

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: 12-6-2003 Hour of Visit: 1000
 Staff name: W L MAK HVAS S/N: 2198
 Used filter paper no.: LP77 New filter paper no.: LP79
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 28.5}{301.5}$ K Pressure, $P_a = 1001$ 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)	$\Delta H_a = 18.0(T_a/P_a) = 5.42$
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: 5.50

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.: Ad 2
 Date of visit: 12-6-2003 Hour of Visit: 1100
 Staff name: W. L. MAH/HK TSANG HVAS S/N: 2195
 Used filter paper no.: LP78 New filter paper no.: LP90
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 32.8}{305.8}$ K Pressure, $P_a = 1006$ 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)	$\Delta H_a = 18.0(T_a/P_a) = 5.47$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) = \underline{\hspace{2cm}}$

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

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

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYU Site No.: Am 4

Date of visit: 12-6-03 Hour of Visit: 10-15

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

Used filter paper no.: M616 New filter paper no.: M613

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

4970 Before 5007 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

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: Ash Lagoon Site Number: AM3
Date of Visit: 12-6-2003 Hour of Visit: 11:45
Staff Name: W.L. MAK / H.K. TSANG Partisol S/N: 2000B 2055001
Used Filter No.: FB 3P New Filter No.: PB40
Ambient temperature: 33° Ambient pressure: 1010

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

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

Month: JUL-E

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)
5-6-03	235.04	0.043	4	1.00	15.63
12-6-03	254.90	0.039	4	1.00	15.63
17-6-03	254.80	0.030	4	1.00	15.67
23-6-03	234.53	0.040	4	1.00	15.67
29-6-03	254.24	0.039	4	1.00	15.67

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)
5-6-03	249.25	0.044	4	1.00	15.65
11-6-03	249.08	0.040	4	1.00	15.63
17-6-03	248.93	0.047	4	0.99	15.63
23-6-03	247.83	0.039	4	1.00	15.63
29-6-03	247.72	0.039	4	0.99	15.63

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)
5-6-03	251.90	0.034	4	1.00	15.63
11-6-03	250.73	0.033	4	0.99	15.64
17-6-03	236.13	0.044	4	1.00	15.64
23-6-03	233.73	0.031	4	0.99	15.63
29-6-03	253.32	0.023	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:

TEOM1-6r TSP sampler at AM1 (Reservoir) tripped on 11-6-03.
A make up sampling for AM1 has carried out on
12-6-2003.

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 12-6-03 Time 10.12

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

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

Location Ash Lagoon/Ching Lam*

Date 13-6-03 Time 14:25

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