

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: 6-9-2006 Hour of Visit: 10:05
 Staff name: W.L.MAK/H.K.TSANG HVAS S/N: 2198
 Used filter paper no.: LT86 New filter paper no.: LT88
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 32.4}{32.4} \text{ K}$ Pressure, $P_a = \underline{1002} \text{ mb}$

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)
1535(09/2005)	$-H_a = 19.29(T_a/P_a) = \underline{5.88}$

Manometer reading before calibration: 6.00"
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.90"

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

Replace blower

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: E G Site No.: Atm 2
 Date of visit: 6-9-2006 Hour of Visit: 10:05
 Staff name: W.L. MAK/HK TSANG HVAS S/N: 2195
 Used filter paper no.: LT 87 New filter paper no.: LT 89
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 32.6}{32.6}$ K Pressure, $P_a = 1003$ 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)
1535(09/2005)	$-H_a = 19.29(T_a/P_a) = 5.88$

Manometer reading before calibration: 6.16"
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.90"

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

Replace new blower.

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: ASH LAGOON Site Number: Am 3
Date of Visit: 12-9-2008 Hour of Visit: 0940
Staff Name: HK TSANG/W LMAK Partisol S/N: 2000B20755C410
Used Filter No.: PD 41 New Filter No.: PD 42
Ambient temperature: 23.2 Ambient pressure: 1007

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 $\pm 2^{\circ}\text{C}$)
23.1 °C Before Calibration: Y/N 23.1 °C After
2. Pressure Check (Ambient pressure ± 20 mbar)(factor = 0.000987)
0.994 mbar Before Calibration: X/N 0.994 mbar After
3. Flow Check (16.7 \pm 1.1 litre/min)
16.93 l/min Before Calibration: X/N 16.93 l/min After

III. Remarks

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TYU Site No.: AM4

Date of visit: 12-9-06 Hour of Visit: 14:20

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

Used filter paper no.: MT25 New filter paper no.: MT26

Type of filter: ~~Cellulose~~ / Glass-fibre
(Delete as appropriate)

I. Calibration is performed by using Drycal DC-2 Flow Calibrator
5 SI/min set point is recommended

4.97 Before 5.00 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: X
2. ~~Clean~~ / replace Pump Valves: ✓
3. ~~Clean~~ / replace Pump Diaphragms: ✓
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 : September 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)
5/9/2006	238.56	0.029	4	1.00	15.67
11/9/2006	238.44	0.032	4	1.00	15.68
17/9/2006	238.20	0.048	4	1.00	15.67
23/9/2006	237.95	0.036	4	1.00	15.67
29/9/2006	237.76	0.035	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)
5/9/2006	232.15	0.036	4	1.00	15.62
11/9/2006	232.06	0.038	4	1.00	15.62
17/9/2006	231.80	0.034	4	0.99	15.63
23/9/2006	231.57	0.045	4	1.00	15.63
29/9/2006	231.45	0.045	4	1.00	15.62

Ash Lagoon (AM3)					
Date	Frequency (Hz) (230 – 270)	Noise (<0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
5/9/2006	231.93	0.054	4	1.01	15.66
11/9/2006	231.74	0.031	4	1.01	15.67
17/9/2006	231.92	0.022	4	1.00	15.67
23/9/2006	231.69	0.028	4	1.00	15.66
29/9/2006	231.53	0.038	4	1.01	15.66

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 12-9-06 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

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

Equipment Calibration Record for September 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
1/9/2006	94.0	94.0	C K Siu
5/9/2006	94.0	94.0	C K Siu
8/9/2006	94.0	94.0	C K Siu
12/9/2006	94.0	94.0	C K Siu
15/9/2006	94.0	94.0	C K Siu
19/9/2006	94.0	94.0	C K Siu
22/9/2006	94.0	94.0	C K Siu
26/9/2006	94.0	94.0	Anthony Tang
29/9/2006	94.0	94.0	Anthony Tang

Measurement Location: N5 - Pak Kok Tsui No.8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
1/9/2006	94.0	94.0	C K Siu
5/9/2006	94.0	94.0	C K Siu
8/9/2006	94.0	94.0	C K Siu
12/9/2006	94.0	94.0	C K Siu
15/9/2006	94.0	94.0	C K Siu
19/9/2006	94.0	94.0	C K Siu
22/9/2006	94.0	94.0	C K Siu
26/9/2006	94.0	94.0	Anthony Tang
29/9/2006	94.0	94.0	Anthony Tang

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