

CLP Power Hong Kong Ltd

Renewable Energy Supply on  
Town Island (Construction  
Phase): *20<sup>th</sup> Monthly  
Environmental Site Audit Report*

November 2012

**Environmental Resources Management**

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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 : 5<sup>th</sup> December 2012

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# **1 ENVIRONMENTAL SITE AUDIT**

## **1.1 BACKGROUND**

The construction works of *Renewable Energy Supply on Town Island* (the Project) 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 the 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 twentieth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 27<sup>th</sup> November 2012.

## **1.2 SITE AUDIT FINDINGS AND OBSERVATIONS**

The twentieth monthly environmental site audit was conducted on 27<sup>th</sup> November 2012. Major construction works at both Site 1 and Site 2 have been completed. One observation was made during the site audit and is described below:

- Chemical stain was found on the ground near the entrance of Site 1 (*Photo 1*). The Contractor removed the chemical stain and disposed of it as chemical waste immediately once notified (*Photo 2*).

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

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

## **1.3 COMPLETION OF THE CONSTRUCTION PHASE ENVIRONMENTAL SITE AUDIT**

As confirmed by the CLP, major construction works of this Project has been completed. Following the requirement set out in Condition 2.3 of the Environmental Permit (EP-397/2010), all temporary work sites and disturbed areas have been reinstated. The construction phase of the Project has been completed and no further environmental site audit is required. Hence, this is the last monthly environmental site audit report for the construction phase.

Annex A

# Environmental Site Audit Checklist



Inspection Date: 27-11-2012 Time: 10:00 to 12:00

Inspected By: IEC Representative : Fung Siu Chung Andrew  
 CLP Representative : T.Y. Lee  
 Contractor : Mic Kowk (3Tech Corporate Ltd.)

**Weather**

Condition  Sunny  Fine  Overcast  Drizzle  Rain  Storm  Hazy  
 Temperature 24 °C Humidity  High  Moderate  Low  
 Wind  Calm  Light  Breeze  Strong

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

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

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

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 Improvement No N/A or not observed Photo/Remarks

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 Improvement No N/A or not observed Photo/Remarks

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	With silt retention pond?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D6	Are there sedimentation tanks for settling runoff prior to disposal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D7	Is the capacity of sedimentation tank adequate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D8	Is the sedimentation free from silt and sediment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 treaching carried out for the section of cable in the vicinity of and crossing the stream between Sites 1 and 2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D11	Is cable trenching works scheduled to be carried out during dry season?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Note 1
E8	Trip tickets/ chits available for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E10	Is storage area bunded?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E11	Adequate bund capacity? (>110% of the largest tank)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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/permit/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- |    |                                                                                         |                                     |                          |                          |                                     |       |
|----|-----------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|-------|
| 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) Chemical stain was found on the ground near the entrance of Site 1.

**Corrective Actions**

- 1) The Contractor has removed the chemical stain immediately.

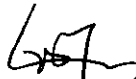
**Signatures:**

IEC Representative :

CLP Representative :

Contractor :

  
 (Name: Andrew Fung )

  
 (Name: T.Y. Lee )

  
 (Name: Mic Kwok )



Annex B

## Photo Records

**Photo Record on 27<sup>th</sup> November 2012**



***Photo 1*** –Chemical stain was found on the ground near the entrance of Site 1.



***Photo 2*** –Chemical stain had been removed following notification.