

Appendix G

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: RE Site No.: AM1
 Date of visit: 16-09-2002 Hour of Visit: 10:15
 Staff name: S M Han HVAS S/N: A52
 Used filter paper no.: B26 New filter paper no.: B26
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 28.6^\circ\text{C}$
 30.6 K Pressure, $P_a = 1003$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$. (inch H ₂ O)
1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.41''$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

Manometer reading before calibration: 5.2''
 Adjustment of flow controller (Y/N): Y
 Manometer reading after calibration: 5.4''

Note: Tolerance Limit of HVAS flow: $\pm 1.0 \text{ ft}^3/\text{min}$. Corresponding limits for manometer: $\pm 0.2 \text{ inch H}_2\text{O}$

III. General Conditions of HVAS

11:27 AM. THE HVAS HAS BEEN CLEANED WITH KROHNE & TISSUE.

IV. Remarks

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: EG Site No.: AM2
 Date of visit: 16-9-2002 Hour of Visit: 11:00
 Staff name: ALEX, H.K. TANG HVAS S/N: 21P5
 Used filter paper no.: B27 New filter paper no.: B2P
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = \frac{31.5 + 273}{304.5}$ K Pressure, $P_a = 100^p$ mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$. (inch H_2O)
1534(04/2002)	$\Delta H_a = 18.0(T_a/P_a) = 5.4$
1535(04/2002)	$\Delta H_a = 17.9(T_a/P_a) =$ _____

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: $\pm 1.0 \text{ ft}^3/\text{min}$. Corresponding limits for manometer : $\pm 0.2 \text{ inch H}_2\text{O}$

III. General Conditions of HVAS

IV. Remarks

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name ASH LAKE Site Number AM 3
Date of Visit 17-9-2022 Hour of Visit 11:00
Staff Name W.L. MAK / H.K. TSANG Partisol S/N: 200082055001
Used Filter No.: PA88 New Filter No.: PA89
Ambient temperature: 31.6 Ambient pressure: 1012

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 $\pm 2^{\circ}\text{C}$)

_____ $^{\circ}\text{C}$ Calibration: Y/N _____ $^{\circ}\text{C}$
Before After

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

_____ mbar Calibration: Y/N _____ mbar
Before After

3. Flow Check (16.7 \pm 1.1 litre/min)

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

III. Remarks

MINI VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: TYV Site No.: AM4
Date of visit: 16-09-2002 Hour of Visit: 11:15
Staff name: S.M. Hon MINIVOL S/N: 2050
Used filter paper no.: MF 56 New filter paper no.: MF 57
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

5.048 Before 5.010 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
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

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

Month : Sept Year : 2002

Reservoir (AM1)					
Date	Frequency (Hz) (260 – 280)	Noise (<0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
2-9-2002	262.89	0.012	4	1.00	15.61
8-9-2002	262.37	0.037	4	1.00	15.61
14-9-2002	262.22	0.052	4	1.00	15.67
20-9-2002	261.88	0.042	4	1.00	15.67
26-9-2002	261.63	0.033	4	1.00	15.67

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)
2-9-2002	247.44	0.060	4	1.00	15.62
8-9-2002	246.94	0.045	4	1.00	15.65
14-9-2002	246.76	0.039	4	0.99	15.64
20-9-2002	246.66	0.037	4	1.00	15.65
26-9-2002	245.45	0.031	4	0.99	15.63

Ash Lagoon (AM3)					
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)
2-9-2002	246.27	0.028	4	0.99	15.64
8-9-2002	245.84	0.047	4	0.99	15.64
14-9-2002	246.63	0.035	4	1.00	15.64
20-9-2002	246.52	0.031	4	1.00	15.63
26-9-2002	246.30	0.038	4	0.99	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 16-9-2002 Time 15:45

Equipment Rion NA-27 Sound Level Meter

Serial Number 00111465/00111466/00111467*

Staff Attended W.L. MAK, H.K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 84.0

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 20-8-2002 Time 14:30

Equipment NL31
Rion ~~NA-27~~ Sound Level Meter

Serial Number 00111465/00111466/00111467* 00520618

Staff Attended W.L. MAK ; H.K. TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 14.0

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

SUMMARY OF QUALITY CONTROL DATA – QC SAMPLES RESULTS

Parameter	Control Limit	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value
Suspended Solids mg/L	8.9 – 10.3	P0209A21	9.4	P0209A43	9.3	P0209A65	9.6	P0209A87	9.7	P0209B21	9.4	P0209B43	9.6	P0209B65	9.5
		P0209B87	9.6	P0209C21	9.4	P0209C43	9.5	P0209C65	9.6	P0209C87	9.5	P0209D21	9.5	P0209D43	9.6
		P0209D65	9.4	P0209D87	9.6	P0209E21	9.5	P0209E43	9.6	P0209E65	9.6	P0209E87	9.7	P0209F21	9.6
		P0209F43	9.5	P0209F65	9.6	P0209F87	9.7	P0209G21	9.3	P0209G43	9.5	P0209G65	9.6	P0209G87	9.5
		P0209H21	9.4	P0209H43	9.6	P0209H65	9.3	P0209H87	9.6						

Total:32

SUMMARY OF QUALITY CONTROL DATA – BLANK RESULTS

Parameter	Control Limit	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	
Suspended Solids mg/L	<1	P0209A22	<1	P0209A44	<1	P0209A66	<1	P0209A88	<1	P0209B22	<1	P0209B44	<1	P0209B66	<1	
		P0209B88	<1	P0209C22	<1	P0209C44	<1	P0209C66	<1	P0209C88	<1	P0209D22	<1	P0209D44	<1	
		P0209D66	<1	P0209D88	<1	P0209E22	<1	P0209E44	<1	P0209E66	<1	P0209E88	<1	P0209F22	<1	
		P0209F44	<1	P0209F66	<1	P0209F88	<1	P0209G22	<1	P0209G44	<1	P0209G66	<1	P0209G88	<1	
		P0209H22	<1	P0209H44	<1	P0209H66	<1	P0209H88	<1							

Total:32

