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:	13-5-2004	Hour of Visit:	1035
Staff name:	W L MAK	HVAS S/N:	2198
Used filter paper no.:	LQ94	New filter paper no.:	LQ96
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 273 + 34.0 / 307 K Pressure, P_a = 1007 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(04/2002)	$\triangle H_a = 18.0(T_a/P_a)$ =
✓ 1535(09/2003)	$\triangle H_a = 18.2(T_a/P_a)$ = 5.55

Manometer reading before calibration: 5.60
Adjustment of flow controller (Y/N): N
Manometer reading after calibration: 5.60

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

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	E.G.	Site No.:	AM2
Date of visit:	13-5-04	Hour of Visit:	10:02
Staff name:	W.L. MAK ; H.K. TSANG	HVAS S/N:	2195
Used filter paper no.:	LQ95	New filter paper no.:	LQ97
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 31+273 / 304 K Pressure, P_a = 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(04/2002)	$\triangle H_a = 18.0(T_a/P_a)$ = _____
✓ 1535(09/2003)	$\triangle H_a = 18.2(T_a/P_a)$ = 5.47

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

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name: A.L. Site Number: Ah 3

Date of Visit: 13-X-2014 Hour of Visit: 11:10

Staff Name: W.L.MAK, H.K.TSANG Partisol S/N: 2000B 20550000l

Used Filter No.: PC00 New Filter No.: PC01

Ambient temperature: 32.3°C Ambient pressure: 1012 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 ✓

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:	TYV	Site No.:	AM4
Date of visit:	13-X-04	Hour of Visit:	10:30
Staff name:	H.K.Isaac	MINIVOL S/N:	903
Used filter paper no.:	M674	New filter paper no.:	M675

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

X.00 Before X.00 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / replace Pump Valves: X
3. Clean / ~~replace~~ Pump Diaphragms: ✓
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 : 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)
6/5/2004	255.45	0.039	4	1.00	15.68
12/5/2004	255.25	0.037	4	1.00	15.67
18/5/2004	255.11	0.041	4	1.00	15.66
24/5/2004	254.83	0.028	4	1.00	15.65
30/5/2004	254.68	0.028	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)
6/5/2004	246.63	0.045	4	0.99	15.65
12/5/2004	246.47	0.033	4	0.99	15.64
18/5/2004	247.61	0.065	4	1.00	15.63
24/5/2004	247.30	0.050	4	1.00	15.65
30/5/2004	247.13	0.033	4	1.00	15.63

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)
6/5/2004	254.22	0.032	4	1.00	15.63
12/5/2004	254.03	0.033	4	1.00	15.64
18/5/2004	253.91	0.031	4	0.99	15.64
24/5/2004	253.43	0.026	4	0.99	15.64
30/5/2004	253.28	0.029	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 : _____

Checked by : _____

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

Location Ash Lagoon/~~Ching Lam*~~

Date 13-5-04 Time 1130

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)) 93.8

   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 12-5-04 Time 11:15

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

Equipment Calibration Record

Site: Lamma Power Station Extension – Transmission System

Noise Equipment Used: Rion NL-14 sound level meter

Calibrator Used: B&K 4231 sound level calibrator

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
17/05/2004	94.0	94.0	T. M. Chan
20/05/2004	94.0	94.0	T. M. Fung
24/05/2004	94.0	94.0	T. M. Chan
27/05/2004	94.0	94.0	T. M. Fung
31/05/2004	94.0	94.0	T. M. Chan

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
17/05/2004	94.0	94.0	T. M. Chan
20/05/2004	94.0	94.0	T. M. Fung
24/05/2004	94.0	94.0	T. M. Chan
27/05/2004	94.0	94.0	T. M. Fung
31/05/2004	94.0	94.0	T. M. Chan

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

Approved by: DANIEL SUM Date: 31/05/2004