REPORT

CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Construction Phase): 9th Monthly Environmental Site Audit Report

December 2011

Environmental Resources Management

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December 2011

Reference 0129569

For and on behalf of ERM-Hong Kong, Limited			
Approved	by: Frank Wan		
Signed:	Hardist T.		
Position:	Partner		
Certified b	y: Winnie Ko		
Signed :	Marie		
Position:	Independent Environmental Checker		
Date :	19 December 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 ninth *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 14 December 2011.

1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The ninth monthly environmental site audit was conducted on 14 December 2011. Site clearance works were conducted at Site 1 and land surveying works were undertaken at Site 2 during the reporting period. All the temporary worksites have been reinstated. Four observations were recorded during the site audit and are described below:

- Environmental permit was not displayed at Site 1. The Contractor was reminded to display the Environmental Permit at the work sites. The Environmental Permit has been displayed at Site 1 on 16 December 2011 (Photo6) as reported by the Contractor.
- Exposed soil surface was observed dusty at Site 1 after site clearance works (Photo 1). The Contractor was reminded to regularly wet the exposed surface of the site to avoid generation of dust.
- The excavated material was observed not being covered at Site 1 (Photo 2).
 The Contractor was reminded to properly cover the excavated material by impervious sheet. The excavated material has been covered by impervious sheet on 16 December 2011 (Photo 7) as reported by the Contractor.
- Soil which contaminated by spray paint was observed mixed with excavated soil at Site 1 (Photo 3). The Contractor was reminded to separate the contaminated soil from excavated soil and dispose of it as chemical waste.

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:

- Plastic warning tapes tied on trees at the temporary worksite for underground pipe and cabling works has been removed (Photo 4).
- The paint marking on soil and grassland at the temporary worksite for underground pipe and cabling works has been removed and the work sites has been reinstated (Photo 5).

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



- Property	spection Date:	12-14-2011	Time:	10:00	to		11:00	
	Inspected By:	IEC Representative : CLP Representative : Contractor :	Andrew Fung Raymond Ho Rebel Hul (3Tech Corporate	Ltd.)				
We	ather							
		Sunny √ Fine 20 °C Calm √ Light	Overcast Drizzle Humidity High Breeze Strong	Mode	Sto	_	Hazy	
A	General			Yes	Yes, but need Improvemen		N/A or not observed	Photo/Remarks
A1	Is the Environ	mental Permit displayed at	the entrances / exits?			V		Note 1
В	Air Quality			Yes	Yes, but need Improvemen		N/A or not observed	Photo/Remarks
B1	Is open burnin	g avoided?		1				
B2	Are exposed s	oil surfaces regularly water	red to avoid generation of dust?		V			Note 2
83	Are plant and from powered	equipment well maintained plant)	? (ie without black smoke				1	
84	Are stockpiles	of dusty material covered	or regularly watered?			1		Note 3
B 5	Is watering im	plemented during excavation	on?				1	
B6	Is generation	of dust avoided during load	ling/unloading/excavation?				1	
С	Noise			Yes	Yes, but need Improvemen		N/A or not observed	Photo/Remarks
C1	Is the Constru (if any)	ction Noise Permit displaye	ed at the entrances / exits?				V	
C2	Are all plant a condition?	nd equipment well maintair	ned and in good operating				4	
СЗ	Is idle equipm	ent turned off or throttled d	own?				7	
C4	Are powered racoustic mate	mechanical equipment covi rials?	ered or shielded by				V	
C5	Are silenced e	equipment used where prac	cticable?				4	
C6		of contstruction plant bein					4	
C7		ssors have valid noise lab					T.	
C8	Do compresso	ors operate with doors clos	ed?	. Ц		Ш	4	+
D	Water Quali	ty		Yes	Yes, but need Improvemen	No	N/A or not observed	Photo/Remarks
D1	Is wastewater	discharge license, if any,	available for inspection?				M	
D2	Is drainage sy	stem adequate?					V	4
D3	Is drainage sy	stem well maintained?					T	
D4	Is debris and a	rubbish in the drainage sys	tem collected and				V	

