CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Construction Phase): *3rd Monthly Environmental Site Audit Report* 

June 2011

**Environmental Resources Management** 

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# Renewable Energy Supply on Town Island (Construction Phase): *3rd Monthly Environmental Site Audit Report*

June 2011

Reference 0129569

For and on	behalf of ERM-Hong Kong, Limited			
Approved by: Frank Wan				
Signed:	Wandh-they			
Position:	Partner			
Certified b	y : Roger Leung			
Signed :	1.4			
Position :	Independent Environmental Checker			
Date :	24 June 2011			

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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 third *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 14 June 2011.

## 1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The third monthly environmental site audit was conducted on 14 June 2011. The construction works have commenced. All mitigation measures have been implemented in full except for a few areas described below.

- The environmental permit could not be taken out from the plastic box folder as the documents inside the folder were too thick (See Photo 1 in Annex B). The Contractor was suggested to add one more plastic box folder for the environmental permit within one week.
- Stagnant water was also observed on the tarpaulin sheets covering the stockpiles at Site 1 (See Photo 2 in Annex B). The Contractor has been reminded to remove the stagnant water immediately.
- Erosion was observed at the worksite for underground pipe and cabling works and eroded soil was accumulated at low-lying area (See Photo 3 in Annex B). The Contractor was recommended to add sand bags to act as slit trap to prevent eroded soil being washed away to low-lying area within one week.

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

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

#### ENVIRONMENTAL RESOURCES MANAGEMENT

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Annex A

Environmental Site Audit Checklist

」 東部 E	RM		Renewable Energy S Construction Phase - E			С	LP	<b>()</b> 中電	
Ins	spection Date:	14-06-2011	· Time:	10:00	to		11:00		
	Inspected By:	IEC Representative : CLP Representative : Contractor :	Andrew Fung Raymond Ho K. Q. Cheung						
Con	perature	]SunnyFine 31°C ]CalmLight	Overcast Drizzle Humidity High Breeze Strong	Moder		orm [] w	Hazy		
A	General			Yes	Yes, but need Improvemen		N/A or ot observe	Photo/Remarks d	
A1	Is the Environm	mental Permit displayed at	the entrances / exits?	. 🗖	V			Note 1	-
B	Air Quality			Yes	Yes, but need Improvement		N/A or ot observe	Photo/Remarks d	
B1 B2 B3		oil surfaces regularly water equipment well maintained	ed to avoid generation of dus ? (le without black smoke	**			44		
B4 B5 B6	Are stockpiles Is watering imp	of dusty material covered of plemented during excavation of dust avoided during loadi	n?				44		E F F
C	Noise			Yes	Yes, but need Improvement		N/A or ot observe	Photo/Remarks d	
C1	Is the Construct (if any)	ction Noise Permit displaye	d at the entrances / exits?				7		
C2	Are all plant an condition?	nd equipment well maintain	ed and in good operating	. 🔽					
C3		ent lumed off or throttled do					V		-
C4	Are powered in acoustic mater	nechanical equipment cove rials?	ared or shielded by				V		
C5		quipment used where prac					V		
C6 C7		of contstruction plant being ssors have valid noise labe	A REAL PROPERTY FILES		H	H			-
C8	Electron and the time	ors operate with doors close	For Fort States		H				-
D	Water Qualit	ty		Yes	Yes,	No	N/A or	Photo/Remarks	-
					but need Improvement		ot observe	d	
D1	Is wastewater	discharge license, if any, a	vailable for inspection?	· □			Ċ	Note 3	
D2		stem adequate?					T		-
D3		stem well maintained?					T	-	-
D4	Is debris and r disposed of pr	ubbish in the drainage syst operly?	em collected and					A CONCERNENCE	

D6 D7 D8 D9 D10	Are there temporary ditches for runoff discharge into appropriate Watercourse? With silt retention pond? Are there sedimentation tanks for settling runoff prior to disposal? Is the capacity of sedimentation tank adequate? Is the sedimentation free from silt and sediment? Are the temporary stockpiles located away from stream or coastline? Are treaching carried out for the section of cable in the vicinity of and crossing the stream between Sites 1 and 2? Is cable trenching works scheduled to be carried out during dry season? Waste/Chemical Management	Yes				Photo/Remarks				
		res res, No N/A or Photo/Remarks but need not observed Improvement								
	General refuse			_	1					
E1	Accumulation avoided?					Carl State				
E2	Receptacles (e.g. rubbish bins) available?									
· E3	Disposed of regularly and properly?									
E4	Chemical waste, waste oil Is the Chemical Waste Producer Registration available for inspection?				7					
E5	Stored properly in designated area?									
E6	Labelled property?									
E7	Disposed of properly?				T	1 <u></u>				
E8	Trip tickets/ chits available for inspection?									
E9	Chemical/fuel storage area 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 canying out?				7					
E10	Is storage area bunded?					Mar analy and				
E11	Adequate bund capacity? (>110% of the largest tank)				V					
E12	Are storage areas provided with locks and located on sealed areas?				V					
E13		V								
	Is sorting conducted on site?			Ц						
E14 E15										
E13	as an alternative to ordering imported fill material? Excavated Material				V	and the second second				
E16					T	Carlos Charles				
E17	If suspected contaminated, appropriate procedures followed?				T					
E18	Relevant license/permit/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?				1					
F	General / Housekeeping	Yes	Yes, but need provemen		N/A or ot observe	Photo/Rennarks d				
F1	Are potential stagnant pools cleared and mosquito breeding prevented?		J			Note 2				
G	Ecology		Yes, Ibut need provemen		N/A or ot observe	Photo/Remarks				
G1	Is damage and disturbance to the remaining and surrounding natural shrubby grassland and yound woodland habitats avoided? (particularly those caused by filling and il/agal dumping)									
G2	(paracularly proce caused by mining and magar bumping) Is damage to surrounding areas avoided?	1				f <sup>2</sup> age 2 of 3				

G4 G5	Are temporary work sites/disturbed areas reinstated? Is disturbance to streams avoided during cable laying? Is any alternative method adopted for laying cable across stream between Sites 1 and 2?				
の	Items for Inspection		<u>ан</u>		
	<ul> <li>Site 1.</li> <li>Worksite for underground pipe and cabling works.</li> </ul>				

#### Notes / Issues Recorded On Site

- 1 Environmental permit could not be taken out from the plastic box folder as the documents inside the box folder were too thick.
- 2 Stagnant water was observed on the tarpaulin sheet at site 1.
- 3 Erosion was observed at the worksite for underground pipe and cabling works and eroded soil was accumiate at low-lying area.

#### **Corrective Actions**

- 1 The Contractor was suggested to add one more plastic box folder for the environmetnal permit within one week.
- 2 The Contractor was reminded to remove the stagnant water immediately.
- 3 The Contractor was suggested to add sand bags to act as slit trap to prevent eroded soil being washed away to low-lying area within one week.

Signatures: IEC Representative :

drew Fung Nam

**CLP Representative :** 

(Name: **Raymond Ho** 

Contractor :

(Name: K. Q. Cheung

Annex B

# Photo Records

## Photo Records on 11 May 2011



Photo 1 - The environmental permit and other documents were too thick and could not be taken out from the box folder.



Photo 2 - Stagnant water was observed on the tarpaulin sheet covering the stockpile located at Site 1.



Photo 3 – Erosion was observed at the worksite for underground pipe and cabling works and eroded soil was accumulated at low-lying area.

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