

# Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: RE Site No.: 0101  
 Date of visit: 12-8-2005 Hour of Visit: 1125  
 Staff name: W. L. NAK HVAS S/N: 2198  
 Used filter paper no.: LS51 New filter paper no.: LS53  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{273 + 31.4}{304.4}$  K Pressure,  $P_a = 1003$  mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft <sup>3</sup> /min. (inch H <sub>2</sub> O)
1534(09/2004)	$\Delta H_a = 18.33(T_a/P_a) = 5.56''$

Manometer reading before calibration: 5.3  
 Adjustment of flow controller (Y/N): Y  
 Manometer reading after calibration: 5.6

Note: Tolerance Limit of HVAS flow:  $\pm 1.0$  ft<sup>3</sup>/min. Corresponding limits for manometer :  $\pm 0.2$  inch H<sub>2</sub>O

III. General Conditions of HVAS

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IV. Remarks

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HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: E.G7 Site No.: AM2  
 Date of visit: 12-8-05 Hour of Visit: 14:00  
 Staff name: W.L. MAK, H.K. TANG HVAS S/N: 2195  
 Used filter paper no.: L552 New filter paper no.: L554  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{36.5 + 273}{309.5}$  K Pressure,  $P_a = 1005$  mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$ . (inch $\text{H}_2\text{O}$ )
1534(09/2004)	$\Delta H_a = 18.33(T_a/P_a) = 5.6$

Manometer reading before calibration: 5.3  
 Adjustment of flow controller (Y/N): Y  
 Manometer reading after calibration: 5.6

Note: Tolerance Limit of HVAS flow:  $\pm 1.0 \text{ ft}^3/\text{min}$ . Corresponding limits for manometer:  $\pm 0.2$  inch  $\text{H}_2\text{O}$

III. General Conditions of HVAS

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IV. Remarks

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PARTISOL TSP SAMPLER  
SITE VISIT LOG SHEET

Site Name: Ash Lagoon Site Number: AM3  
Date of Visit: 12-8-05 Hour of Visit: 11:40  
Staff Name: H.K. TSANG Partisol S/N: 2000 B 20755 C410  
Used Filter No.: PC71 New Filter No.: PC72  
Ambient temperature: 32.9°C Ambient pressure: 1004 mbar

I. General Services

1. Replace control unit Large In-line Filter X
2. Clean the sample inlet head ✓
3. Clean sample tube X
4. Clean / Replace pump head X
5. Clean / Replace piston X

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check (Ambient temperature  $\pm 2^{\circ}\text{C}$ )

\_\_\_\_\_  $^{\circ}\text{C}$  Calibration: Y/N \_\_\_\_\_  $^{\circ}\text{C}$   
Before After

2. Pressure Check (Ambient pressure  $\pm 20$  mbar)(factor = 0.000987)

\_\_\_\_\_ mbar Calibration: Y/N \_\_\_\_\_ mbar  
Before After

3. Flow Check (16.7 $\pm$  1.1 litre/min)

\_\_\_\_\_ l/min Calibration: Y/N \_\_\_\_\_ l/min  
Before After

III. Remarks

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MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4

Date of visit: 12-8-05 Hour of Visit: 10:50

Staff name: H.K.TSANG MINIVOL S/N: 3393

Used filter paper no.: MH 57 New filter paper no.: MH 58

Type of filter: ~~Cellulose~~ / Glass-fibre  
(Delete as appropriate)

I. Calibration is performed by using Drycal DC-2 Flow Calibrator  
5 Sl/min set point is recommended

5.0 Before 5.0 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / ~~replace~~ Pump Valves: ✓
3. Clean / ~~replace~~ Pump Diaphragms: ✓
4. Clean Impaction Inlet: ✓
5. Replace Timer Battery Every 6 months: X
6. Replace Inlet Filter: ✓

III. Remarks

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**THE HONGKONG ELECTRIC CO., LTD.**  
**LAMMA POWER STATION EXTENSION**  
**TEOM 1400A CONTINUOUS DUST MONITOR**  
**DATA QUALITY ASSURANCE LOG SHEET**