D6 D7 D8 D9	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 stockplies 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?				44444	
D11	is cable trenching works scheduled to be carried out during dry season?				4	
E	Waste/Chemical Management	Yes	Yes, but need Improvemen		N/A or ot observed	Photo/Remarks
E1	General refuse Accumulation avoided?					
E2	Receptacles (e.g. rubbish bins) available?		H	H	H	
E3	Disposed of regularly and properly?	T	H	H	H	
E4	Chemical waste, waste oil Is the Chemical Waste Producer Registration available for Inspection?				<u></u>	
E5	Stored properly in designated area?				T	
E6	Labelled properly?				7	
E7	Disposed of properly?				1	
E8	Trip tickets/ chits available for inspection?				1	
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 carrying out?				1	
E10	Is storage area bunded?				T	
E11	Adequate bund capacity? (>110% of the largest tank)		一	Ħ	T	
E12	Are storage areas provided with locks and located on sealed areas?				1	
E13	Construction Waste Reused where practicable?	V				,
E14	Is sorting conducted on site?		1			Note 4
E15	Transported offsite by boat for proper disposal?		Ш		\ <u>\</u>	
EIS	Are surplus inert materials being reused where practical as an alternative to ordering imported fill material? Excavated Material				1	
E16	Appears uncontaminated? (colour, odour)				TT.	
E17	If suspected contaminated, appropriate procedures followed?				V	
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 Improvemen		N/A or not observed	Photo/Remarks
F1	Are potential stagnant pools cleared and mosquito breeding prevented?	T				
G	Ecology	Yes	Yes,	No	N/A or	Photo/Remarks
			but need Improvemen	- 1	not observed	
G1	is damage and disturbance to the remaining and surrounding natural shrubby grassland and yound woodland habitats avoided?	4				

Is damage to surrounding areas avoided? 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?
Items for Inspection - Site 1 (Site clearance works.) - Temporary worksite for underground pipe and cabling works (No construction work, worksite has been reinstated.) - Site 2 (No construction work. Land surveying been been conducted)
1) Environmental permit was not displayed at the construction site at Site 1. 2) Exposed soil surface was observed dusty at Site 1 after site clearance works. 3) The excavated material was observed not being covered at Site 1. 4) Soil which contaminated by paint was observed mixed with excavated soil at Site 1.
Corrective Actions 1) The Contractor was reminded to display the Environmental Permit at the work sites before 16 December 2011. 2) The Contractor was reminded to regularly wet the exposed surface of the site to avoid generation of dust. 3) The Contractor was reminded to properly cover the excavated material before 16 December 2011. 4) The Contractor was reminded to separate the contaminated soil from excavated soil and dispose of it properly.
Signatures: IEC Representative: (Name: Raymond Ho) (Name: Howy Let)

Annex B

Photo Records

Photo Records on 14 December 2011



Photo 1 – Exposed soil surface was observed dusty at Site 1 after site clearance works.



Photo 2 – The excavated material was observed not being covered at Site 1.



Photo 3 – Soil which contaminated by spray paint was observed mixed with excavated soil at Site 1.



Photo 4 – Plastic warning tapes tied on trees at the temporary worksite for underground pipe and cabling works has been removed.



Photo 5 – The paint marking on soil and grassland at the temporary worksite for underground pipe and cabling works has been removed and the work sites has been reinstated.

Photo Records recorded by the Contractor on 16 December 2011

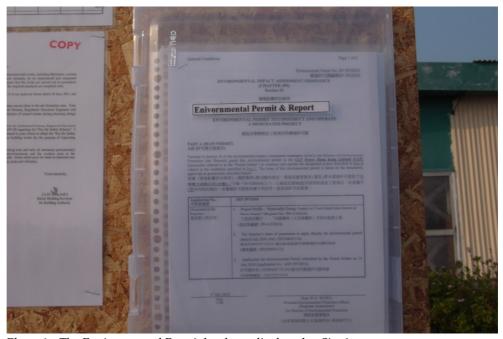


Photo 6 – The Environmental Permit has been displayed at Site 1.



Photo 7 – The excavated material has been covered by impervious sheet.