 February 2012.
- 1.1.7 AECOM in-house archaeological team led by licensed archaeologist Steven Ng conducted the watching brief at TUW and prepared an Archaeological Watching Brief Report for approval by AMO, following the detailed plan presented in the approved AAP.

### 1.2 The Archaeological Team

- 1.2.1 The AWB was conducted by AECOM’s archaeological team. The team consists of the following members:
- Project Director: Mr. Josh Lam

- Project Manager: Ms Angela Tong
- Licensed Archaeologist: Mr. Steven Ng
- Archaeologist: Mr. Patrick Lai, Ms. Nicole Yang
- Administration Staff: Ms. Gas Chung

### **1.3 Objective and Structure of the Report**

1.3.1 This report includes the details of the archaeological findings acquired from desktop research and watching brief conducted in two phases, with phase one from 9 July 2011 to 26 July 2011 and phase two from 28 February 2012 to 29 April 2012. This Report includes the following items:

- Description of the results of the desktop research and watching brief monitoring;
- Description of any significant archaeological finds during the course of the soil excavation from ground surface down to 3m below surface;
- All necessary photos, maps, drawings, survey information recorded during the fieldwork;
- Discussion on the significance of archaeological findings; and
- Conclusion and recommendation.

1.3.2 Following this introductory section, the structure of this report is set out as follows:

- Section 2 presents the objectives and the methodology;
- Section 3 presents the geographical, geological, historical and archaeological background of the area;
- Section 4 presents watching brief findings;
- Section 5 presents the discussion of findings;
- Section 6 presents a conclusion and recommendation; and
- Section 7 presents the bibliography.

## **2 OBJECTIVE AND METHDOLOGY**

### **2.1 Objective**

- 2.1.1 Watching brief (monitoring) is a formal programme of archaeological observation conducted during the construction phase of a development within specified areas where there is a possibility that an archaeological deposit may be disturbed or destroyed<sup>(1)</sup>. In case significant finds are identified, a focused small scale rescue excavation may be required.

### **2.2 Methodology**

- 2.2.1 The following tasks were carried out to accomplish the objective:

- Desktop study on the geological, historical, and archaeological background information on the defined area;
- Supervision of soil excavation by machine at defined area that may contain archaeological deposits; and
- Recording of unearthed archaeological finds, if any.

#### Desktop Study

- 2.2.2 A desktop study was conducted to collect available and relevant information of previous archaeological, historical, geographic and geological studies related to the defined area (i.e. excavation of construction shaft) where excavation works is conducted.
- 2.2.3 Landform, superficial geological deposit and previous archaeological investigation carried out in or near the project area and information was reviewed and used as a reference to investigate the archaeological potential areas along the alignment and associated areas.

#### Observation during Soil Excavation

- 2.2.4 The archaeological team liaised with the contractor on the construction programme at TUW and the AWB was conducted by archaeologist during soil excavation of construction shaft. The excavation work was conducted by machine and was monitored by the archaeological team which was led by licensed archaeologist.
- 2.2.5 The monitoring results were recorded in watching brief recording sheets as presented in **Appendix A**. Excavation was conducted down to the sterile layer. Each stratum was also recorded in the recording sheet.

#### Artefacts Treatment

- 2.2.6 Any retrieved artefacts were processed in accordance with the AMO's *Guidelines for Handling of Archaeological Finds and Archives*.

#### Contingency Plan

- 2.2.7 A contingency plan was also prepared to undertake appropriate action, such as excavation of significant archaeological deposits unearthed. The following procedures have been followed when significant finds were identified during watching brief:
- Inform the Project Proponent and AMO;
  - Conduct on-site joint visit / meeting with AMO and other relevant parties to determine appropriate mitigation measures;
  - If further rescue excavation is required, licensed archaeologist will prepare a Contingency Rescue Plan (CRP) to allow for the implementation of a rescue excavation to record and

---

<sup>(1)</sup> Institute of Field Archaeologists (IFA) 2001 *Standard and Guidance for an Archaeological Watching Brief*.

excavate any unexpected discoveries. The method to be adopted and necessary requirement will follow the rescue excavation work; and

- Implement the agreed plan by the licensed archaeologist.



### 3 GEOGRAPHICAL, GEOLOGICAL, HISTORICAL, AND ARCHAEOLOGICAL BACKGROUND

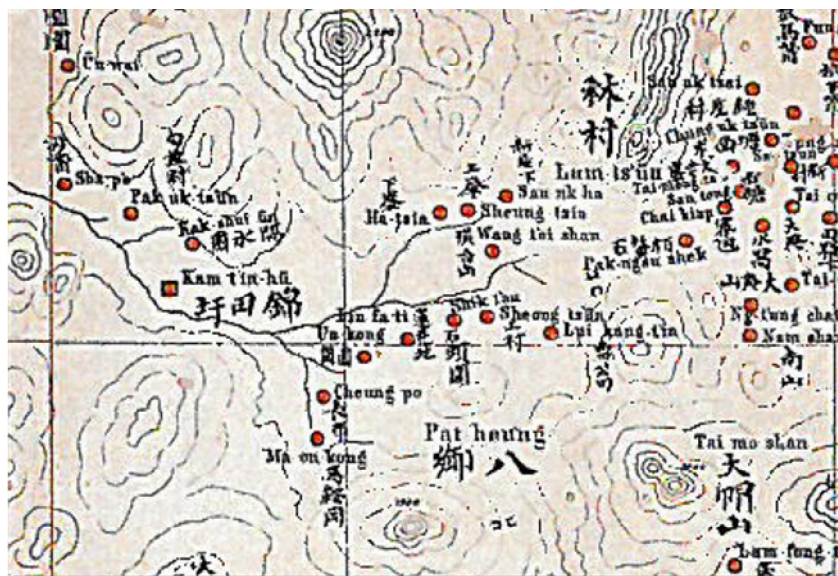
#### 3.1 Geographic and Geological Background

3.1.1 The TUW area is located in front of a hill slope and was used as cultivation field. It is situated far away from stream or river and no historic settlement has been found nearby. The location of TUW is presented in **Figure No. C8016/C/XRL/ACM/M55/031**.

3.1.2 According to 1:20,000 Geological Map<sup>2</sup>, two kinds of superficial deposit of the Project Area are (1) Qpa (well-sorted clay/silt to semi-sorted gravelly sandy) and (2) Qpd (well-sorted silt/sand and gravelly soil, unsorted clayey with cobbles and boulders), below which deposits is bed rock of tuff. The formation period of these two kinds of deposit are at Late Pleistocene. The geological information of TUW area is presented in **Figure No. C8016/C/XRL/ACM/M55/032**.

#### 3.2 Historical Background

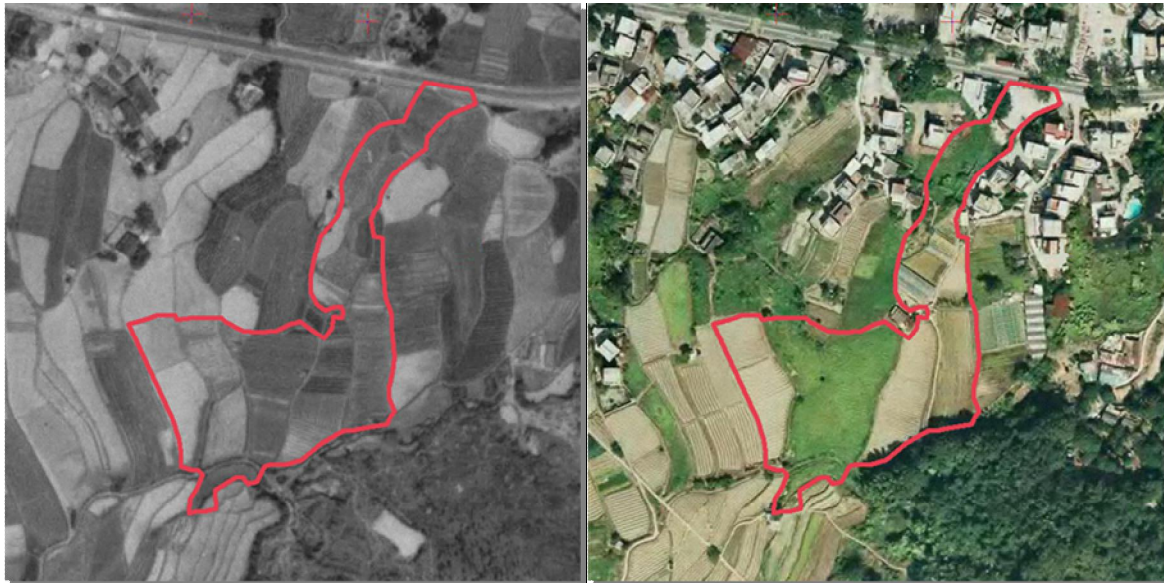
3.2.1 The TUW is located at Tse Uk Tsuen (謝屋村). Together with its neighboring villages including To Uk Tsuen (杜屋村) and Tsang Uk Tsuen (曾屋村), Tse Uk Tsuen belongs to Sheung Tsuen (上村), which was recorded in the Xinan County Gazetteer (新安縣誌). Sheung Tsuen was found in 1866 Map of Kam Tin (**Drawing 1** below refers).



**Drawing 1 Sheung Tsuen in 1866 Sun-On District Map**

3.2.2 There is limited historical information about the history and inhabitants of Tse Uk Tsuen specifically and also Sheung Tsuen. According to orthophotographic record at TUW in 1963 (**Drawing 2** below refers), no historical villages or buildings could be identified. The area has been mostly used for agricultural purposes.

<sup>2</sup> CEDD 1989 Hong Kong Geological Survey: Sheet 2, San Tin: Solid and Superficial Geology.



**Drawing 2 Orthophotographs of Project Area in 1963 and 2011**

- 3.2.3 The larger Kam Tin area has held certain human activities historically. A review of historical information indicated that the inhabitants settled into Kam Tin and Ngau Tam Mei since Tang Dynasty (618-907AD). It is believed that the soldiers and supporters from Tunmen Zhen (屯門鎮) inhabited in the valleys of Yuen Long, Kam Tin, San Tin and Shekou, as early as 736AD.
- 3.2.4 Kam Tin was originally named as Sam Tin (岑田) before 1587, following the inhabitants with surname of Sam living in the area. It was suggested that these people settled in Kam Tin early Tang clan in 12th century<sup>3</sup>.
- 3.2.5 During early Qing Dynasty (late 17th century), the Qing government carried out the Great Evacuation<sup>4</sup>. Hakka people were encouraged to migrate from eastern Guangdong to Hong Kong which belonged to Xinan County. These people established their villages at the eastern New Territories and Kowloon. There were battles between aboriginal people (Cantonese or Puntin) of Kam Tin and the new comers, Hakka people inhabiting Pat Heung, in late to middle 18th centuries<sup>5</sup>. Pat Heung Temple was the Hakka people's command centre for battles. A battle was fought between the volunteers of Kam Tin villages and the British troop in Shek Tau Wai on 17<sup>th</sup> April 1898. The British troop took over the New Territories on the second day of battle and killed over 100 volunteers.

### **3.3 Archaeological Background**

- 3.3.1 As Early in 1960, two cremation burial urns of Tang Dynasty (618-907AD) were found in Shek Kong, indicating that the human settled in Kam Tin before Song Dynasty (960-1279AD)<sup>6</sup>.
- 3.3.2 In 1998, an archaeological investigation was undertaken in Pat Heung, a cultural layer of Song dynasty where fragments of roof tiles and celadon were dug out in a test pit west to the

<sup>3</sup> 邱東 1992 《新界風物與民情》，香港，三聯書店。

<sup>4</sup> 蕭國健 2006 《香港古代史》，香港，中華書局。

<sup>5</sup> 瀨川昌久 1999 《族譜：華南漢族的宗教、風水、移居》(第二章)，上海，上海書店出版社。

<sup>6</sup> Meacham, W. 2009 *The Archaeology of Hong Kong*, Hong Kong University Press

Pat Heung Temple, indicating that a settlement was found nearby the Pat Heung Temple few hundred years ago<sup>7</sup>.

- 3.3.3 The TUW is located far away from stream or river and no historical settlement that was found nearby. During the field walking for EIA study, a piece of Song Dynasty celadon bowl fragment was found on ground surface within TUW, indicating some archaeological potential at TUW, and thus further archaeological investigation was conducted to confirm any archaeological remains within the TUW.
- 3.3.4 During the course of EIA, a total of 3 auger holes (AH1, AH2, and AH3) and 1 test pit (TP2) were conducted at TUW. A total of 5 pieces of pot, blue-and-white porcelain bowl fragment and celadon bowl fragment were unearthed in TP2. The reversed stratification was also identified in TP2, modern pot shards and blue-and-white porcelain bowl fragment was found with a piece of Song celadon bowl in this layer. Based on the findings of archeological investigation, there would be some archaeological potential within TUW and watching brief was therefore recommended for identification of any historical finds in this works area.
- 3.3.5 Summary of findings at TUW during the course of EIA study is presented in **Table 3.1**. The location plan of the EIA survey is shown in **Figure No. C8016/C/XRL/ACM/M55/031**.

