

CLP Power Hong Kong Ltd

TETRA Radio Base Station at
Kai Kung Leng (Construction
Phase): *4th Monthly*
Environmental Site Audit Report

January 2012

Environmental Resources Management

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Reference 0132494

For and on behalf of ERM-Hong Kong, Limited

Approved by: Frank Wan

Signed:

Position:

Frank Wan
Partner

Certified by : Winnie Ko

Signed :

Position : Independent Environmental Checker

Date : 10 January 2012

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Annex A Environmental Site Audit Checklist

1 ENVIRONMENTAL SITE AUDIT

1.1 BACKGROUND

The construction works of *TETRA Radio Base Station at Kai Kung Leng* (the Project) has commenced on 31 August 2011.


To fulfill Conditions 2.4 and 2.5 of the Environmental Permit (EP-406/2010), monthly environmental site audit should be undertaken to ensure that the mitigation measures recommended in Project Profile (PP) submitted for direct application of an Environmental Permit under EIA Ordinance (EIAO) (PP-423/2010) are properly implemented. A monthly audit report, certified by the independent checker, should be submitted to the Director of EP.

This is the 4th *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 29 December 2011. The reporting period covers 1 to 31 December 2011.

1.2 SITE AUDIT FINDINGS AND OBSERVATIONS

The findings of the environmental site inspection are summarised in *Table 1.1* below:

Table 1.1 Summary of Site Observations

Observations/Findings	Recommendations	Photo
Scattered general refuse was observed at the reinstated area.	The Contractor was recommended to remove the scattered general refuse.	

Remedial action for the abovementioned environmental deficiency has been taken and verified immediately during the site inspection. Scattered general refuse has been removed after the site audit.

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

Annex A

Environmental Site Audit Checklist



Inspection Date: 29 Dec 2011 Time: 10:40 to 10:50

Inspected By: IEC Representative : Kitty Lin
 CLP Representative : Keith Cheung
 Contractor : Kelvin Lam

Weather

Condition Sunny Fine Overcast Drizzle Rain Storm Hazy
 Temperature 20 °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
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A1 Is the Environmental Permit displayed at the entrances / exits? Work Completed

B Air Quality

	Yes	Yes, but need Improvement	No	N/A or not observed	Photo/Remarks
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B1 Is open burning avoided? Work Completed
 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
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C1 Is the Construction Noise Permit displayed at the entrances / exits (if any)? Work Completed
 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
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D1 Is wastewater discharge license, if any, available for inspection? Work Completed
 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	} _____ _____
	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 water course?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D10	Are proper mitigation measures (eg. sand bag, earth bund, trench) prevent silty surface runoff leaving the site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D11	Toilet that connects to foul sewer or chemical toilets provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Work Completed

E Waste/Chemical Management

	Yes	Yes, but need Improvement	No	N/A or not observed	Photo/Remarks	
General refuse						
E1	Accumulation avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
E2	Receptacles (e.g. rubbish bins) available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
E3	Disposed of regularly and properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Chemical waste, waste oil						
E4	Is the Chemical Waste Producer Registration available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
E5	Stored properly in designated area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Work Completed
E6	Labelled properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	& Waste Cleared
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"/>	_____
Chemical/fuel storage area						
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"/>	No Chemical / Fuel stored
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"/>	_____
Construction Waste						
E13	Reused where practicable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
	Is sorting conducted on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Work Completed & Waste Cleared
E14	Transported offsite for proper disposal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	_____
Excavated Material						
E16	Appears uncontaminated? (colour, odour)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
E17	If suspected contaminated, appropriate procedures followed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Work Completed
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 proper housekeeping measures being maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
F2	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Note 1
G4	Is the work site confined within site boundaries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G5	Temporary buildings located in least visually prominent locations, painted in muted / recessive colours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

H Culture Heritage		Yes	Yes, but need improvement	No	N/A or not observed	Photo/Remarks
H1	Is access maintained to the grave during construction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	} Work Completed } Grave in gd condition
H2	Is work avoided on the day of Chung Yuen Festival?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
H3	Is physical disturbance of the grave avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Notes / Issues Recorded On Site

~~N/A~~
 1. Minor problem of scattered inert waste in the surrounding.

Corrective Actions

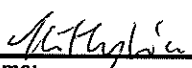
~~N/A~~
 2. Waste is cleared immediately.

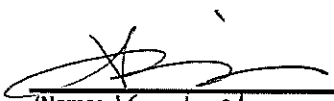
Signatures:

IEC Representative :

CLP Representative :

Contractor :


 (Name: Kelly Liu)


 (Name: Keith Cheung)


 (Name: Kelvin Lam)