

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: R.E Site No.: AM1
 Date of visit: 13-2-2004 Hour of Visit: 10 45
 Staff name: W. L. MAH HVAS S/N: 2198
 Used filter paper no.: LQ62 New filter paper no.: LQ64
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 22.9}{295.9}$ K Pressure, $P_a = 1019$ 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_2O)
1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) =$ _____
✓ 1535(09/2003)	$\Delta H_a = 18.2(T_a/P_a) = 5.28$

Manometer reading before calibration: 5.20
 Adjustment of flow controller (Y/N): N
 Manometer reading after calibration: 5.20

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

HIGH VOLUME AIR SAMPLER SITE VISIT LOG SHEET

Site Name: E-G Site No.: AM2
 Date of visit: 13-2-2007 Hour of Visit: 11:15
 Staff name: W.L. MAK, H. K. Ip HVAS S/N: 2195
 Used filter paper no.: LQ 63 New filter paper no.: LQ 65
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{23.2 + 273}{286} = 296.2$ K Pressure, $P_a = 1024$ 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_2O)
1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) =$ _____
✓ 1535(09/2003)	$\Delta H_a = 18.2(T_a/P_a) = 5.26$

Manometer reading before calibration: 5.1
 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 LAGOS Site Number: AM3
Date of Visit: 13-2-2004 Hour of Visit: 10:05
Staff Name: W. L. MAK - H. K. ISHAK Partisol S/N: 2000B205500001
Used Filter No.: PB 81 New Filter No.: PB 82
Ambient temperature: 23°C Ambient pressure: 1022 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 ± 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.: AM4

Date of visit: 13-2-2004 Hour of Visit: 10:47

Staff name: H.K. Tsang MINIVOL S/N: 903

Used filter paper no.: M659 New filter paper no.: M660

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

3.00 Before 5.00 After

II. General Service of Mini Vol Air Sampler

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

Year : 2004

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)
6/2/2004	255.24	0.038	4	1.00	15.68
12/2/2004	255.04	0.043	4	1.00	15.68
18/2/2004	254.38	0.021	4	1.00	15.68
24/2/2004	254.00	0.033	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)
6/2/2004	246.19	0.034	4	0.99	15.66
12/2/2004	245.99	0.040	4	1.00	15.65
18/2/2004	245.33	0.038	4	1.00	15.64
24/2/2004	246.21	0.037	4	1.00	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)
6/2/2004	254.41	0.060	4	1.01	15.64
12/2/2004	254.21	0.037	4	1.00	15.64
18/2/2004	254.50	0.038	4	1.00	15.64
24/2/2004	254.12	0.044	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:

Prepared by : Alx

Checked by : Cal

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

Location Ash Lagoon/~~Ching Lam~~*

Date 13-02-04 Time 10:15

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

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

Location ~~Ash Lagoon~~/Ching Lam*

Date 10-02-04 Time 11:15

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

Serial Number 00111465/00111466/00111467* 2343838

Staff Attended W.L. MAK., 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

Note: * - Please delete where inappropriate