**Table 3.1 Summary of Findings from XRL EIA**

Survey / Test Pit / Auger Hole	Finding	Stratum	Chronology	Quantity of Artefacts
Field scanning	Celadon bowl fragment	Ground surface	Song Dynasty	1
TP2	Celadon, blue-and-white bowl fragments, pot shard	L4	Song and Qing Dynasties	5
AH1, AH2, AH3	Nil	Nil	Nil	0

<sup>7</sup> 中港考古研究室 1998 《香港錦田八鄉古廟宋代遺址試掘報告》，古物古蹟辦事處。

## 4 WATCHING BRIEF FINDINGS

### 4.1 Results of Watching Brief

- 4.1.1 With reference to the geological and historical studies and past archaeological survey data, on-site monitoring was carried out during the excavation of construction shaft at TUW, in order to identify any remain of archaeological interest. The watching brief was conducted in two phases (**Table 4.1** refers), with Phase 1 from 9 July 2011 to 26 July 2011 and Phase 2 from 28 February 2012 to 29 April 2012, according to the excavation programme. The watching brief recording sheets, together with graphical and photographic indication of excavation area and process can be found in **Appendix A**.

**Table 4.1** Dates of Watching Brief

Phase	Dates of Watching Brief
1 (2011)	9, 13, 15 and 26 July
2 (2012)	28 Feb , 12, 14, 23 and 30 March; and 12, 18, 24, 26 and 27 April

- 4.1.2 Excavation of diaphragm wall and guide wall (3m in width and 3m in depth) was conducted prior to the excavation of construction shaft. The size of construction shaft is about 34m (length) x 14m (width). A cross section, with dimensions of 15m (length) x 3m (width) x 2.5m (depth), was excavated within the shaft.
- 4.1.3 No archaeological remain was retrieved and no *in situ* archaeological feature or cultural layer was identified in this watching brief. Underground water seepage was encountered in the excavated L3 of southern diaphragm wall. The potential of finding artefact below the water seepage is low.

### 4.2 Excavation and Stratification

#### *Excavation and Stratification*

- 4.2.1 Stratum within the construction shaft was excavated by machine layer by layer. The stratum was defined by natural or artificial deposits in terms of soil colour, soil texture and by evidence of human activities or material remains. Stratum recorded in the AWB is presented in the recording sheet (see **Appendix A**). Strata of 3 locations of the excavated area were recorded in the stratigraphy drawings in **Appendix B**.

- 4.2.2 Five main strata have been identified in this watching brief monitoring:

- *Agricultural Topsoil* (L1), presents ground agricultural surface that is highly subjected to post deposition disturbance up to present;
- *Cultivation Sub-Soil Layer* (L2), soil located below agricultural topsoil and is subjected to cultivation usage;
- *Loamy Soil Layer* (L3), soils located below cultivation soil layer;
- *Clay Layer* (L4), clay located below loamy soil layer; and
- *Pebbles Layer* (L5), where deposits were unlikely to be disturbed by any human activities, and were accumulated by pebble deposits in the TUW area, this layer is a sterile layer.

#### *Stratum 1: Agricultural Topsoil (L1)*

- 4.2.3 Stratum 1 is topsoil of loose compaction and consists of brownish yellow sandy soil, which was used for agricultural purpose and subject to modern disturbance. Its average thickness is about 30 centimeters. It was identified in the whole excavated area.

- 4.2.4 No artefact is retrieved from this layer.

Stratum 2: Cultivation Sub-Soil Layer (L2)

4.2.5 Stratum 2 is cultivation sub-soil layer of loose compaction and consists of greyish brown silty soil, which was used for cultivation purpose and subject to modern disturbance. Its average thickness is about 60cm. It was identified in the whole excavated area.

4.2.6 No artefact is retrieved from this layer.

Stratum 3: Loamy Soil Layer (L3)

4.2.7 Stratum 3 is sterile loamy soil layer of weakly cemented compaction and consists of brown loamy soil. Its average thickness is about 60cm. It was identified in the whole excavated area.

4.2.8 No artefact is retrieved from this layer.

Stratum 4: Alluvial Clay Layer (L4)

4.2.9 Stratum 4 is sterile clay layer of weakly cemented compaction and consists of dark brown clay. Its average thickness is about 120cm. It was identified in the whole excavated area.

4.2.10 No artefact is retrieved from this layer.

Stratum 5: Pebbles Layer with Alluvial Sandy Soil (L5)

4.2.11 Stratum 5 is sterile pebble layer of weakly cemented compaction and consists of grey pebble rocks, which were formed by the deposits in the TUW area. Its average thickness is about 30cm. It was identified in the whole excavated area.

4.2.12 No artefact is retrieved from this layer.

*General Stratigraphy*

4.2.13 The general stratigraphic information of this watching brief is presented in **Table 4.2**.

**Table 4.2 General Stratigraphic Information of this Watching Brief**

Stratum Groups	Stratum	Soil Characters	Archaeological Finds	Geological Period
Agricultural Topsoil	L1	Loose brownish yellow sandy soil	Nil	Late Holocene
Cultivation Sub-Soil Layer	L2	Loose greyish brown silty soil	Nil	Late Holocene
Loamy Soil Layer	L3	Weakly cemented brown loamy soil	Nil	Early to Middle Holocene
Alluvial Clay Layer	L4	Weakly cemented dark brown clay	Nil	Early to Middle Holocene
Pebbles Layer with Alluvial Sandy Soil	L5	Weakly cemented grey pebble rocks	Nil	Late Pleistocene

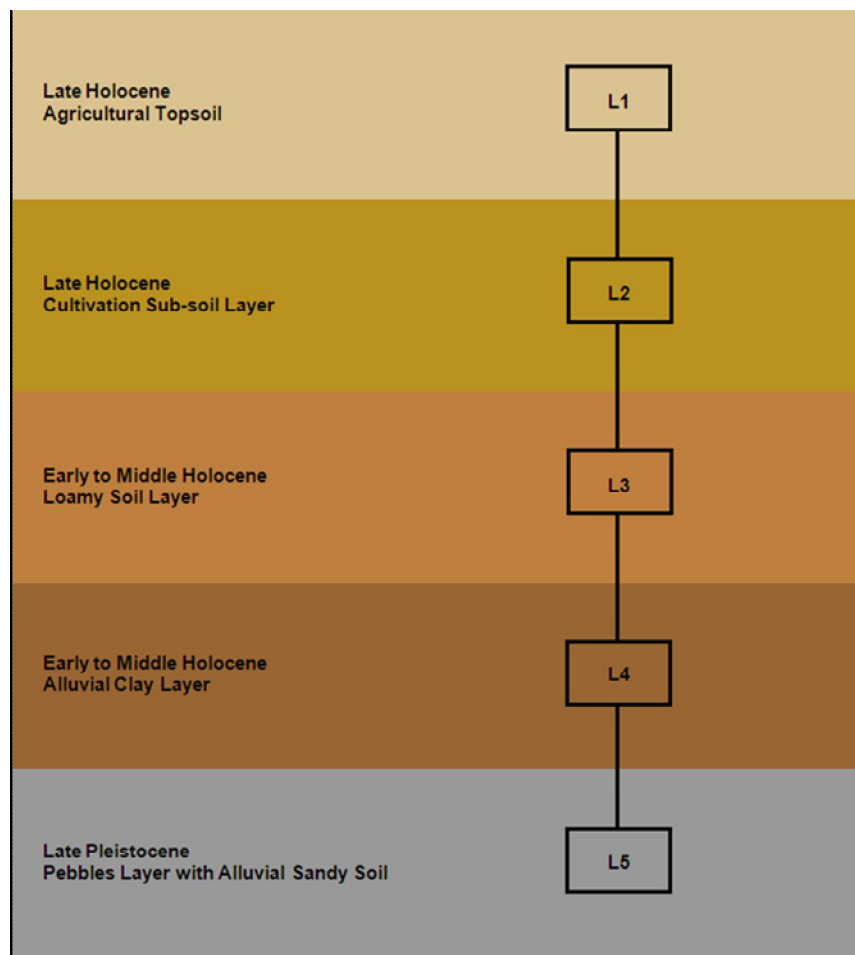
### 4.3 Features

- 4.3.1 “Feature”, in archaeology, is an immovable (or designed to be immovable) artefact in their *in situ* setting, which is usually very large, bulky and/or difficult to transport. Examples include oven, storage pits, dumping area, building structures and burials.
- 4.3.2 No *in situ* archaeological feature was revealed during this AWB.

### 4.4 Stratigraphic Matrix

- 4.4.1 The Harris Matrix is an archaeological means to illustrate the sequence of deposition of each layer and archaeological features in the field excavation. Harris Matrix can be used if the site was stratigraphically excavated and recorded, in the reverse chronological order. **Table 4.3** presents the Harris Matrix of this AWB.

**Table 4.3 Harris Matrix of this Watching Brief**





## 5 DISCUSSION OF FINDINGS

### 5.1 Landuse and Artefacts Analysis

- 5.1.1 According to 1:20,000 Geological Map<sup>8</sup>, the TUW is located on an alluvial terrace which was formed at Late Pleistocene (see **Figure No. C8016/C/XRL/ACM/M55/032**). The rich alluvial soil was used for agricultural purposes and has been disturbed.
- 5.1.2 The strata of the excavated area were subjected to modern agricultural disturbance.
- 5.1.3 It was observed that there has been modern disturbance within TUW and no artefact was unearthed in this watching brief (at both ground surface and strata). There was no evidence indicating that there has been stable human settlement in TUW.

### 5.2 Review of Archaeological Potential Area

- 5.2.1 The TP2 in the EIA study is located at western edge of the TUW watching brief area. The stratum sequence observed in TP2 correspond to the strata observed in this archaeological watching brief area, showing a stratum consistency between TP2 and TUT (**Table 5.1**). During the EIA study, only 5 pieces of fragmented artefacts were discovered in TP2 and 1 fragmented celadon bowl were discovered during field walking at TUW. These findings were all very fragmented and of small quantity, and thus they can be regarded as isolated findings and these findings indicated that there is a lack of long term human settlement in TUW.

**Table 5.1 Comparison of Stratigraphy Sequence between TUW and TP2 during EIA Study**

TUW Strata	Soil	Artefact at TUW	TP2 Strata	Soil	Artefact at TP2
L1	Agricultural Topsoil	Nil	L1	Agricultural Topsoil	Nil
L2	Cultivation Subsoil	Nil	L2	Cultivation Subsoil	Nil
L3	Loamy Soil Layer	Nil	L3	Loamy Soil with Iron Stains	Nil
L4	Alluvial Clay layer	Nil	L4	Loamy Soil	Song and Qing celadon, blue-and-white bowl fragments, port shard (secondary deposits).
L5	Pebbles Layer with Alluvial Sandy Soil	Nil	L5	Gravelly soil	Nil

- 5.2.2 During the archaeological rescue excavation at Shek Kong Stabling Sidings (SSS) in 2011, the cultural layers from historical periods (including pottery and porcelain shards, tiles and stone pavement etc.) was observed at about 30 to 50 cm below ground surface, which was defined as L3a and L3b in the excavation at SSS<sup>9</sup>. The TUW and the SSS rescue excavation areas have a similar stratigraphy sequence, which is presented in **Table 5.2**. The above mentioned layers L3a and L3b correspond to L3 in this AWB (see **Appendix B**), which is consistently observed in the AWB excavation area. Considering no archaeological finding was discovered in L3 in this AWB, the archaeological potential at TUW is anticipated to be very low.

<sup>8</sup> CEDD 1989 *Hong Kong Geological Survey: Sheet 2, San Tin: Solid and Superficial Geology*.

<sup>9</sup> AECOM 2012 *Final Archaeological Rescue Excavation Report, Environmental Term Consultancy for XRL*.

**Table 5.2 Comparison of Stratigraphy Sequence between TUW and SSS**

Layer sequence	TUW watching brief area	Cultural layer at TUW	SSS rescue excavation areas	Cultural layer at SSS
L1	Agricultural Topsoil	Nil	Disturbed Modern Fill Soil	Nil
L2	Cultivation Subsoil Layer	Nil	Agricultural Soil with Mineral Pan	Nil
L3	Loamy Soil Layer	Nil	Fluvial Clay Soil	Song-Yuan-Ming Dynasties
L4	Alluvial Clay layer	Nil	Alluvial Clayey Soil	Nil
L5	Pebbles Layer with alluvial Sandy Soil	Nil	Pebble layer with alluvial Sandy Soil	Nil

- 5.2.3 Based on the review of archaeological potential within TUW, in addition to no cultural layer or *in situ* feature found in the excavated area, it could be concluded that there is no archaeological potential in the TUW area.



