

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: Am 1
 Date of visit: 16-1-2006 Hour of Visit: 11:05
 Staff name: W. L. O'NEIL HVAS S/N: 2198
 Used filter paper no.: LT07 New filter paper no.: LT09
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 24.0}{297}$ 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)
1535(09/2005)	$\Delta H_a = 19.29(T_a/P_a) = 5.65''$

Manometer reading before calibration: 5.40''
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.60''

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.: AM2
 Date of visit: 16-1-2006 Hour of Visit: 10 45
 Staff name: W. L. MAK HVAS S/N: 2195
 Used filter paper no.: LT08 New filter paper no.: LT10
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 22.0}{295}$ K Pressure, $P_a = 1018$ 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)
1535(09/2005)	$\Delta H_a = 19.29(T_a/P_a) = 5.58$ "

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

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: Ash Lagoon Site Number: AM3
 Date of Visit: 16-1-2006 Hour of Visit: 10:00
 Staff Name: W.L. YAK ; H.K. ISANIG Partisol S/N: 2000B207550410
 Used Filter No.: PD01 New Filter No.: PD02
 Ambient temperature: 21°C Ambient pressure: 1016 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 $\pm 2^\circ\text{C}$)

_____ °C Calibration: Y/N _____ °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: TYU Site No.: AM4
Date of visit: 16-1-06 Hour of Visit: 11:00
Staff name: H.K. TSANG MINIVOL S/N: 3393
Used filter paper no.: MM8K New filter paper no.: MM8L

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

5.0 Before 5.0 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: _____ X
2. Clean / replace Pump Valves: _____ X
3. Clean / replace Pump Diaphragms: _____ K
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 : January Year : 2006

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)
2/1/2006	257.46	0.031	4	1.00	15.68
8/1/2006	257.18	0.033	4	1.00	15.68
14/1/2006	256.72	0.032	4	1.00	15.68
20/1/2006	256.44	0.020	4	1.00	15.68
26/1/2006	256.09	0.024	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)
2/1/2006	245.79	0.049	4	0.99	15.64
8/1/2006	245.54	0.030	4	0.99	15.65
14/1/2006	245.08	0.041	4	0.99	15.63
20/1/2006	244.81	0.024	4	1.00	15.64
26/1/2006	244.76	0.038	4	1.00	15.63

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)
2/1/2006	246.70	0.068	4	1.00	15.67
8/1/2006	246.51	0.047	4	0.99	15.67
14/1/2006	246.14	0.045	4	1.01	15.68
20/1/2006	249.09	0.034	4	1.00	15.68
26/1/2006	248.82	0.049	4	1.01	15.67

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 : 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 16-1-06 Time 10:45

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 17-1-05 Time 16:00

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

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

Staff Attended W.H. 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

Equipment Calibration Record for January 2006

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
03/01/2006	94.0	94.0	C K Law
06/01/2006	94.0	94.0	C K Law
10/01/2006	94.0	94.0	Anthony Wong
13/01/2006	94.0	94.0	Anthony Wong
17/01/2006	94.0	94.0	C K Law
20/01/2006	94.0	94.0	C K Law
24/01/2006	94.0	94.0	C K Law
27/01/2006	94.0	94.0	C K Law

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
03/01/2006	94.0	94.0	C K Law
06/01/2006	94.0	94.0	C K Law
10/01/2006	94.0	94.0	Anthony Wong
13/01/2006	94.0	94.0	Anthony Wong
17/01/2006	94.0	94.0	C K Law
20/01/2006	94.0	94.0	C K Law
24/01/2006	94.0	94.0	C K Law
27/01/2006	94.0	94.0	C K Law

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