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:	15-12-04	Hour of Visit:	15:30
Staff name:	H.K. TSANG	HVAS S/N:	2198
Used filter paper no.:	LR69	New filter paper no.:	LR71
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 24.3+273 / 297.3 K Pressure, P_a = 1013 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)	$\triangle H_a = 18.33(T_a/P_a)$ = 5.38

Manometer reading before calibration: 5.7
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.4

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:	16 - 12 - 2004	Hour of Visit:	1035
Staff name:	W. L. MAK	HVAS S/N:	2195
Used filter paper no.:	LR70	New filter paper no.:	LR72
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 273+23.1 / 296.1 K Pressure, P_a = 1020 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)	$\triangle H_a = 18.33(T_a/P_a)$ = 5.32

Manometer reading before calibration: 5.40
Adjustment of flow controller (Y/N): N
Manometer reading after calibration: 5.40

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: AM3

Date of Visit: 15-12-04 Hour of Visit: 11:00

Staff Name: M.K. Tsang Partisol S/N: 2000B20SX00001

Used Filter No.: PC 31 New Filter No.: PC32

Ambient temperature: 23.5° Ambient pressure: 1015 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 ✓
5. Clean / Replace piston ✓

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check **(Ambient temperature ± 2°C)**

23.5 °C Before — Calibration: Y (N) — 23.5 °C After

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

1,007 ~~mbar~~ hPa Before — Calibration: Y (N) — 1020 mbar After

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

17.0 l/min Before — Calibration: Y / (N) — 17.0 l/min After

III. Remarks

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MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name:	TY	Site No.:	AM.4
Date of visit:	16-12-04	Hour of Visit:	10:10
Staff name:	H.K.TSANG	MINIVOL S/N:	903
Used filter paper no.:	MH16	New filter paper no.:	MH17

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 5.00 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / ~~replace~~ Pump Valves: ✓
3. Clean / replace Pump Diaphragms: x
4. Clean Impaction Inlet: ✓
5. Replace Timer Battery Every 6 months: ✓
6. Replace Inlet Filter: ✓

III. Remarks

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THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
TEOM 1400A CONTINUOUS DUST MONITOR
DATA QUALITY ASSURANCE LOG SHEET

Month : December Year : 2004

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)
2/12/2004	252.98	0.035	4	1.00	15.65
8/12/2004	254.99	0.021	4	1.00	15.65
14/12/2004	254.51	0.029	4	1.00	15.68
20/12/2004	254.05	0.036	4	1.00	15.68
26/12/2004	253.63	0.034	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)
2/12/2004	246.01	0.048	4	0.99	15.65
8/12/2004	245.44	0.046	4	1.00	15.65
14/12/2004	244.97	0.047	4	1.00	15.63
20/12/2004	245.89	0.043	4	1.00	15.65
26/12/2004	245.46	0.053	4	0.99	15.64

Ash Lagoon (AM3)					
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)
2/12/2004	253.38	0.048	4	0.99	15.64
8/12/2004	254.48	0.035	4	1.00	15.64
14/12/2004	253.98	0.032	4	1.00	15.64
20/12/2004	253.67	0.036	4	1.00	15.64
26/12/2004	254.57	0.044	4	1.00	15.64

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 13-12-04 Time 10:35

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

Calibration level before adjustment (dB(A)) 93.9

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 15-12-04 Time 11:34

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

   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 December 2004

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
03/12/2004	94.0	94.0	Anthony Wong
07/12/2004	94.0	94.0	Anthony Wong
10/12/2004	94.0	94.0	Anthony Wong
14/12/2004	94.0	94.0	Anthony Wong
17/12/2004	94.0	94.0	Anthony Wong
21/12/2004	94.0	94.0	Anthony Wong
24/12/2004	94.0	94.0	Anthony Wong
28/12/2004	94.0	94.0	Anthony Wong
31/12/2004	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
03/12/2004	94.0	94.0	Anthony Wong
07/12/2004	94.0	94.0	Anthony Wong
10/12/2004	94.0	94.0	Anthony Wong
14/12/2004	94.0	94.0	Anthony Wong
17/12/2004	94.0	94.0	Anthony Wong
21/12/2004	94.0	94.0	Anthony Wong
24/12/2004	94.0	94.0	Anthony Wong
28/12/2004	94.0	94.0	Anthony Wong
31/12/2004	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.