

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: 17-11-2003 Hour of Visit: 1035
 Staff name: W.L. MAK HVAS S/N: 2198
 Used filter paper no.: LQ32 New filter paper no.: LQ34
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 22.9}{295.9}$ K Pressure, $P_a = 1014$ 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)	$\Delta H_a = 18.0(T_a/P_a) = \underline{\hspace{2cm}}$
✓ 1535(09/2003)	$\Delta H_a = 18.2(T_a/P_a) = \underline{5.31}$

Manometer reading before calibration: 5.60

Adjustment of flow controller (Y/N): Y

Manometer reading after calibration: 5.30

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: 17-11-2003 Hour of Visit: 1120
 Staff name: W.L. MAK/H.K. TSANG HVAS S/N: 2195
 Used filter paper no.: LQ33 New filter paper no.: LQ35
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{23.5 + 273}{296.5}$ K Pressure, $P_a = 1017$ 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)	$\Delta H_a = 18.0(T_a/P_a) = \underline{\hspace{2cm}}$
✓ 1535(09/2003)	$\Delta H_a = 18.2(T_a/P_a) = \underline{5.31}$

Manometer reading before calibration: 5.50
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.30

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: 17-11-2003 Hour of Visit: 1145
Staff Name: W. L. MAK Partisol S/N: 200B2011001
Used Filter No.: PB 66 New Filter No.: PB 67
Ambient temperature: 23.9 Ambient pressure: 1017

I. General Services

1. Replacc 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.: AM4
Date of visit: 17-11-03 Hour of Visit: 10:55
Staff name: H.K.TSANG MINIVOL S/N: 903
Used filter paper no.: M6744 New filter paper no.: M6745

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

5035 Before 5000 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 : NOV 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)
2-11-03	253.84	0.033	4	1.00	15.65
8-11-03	253.43	0.034	4	1.00	15.67
14-11-03	253.13	0.035	4	1.00	15.69
20-11-03	254.53	0.044	4	1.00	15.65
26-11-03	254.54	0.047	4	1.00	15.65

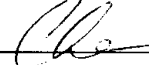
East Gate (AM2)					
Date	Frequency (Hz) (230 – 250)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
2-11-03	248.24	0.047	4	0.99	15.64
8-11-03	247.58	0.035	4	1.00	15.65
14-11-03	247.29	0.039	4	1.00	15.63
20-11-03	247.00	0.049	4	0.99	15.65
26-11-03	247.04	0.035	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)
2-11-03	254.94	0.043	4	0.99	15.64
8-11-03	254.31	0.045	4	0.99	15.64
14-11-03	254.05	0.042	4	1.00	15.64
20-11-03	255.35	0.054	4	0.99	15.64
26-11-03	255.28	0.054	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 : 

Checked by : 

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

Location Ash Lagoon/Ching Lam*

Date 14-11-03 Time 11:25

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

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

Location Ash Lagoon/Ching Lam*

Date 17-11-03 Time 10:20

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)) 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