## **6 CONCLUSION AND RECOMMENDATION**

### **6.1 Conclusion**

- 6.1.1 In accordance with the requirements of Archaeological Action Plan for XRL, watching brief was conducted in two phases, with phase one from 9 July 2011 to 26 July 2011 and phase two from 28 February 2012 to 29 April 2012, at the construction shaft in TUW.
- 6.1.2 During the watching brief, no intact/isolated artefact, archaeological feature, or human burial were discovered at the excavated area within TUW.
- 6.1.3 Based on the findings of watching brief, it is concluded that there is no archaeological potential / significance in TUW, taking consideration of the following factors:
- no archaeological deposit was unearthed;
  - lack of cultural layer from L1 to L5 (sterile layer); and
  - similar stratigraphy sequence at SSS rescue areas, where a cultural layer of Song to Ming Dynasties discovered in L3, and TUW in which no archaeological deposit discovered in L3.

### **6.2 Recommendation**

- 6.2.1 Given that no archaeological potential identified in this watching brief, no further follow-up archaeological works is required at TUW.

## 7 BIBLIOGRAPHY

AECOM 2009 *Environmental Impact Assessment of Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link*.

AECOM 2012 *Final Archaeological Rescue Excavation Report, Environmental Term Consultancy for XRL*.

CEDD 1989, Map HGM 20, Sheet 2, *San Tin: Solid and Superficial Geology* (1:20,000), Hong Kong, CEDD.

CEDD 1989 *Hong Kong Geological Survey: Sheet 2, San Tin: Solid and Superficial Geology*.

Institute of Field Archaeologists (IFA) 2001 *Standard and Guidance for an Archaeological Watching Brief*.

Langford and others 1989 *Geology of the Western New Territories*, Hong Kong Civil engineering Service Department.

Meacham 2009 *The Archaeology of Hong Kong*, Hong Kong University Press.

Peacock and Nixon 1986 *Report of the Hong Kong Archaeological Survey*, vol.III, Part I, Antiquities and Monuments Office.

中港考古研究室 1998 《香港錦田八鄉古廟宋代遺址試掘報告》，古物古蹟辦事處。

司馬龍 1990 《新界滄桑話鄉情》，香港，三聯書店。

邱東 1992 《新界風物與民情》，香港，三聯書店。

舒懋官修、王崇熙纂 1819、2002，《嘉慶新安縣誌》，上海，上海書店。

趙自強，張鎮洪，譚惠忠 2011 《廣港深高鐵香港段考古搶救發掘出土陶瓷鑒定報告》。

瀨川昌久 1999 《族譜：華南漢族的宗教、風水、移居》(第二章)，上海，上海書店出版社。

嚴瑞源 2005 《新界宗族文化之旅》，香港，萬里書店。

饒玖才 1998 《香港地名探索》，香港，天地圖書。

詹志勇、李思名、馮通編輯 2010 《新香港地理(上冊)》，香港，天地圖書。

蕭國健 2006 《香港古代史》，香港，中華書局。

---

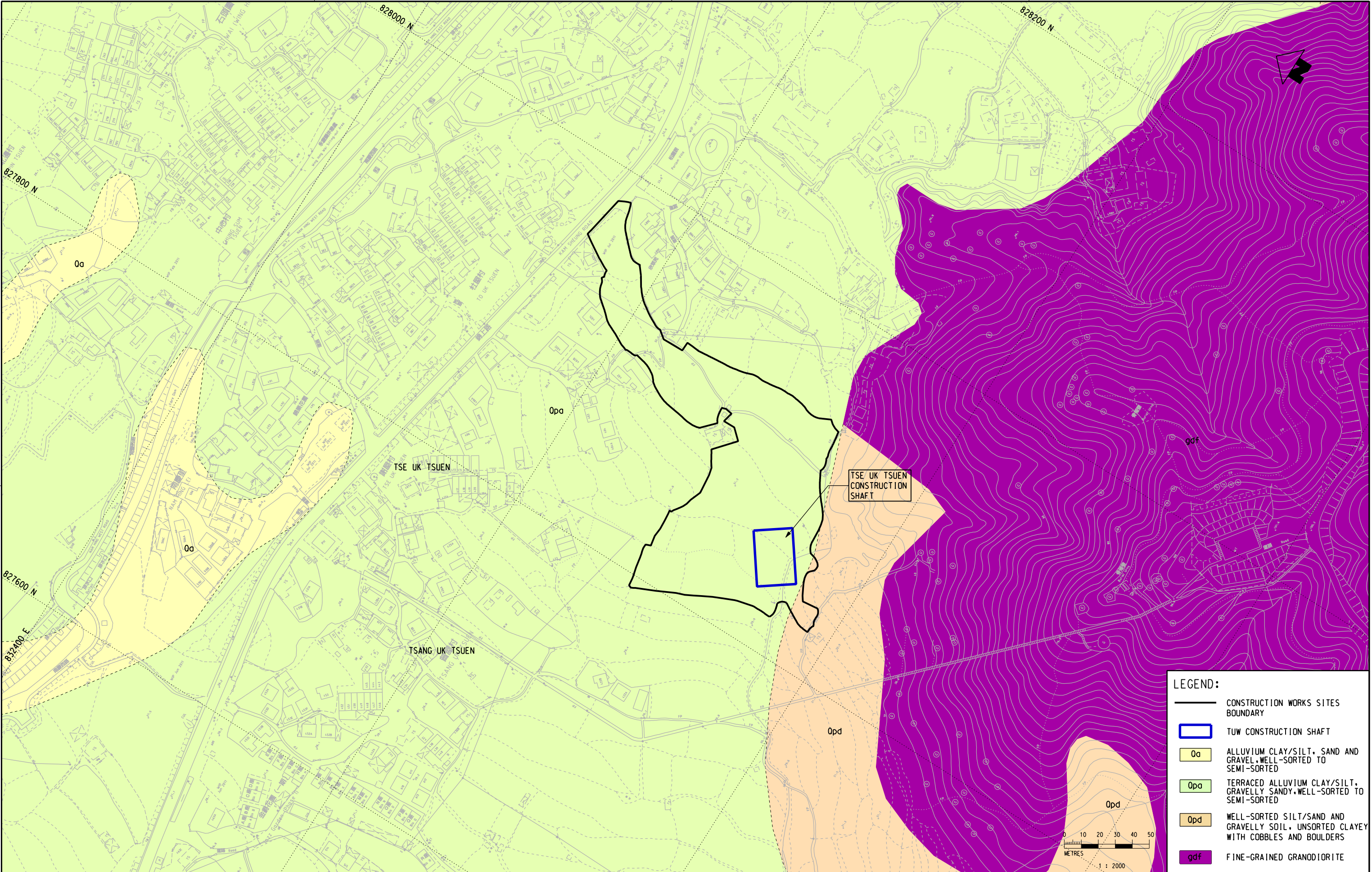
## FIGURES

---







PLOT DIR: V:\usr\mtr\p10\DRIVER\WINDOWS\3 COL\019.dgn  
 MODEL NAME: C8016  
 FILE NAME: C8016\_C\_XRL\_ACM\_M55\_032A.dgn  
 PRINTED BY: YANP  
 DATE: 2017/6/27 17:35:2



**LEGEND:**

- CONSTRUCTION WORKS SITES BOUNDARY
- TUW CONSTRUCTION SHAFT
- 0a ALLUVIUM CLAY/SILT, SAND AND GRAVEL, WELL-SORTED TO SEMI-SORTED
- 0pa TERRACED ALLUVIUM CLAY/SILT, GRAVELLY SANDY, WELL-SORTED TO SEMI-SORTED
- 0pd WELL-SORTED SILT/SAND AND GRAVELLY SOIL, UNSORTED CLAYEY WITH COBBLES AND BOULDERS
- gdf FINE-GRAINED GRANODIORITE

														<div>DRAWN DESIGNED CHECKED APPROVED DATE</div> <div>GXH TWF KCC PL 18/NOV/2010</div> <div>DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.</div>		<div> MTR</div> <div>EXPRESS RAIL LINK</div> <div>ORIGINATOR</div> <div></div> <div>CADD REF. C8016_C_XRL_ACM_M55_032A.dgn</div>		<div>TITLE</div> <div>C8016 ENVIRONMENTAL TERM CONSULTANCY FOR XRL GEOLOGICAL MAP OF TUW AREA</div>		<div>SCALE</div> <div>1 : 2000 (A3)</div>		<div>FIGURE NO.</div> <div>C8016/C/XRL/ENS/M55/032</div>		<div>REV.</div> <div>A</div>	
REV	DESCRIPTION							BY	DATE	APPROVED	REV	DESCRIPTION							BY	DATE	APPROVED				

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE  
 VERIFIED ON SITE.  
 © MTR CORPORATION LIMITED 2008. COPYRIGHT IN  
 RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE  
 MTR CORPORATION LIMITED OF HONG KONG. NO  
 REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART  
 BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR  
 WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.

CADD REF. C8016\_C\_XRL\_ACM\_M55\_032A.dgn

---

## **APPENDIX A**

考古監察記錄

**Watching Brief (Monitoring) Records**

---

# 考古監察記錄表

## Watching Brief Recording Sheet

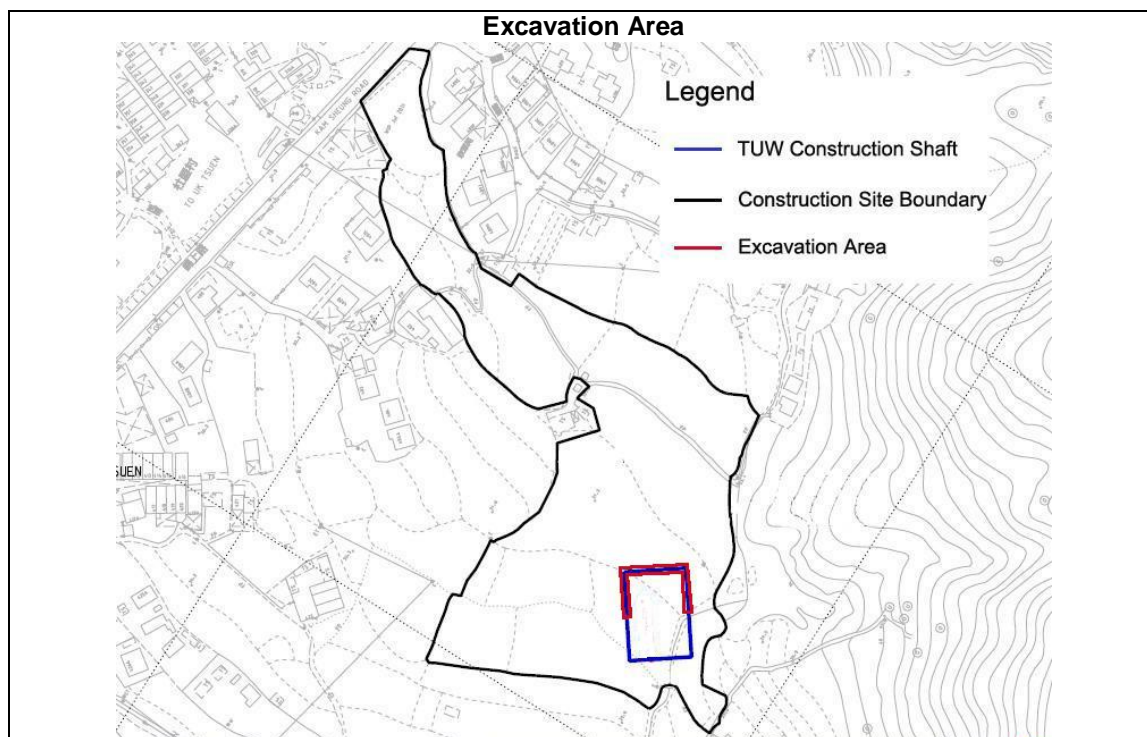
License No.:  
313

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>09/07/2011</b>				
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine				
1. 發掘大小 Excavation Dimension	長度 Length <b>40m</b>	闊度 Width <b>3m</b>	深度 Depth <b>2m</b>	5. 地貌 Landforms			其他 Others	
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>	<del>D. 山坡 Slope</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>	<del>H. 海灣 Bay</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>	<del>L. 現代道路 Modern pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>								
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)				
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition					
L1	Brownish yellow	Loose	Sandy soil	Late Holocene				
L2	Greyish brown	Loose	Silty soil	Late Holocene				
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene				
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene				
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>S.N.</b>		日期 Date <b>09/07/2011</b>		
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by		日期 Date		

