

# Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: R.C. Site No.: AM1  
 Date of visit: 14-4-2003 Hour of Visit: 11:05  
 Staff name: ALEX; H.K. TSANG HVAS S/N: 2128  
 Used filter paper no.: 2157 New filter paper no.: 2128  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{25.8 + 273}{273}$  K Pressure,  $P_a = 1008$  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(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.3$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

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

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

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: EG Site No.: A12  
 Date of visit: 14-4-2003 Hour of Visit: 11:30  
 Staff name: ALEX: H.K. Tsang HVAS S/N: 2125  
 Used filter paper no.: LP58 New filter paper no.: LP60  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{26.1 + 273}{273.15}$  K Pressure,  $P_a = 1012$  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(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.3$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

Manometer reading before calibration: 5.3

Adjustment of flow controller (Y/N): N

Manometer reading after calibration: 5.3

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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PARTISOL TSP SAMPLER  
SITE VISIT LOG SHEET

Site Name: Ash Kagan Site Number: Am 3  
Date of Visit: 14.4.2003 Hour of Visit: 10:20  
Staff Name: ALEX, H.K. ISHAK Partisol S/N: 2000B 2055001  
Used Filter No.: PB 28 New Filter No.: PB 29  
Ambient temperature: 26 Ambient pressure: 1009

I. General Services

1. Replace control unit Large In-line Filter X
2. Clean the sample inlet head ✓
3. Clean sample tube ✓
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  $\pm 2^{\circ}\text{C}$ )

26 °C Before Calibration: Y/N 26 °C After

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

1000 mbar Before Calibration: Y/N 1007 mbar After

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

16.6 l/min Before Calibration: Y/N 16.6 l/min After

III. Remarks

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MINI VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: TYU Site No.: AM4  
Date of visit: 14-6-2003 Hour of Visit: 14:00  
Staff name: H.K. BONG MINIVOL S/N: 803  
Used filter paper no.: MF 77 New filter paper no.: MF 79  
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

5000 Before 5000 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: x
2. Clean / replace Pump Valves: x
3. Clean / replace Pump Diaphragms: x
4. Clean Impaction Inlet: x
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 : APRIL

Year : 2003

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)
6-4-03	254.66	0.053	4	1.00	15.65
12-4-03	254.45	0.037	4	1.00	15.65
18-4-03	254.25	0.048	4	1.00	15.67
24-4-03	254.04	0.026	4	1.00	15.65
30-4-03	253.72	0.049	4	1.00	15.65

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)
6-4-03	245.95	0.025	4	1.00	15.65
12-4-03	243.75	0.032	4	0.99	15.63
18-4-03	245.37	0.048	4	1.00	15.65
24-4-03	247.57	0.028	4	1.00	15.64
30-4-03	247.34	0.039	4	1.00	15.66

Ash Lagoon (AM3)					
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)
6-4-03	247.44	0.006	4	1.00	15.63
12-4-03	247.25	0.033	4	1.00	15.64
18-4-03	247.07	0.042	4	0.99	15.64
24-4-03	246.85	0.039	4	0.99	15.64
30-4-03	246.59	0.021	4	0.99	15.64

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 : 

Checked by : 

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

Location Ash Lagoon/Ching Lam\*

Date 11-4-2003 Time 11:20

Equipment B&K 2238F  
Rion NA-27 Sound Level Meter

Serial Number 00111465/00111466/00111467\* 2343838

Staff Attended W. LAMK ; H.K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 93.8

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 14-4-2003 Time 10:40

Equipment Rion NA-27 Sound Level Meter

Serial Number 00111465/00111466/00111467\*

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