Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	R.E.	Site No.:	AM1
Date of visit:	14-7-06	Hour of Visit:	10:30
Staff name:	H.K. ISANG	HVAS S/N:	2188
Used filter paper no.:	LT 68	New filter paper no.:	LT 70
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 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_2O)
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 ft^3/min. Corresponding limits for manometer : ± 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

File Name: C:\monitor\ambient\hvprical\HVASCAL05.doc

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:	2185
Used filter paper no.:	LT6P	New filter paper no.:	LT71
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 326+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 ft^3/min. (inch H_2O)
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: ± 1.0 ft^3/min. Corresponding limits for manometer : ± 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

File Name: C:\monitor\ambient\hvprical\HVASCAL05.doc

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: A.L. Site Number: AM3

Date of Visit: 14-7-06 Hour of Visit: 15:00

Staff Name: H.K. Tsang Partisol S/N: 140B20754C410

Used Filter No.: P031 New Filter No.: P032

Ambient temperature: 33.5°C Ambient pressure: 1001 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 ± 2°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± 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:	TY	Site No.:	AM4
Date of visit:	4-7-06	Hour of Visit:	11:10
Staff name:	H.K.TSANG	MINIVOL S/N:	3383
Used filter paper no.:	MT 15	New filter paper no.:	MI16

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	246.35	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	0.086	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 : Ale

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

Location Ash Lagoon/~~Ching Lam~~*

Date 14-8-06 Time 10:00

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 15-8-06 Time 10:30

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