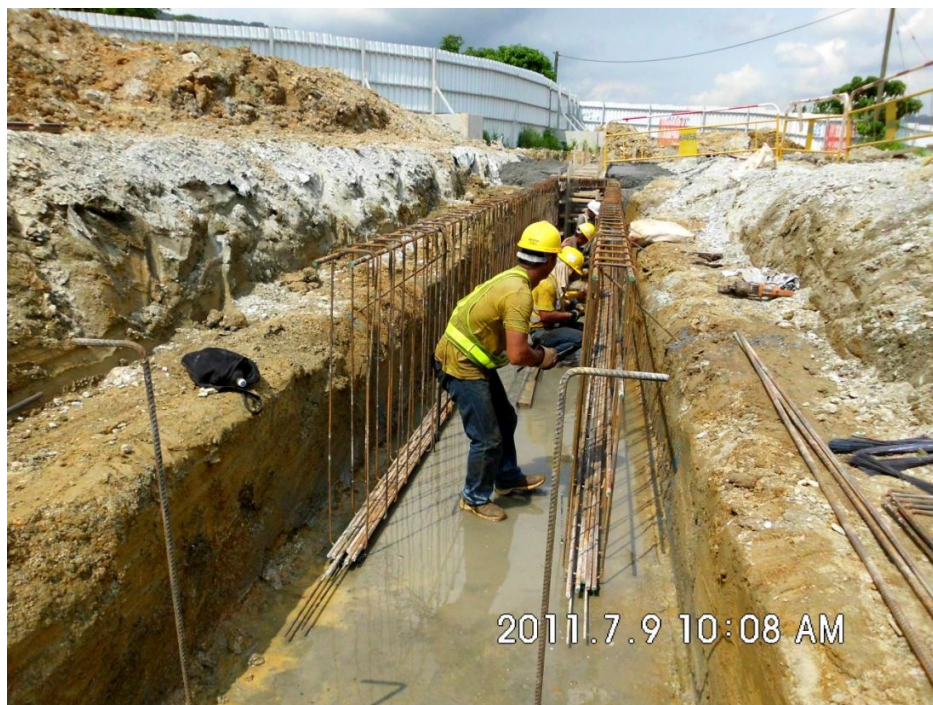


考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
313



Watching Brief Photo (View from Northeast)

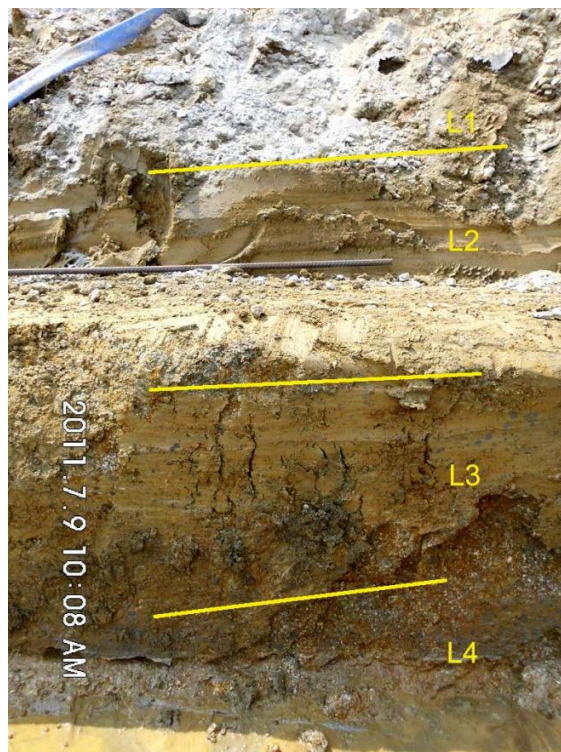




考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
313

Close-up of South-eastern Profile which shows L1, L2, L3, and L4



攝影者  
Photographed by

S.N.

日期  
Date

09/07/2012

# 考古監察記錄表

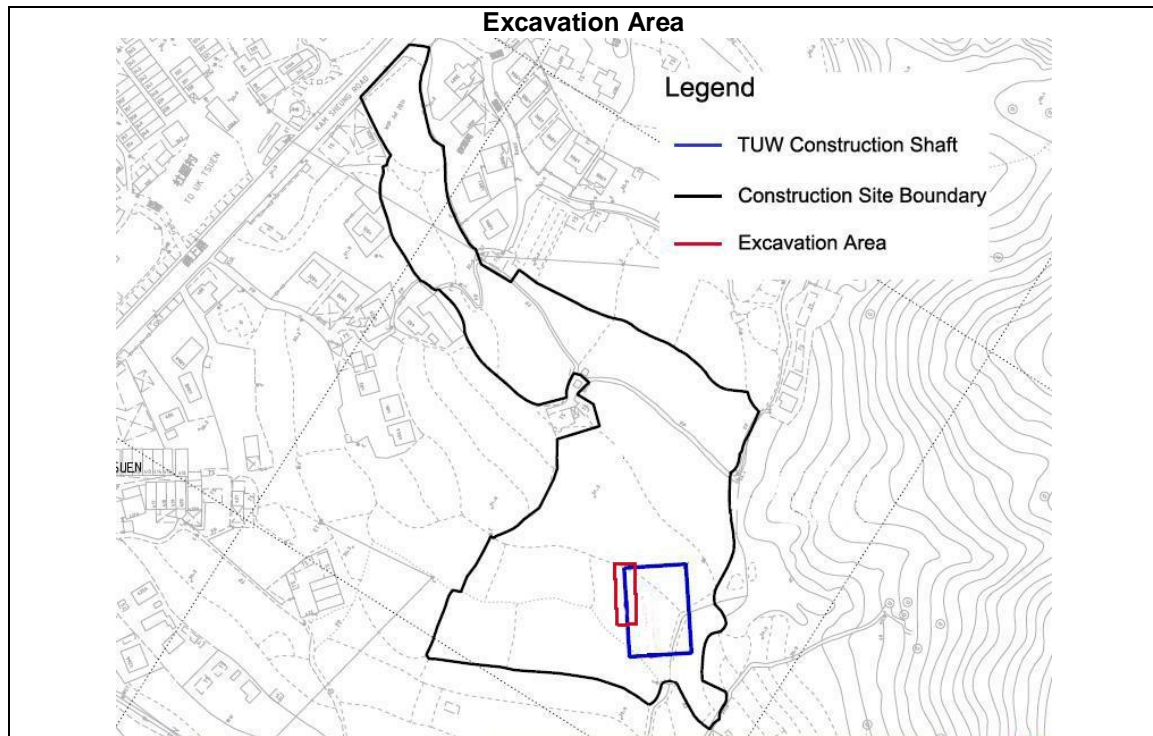
## Watching Brief Recording Sheet

License No.:  
313

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>13/07/2011</b>			
發掘狀況 Excavation Condition  <input type="checkbox"/> Bright <input checked="" type="checkbox"/> Dark <input type="checkbox"/> Flooded <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>20m</b>	闊度 Width <b>6m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms	其他 Others		
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>	最低 Lowest <b>+29.0MPD</b>	A. 平原 Plain	B. 山谷 Valley	C. 小山崗 Small hill	D. 山坡 Slope	
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>	植被 Vegetation <b>Nil</b>	E. 河流階地 River terrace	F. 海岸階地 Coastal terrace	G. 海岸沙堤 Coastal sand dune	H. 海灣 Bay	
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>	目前使用者 Current User <b>MTRC</b>	I. 農田 Agricultural field	J. 村落 Village	K. 古道 Ancient pathway	L. 現代道路 Modern pathway	
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene			
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene			
繪圖 Drawing	平面 Plan	側面 Profile	記錄者 Recorded by <b>S.N.</b>	日期 Date <b>13/07/2011</b>			
攝影 Photography	平面 Plan	側面 Profile	覆核者 Checked by	日期 Date			

考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
313



Watching Brief Photo (View from Northwest)



攝影者  
Photographed by

S.N.

日期  
Date

13/07/2012

# 考古監察記錄表

## Watching Brief Recording Sheet

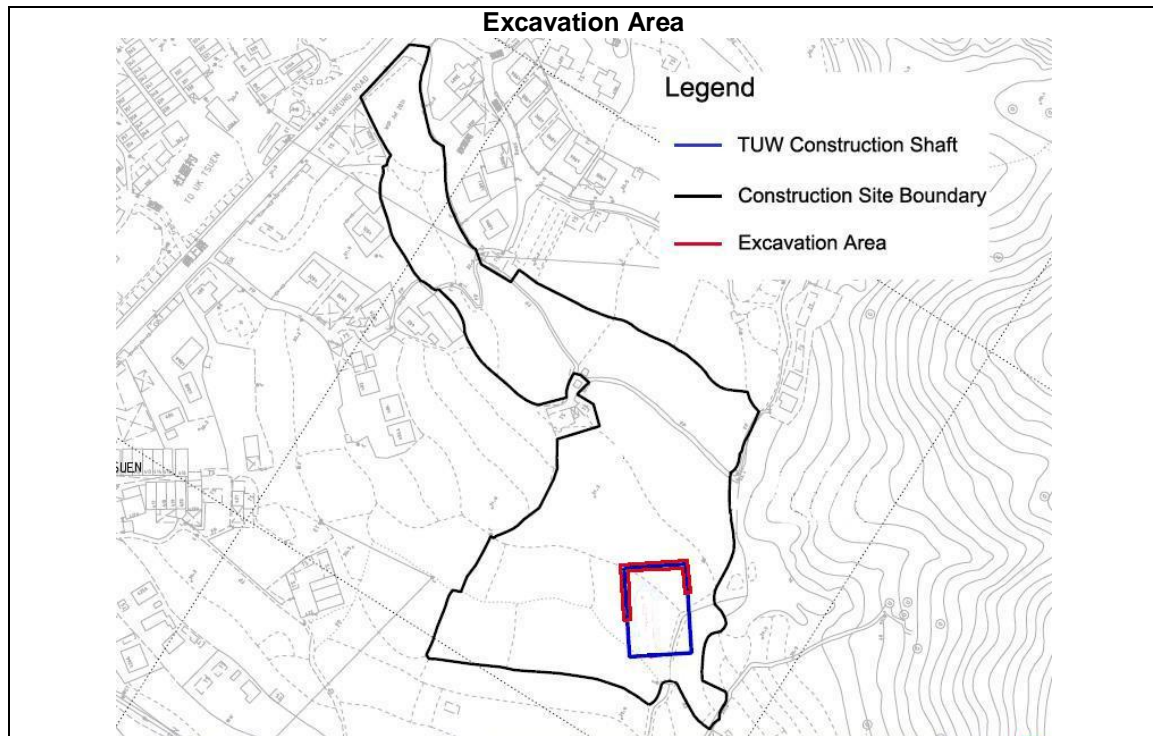
License No.:  
313

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>15/07/2011</b>			
發掘狀況 Excavation Condition <input type="checkbox"/> Bright <input checked="" type="checkbox"/> Dark <input type="checkbox"/> Flooded <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>20m</b>	闊度 Width <b>6m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms			其他 Others
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene			
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene			
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>S.N.</b>		日期 Date <b>15/07/2011</b>	
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by		日期 Date	



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
313



Watching Brief Photo (View from Northwest)



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
313

Excavated Soil that Reached L5 (Grey Pebbles with Alluvial Sandy Soil)



攝影者  
Photographed by

S.N.

