

# 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: January

Year: 2016

Reservoir (AM1)				
Date	Frequency (Hz) (240 – 270)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
4/1/2016	266.525	4	3.12	14.21
10/1/2016	266.401	4	3.11	14.22
16/1/2016	266.277	4	3.11	14.22
22/1/2016	259.401	4	3.16	14.42
28/1/2016	258.977	4	3.12	14.21

East Gate (AM2)				
Date	Frequency (Hz) (240 – 270)	Operation Mode (Mode 4)	Main Flow (l/min) (2.70 – 3.30)	Bypass Flow (l/min) (12.30 – 15.04)
4/1/2016	255.781	4	3.08	14.05
10/1/2016	257.711	4	3.08	14.05
16/1/2016	257.690	4	3.08	14.04
22/1/2016	257.217	4	3.14	14.35
28/1/2016	256.678	4	3.11	14.16

Ash Lagoon (AM3)				
Date	Frequency (Hz) (240 – 270)	Operation Mode (Mode 4)	Main Flow (l/min) (0.90 – 1.10)	Bypass Flow (l/min) (14.10 – 17.20)
4/1/2016	264.803	4	1.00	15.70
10/1/2016	264.659	4	1.00	15.70
16/1/2016	264.538	4	1.00	15.70
22/1/2016	264.394	4	1.00	15.70
28/1/2016	264.232	4	1.00	15.70

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 :                     Che



HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: EE Site No.: AM2  
 Date of visit: 21-1-2016 Hour of Visit: 11:50 hrs  
 Staff name: W.M.TAM/W.H.MAN HVAS S/N: 0132  
 Used filter paper no.: MG45 New filter paper no.: MG47  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a =$  291.1 K Pressure,  $P_a =$  1013.9 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 $\text{H}_2\text{O}$ )
1535(10/2015)	$-H_a = 17.93(T_a/P_a) =$ <u>5.2</u>

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

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

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: TYV Site No.: AM4  
Date of visit: 21-1-2016 Hour of Visit: 14:00 hrs  
Staff name: W.M.TAM / W.H.MAN MINIVOL S/N: 3393  
Used filter paper no.: M010 New filter paper no.: M011

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

I. Calibration is performed by using Drycal DC-2 Flow Calibrator  
5 Sl/min set point is recommended  
5.1 Before 5.0 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

/  
\_\_\_\_\_  
\_\_\_\_\_

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

Checked by: W.H.MAN

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 13-1-2016 Time 11:20 a.m.

Equipment RION NA-27 Serial No. 0011465

Staff Attended H.K. TSANG / H.F. Lo

1. Calibration

Acoustic calibrator

B&K 4231

S/N 2343406

Noise level measured in calibration 94.0 (94±1.0 dBA)

2. Weather Conditions

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

b. Strong wind/breeze/calm\*

3. Remark/Observation

Note: \* - Please delete where inappropriate.

Conducted By: Kg / H.F. Lo Checked By: Terence 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 7-1-2016 Time 15:00 p.m.

Equipment B&K 2250 Serial No. 3008621

Staff Attended H.K. TSANG / H.F. LO

1. Calibration

Acoustic calibrator

B&K 4231  
S/N 2343406

Noise level measured in calibration 94.0 (94±1.0 dBA)

2. Weather Conditions

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

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

3. Remark/Observation

✓

---

---

---

---

---

---

---

---

Note: \* - Please delete where inappropriate.

Conducted By: Kg / H.F. LO Checked By: Teresa Chu