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:	14-2-2006	Hour of Visit:	1045
Staff name:	W. L. MAK	HVAS S/N:	2198
Used filter paper no.:	LT17	New filter paper no.:	LT19
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 273+22.4 / 295.4° 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_2O)
1535(09/2005)	$\triangle H_a = 19.29(T_a/P_a)$ = 5.6"

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

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:	E.G	Site No.:	AM2.
Date of visit:	14-2-06	Hour of Visit:	11:20
Staff name:	W.L.MAK, H.K.TSO	HVAS S/N:	21PL
Used filter paper no.:	LT18	New filter paper no.:	LT20
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 222+273 28.2 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_2O)
1535(09/2005)	$\triangle H_a = 19.29(T_a/P_a)$ = 5.6

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

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: 14-2-06 Hour of Visit: 10:00

Staff Name: W.L. MAK ; H.K. TSANG Partisol S/N: 2000B207585C410

Used Filter No.: PD06 New Filter No.: PD07

Ambient temperature: 22.2°C Ambient pressure: 1018 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 ± 2°C)**

22.2 °C Before Calibration: Y / (N) 22.2 °C After

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

1018 mbar Before Calibration: Y / (N) 1025 mbar After

3. Flow Check **(16.7± 1.1 litre/min)**

16.8 l/min Before Calibration: Y / (N) 16.8 l/min After

III. Remarks

_____

_____

_____

_____

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	TYV	Site No.:	AM4
Date of visit:	14-2-06	Hour of Visit:	10:45
Staff name:	H.K. TSANG	MINIVOL S/N:	3383
Used filter paper no.:	MH80	New filter paper no.:	MH91

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: 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 : February 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)
1/2/2006	257.34	0.029	4	1.00	15.68
7/2/2006	257.08	0.034	4	1.00	15.65
13/2/2006	256.48	0.025	4	1.00	15.68
19/2/2006	256.33	0.024	4	1.00	15.68
25/2/2006	255.93	0.033	4	1.00	15.66

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)
1/2/2006	244.49	0.035	4	0.99	15.63
7/2/2006	244.08	0.038	4	1.00	15.63
13/2/2006	243.76	0.045	4	0.99	15.64
19/2/2006	243.32	0.032	4	1.00	15.63
25/2/2006	242.87	0.054	4	1.00	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)
1/2/2006	248.61	0.054	4	0.99	15.67
7/2/2006	248.42	0.049	4	1.01	15.67
13/2/2006	248.22	0.048	4	1.00	15.67
19/2/2006	248.01	0.036	4	1.01	15.67
25/2/2006	247.94	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 :

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

Location Ash Lagoon/~~Ching Lam*~~

Date 14-2-06 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

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

Location ~~Ash Lagoon~~/Ching Lam*

Date 24-2-06 Time 11:00

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

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

Staff Attended H.K. TSANG

1. Calibration

   Acoustic calibrator used ~~Rion NC-74~~ B&K 4231

   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 February 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
01/02/2006	94.0	94.0	C K Law
03/02/2006	94.0	94.0	C K Law
07/02/2006	94.0	94.0	C K Law
10/02/2006	94.0	94.0	C K Law
14/02/2006	94.0	94.0	C K Law
17/02/2006	94.0	94.0	C K Law
21/02/2006	94.0	94.0	C K Law
24/02/2006	94.0	94.0	C K Law
28/02/2006	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
01/02/2006	94.0	94.0	C K Law
03/02/2006	94.0	94.0	C K Law
07/02/2006	94.0	94.0	C K Law
10/02/2006	94.0	94.0	C K Law
14/02/2006	94.0	94.0	C K Law
17/02/2006	94.0	94.0	C K Law
21/02/2006	94.0	94.0	C K Law
24/02/2006	94.0	94.0	C K Law
28/02/2006	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.