日期  
Date

15/07/2012

# 考古監察記錄表

## Watching Brief Recording Sheet

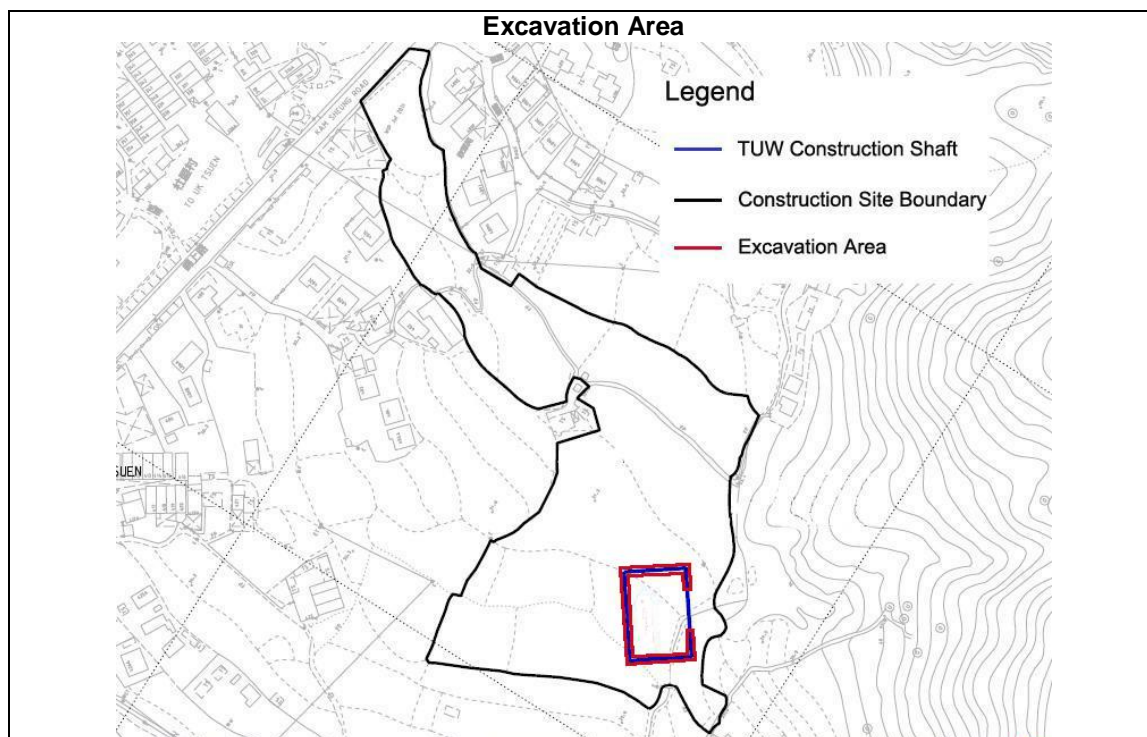
License No.:  
313

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>26/07/2011</b>			
發掘狀況 Excavation Condition  <input type="checkbox"/> Bright <input checked="" type="checkbox"/> Dark <input type="checkbox"/> Flooded <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>20m</b>	闊度 Width <b>6m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms	其他 Others		
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>	最低 Lowest <b>+29.0MPD</b>		A. 平原 Plain	B. 山谷 Valley	C. 小山崗 Small hill	D. 山坡 Slope
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>	植被 Vegetation <b>Nil</b>		E. 河流階地 River terrace	F. 海岸階地 Coastal terrace	G. 海岸沙堤 Coastal sand dune	H. 海灣 Bay
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>	目前使用者 Current User <b>MTRC</b>		I. 農田 Agricultural field	J. 村落 Village	K. 古道 Ancient pathway	L. 現代道路 Modern pathway
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
繪圖 Drawing	平面 Plan	側面 Profile	記錄者 Recorded by <b>S.N.</b>	日期 Date <b>26/07/2011</b>			
攝影 Photography	平面 Plan	側面 Profile	覆核者 Checked by	日期 Date			



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
313



Watching Brief Photo (View from Northwest)





考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
313

Watching Brief Photo (View from Northwest)



Close-up of Southeastern Profile which shows L1, L2, and L3



攝影者  
Photographed by

S.N.

日期  
Date

26/07/2012

# 考古監察記錄表

## Watching Brief Recording Sheet

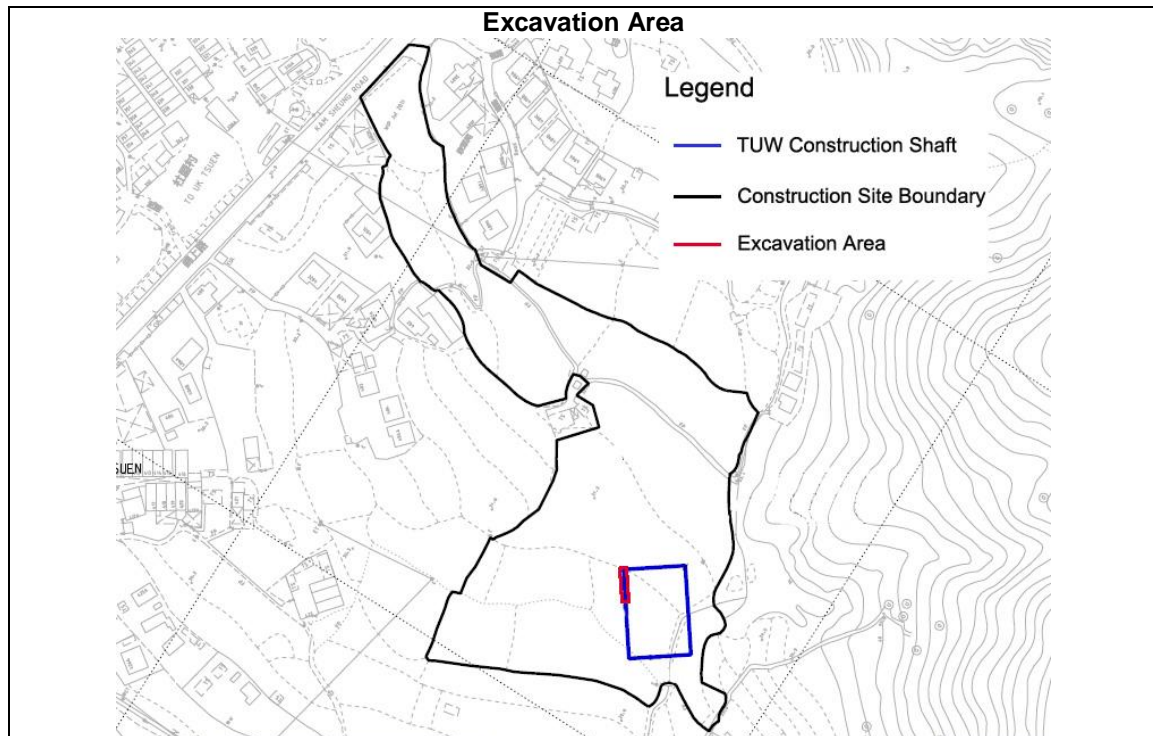
License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>28/02/2012</b>			
發掘狀況 Excavation Condition  <input type="checkbox"/> Bright <input checked="" type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>10m</b>	闊度 Width <b>3m</b>	深度 Depth <b>2m</b>	5. 地貌 Landforms			其他 Others
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene			
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>N.Y.</b>		日期 Date <b>28/02/2012</b>	
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by <b>S.N.</b>		日期 Date <b>28/02/2012</b>	



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View from Southwest)



攝影者  
Photographed by

N.Y.

日期  
Date

28/02/2012

# 考古監察記錄表

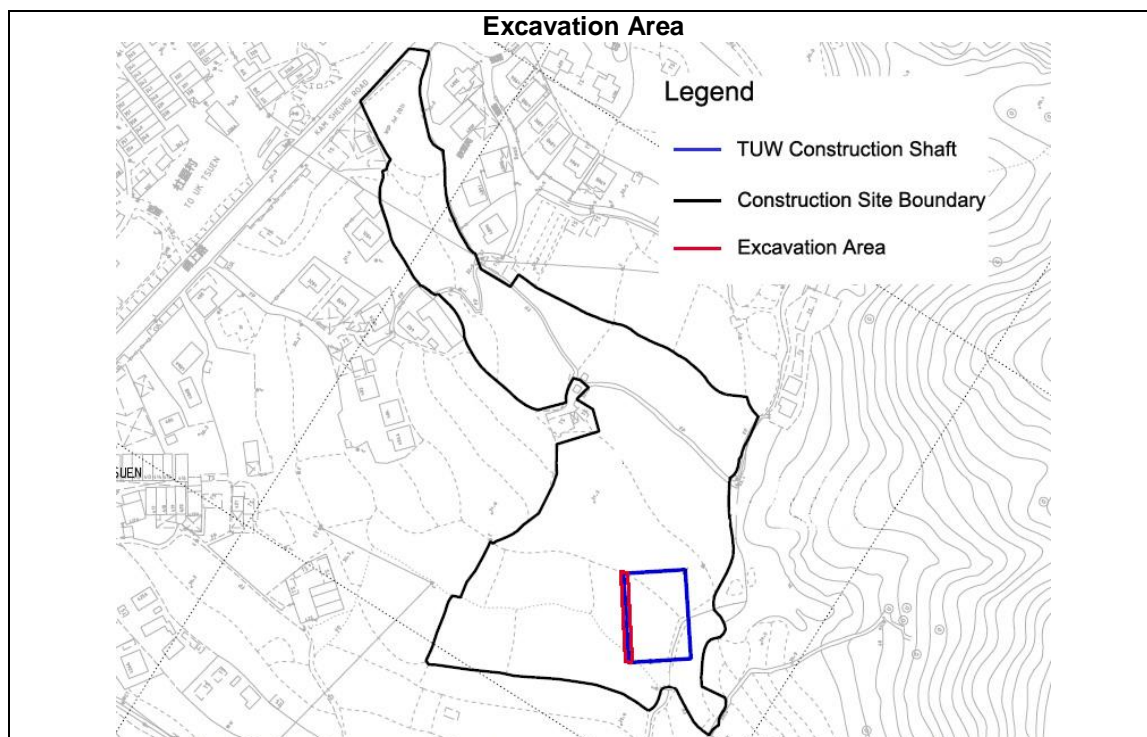
## Watching Brief Recording Sheet

License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>12/03/2012</b>				
發掘狀況 Excavation Condition  <input type="checkbox"/> Bright <input checked="" type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine				
1. 發掘大小 Excavation Dimension	長度 Length <b>34m</b>	闊度 Width <b>3m</b>	深度 Depth <b>2m</b>	5. 地貌 Landforms 其他 Others				
2. 水平高度 Level	最高 Highest <b>+31.49MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>	<del>D. 山坡 Slope</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>	<del>H. 海灣 Bay</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>	<del>L. 現代道路 Modern pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>								
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)				
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition					
L1	Brownish yellow	Loose	Sandy soil	Late Holocene				
L2	Greyish brown	Loose	Silty soil	Late Holocene				
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene				
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene				
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>N.Y.</b>		日期 Date <b>12/03/2012</b>		
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by <b>S.N.</b>		日期 Date <b>12/03/2012</b>		

考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



**Watching Brief Photo (View from Southwest)**





考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330

Stratigraphy observed in the Northeastern Profile



Watching Brief Photo (View from Southwest)



攝影者  
Photographed by

N.Y.

日期  
Date

12/03/2012

# 考古監察記錄表

## Watching Brief Recording Sheet

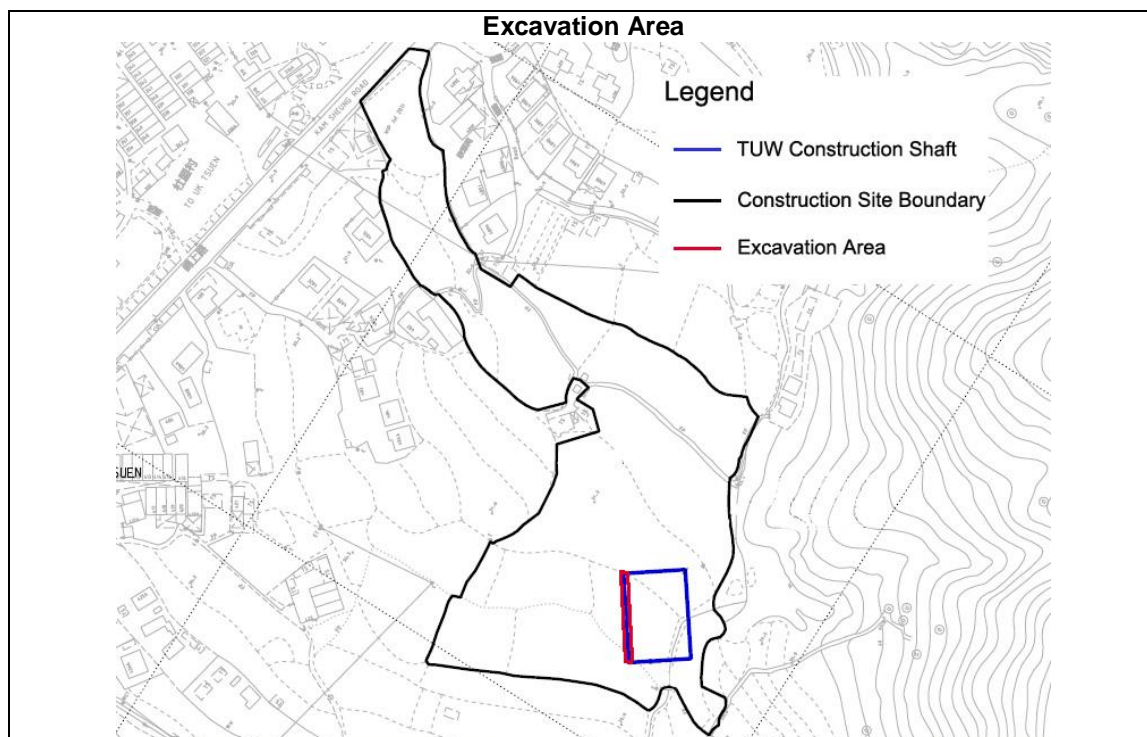
License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>14/03/2012</b>			
發掘狀況 Excavation Condition  <input type="checkbox"/> Bright <input checked="" type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>34m</b>	闊度 Width <b>3m</b>	深度 Depth <b>2m</b>	5. 地貌 Landforms			其他 Others
2. 水平高度 Level	最高 Highest <b>+31.49MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene			
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>S.N.</b>		日期 Date <b>14/03/2012</b>	
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by		日期 Date	



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View from Northeast)



攝影者  
Photographed by

N.Y.

