

Appendix F

The QA/QC Procedures and Results

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

Month: November

Year: 2016

Reservoir (AM1)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
5/11/2016	270.640	4	2.97	13.54
11/11/2016	270.097	4	3.04	13.84
17/11/2016	272.501	4	2.99	13.61
23/11/2016	272.044	4	3.03	13.84
29/11/2016	271.679	4	3.06	13.95

East Gate (AM2)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
5/11/2016	253.565	4	3.00	13.69
11/11/2016	256.232	4	3.06	13.96
17/11/2016	255.639	4	3.00	13.74
23/11/2016	255.240	4	3.06	13.94
29/11/2016	254.853	4	3.09	14.10

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 – 275)	Operation Mode (Mode 4)	Main Flow (l/min) (0.90 – 1.10)	Bypass Flow (l/min) (14.10 – 17.20)
5/11/2016	255.857	4	1.00	15.69
11/11/2016	255.691	4	1.00	15.69
17/11/2016	255.499	4	1.00	15.69
23/11/2016	255.376	4	1.00	15.69
29/11/2016	255.269	4	1.00	15.69

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 : CK

Site Name:	<u>RE</u>	Site No.:	<u>AM 1</u>
Date of visit:	<u>16-11-2016</u>	Hour of Visit:	<u>10:00 hrs</u>
Staff name:	<u>W.H.TAM / W.H. MAN</u>	HVAS S/N:	<u>0131</u>
Used filter paper no.:	<u>MH45</u>	New filter paper no.:	<u>MH47</u>
Type of filter:	Glass-fibre		

Temperature, $T_a = 299$ K Pressure, $P_a = 1012.5$ mb

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min.}$ (inch H_2O)
1534(10/2016)	$H_a = 18.32(T_a/P_a) = \underline{5.41}$

Manometer reading before calibration: 560
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 540

III. General Conditions of HVAS

IV. Remarks

Conducted by: WMTAM | WHMAN Checked by: [Signature]

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name: EG Site No.: AM2
Date of visit: 16-11-2016 Hour of Visit: 10:45 hrs
Staff name: W.M.TAM | W.H. MAN HVAS S/N: 0132
Used filter paper no.: MH46 New filter paper no.: MH48
Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, $T_a = 300.0$ K Pressure, $P_a = 1016.3$ 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(10/2016)	$H_a = 18.32(T_a/P_a) = 5.41$

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

✓

Conducted by: W.M.TAM | W.H. MAN Checked by: W.H. MAN

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: Tai Yuen Village Site No.: AM4
Date of visit: 14-11-2016 Hour of Visit: 13:30 hrs
Staff name: W.M.TAM / W.H. MAN MINIVOL S/N: 3393
Used filter paper no.: M061 New filter paper no.: M062

Type of filter: ~~Cellulose~~ / Glass-fibre
(Delete as appropriate)

I. Calibration is performed by using BIOS Flow Meter (S/N: 127823)

5 Sl/min set point is recommended

5.01 Before 5.01 After

II. General Service of Mini Vol Air Sampler

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

III. Remarks

✓

Conducted by: W.M.TAM / W.H. MAN

Checked by: W.M.TAM

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

Location ~~Station Building Rooftop/Reservoir Area/Ching Lam/~~
~~Ash Lagoon/No.2 Limestone Silo Roof/Hung Shing Ye*~~
Date 21-11-2016 Time 11:00 hrs
Equipment B&K 2250 Serial No. 3008903
Staff Attended W.M. TAM / W.H. MAN

1. Calibration

Acoustic calibrator:

B&K 4231 (S/N = 2730419)

Noise level measured in calibration: 93.8 (94±1.0 dBA)

2. Weather Conditions

a. ~~Sunny/fine/cloudy/showery/heavy rain*~~

b. ~~Strong wind/breeze/calm*~~

3. Beacon

Function normally (Yes/No): YES

4. Remark/Observation

/

Note: * - Please delete where inappropriate.

Conducted By: W.M. TAM / W.H. MAN Checked By: Teresa Chu

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

Location ~~Station Building Rooftop/Reservoir Area/Ching Lam/~~
~~Ash Lagoon/No.2 Limestone Silo Roof/Hung Shing Ye*~~

Date 18-11-2016 Time 10:00 hrs

Equipment B&K 2250 Serial No. 3008621

Staff Attended W.M.TAM / W.H.MAN

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2730419)

Noise level measured in calibration: 94.9 (94±1.0 dBA)

2. Weather Conditions

- a. Sunny/~~fine~~/~~cloudy~~/~~showery~~/~~heavy rain~~*
- b. ~~Strong wind~~/~~breeze~~/~~calm~~*

3. Beacon

Function normally (Yes/No): YES

4. Remark/Observation

Note: * - Please delete where inappropriate.

Conducted By: W.M.TAM W.H.MAN Checked By: Teresa Chu

June 2016