

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: 11-7-06 Hour of Visit: 10:30
 Staff name: H. K. TSANG HVAS S/N: 218
 Used filter paper no.: LT 68 New filter paper no.: LT 70
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{31.4 + 273}{304.4}$ K Pressure, $P_a = 995$ 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)	$\Delta H_a = 19.29(T_a/P_a) = 5.9$

Manometer reading before calibration: 5.6
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.9

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: 14-7-06 Hour of Visit: 14:00
 Staff name: H.K. TSANG HVAS S/N: 21PX
 Used filter paper no.: LT6P New filter paper no.: LT71
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{32.6 + 273}{305.6}$ K Pressure, $P_a = 998$ 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)	$\Delta H_a = 19.29(T_a/P_a) = 5.91$

Manometer reading before calibration: 5.9
 Adjustment of flow controller (Y/N): N
 Manometer reading after calibration: 5.9

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

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4
Date of visit: 4-7-06 Hour of Visit: 11:10
Staff name: H.K. TSANG MINIVOL S/N: 33P3
Used filter paper no.: MT 1X New filter paper no.: MI 16

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

5.00 Before 5.02 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 : July 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)
1/7/2006	240.13	0.032	4	1.00	15.67
7/7/2006	240.06	0.036	4	1.00	15.67
13/7/2006	239.95	0.037	4	1.00	15.67
19/7/2006	239.75	0.039	4	1.00	15.67
25/7/2006	239.63	0.027	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)
1/7/2006	240.35	0.033	4	1.00	15.61
7/7/2006	246.21	0.030	4	0.99	15.63
13/7/2006	246.03	0.073	4	1.00	15.62
19/7/2006	245.74	0.084	4	0.99	15.62
25/7/2006	245.39	0.045	4	0.99	15.64

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)
1/7/2006	248.73	0.031	4	1.00	15.67
7/7/2006	248.65	0.038	4	1.00	15.66
13/7/2006	248.53	0.039	4	1.00	15.66
19/7/2006	248.31	0.032	4	1.01	15.66
25/7/2006	248.08	0.046	4	1.00	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 : CHe

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

Location Ash Lagoon/Ching Lam*

Date 11-7-06 Time 14:15

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

Serial Number 00111465/00111466/00111467/2343838/2356907*
2414677

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 11-7-06 Time 16:10

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

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Note: * - Please delete where inappropriate

Equipment Calibration Record for July 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
04/07/2006	94.0	94.0	C K Law
07/07/2006	94.0	94.0	C K Law
11/07/2006	94.0	94.0	C K Law
14/07/2006	94.0	94.0	C K Law
18/07/2006	94.0	94.0	C K Law
21/07/2006	94.0	94.0	C K Law
25/07/2006	94.0	94.0	C K Law
28/07/2006	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
04/07/2006	94.0	94.0	C K Law
07/07/2006	94.0	94.0	C K Law
11/07/2006	94.0	94.0	C K Law
14/07/2006	94.0	94.0	C K Law
18/07/2006	94.0	94.0	C K Law
21/07/2006	94.0	94.0	C K Law
25/07/2006	94.0	94.0	C K Law
28/07/2006	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.