日期  
Date

14/03/2012



# 考古監察記錄表

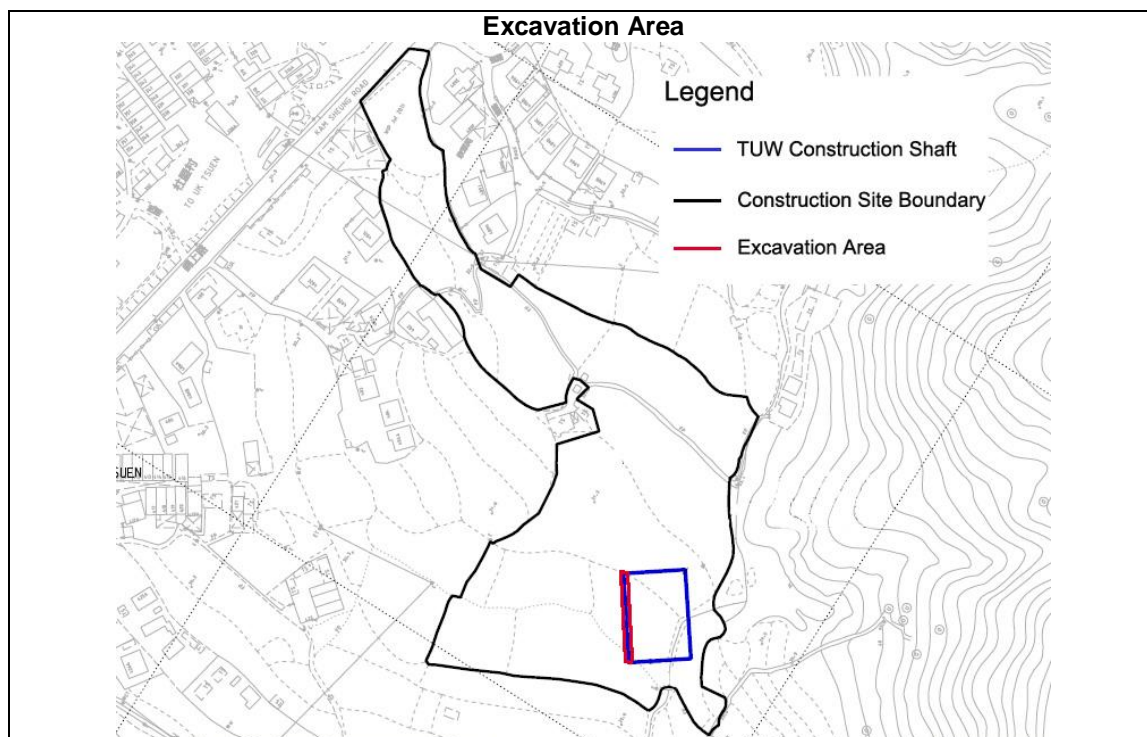
## Watching Brief Recording Sheet

License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>23/03/2012</b>				
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine				
1. 發掘大小 Excavation Dimension	長度 Length <b>34m</b>	闊度 Width <b>3m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms			其他 Others	
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>	<del>D. 山坡 Slope</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>	<del>H. 海灣 Bay</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>	<del>L. 現代道路 Modern pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>								
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)				
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition					
L1	Brownish yellow	Loose	Sandy soil	Late Holocene				
L2	Greyish brown	Loose	Silty soil	Late Holocene				
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene				
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene				
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene				
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>N.Y.</b>		日期 Date <b>23/03/2012</b>		
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by <b>S.N.</b>		日期 Date <b>23/03/2012</b>		

考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo(View from Northeast)





考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330

Section Cutting of D-wall (View from South)



Section cutting (View from North)



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330

Close-up of section cutting, bottom is L5 (pebbles with coarse sand),  
above is L4 (dark brown clay)



攝影者  
Photographed by

N.Y.

日期  
Date

23/03/2012



# 考古監察記錄表

## Watching Brief Recording Sheet

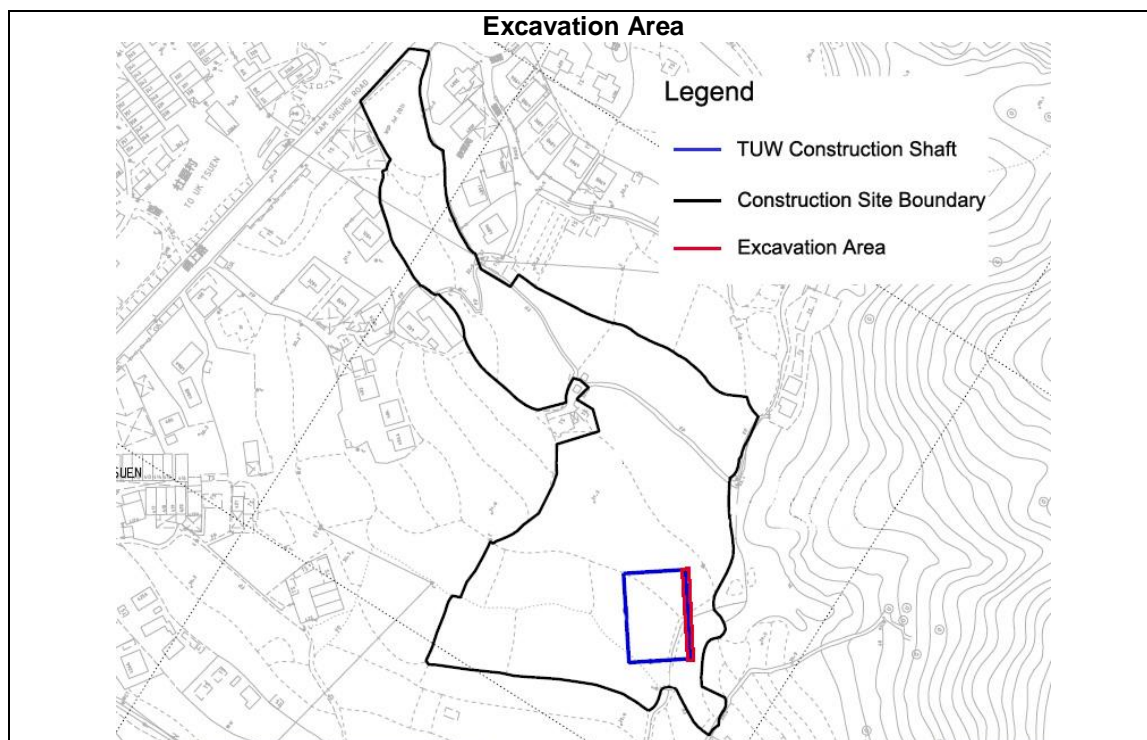
License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>30/03/2012</b>			
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>34m</b>	闊度 Width <b>3m</b>	深度 Depth <b>2m</b>	5. 地貌 Landforms			其他 Others
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
繪圖 Drawing	平面 Plan		側面 Profile		記錄者 Recorded by <b>N.Y.</b>		日期 Date <b>30/03/2012</b>
攝影 Photography	平面 Plan		側面 Profile		覆核者 Checked by <b>S.N.</b>		日期 Date <b>30/03/2012</b>



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View from North)



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330

L1 , L2 and L3 in a Trench



攝影者  
Photographed by

N.Y.

日期  
Date

30/03/2012

# 考古監察記錄表

## Watching Brief Recording Sheet

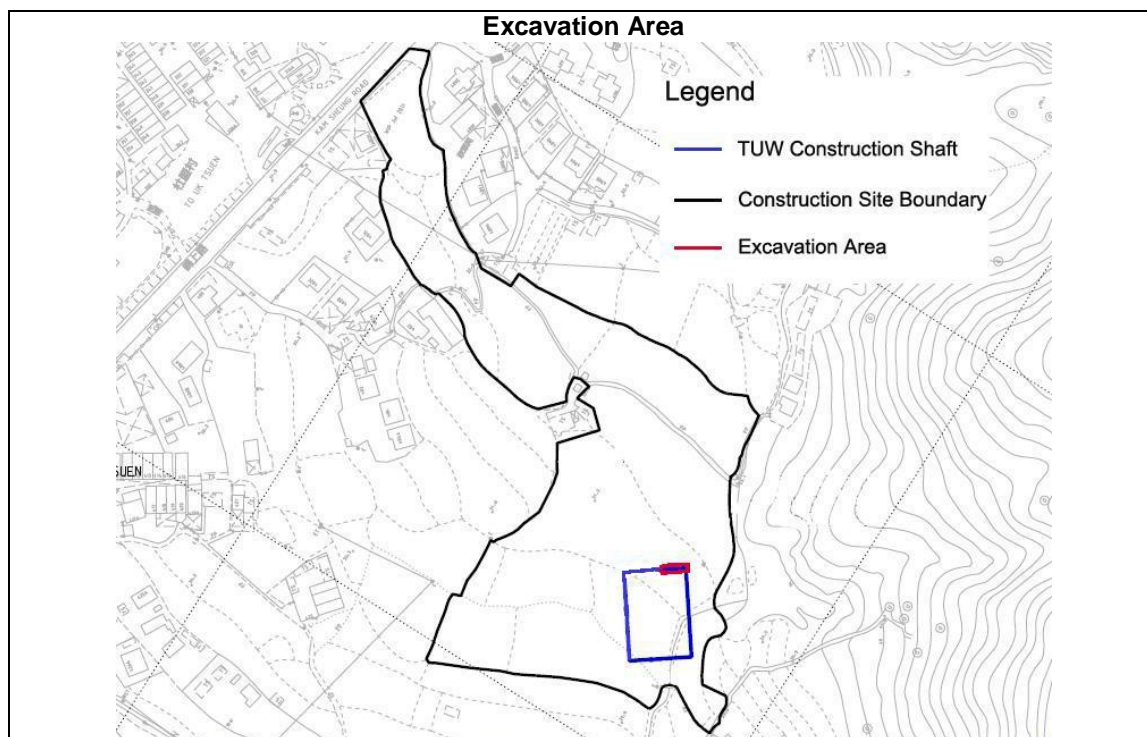
License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>12/04/2012</b>			
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>5m</b>	闊度 Width <b>3m</b>	深度 Depth <b>2.5m</b>	5. 地貌 Landforms			其他 Others
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene			
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene			
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>N.Y.</b>	日期 Date <b>12/04/2012</b>		
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by <b>S.N.</b>	日期 Date <b>12/04/2012</b>		



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View from Northeast)



攝影者  
Photographed by

N.Y.

