

Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM1
 Date of visit: 15-6-2006 Hour of Visit: 10:25
 Staff name: W. L. MAIK HVAS S/N: 2198
 Used filter paper no.: LT58 New filter paper no.: LT60
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273 + 30.4}{30.4}$ K Pressure, $P_a = 1005$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft ³ /min. (inch H ₂ O)
1535(09/2005)	$\Delta H_a = 19.29(T_a/P_a) = 5.82'$

Manometer reading before calibration: 5.70
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.80

Note: Tolerance Limit of HVAS flow: ± 1.0 ft³/min. Corresponding limits for manometer : ± 0.2 inch H₂O

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: 15-6-2006 Hour of Visit: 1045
 Staff name: W.L. Malik HVAS S/N: 2195
 Used filter paper no.: LT59 New filter paper no.: LT61
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{273+30.1}{303.1}$ 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 ₂ O)
1535(09/2005)	$\Delta H_a = 19.29(T_a/P_a) = 5.79''$

Manometer reading before calibration: 5.60''
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.80''

Note: Tolerance Limit of HVAS flow: ± 1.0 ft³/min. Corresponding limits for manometer : ± 0.2 inch H₂O

III. General Conditions of HVAS

IV. Remarks

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

Month : June 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)
1/6/2006	256.56	0.044	4	1.00	15.67
7/6/2006	256.75	0.041	4	1.00	15.68
13/6/2006	256.61	0.037	4	1.00	15.68
19/6/2006	256.50	0.027	4	1.00	15.68
25/6/2006	256.41	0.030	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)
1/6/2006	246.55	0.051	4	1.00	15.62
7/6/2006	246.38	0.037	4	1.00	15.63
13/6/2006	246.20	0.039	4	1.00	15.62
19/6/2006	246.06	0.051	4	0.99	15.63
25/6/2006	245.99	0.067	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)
1/6/2006	247.96	0.031	4	1.00	15.66
7/6/2006	247.87	0.030	4	1.00	15.66
13/6/2006	248.96	0.043	4	1.00	15.66
19/6/2006	248.87	0.023	4	1.00	15.66
25/6/2006	248.82	0.032	4	1.00	15.66

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 13-6-06 Time 15:10

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 June 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
02/06/2006	94.0	94.0	C K Law
06/06/2006	94.0	94.0	C K Law
09/06/2006	94.0	94.0	C K Law
13/06/2006	94.0	94.0	C K Law
16/06/2006	94.0	94.0	C K Law
20/06/2006	94.0	94.0	C K Law
23/06/2006	94.0	94.0	C K Law
27/06/2006	94.0	94.0	C K Law
30/06/2006	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
02/06/2006	94.0	94.0	C K Law
06/06/2006	94.0	94.0	C K Law
09/06/2006	94.0	94.0	C K Law
13/06/2006	94.0	94.0	C K Law
16/06/2006	94.0	94.0	C K Law
20/06/2006	94.0	94.0	C K Law
23/06/2006	94.0	94.0	C K Law
27/06/2006	94.0	94.0	C K Law
30/06/2006	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.