

CLP Power Hong Kong Ltd

TETRA Radio Base Station at
Kai Kung Leng (Construction
Phase): *3rd Monthly*
Environmental Site Audit Report

December 2011

Environmental Resources Management

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Reference 0132494

For and on behalf of ERM-Hong Kong, Limited

Approved by: Frank Wan

Signed:

Position:

Wanching
Partner

Certified by : Winnie Ko

Signed :

Position : Independent Environmental Checker

Date : 8 December 2011

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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 3rd *Monthly Environmental Site Audit Report* presenting the key findings and observations of the site audit conducted on 23 November 2011. The reporting period covers 1 to 30 November 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*

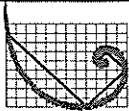
Observations/Findings	Recommendations	Photo
Chemical storage cabinet was not labelled properly.	The Contractor was recommended to provide proper labelling to the chemical storage cabinet.	

Remedial action for the abovementioned environmental deficiency has been taken and verified immediately during the site inspection. Proper labelling was provided to the chemical storage cabinet after the site audit.

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

Annex A

Environmental Site Audit Checklist



ERM

Inspection Date: 23/11/2011 Time: 9:30 to 11:30

Inspected By: IEC Representative : Celine Lee
CLP Representative : Keith Cheung
Contractor : Kelvin Lam

Weather

Condition Sunny Fine Overcast Drizzle Rain Storm Hazy
Temperature 21 °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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	

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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C6 Is the number of construction plant being used minimized?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 drainage system
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

	disposed of properly?				<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"/>	} not near Water course
	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"/>	} no wastewater generated
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"/>	} no toilet on site

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E6	Labelled properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	note ↓
E7	Disposed of properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 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"/>	
Construction Waste						
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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Excavated Material						
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 proper housekeeping measures being maintained?	<input checked="" type="checkbox"/>	<input checked="" 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
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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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
G4	Is the work site confined within site boundaries?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
H2	Is work avoided on the day of Chung Yuen Festival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
H3	Is physical disturbance of the grave avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Notes / Issues Recorded On Site

1. Chemical Storage ~~Area~~^{Cabinet} was not labelled.

Corrective Actions

1. The Contractor was reminded to provide proper labelling to the Chemical Storage Cabinet.

Signatures:

IEC Representative :



(Name: Celine Lee)

CLP Representative :



(Name: Keith Cheung)

Contractor :



(Name: Kelvin Lam)