日期  
Date

12/04/2012

# 考古監察記錄表

## Watching Brief Recording Sheet

License No.:  
330

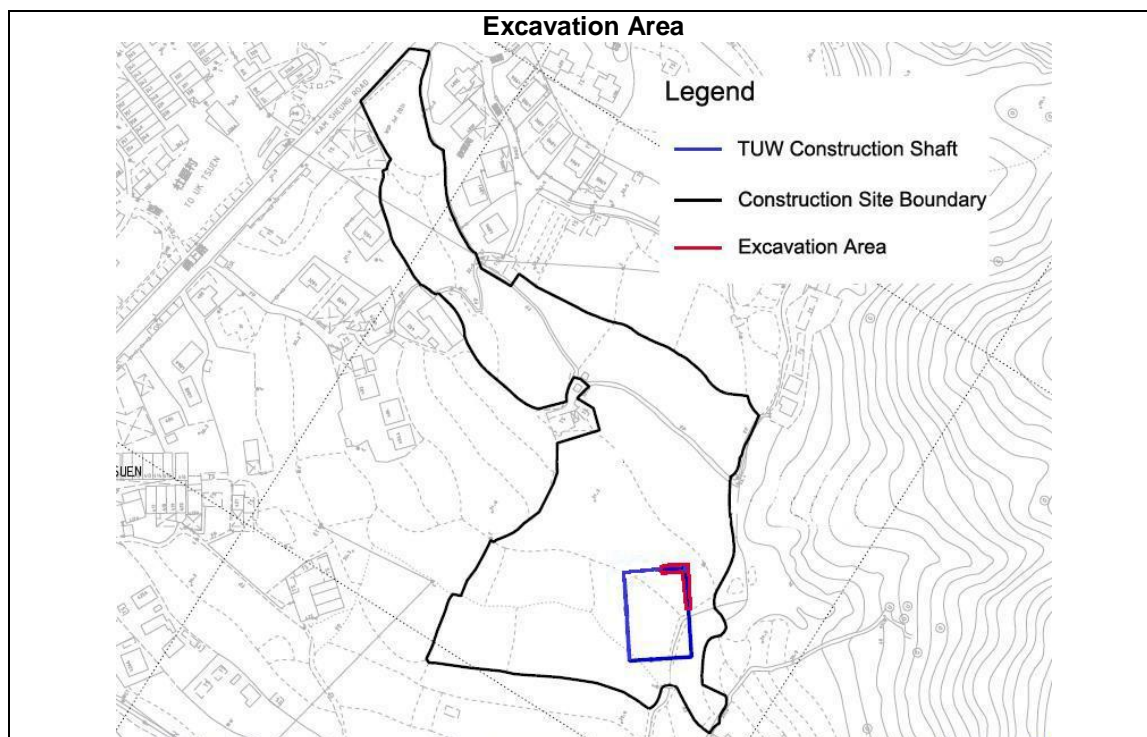
分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>18/04/2012</b>			
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine			
1. 發掘大小 Excavation Dimension	長度 Length <b>15m</b>	闊度 Width <b>3m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms			其他 Others
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>							
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)			
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition				
L1	Brownish yellow	Loose	Sandy soil	Late Holocene			
L2	Greyish brown	Loose	Silty soil	Late Holocene			
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene			
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene			
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene			

繪圖 Drawing	平面 Plan	側面 Profile	記錄者 Recorded by <b>N.Y.</b>	日期 Date <b>18/04/2012</b>
攝影 Photography	平面 Plan	側面 Profile	覆核者 Checked by <b>S.N.</b>	日期 Date <b>18/04/2012</b>



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View form Northeast)



攝影者  
Photographed by

N.Y.

日期  
Date

18/04/2012

# 考古監察記錄表

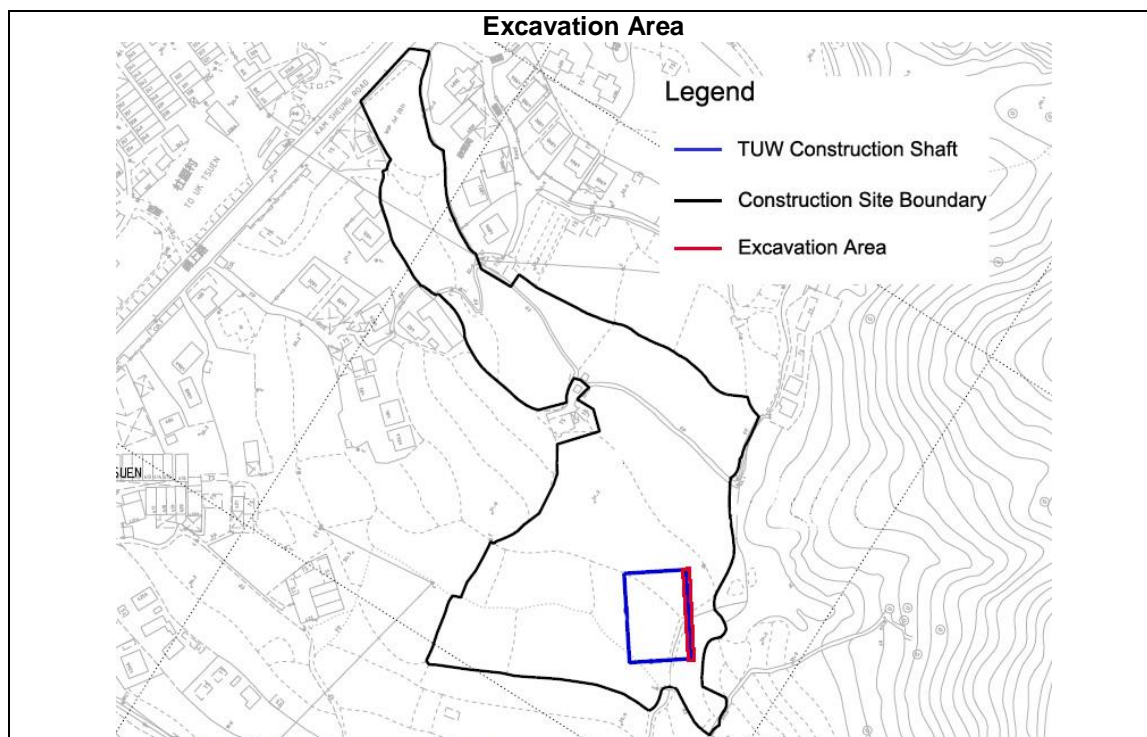
## Watching Brief Recording Sheet

License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>24/04/2012</b>				
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine				
1. 發掘大小 Excavation Dimension	長度 Length <b>34m</b>	闊度 Width <b>3m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms			其他 Others	
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>	<del>D. 山坡 Slope</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>	<del>H. 海灣 Bay</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>	<del>L. 現代道路 Modern pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>								
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)				
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition					
L1	Brownish yellow	Loose	Sandy soil	Late Holocene				
L2	Greyish brown	Loose	Silty soil	Late Holocene				
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene				
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene				
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene				
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>N.Y.</b>		日期 Date <b>24/04/2012</b>		
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by <b>S.N.</b>		日期 Date <b>24/04/2012</b>		

考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View from East)



攝影者  
Photographed by

N.Y.

日期  
Date

24/04/2012

# 考古監察記錄表

## Watching Brief Recording Sheet

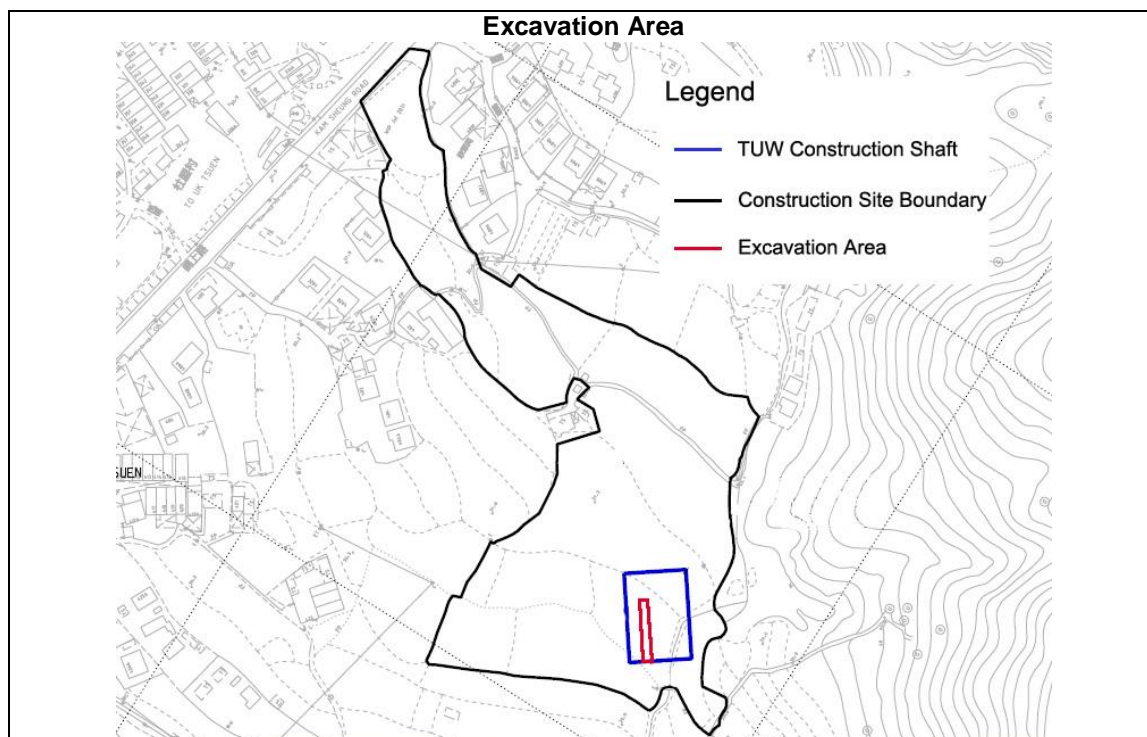
License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>26/04/2012</b>				
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine				
1. 發掘大小 Excavation Dimension	長度 Length <b>20m</b>	闊度 Width <b>3m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms			其他 Others	
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>	<del>D. 山坡 Slope</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>	<del>H. 海灣 Bay</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>	<del>L. 現代道路 Modern pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>								
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)				
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition					
L1	Brownish yellow	Loose	Sandy soil	Late Holocene				
L2	Greyish brown	Loose	Silty soil	Late Holocene				
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene				
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene				
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene				
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>N.Y.</b>		日期 Date <b>26/04/2012</b>		
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by <b>S.N.</b>		日期 Date <b>26/04/2012</b>		



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View from Southwest)



攝影者  
Photographed by

N.Y.

日期  
Date

26/04/2012



# 考古監察記錄表

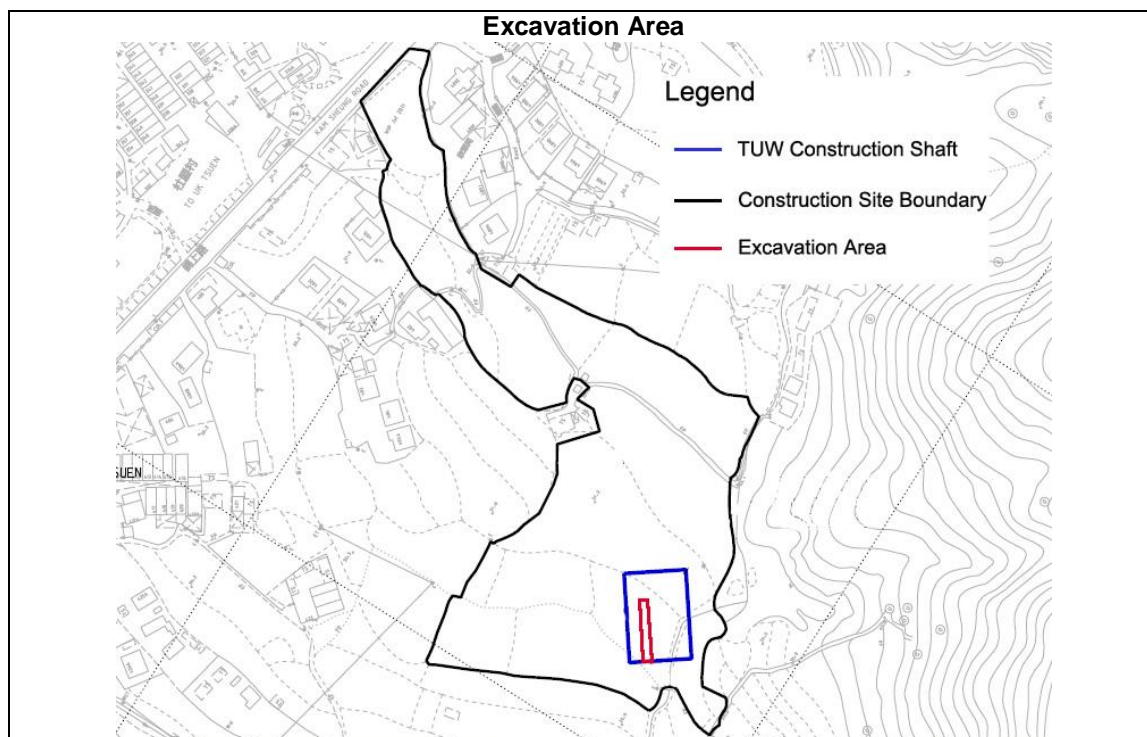
## Watching Brief Recording Sheet

License No.:  
330

分區號 Area code <b>Tse Uk Tsuen Works Area</b>				記錄日期 Record Date <b>27/04/2012</b>				
發掘狀況 Excavation Condition  <input checked="" type="checkbox"/> Bright <input type="checkbox"/> Dark <input type="checkbox"/> Flooded  <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Collapsed				發掘方法 Excavated by  <input type="checkbox"/> Hand <input checked="" type="checkbox"/> Machine				
1. 發掘大小 Excavation Dimension	長度 Length <b>20m</b>	闊度 Width <b>3m</b>	深度 Depth <b>3m</b>	5. 地貌 Landforms			其他 Others	
2. 水平高度 Level	最高 Highest <b>+31.0MPD</b>		最低 Lowest <b>+29.0MPD</b>		<del>A. 平原 Plain</del>	<del>B. 山谷 Valley</del>	<del>C. 小山崗 Small hill</del>	<del>D. 山坡 Slope</del>
3. 地表狀況 Surface Condition	覆蓋物料 Material <b>Topsoil</b>		植被 Vegetation <b>Nil</b>		<del>E. 河流階地 River terrace</del>	<del>F. 海岸階地 Coastal terrace</del>	<del>G. 海岸沙堤 Coastal sand dune</del>	<del>H. 海灣 Bay</del>
4. 土地狀況 Land Condition	土地用途 Land Use <b>Vacant</b>		目前使用者 Current User <b>MTRC</b>		<del>I. 農田 Agricultural field</del>	<del>J. 村落 Village</del>	<del>K. 古道 Ancient pathway</del>	<del>L. 現代道路 Modern pathway</del>
<b>總地層 OVERALL STRATIGRAPHY</b>								
層位 Stratum	土壤 Soil			備註 (例: 遺存, 斷代*, 深度, 分析) Remarks (eg. Remains, Dating*, Depth, Interpretation)				
	顏色 Colour	堅實程度 Compaction	堆積構成 Composition					
L1	Brownish yellow	Loose	Sandy soil	Late Holocene				
L2	Greyish brown	Loose	Silty soil	Late Holocene				
L3	Brown	Weakly cemented	Loamy soil	Early to Middle Holocene				
L4	Dark brown	Weakly cemented	Clay	Early to Middle Holocene				
L5	Grey	Weakly cemented	Pebbles with Alluvial Sandy Soil	Late Pleistocene				
繪圖 Drawing	平面 Plan		側面 Profile	記錄者 Recorded by <b>N.Y.</b>		日期 Date <b>27/04/2012</b>		
攝影 Photography	平面 Plan		側面 Profile	覆核者 Checked by <b>S.N.</b>		日期 Date <b>27/04/2012</b>		

