

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM1
 Date of visit: 15-3-2005 Hour of Visit: 10 45
 Staff name: W L M PK HVAS S/N: 2193
 Used filter paper no.: LS00 New filter paper no.: LS02
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 17.7}{290.7} K$ Pressure, $P_a = 1014$ 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(09/2004)	$\Delta H_a = 18.33(T_a/P_a) = 5.25$

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: ± 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: EG Site No.: AM3
 Date of visit: 15-3-05 Hour of Visit: 10:00
 Staff name: W.L. MAK, H.K. KWANG HVAS S/N: 2195
 Used filter paper no.: LS01 New filter paper no.: LS03
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{16.1 + 27.3}{2} = 21.7$ K Pressure, $P_a = 1017$ 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(09/2004)	$\Delta H_a = 18.33(T_a/P_a) = 5.21$

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

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

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name AL Site Number AM3
Date of Visit 21-3-05 Hour of Visit 10:20
Staff Name W.L.MAK ; H.K. ISANI Partisol S/N: 2000B 205500001
Used Filter No.: PC42 New Filter No.: PC43
Ambient temperature: 18 °C Ambient pressure: 1010 mbar

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

18 °C Before Calibration: Y/N 18 °C After

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

1022 mbar Before Calibration: Y/N 1022 mbar After

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

17.0 cc/min Calibration: Y/N 17.0 cc/min

III. Remarks

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4

Date of visit: 9-3-05 Hour of Visit: 11:00

Staff name: H.K. TSANG MINIVOL S/N: 33P3

Used filter paper no.: MH30 New filter paper no.: MH31

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 3.00 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: ✓
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 : March Year : 2005

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)
2/3/2005	254.71	0.048	4	1.00	15.68
8/3/2005	255.37	0.045	4	1.00	15.68
14/3/2005	255.21	0.028	4	1.00	15.68
20/3/2005	254.91	0.038	4	1.00	15.68
26/3/2005	254.61	0.041	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)
2/3/2005	244.71	0.053	4	1.00	15.64
8/3/2005	244.28	0.065	4	1.00	15.64
14/3/2005	244.11	0.055	4	0.99	15.64
20/3/2005	245.99	0.016	4	0.99	15.64
26/3/2005	245.80	0.029	4	1.00	15.65

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 – 270)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
2/3/2005	260.97	0.015	4	1.01	15.67
8/3/2005	260.49	0.017	4	1.01	15.67
14/3/2005	262.42	0.018	4	1.01	15.67
20/3/2005	259.94	0.027	4	1.01	15.68
26/3/2005	262.40	0.016	4	1.01	15.69

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 14-3-05 Time 11:10

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

Serial Number ~~00111465/00111466/00111467/2343838/2356907*~~

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 15-3-05 Time 11:30

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

Serial Number 00111465/00111466/00111467/2343838/2356907*

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

1. Calibration

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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

Equipment Calibration Record for March 2005

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used: RION NL-31

Calibrator Used: RION NC-74

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
01/03/2005	94.0	94.0	Anthony Wong
04/03/2005	94.0	94.0	Anthony Wong
08/03/2005	94.0	94.0	Anthony Wong
11/03/2005	94.0	94.0	Anthony Wong
15/03/2005	94.0	94.0	Anthony Wong
18/03/2005	94.0	94.0	Anthony Wong
22/03/2005	94.0	94.0	Anthony Wong
29/03/2005	94.0	94.0	Anthony Wong

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
01/03/2005	94.0	94.0	Anthony Wong
04/03/2005	94.0	94.0	Anthony Wong
08/03/2005	94.0	94.0	Anthony Wong
11/03/2005	94.0	94.0	Anthony Wong
15/03/2005	94.0	94.0	Anthony Wong
18/03/2005	94.0	94.0	Anthony Wong
22/03/2005	94.0	94.0	Anthony Wong
29/03/2005	94.0	94.0	Anthony Wong

Note: Measurement accepted as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.