Month : August Year : 2005

Reservoir (AM1)					
Date	Frequency (Hz) (230 - 260)	Noise (<0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 - 1.06)	Aux. Flow (l/min) (14.67 - 16.67)
5/8/2005	255.42	0.032	4	1.00	15.68
11/8/2005	255.31	0.031	4	1.00	15.68
17/8/2005	255.21	0.036	4	1.00	15.68
23/8/2005	255.07	0.029	4	1.00	15.68
29/8/2005	254.88	0.035	4	1.00	15.68

East Gate (AM2)					
Date	Frequency (Hz) (230 - 250)	Noise (<0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 - 1.06)	Aux. Flow (l/min) (14.67 - 16.67)
5/8/2005	245.39	0.033	4	0.99	15.63
11/8/2005	245.22	0.039	4	0.99	15.63
17/8/2005	245.06	0.028	4	0.99	15.64
23/8/2005	244.96	0.043	4	1.00	15.62
29/8/2005	246.31	0.033	4	0.99	15.63

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 - 270)	Noise (<0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 - 1.06)	Aux. Flow (l/min) (14.67 - 16.67)
5/8/2005	248.63	0.045	4	1.01	15.66
11/8/2005	248.46	0.046	4	1.00	15.67
17/8/2005	249.34	0.054	4	1.00	15.67
23/8/2005	249.24	0.045	4	1.00	15.67
29/8/2005	249.09	0.037	4	1.00	15.67

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter			
Pump Repair			
Leak Check			
Flow Audit		✓	
Flow Controller Calibration			
A/C filter cleaning	✓	✓	✓

Remarks:

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Prepared by :           *Abx.*          

Checked by :           *[Signature]*

THE HONGKONG ELECTRIC CO., LTD.  
LAMMA POWER STATION EXTENSION  
NOISE MONITORING STATION  
SITE VISIT LOG SHEET

Location Ash Lagoon/Ching Lam\*

Date 10-8-05 Time 11:30

Equipment Rion NA-27/~~B&K 2238F\*~~ Sound Level Meter

Serial Number ~~00111465/00111466/00111467/2343838/2356907\*~~

Staff Attended H. K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 94.0

Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

a. ~~Sunny/fine/cloudy/showery/heavy rain\*~~

b. ~~Strong wind/breeze/calm\*~~

3. Remark/Observation

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Note: \* - Please delete where inappropriate

THE HONGKONG ELECTRIC CO., LTD.  
LAMMA POWER STATION EXTENSION  
NOISE MONITORING STATION  
SITE VISIT LOG SHEET

Location Ash Lagoon/Ching Lam\*  
Date 15-8-05 Time 16:00  
Equipment Rion NA-27/B&K 2238F\* Sound Level Meter  
Serial Number ~~00111465/00111466/00111467/2343838/2356907\*~~  
Staff Attended H.K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74  
Calibration level before adjustment (dB(A)) 94.0  
Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

- a. ~~Sunny/fine/cloudy/showery/heavy rain\*~~  
b. ~~Strong wind/breeze/calm\*~~

3. Remark/Observation

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Note: \* - Please delete where inappropriate



## Equipment Calibration Record for August 2005

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used:           RION NL – 31(\*) / ACO TYPE 6224(#)

Calibrator Used:           ACO TYPE 2126

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
02/08/2005(#)	94.0	94.0	Anthony Wong
05/08/2005(#)	94.0	94.0	Anthony Wong
09/08/2005(#)	94.0	94.0	Anthony Wong
12/08/2005(#)	94.0	94.0	Anthony Wong
16/08/2005(#)	94.0	94.0	Anthony Wong
19/08/2005(#)	94.0	94.0	Anthony Wong
23/08/2005(*)	94.0	94.0	Anthony Wong
26/08/2005(*)	94.0	94.0	Anthony Wong
30/08/2005(*)	94.0	94.0	Anthony Wong

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
02/08/2005(#)	94.0	94.0	Anthony Wong
05/08/2005(#)	94.0	94.0	Anthony Wong
09/08/2005(#)	94.0	94.0	Anthony Wong
12/08/2005(#)	94.0	94.0	Anthony Wong
16/08/2005(#)	94.0	94.0	Anthony Wong
19/08/2005(#)	94.0	94.0	Anthony Wong
23/08/2005(*)	94.0	94.0	Anthony Wong
26/08/2005(*)	94.0	94.0	Anthony Wong
30/08/2005(*)	94.0	94.0	Anthony Wong

Note: Measurement accepted as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.