

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: Am 1
 Date of visit: 22-9-2003 Hour of Visit: 10.50
 Staff name: W. L. MAK HVAS S/N: 2198
 Used filter paper no.: LQ12 New filter paper no.: LQ14
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 27 + 27.0$ K Pressure, $P_a = 1008$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft ³ /min. (inch H ₂ O)
✓ 1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.36$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

Manometer reading before calibration: 5.50
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.40

Note: Tolerance Limit of HVAS flow: ± 1.0 ft³/min. Corresponding limits for manometer : ± 0.2 inch H₂O

III. General Conditions of HVAS

IV. Remarks

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: E.G Site No.: Am 2
 Date of visit: 17-8-2003 Hour of Visit: 10:00
 Staff name: W.L. MARIK/HC T₅HWG HVAS S/N: 2195
 Used filter paper no.: LQ 13 New filter paper no.: LQ 15
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{26.4 + 273}{273.15} K$ Pressure, $P_a = \underline{1012}$ 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 H ₂ O)
✓ 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: 5.5
 Adjustment of flow controller (Y/N): Y
 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

IV. Remarks

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: ASH LAGOON Site Number: AM 3
Date of Visit: 22-9-2003 Hour of Visit: 11 20
Staff Name: W. L. MAK Partisol S/N: 2000 B 203501
Used Filter No.: PB55 New Filter No.: PB56
Ambient temperature: 27.0 Ambient pressure: 1011

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 $\pm 2^{\circ}\text{C}$)

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

2. Pressure Check (Ambient pressure ± 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

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TYV Site No.: Am 4
Date of visit: 16-9-2003 Hour of Visit: 11:00
Staff name: W L. MAK MINIVOL S/N: 903
Used filter paper no.: M633 New filter paper no.: M634
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

5.100 Before 5.005 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

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

Month : SEP. 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)
3-9-03	255.79	0.028	4	1.00	15.67
9-9-03	253.74	0.038	4	1.00	15.67
15-9-03	255.75	0.045	4	1.00	15.68
21-9-03	255.11	0.022	4	1.00	15.68
27-9-03	254.95	0.034	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)
3-9-03	248.95	0.036	4	1.00	15.64
9-9-03	248.85	0.034	4	1.00	15.64
15-9-03	248.65	0.028	4	0.99	15.64
21-9-03	248.34	0.034	4	1.00	15.65
27-9-03	247.06	0.031	4	0.99	15.65

Ash Lagoon (AM3)					
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)
3-9-03	254.00	0.034	4	1.00	15.64
9-9-03	253.94	0.035	4	1.00	15.65
15-9-03	253.75	0.030	4	1.00	15.64
21-9-03	253.10	0.046	4	0.99	15.64
27-9-03	254.93	0.034	4	0.99	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:

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 18-9-2005 Time 9:55

Equipment Rion NA-27 Sound Level Meter

Serial Number 00111465/00111466/00111467*

Staff Attended W.L.MAK ; H.K.TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 93.9

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

Note: * - Please delete where inappropriate

