

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE. Site No.: AMI
 Date of visit: 07/10/2002 Hour of Visit: 10:45
 Staff name: K.F. HAN, W. J. MAK H.K. BANGI
 HVAS S/N: 2198
 Used filter paper no.: B34 New filter paper no.: B36
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{25.0 + 273}{298}$ K Pressure, $P_a = 1013$ 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 H_2O)
<input checked="" type="checkbox"/> 1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.3$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$

Manometer reading before calibration: 5.6
 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

Replace flow controller. S/N 0200-0749

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: E.G. Site No.: AM2
 Date of visit: 15-10-2002 Hour of Visit: 15:05
 Staff name: H.K. TSANG HVAS S/N: 21P5
 Used filter paper no.: B3P New filter paper no.: B3P
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{30.3 + 273}{303.3} =$ K Pressure, $P_a =$ 1016 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)	$\Delta H_a = 18.0(T_a/P_a) =$ <u>5.37</u>
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

Manometer reading before calibration: 5.1
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.4

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 Asik Lagoon Site Number AM3
Date of Visit 15-10-2022 Hour of Visit 10:31
Staff Name H.K. TSANG Partisol S/N: 2000B2455001
Used Filter No.: PA P8 New Filter No.: PA P8
Ambient temperature: 28.7 Ambient pressure: 1000

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

28.7 °C Before Calibration: X/N 28.7 °C After

2. Pressure Check (Ambient pressure ± 20 mbar)(factor = 0.000987)

1000 mbar Before Calibration: Y/N 1000 mbar After

3. Flow Check (16.7 \pm 1.1 litre/min)

16.81 cc/min Before Calibration: X/N 16.81 cc/min After

III. Remarks

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TYV Site No.: AMY

Date of visit: 18-10-2002 Hour of Visit: 15:45

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

Used filter paper no.: MF62 New filter paper no.: MF63

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

4.875 Before 5.004 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

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

Month : Oct. Year : 2002

Reservoir (AM1)					
Date	Frequency (Hz) (260 – 280)	Noise (<0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
2-10-02	261.46	0.038	4	1.00	15.67
8-10-02	237.34	0.031	4	1.00	15.68
14-10-02	237.27	0.044	4	1.00	15.68
20-10-02	237.20	0.039	4	1.00	15.67
26-10-02	236.98	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)
2-10-02	245.27	0.028	4	1.00	15.65
8-10-02	244.91	0.043	4	1.00	15.64
14-10-02	244.56	0.056	4	1.00	15.64
20-10-02	244.47	0.043	4	1.00	15.65
26-10-02	245.65	0.043	4	1.00	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)
2-10-02	246.15	0.028	4	0.99	15.64
8-10-02	245.80	0.037	4	1.00	15.65
14-10-02	245.30	0.042	4	1.00	15.63
20-10-02	247.30	0.044	4	0.99	15.63
26-10-02	247.10	0.035	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:

A new set of TEOM 1400 A Continuous dust monitor was installed at Reservoir on 3-10-2002. Acceptable frequency range of the new dust monitor was 230 Hz to 250 Hz.

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 15-10-2002 Time 11:00

Equipment Rion NA-27 Sound Level Meter

Serial Number ~~00111465~~/00111466/~~00111467~~*

Staff Attended 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

