CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Construction Phase): 16th Monthly Environmental Site Audit Report

July 2012

Environmental Resources Management

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July 2012

Reference 0129569

For and on behalf of ERM-Hong Kong, Limited		
Approved b	oy: Frank Wan	
Signed:	Narch M.	
Position:	Partner	
Certified by	v: Winnie Ko	
Signed :	m	
Position :	Independent Environmental Checker	
Date :	13 July 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 sixteenth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 10 July 2012.

1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The sixteenth monthly environmental site audit was conducted on 10 July 2012. The construction works undertaken during the site audit included superstructure works and installation of photovoltaic panel at Site 1 and foundation and superstructure works at Site 2. All the temporary worksites have been reinstated. Two observations have been recorded during the site audit and are described below:

- Dusty stockpile was observed not being properly covered at Site 1 (*Photo 1*). The Contractor was reminded to cover the dusty stockpile properly.
- Cement stain was observed outside the site boundary at Site 2 (*Photo 2*). The Contractor was reminded to remove the cement.

The remedial action for the environmental deficiency which was recorded during the previous reporting period has been taken and rectified during the site inspection:

• The construction materials observed storing outside the site boundary during the last site inspection has been kept within the site boundary.

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

Photos of the site audit are given in Annex B.

ENVIRONMENTAL RESOURCES MANAGEMENT

CLP

Annex A

Environmental Site Audit Checklist

E	Renewable Energy Supply on Town Island Construction Phase - Environmental Site Audit					
In	spection Date: 15-06-2012 Time:	10:00 to 12:00				
	Inspected By: IEC Representative : Fung Siu Chung Andrew CLP Representative : Raymond Ho / Lee Tin Yau Contractor : Rebel Hul (3Tech Corporate					
We	ather					
		Moderate Low				
A	General	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement				
A1	Is the Environmental Permit displayed at the entrances / exits?					
В	Air Quality	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement				
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?	Note 1				
В5	Is watering implemented during excavation?					
B6	Is generation of dust avoided during loading/unloading/excavation?					
С	Noise	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement				
C1	Is the Construction Nolse 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 contstruction plant being used minimized?					
C7	Do air compressors have valid noise labels?					
C8	Do compressors operate with doors closed?					
D	Water Quality	Yes Yes, No N/A or Photo/Remarks but need not observed Improvement				
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?		
D6	With silt retention pond?		
	Are there sedimentation tanks for settling runoff prior to disposal?		
D7 	Is the capacity of sedimentation tank adequate?		
	Is the sedimentation free from silt and sediment?		
D9	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?		
D11	Is cable trenching works scheduled to be carried out during dry season?		
E	Waste/Chemical Management	Yes	Yes, No N/A or Photo/Remarks
			but need not observed Improvement
-	General refuse		
E1	Accumulation avoided?	1	
E2	Receptacles (e.g. rubbish bins) available?		
E3	Disposed of regularly and properly?	V	
E4	Chemical waste, waste oil Is the Chemical Waste Producer Registration available for inspection?	V	
E5	Stored properly in designated area?		
E6	Labelled properly?		
E7	Disposed of properly?	V	
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 alter these any importantials saturity is to see		
	fuels stored on site, those equipment which potentially have oil leakage and for the area where maintenance works carrying out?		
E10	Is storage area bunded?	\checkmark	
E11	Adequate bund capacity? (>110% of the largest tank)	V	
E12	Are storage areas provided with locks and located on sealed areas?		
E13	Construction Waste Reused where practicable?		
	Is sorting conducted on site?		
E14	Transported offsite by boat for proper disposal?	1	
E15	Are surplus lnert materials being reused where practical as an alternative to ordering imported fill material?	\checkmark	
	Excavated Material		
E16	Appears uncontaminated? (colour, odour)		
E17	If suspected contaminated, appropriate procedures followed?		
E18	Relevant license/permit/trip tickets/chits for disposal of construction waste or excavated materials available for inspection?		
F	General / Housekeeping	Yes	Yes, No N/A or Photo/Remarks
			but need not observed
			Improvement
	Are potential stagnant pools cleared and mosquito breeding prevented?	1	
	prevented?		
G	Ecology	Yes	Yes, No N/A or Photo/Remarks but need not observed
			Improvement
	Is damage and disturbance to the remaining and surrounding natural		√ Note 2
	shrubby grassland and yound woodland habitats avoided? (particularly those caused by filling and illegal dumping)		

G2	Is damage to surrounding areas avoided?
G3	Are temporary work sites/disturbed areas reinstated?
G4	Is disturbance to streams avoided during works?
G5	Is any alternative method adopted for laying cable across stream between Sites 1 and 2?
	Items for Inspection
	- Site 1 construction site.
	- Site 2 construction site.
	Notes / Issues Recorded On Site
	 Dusty stockpile was observed not being properly covered at Site 1.
	2) Cement stain was observed outside the site boundary at Site 2.
	Ly content of an was observed outside the site boundary at Gite 2.

Corrective Actions

1) The Contractor was reminded to cover the dusty stockpile properly.

2) The Contractor was reminded to remove the cement stain.

Signatures: IEC Representative :

(Name: drew Fung)

CLP Representative :

(Name: T.Y. Lee

Contractor: 3 Tech (or porcate Ltd

(Name: Rebel Hui

Annex B

Photo Records

Photo Records on 10 July 2012



Photo 1 – Dusty stockpile was observed not being properly covered at Site 1.



Photo 2 – Cement stain was observed outside the site boundary at Site 2.