Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	RC	Site No.:	AM1
Date of visit:	17-5-2005	Hour of Visit:	1415
Staff name:	W L MAK	HVAS S/N:	2198
Used filter paper no.:	L528	New filter paper no.:	L522
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = $\frac{273+37.1}{306.1}$ K Pressure, P_a = 1009 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)
1534(09/2004)	$\Delta H_a = 18.33(T_a/P_a)$ = 5.56

Manometer reading before calibration: 5.30
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.50

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\HVASCAL04.doc

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	EG	Site No.:	AM 2
Date of visit:	17 - 5 - 2005	Hour of Visit:	1320
Staff name:	WL MAK / HK TSANG	HVAS S/N:	2195
Used filter paper no.:	LS21	New filter paper no.:	LS23
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = $\frac{273 + 33.4^{\circ}}{306.4^{\circ}}$ 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)
1534(09/2004)	$\Delta H_a = 18.33(T_a/P_a)$ = 5.53

Manometer reading before calibration: 5.10
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.50

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\HVASCAL04.doc

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name A.L. Site Number Am 3

Date of Visit 17-X-05 Hour of Visit 14:35

Staff Name H.K. Tsang Partisol S/N: 2000B 20SS 00001

Used Filter No.: Pc56 New Filter No.: Pc57

Ambient temperature: 35.4°C Ambient pressure: 1016

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 ✓

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)

_____ cc/min Calibration: Y / N _____ cc/min
~~Before~~

III. Remarks

_____

_____

_____

_____

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	TYV	Site No.:	AM
Date of visit:	17-5-05	Hour of Visit:	14:10
Staff name:	H.K. Isaac	MINIVOL S/N:	3393
Used filter paper no.:	MH 41	New filter paper no.:	MH 42.

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

5.02 Before 5.02 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: X
2. Clean / replace Pump Valves: ✓
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 : May Year : 2005

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)
1/5/2005	257.2	0.037	4	1.00	15.68
7/5/2005	256.9	0.036	4	1.00	15.68
13/5/2005	256.8	0.045	4	1.00	15.68
19/5/2005	256.6	0.039	4	1.00	15.68
25/5/2005	256.5	0.036	4	1.00	15.68
31/5/2005	257.5	0.043	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)
1/5/2005	245.4	0.053	4	0.99	15.65
7/5/2005	245.2	0.050	4	1.00	15.64
13/5/2005	245.1	0.041	4	1.00	15.57
19/5/2005	246.4	0.031	4	1.00	15.57
25/5/2005	246.2	0.038	4	0.99	15.64
31/5/2005	246.1	0.053	4	0.99	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)
1/5/2005	246.8	0.024	4	1.01	15.67
7/5/2005	246.6	0.029	4	1.00	15.67
13/5/2005	247.8	0.030	4	1.00	15.67
19/5/2005	247.7	0.031	4	1.00	15.67
25/5/2005	247.5	0.030	4	1.00	15.67
31/5/2005	247.4	0.033	4	1.00	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 11-5-05 Time 15:00

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 20-5-04 Time 13:10

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

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/cl~~oudy/showery/heavy rain*~~

   b. ~~Strong wind/breeze~~/calm*

3. Remark/Observation

Note: * - Please delete where inappropriate

Equipment Calibration Record for May 2005

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
03/05/2005	94.0	94.0	Anthony Wong
06/05/2005	94.0	94.0	Anthony Wong
10/05/2005	94.0	94.0	Anthony Wong
13/05/2005	94.0	94.0	Anthony Wong
17/05/2005	94.0	94.0	Anthony Wong
20/05/2005	94.0	94.0	Anthony Wong
24/05/2005	94.0	94.0	Anthony Wong
27/05/2005	94.0	94.0	Anthony Wong
31/05/2005	94.0	94.0	Anthony Wong

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
03/05/2005	94.0	94.0	Anthony Wong
06/05/2005	94.0	94.0	Anthony Wong
10/05/2005	94.0	94.0	Anthony Wong
13/05/2005	94.0	94.0	Anthony Wong
17/05/2005	94.0	94.0	Anthony Wong
20/05/2005	94.0	94.0	Anthony Wong
24/05/2005	94.0	94.0	Anthony Wong
27/05/2005	94.0	94.0	Anthony Wong
31/05/2005	94.0	94.0	Anthony Wong

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