

CLP Power Hong Kong Ltd

Renewable Energy Supply on  
Town Island (Construction  
Phase): *10th Monthly  
Environmental Site Audit Report*

January 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 :	18 January 2012

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# 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 tenth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 11 January 2012.

## 1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The tenth monthly environmental site audit was conducted on 11 January 2011. Site formation works were conducted at Site 1 and site clearance works were undertaken at Site 2 during the reporting period. All the temporary worksites have been reinstated. Two observations were recorded during the site audit and are described below:

- It was observed that dust was generated at haul road when trucks leaving the site at the exit of Site 1 (see Photo 1). The Contractor was reminded to wash the wheels of the trucks before it leaving the site.
- General refuses, construction materials and grass stockpiles were observed outside the site boundary at Site 1 and Site 2 (see Photos 2 and 3). The Contractor was reminded to remove the general refuses and construction materials and dispose them properly. Also the Contractor was reminded to store the grass stockpile within the site boundary.

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

- Regularly wetting the exposed surface of the site has been done by the Contractor (see Photo 4).
- Soil which contaminated by spray paint has been separated from excavated soil and disposed of as chemical waste.

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: 11-01-2012 Time: 10:00 to 12:00

Inspected By: IEC Representative : Andrew Fung  
 CLP Representative : Raymond Ho  
 Contractor : Henry Lee (3Tech Corporate Ltd.)

**Weather**

Condition  Sunny  Fine  Overcast  Drizzle  Rain  Storm  Hazy  
 Temperature 17 °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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

B Air Quality	Yes	Yes, but need Improvement	No	N/A or not observed	Photo/Remarks
B1 Is open burning avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B2 Are exposed soil surfaces regularly watered to avoid generation of dust?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B3 Are plant and equipment well maintained? (ie without black smoke from powered plant)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B4 Are stockpiles of dusty material covered or regularly watered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B5 Is watering implemented during excavation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
B6 Is generation of dust avoided during loading/unloading/excavation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Note 1

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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C2 Are all plant and equipment well maintained and in good operating condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C3 Is idle equipment turned off or throttled down?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C4 Are powered mechanical equipment covered or shielded by acoustic materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C5 Are silenced equipment used where practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C6 Is the number of construction plant being used minimized?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C7 Do air compressors have valid noise labels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C8 Do compressors operate with doors closed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No waste water generated
D2 Is drainage system adequate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D3 Is drainage system well maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D4 Is debris and rubbish in the drainage system collected and disposed of properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

D5	Are there temporary ditches for runoff discharge into appropriate Watercourse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	} No waste water generated
	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 treaching 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 checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Note 2

- G2 Is damage to surrounding areas avoided?     \_\_\_\_\_
- G3 Are temporary work sites/disturbed areas reinstated?     \_\_\_\_\_
- G4 Is disturbance to streams avoided during cable laying?     \_\_\_\_\_
- G5 Is any alternative method adopted for laying cable across stream between Sites 1 and 2?     \_\_\_\_\_

**Items for inspection**

- Site 1
- Site 2

**Notes / Issues Recorded On Site**


- 1) It was observed that dust generated at haul road by truck during leaving the construction worksite at Site 1.
- 2) General refuses, construction materials and grass stockpiles were observed outside the site boundary at Site 1 and Site 2.

**Corrective Actions**

- 1) The Contractor was reminded to wash the tyre of the truck before it leaving the site.
- 2) The Contractor was reminded to remove the general refuses and construction materials. Also the Contractor was reminded to store the grass stockpiles inside the site boundary.

**Signatures:**


**REC Representative :**

  
 (Name: Andrew Fung)

**CLP Representative :**

  
 (Name: Raymond Ho) 17 Jan 2012

**Contractor :**

  
 (Name: Henry Lee) 17-1-2012



Annex B

## Photo Records

**Photo Records on 11 January 2012**



Photo 1 – Dust was generated at haul road when trucks leaving the site at the exit of Site 1.



Photo 2 – Grass stockpiles were storing outside the site boundary at Site 1.





Photo 3 – Construction material and general refuses were observed outside the site boundary at Site 1.



Photo 4 – Regularly wetting the exposed surface of the site has been done by the Contractor.