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:	12-P-05	Hour of Visit:	13:47
Staff name:	W.L.YAK, H.K.TSANG	HVAS S/N:	2198
Used filter paper no.:	1562	New filter paper no.:	1564
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 35.P+273 = 308.P K Pressure, P_a = 1008 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)	$\triangle H_a = 18.33(T_a/P_a)$ = 5.62

Manometer reading before calibration: 5.8
Adjustment of flow controller (Y/N): Y
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\HVASCAL04.doc

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	E.G.	Site No.:	AM2
Date of visit:	12-P-05	Hour of Visit:	11:45
Staff name:	W.L.MAK. H.K.TSANG C.H.HUNG	HVAS S/N:	2195
Used filter paper no.:	L563	New filter paper no.:	L565
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = ~~32.5~~ ~~+273~~ ~~305.5~~ K Pressure, P_a = ~~1018~~ 1010 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)	$\triangle H_a = 18.33(T_a/P_a)$ = 5.54

Manometer reading before calibration: 5.8
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.5

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: Ash Lagoon Site Number: AM3

Date of Visit: 12-9-05 Hour of Visit: 14:10

Staff Name: W. L. MAK Partisol S/N: 2000B 20755410

Used Filter No.: PC76 New Filter No.: PC77

Ambient temperature: 34.8°C Ambient pressure: 0.994 / 1007

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)**

34.4 °C Before Calibration: Y / N ____ °C After

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

1008 mbar Before Calibration: Y / N ____ mbar After

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

16.7 l/min Before Calibration: Y / N ____ l/min After

III. Remarks

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_____

_____

_____

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TY V Site No.: AM4

Date of visit: 12-P-05 Hour of Visit: 11:15

Staff name: H.K.TSANG MINIVOL S/N: 383

Used filter paper no.: MH62 New filter paper no.: MH63

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

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

Month : September 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)
4/9/2005	257.66	0.027	4	1.00	15.68
10/9/2005	257.29	0.041	4	1.00	15.68
16/9/2005	256.93	0.040	4	1.00	15.68
22/9/2005	256.72	0.042	4	1.00	15.68
28/9/2005	256.49	0.041	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)
4/9/2005	246.05	0.061	4	0.99	15.62
10/9/2005	245.64	0.051	4	0.99	15.63
16/9/2005	245.25	0.055	4	0.99	15.63
22/9/2005	245.02	0.061	4	0.99	15.63
28/9/2005	246.27	0.051	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)
4/9/2005	248.86	0.038	4	1.00	15.67
10/9/2005	248.56	0.044	4	1.00	15.68
16/9/2005	248.27	0.051	4	1.00	15.66
22/9/2005	248.86	0.028	4	1.00	15.67
28/9/2005	248.66	0.053	4	1.00	15.68

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 14-9-05 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/bree~~ze/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 16-P-05 Time 10:50

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

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

Staff Attended H.K. TSANG ; C.H. HUNG

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

18/5/2004

Equipment Calibration Record for September 2005

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used: RION NL-31(*) / ACO-TYPE 6224 (#)

Calibrator Used: ACO-TYPE 2126

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
02/09/2005 (*)	94.0	94.0	Anthony Wong
06/09/2005 (#)	94.0	94.0	Anthony Wong
09/09/2005 (#)	94.0	94.0	Anthony Wong
13/09/2005 (#)	94.0	94.0	Anthony Wong
16/09/2005 (#)	94.0	94.0	Anthony Wong
20/09/2005 (#)	94.0	94.0	Anthony Wong
23/09/2005 (#)	94.0	94.0	Anthony Wong
27/09/2005 (#)	94.0	94.0	Anthony Wong
30/09/2005 (#)	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
02/09/2005 (*)	94.0	94.0	Anthony Wong
06/09/2005 (#)	94.0	94.0	Anthony Wong
09/09/2005 (#)	94.0	94.0	Anthony Wong
13/09/2005 (#)	94.0	94.0	Anthony Wong
16/09/2005 (#)	94.0	94.0	Anthony Wong
20/09/2005 (#)	94.0	94.0	Anthony Wong
23/09/2005 (#)	94.0	94.0	Anthony Wong
27/09/2005 (#)	94.0	94.0	Anthony Wong
30/09/2005 (#)	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.