

CLP Power Hong Kong Ltd

Renewable Energy Supply on  
Town Island (Construction  
Phase): *14<sup>th</sup> Monthly  
Environmental Site Audit Report*

May 2012

**Environmental Resources Management**

21/F Lincoln House  
979 King's Road  
Taikoo Place  
Island East, Hong Kong  
Telephone: (852) 2271 3000  
Facsimile: (852) 2723 5660  
E-mail: [post.hk@erm.com](mailto:post.hk@erm.com)  
<http://www.erm.com>

CLP Power Hong Kong Ltd

Renewable Energy Supply on  
Town Island (Construction  
Phase): 14<sup>th</sup> Monthly  
*Environmental Site Audit Report*

May 2012

Reference 0129569

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Certified by :	Winnie Ko
Signed :	
Position :	Independent Environmental Checker
Date :	23 May 2012

## *CONTENTS*

<i>1</i>	<i>ENVIRONMENTAL SITE AUDIT</i>	<i>1</i>
<i>1.1</i>	<i>BACKGROUND</i>	<i>1</i>
<i>1.2</i>	<i>SITE AUDIT FINDINGS AND OBSERVATIONS</i>	<i>1</i>

<i>Annex A</i>	<i>Environmental Site Audit Checklist</i>
<i>Annex B</i>	<i>Photo Records</i>

# 1 ENVIRONMENTAL SITE AUDIT

## 1.1 BACKGROUND

The construction works of *Renewable Energy Supply on Town Island* (the Project) has commenced in March 2011.

To fulfill Condition 2.2 of the Environmental Permit (EP-397/2010) and environmental audit requirements stated in Section 5.7.1 of the approved Project Profile (PP) submitted for direct application of an Environmental Permit under EIA Ordinance (EIAO) (PP-413/2010), monthly environmental site audits should be undertaken to ensure that the mitigation measures recommended in PP are properly implemented.

This is the fourteenth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 11 May 2012.

## 1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The fourteenth monthly environmental site audit was conducted on 11 May 2012. The construction works conducted during the site audit included superstructure works at Site 1 and foundation formation works at Site 2. All the temporary worksites have been reinstated. Two observations have been recorded during the site audit and are described below:

- An oil drum was observed without a drip tray at Site 1 (Photo 1). The Contractor was reminded to provide a drip tray for the oil drum within 3 working days.
- Construction materials were observed storing outside the site boundary at Site 1 (Photo 2). The Contractor was reminded to keep those construction materials within the site boundary.

The remedial actions for the three environmental deficiencies which were recorded during the previous reporting period has been taken and verified during the site inspection:

- A drip tray has been provided for the oil drum stored next to the site office.
- Stagnant waters inside a bucket and on tarpaulin sheet at Site 2 have been removed.
- A bund has been provided for the haul road crossing the stream (Photo 3).

The environmental site audit checklist is appended in *Annex A*.

Photos of the site audit are given in *Annex B*.

Annex A

# Environmental Site Audit Checklist



Renewable Energy Supply on Town Island  
Construction Phase - Environmental Site Audit



Inspection Date: 11-05-2012 Time: 10:30 to 12:30

Inspected By: IEC Representative : Andrew Fung  
 CLP Representative : Raymond Ho / Lee Tin Yau  
 Contractor : Rebal Hui (3Tech Corporate Ltd)

**Weather**

Condition  Sunny  Fine  Overcast  Drizzle  Rain  Storm  Hazy  
 Temperature 23 °C Humidity  High  Moderate  Low  
 Wind  Calm  Light  Breeze  Strong

**A General** Yes Yes, but need No N/A or Photo/Remarks  
Improvement not observed

A1 Is the Environmental Permit displayed at the entrances / exits?     \_\_\_\_\_

**B Air Quality** Yes Yes, but need No N/A or Photo/Remarks  
Improvement not observed

B1 Is open burning avoided?     \_\_\_\_\_  
 B2 Are exposed soil surfaces regularly watered to avoid generation of dust?     \_\_\_\_\_  
 B3 Are plant and equipment well maintained? (ie without black smoke from powered plant)     \_\_\_\_\_  
 B4 Are stockpiles of dusty material covered or regularly watered?     \_\_\_\_\_  
 B5 Is watering implemented during excavation?     \_\_\_\_\_  
 B6 Is generation of dust avoided during loading/unloading/excavation?     \_\_\_\_\_

