

# Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM1  
 Date of visit: 16/12/2002 Hour of Visit: 1400  
 Staff name: W L Mok HVAS S/N: 2198  
 Used filter paper no.: LP16 New filter paper no.: LP18  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{273 + 26.8}{279.8}$  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)	$\Delta H_a = 18.0(T_a/P_a) = 5.33$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

Manometer reading before calibration: 5.40  
 Adjustment of flow controller (Y/N): N  
 Manometer reading after calibration: 5.4

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: EG Site No.: AM2  
 Date of visit: 16/12/2002 Hour of Visit: 14:35  
 Staff name: W. L. Mak HVAS S/N: 2195  
 Used filter paper no.: LP17 New filter paper no.: LP19  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{273 + 27.3}{300.3}$  K Pressure,  $P_a = \underline{1013}$  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 $\text{H}_2\text{O}$ )
<input checked="" type="checkbox"/> 1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = \underline{5.33}$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$

Manometer reading before calibration: 5.60  
 Adjustment of flow controller (Y/N): Y  
 Manometer reading after calibration: 5.45

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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MINI VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: TYV Site No.: Am4  
Date of visit: 16/12/2002 Hour of Visit: 11:05  
Staff name: W. L-MAK MINIVOL S/N: 903  
Used filter paper no.: MF 73 New filter paper no.: MF 74  
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

4819 Before 5008 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: ✗
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 : DEC Year : 2002

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)
1-12-02	254.02	0.033	4	1.00	15.67
7-12-02	255.49	0.023	4	1.00	15.65
13-12-02	255.12	0.027	4	1.00	15.67
19-12-02	254.85	0.076	4	1.00	15.65
25-12-02	254.62	0.024	4	1.00	15.67
31-12-02	254.14	0.020	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)
1-12-02	245.50	0.051	4	1.00	15.64
7-12-02	245.40	0.042	4	1.00	15.64
13-12-02	245.14	0.030	4	1.00	15.63
19-12-02	244.77	0.043	4	1.00	15.63
25-12-02	243.05	0.042	4	0.99	15.64
31-12-02	244.61	0.050	4	0.99	15.64

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)
1-12-02	245.93	0.041	4	0.99	15.64
7-12-02	245.76	0.036	4	1.00	15.64
13-12-02	245.58	0.041	4	1.00	15.64
19-12-02	246.59	0.031	4	0.99	15.63
25-12-02	246.40	0.031	4	0.99	15.64
31-12-02	246.02	0.027	4	1.00	15.63

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 : Alex

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 16/12/2002 Time 10:15

Equipment Rion NA-27 Sound Level Meter

Serial Number 00111465/00111466/00111467\*

Staff Attended W. L. MAK

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