考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330



Watching Brief Photo (View From Northwest)



考古監察記錄表  
Watching Brief Recording Sheet

License No.:  
330

Close-up of Cross Section which shows L1, L2, and L3



攝影者  
Photographed by

N.Y.

日期  
Date

27/04/2012

---

## APPENDIX B

地層圖

Stratigraphy Drawings

---



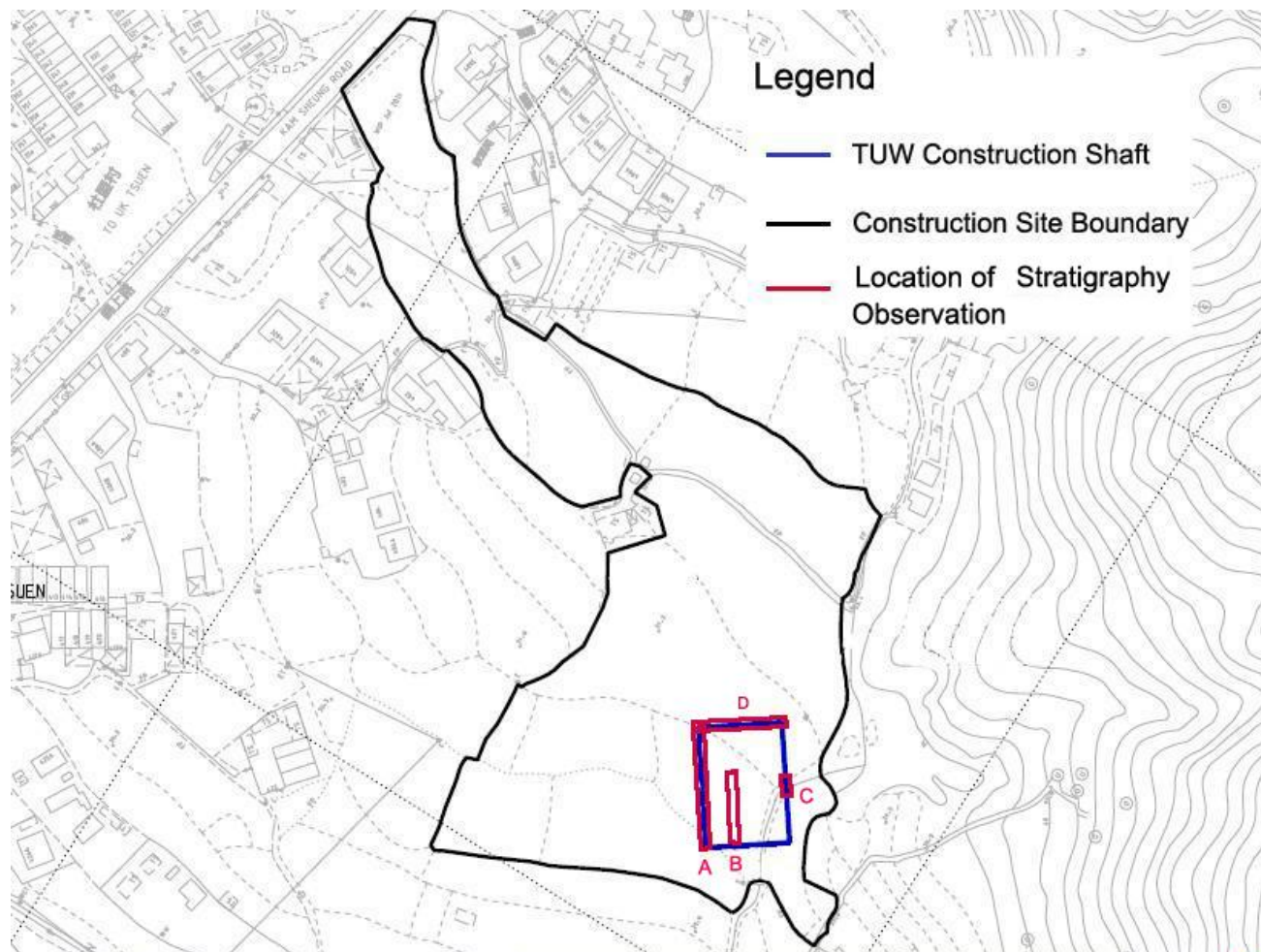
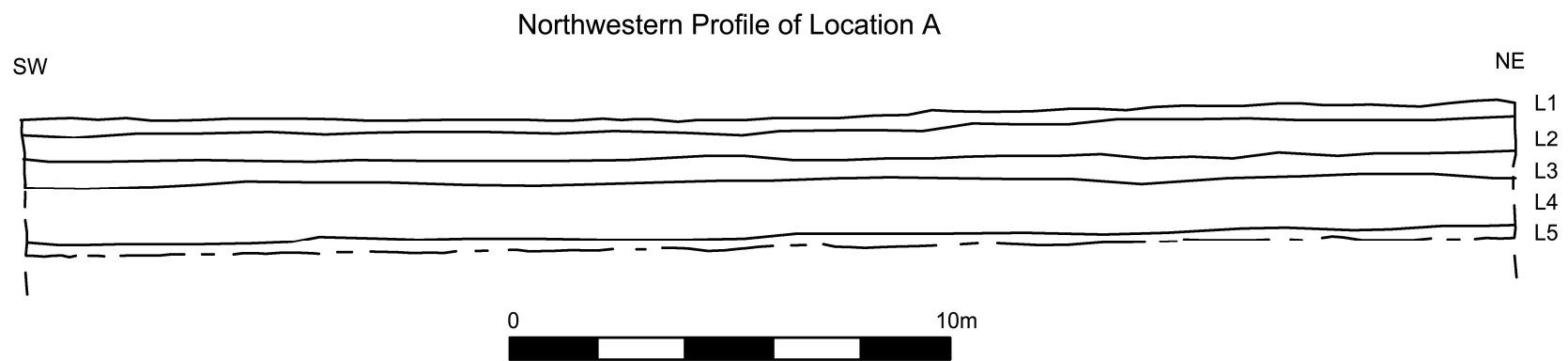


Figure 1. Locations of Stratigraphy Observation



**Figure 2. Stratigraphy at Location A (indicative)**

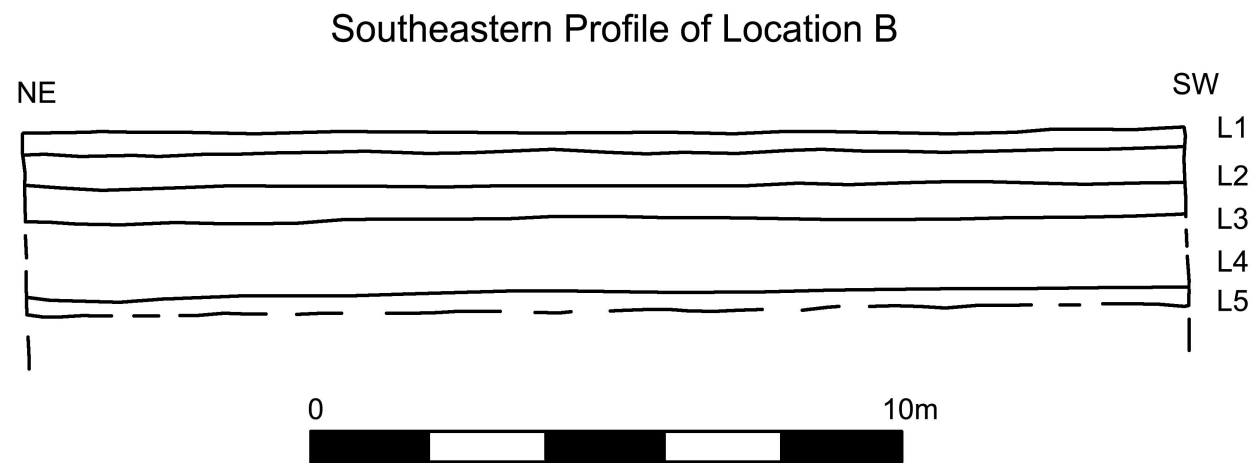
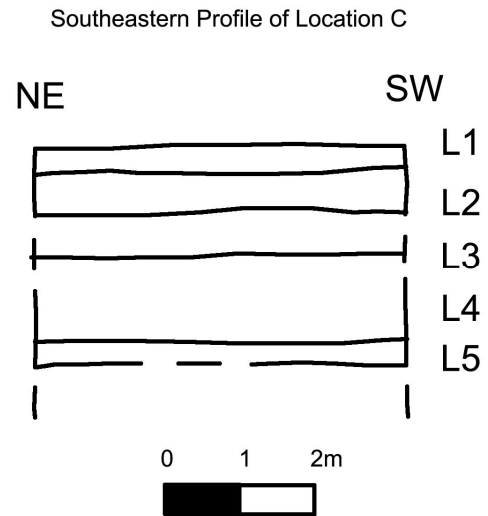
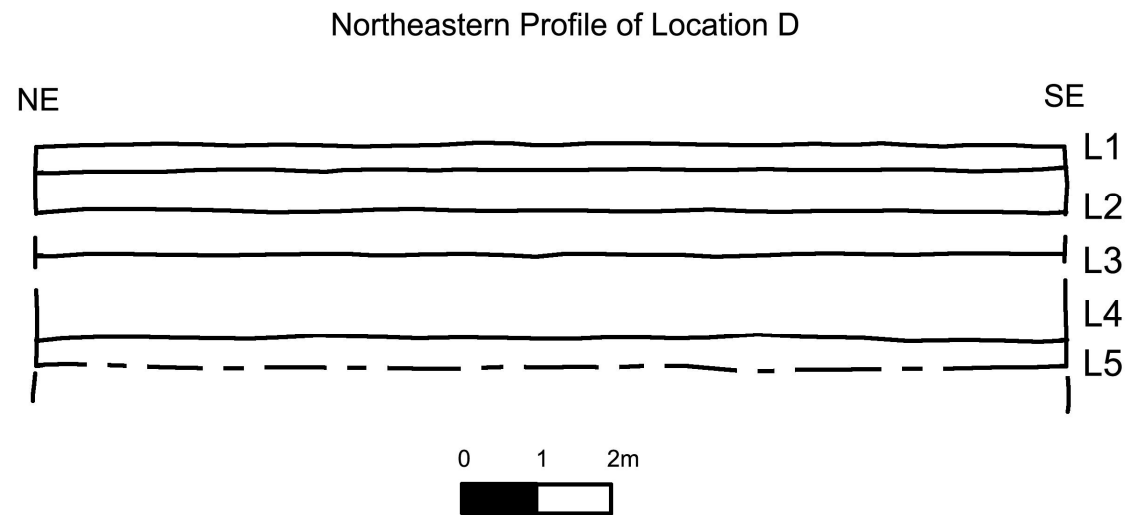


Figure 3. Stratigraphy at Location B (indicative)



**Figure 4. Stratigraphy at the Observable Section of Location C (indicative)**





**Figure 5. Stratigraphy at the Observable Section of Location D (indicative)**