**C Noise** Yes Yes, but need No N/A or Photo/Remarks  
Improvement not observed

C1 Is the Construction Noise Permit displayed at the entrances / exits (if any)?     \_\_\_\_\_  
 C2 Are all plant and equipment well maintained and in good operating condition?     \_\_\_\_\_  
 C3 Is idle equipment turned off or throttled down?     \_\_\_\_\_  
 C4 Are powered mechanical equipment covered or shielded by acoustic materials?     \_\_\_\_\_  
 C5 Are silenced equipment used where practicable?     \_\_\_\_\_  
 C6 Is the number of construction plant being used minimized?     \_\_\_\_\_  
 C7 Do air compressors have valid noise labels?     \_\_\_\_\_  
 C8 Do compressors operate with doors closed?     \_\_\_\_\_

**D Water Quality** Yes Yes, but need No N/A or Photo/Remarks  
Improvement not observed

D1 Is wastewater discharge license, if any, available for inspection?     \_\_\_\_\_  
 D2 Is drainage system adequate?     \_\_\_\_\_  
 D3 Is drainage system well maintained?     \_\_\_\_\_  
 D4 Is debris and rubbish in the drainage system collected and disposed of properly?     \_\_\_\_\_

D5	Are there temporary ditches for runoff discharge into appropriate Watercourse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
	With silt retention pond?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
D6	Are there sedimentation tanks for settling runoff prior to disposal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
D7	Is the capacity of sedimentation tank adequate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
D8	Is the sedimentation free from silt and sediment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
D9	Are the temporary stockpiles located away from stream or coastline?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
D10	Are trenching carried out for the section of cable in the vicinity of and crossing the stream between Sites 1 and 2?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
D11	Is cable trenching works scheduled to be carried out during dry season?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

E Waste/Chemical Management		Yes	Yes, but need Improvement	No	N/A or not observed	Photo/Remarks
<b>General refuse</b>						
E1	Accumulation avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E2	Receptacles (e.g. rubbish bins) available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E3	Disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Chemical waste, waste oil</b>						
E4	Is the Chemical Waste Producer Registration available for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E5	Stored properly in designated area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E6	Labelled properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E7	Disposed of properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E8	Trip tickets/ chits available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<b>Chemical/fuel storage area</b>						
E9	Are all spillage containment provided for all chemicals, oils and fuels stored on site, those equipment which potentially have oil leakage and for the area where maintenance works carrying out?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Note 1
E10	Is storage area bunded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E11	Adequate bund capacity? (>110% of the largest tank)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E12	Are storage areas provided with locks and located on sealed areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<b>Construction Waste</b>						
E13	Reused where practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	Is sorting conducted on site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E14	Transported offsite by boat for proper disposal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E15	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Excavated Material</b>						
E16	Appears uncontaminated? (colour, odour)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E17	If suspected contaminated, appropriate procedures followed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
E18	Relevant license/permits/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

F General / Housekeeping		Yes	Yes, but need Improvement	No	N/A or not observed	Photo/Remarks
F1	Are potential stagnant pools cleared and mosquito breeding prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

G Ecology		Yes	Yes, but need Improvement	No	N/A or not observed	Photo/Remarks
G1	Is damage and disturbance to the remaining and surrounding natural shrubby grassland and young woodland habitats avoided? (particularly those caused by filling and illegal dumping)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Note 2

- |    |   |                                     |                          |                          |                                     |       |
|----|---|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------|
| G2 | Is damage to surrounding areas avoided?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | _____ |
| G3 | Are temporary work sites/disturbed areas reinstated?                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | _____ |
| G4 | Is disturbance to streams avoided during works?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | _____ |
| G5 | Is any alternative method adopted for laying cable across stream between Sites 1 and 2? | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

**Items for Inspection**

- Site 1 construction site.
- Site 2 construction site.

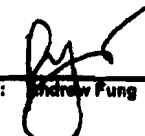
**Notes / Issues Recorded On Site**

- 1) An oil drum was observed storing without drip tray at Site 1.
- 2) Construction materials were observed storing outside the site boundary at Site 1.

**Corrective Actions**

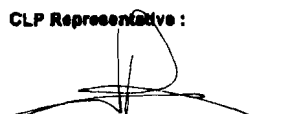
- 1) The Contractor was reminded to provide drip trap for the oil drum within 3 working days.
- 2) The Contractor was reminded to relocate those construction materials and to store within the site boundary.

**Signatures:**  
**IEC Representative :**




(Name: Andrew Fung )

**CLP Representative :**



(Name: Raymond Ho )

**Contractor :** 3Tech Corporate Ltd



(Name: Rebel Hui )



Annex B

## Photo Records

Photo Records on 11 May 2012



Photo 1 – An oil drum was observed without a drip tray at Site 1.



Photo 2 – Construction materials were observed storing outside the site boundary at Site 1.



Photo 3 – A bund has been provided for the haul road crossing the stream.