

# 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: 2017

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)
4/1/2017	269.425	4	3.08	14.05
10/1/2017	268.769	4	3.10	14.14
16/1/2017	268.148	4	3.15	14.33
22/1/2017	267.523	4	3.13	14.26
28/1/2017	259.116	4	3.14	14.33

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)
4/1/2017	258.952	4	3.04	13.85
10/1/2017	258.353	4	3.06	13.94
16/1/2017	257.672	4	3.11	14.13
22/1/2017	256.982	4	3.09	14.08
28/1/2017	259.542	4	3.10	14.13

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)
4/1/2017	255.458	4	1.00	15.69
10/1/2017	255.266	4	1.00	15.69
16/1/2017	255.087	4	1.00	15.69
22/1/2017	254.887	4	1.00	15.69
28/1/2017	254.664	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:

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Prepared by :                     *Alp*                    

Checked by :                     *Ch*



HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: EG Site No.: AM 2  
 Date of visit: 17-1-2017 Hour of Visit: 15:00 hrs  
 Staff name: W.M.TAM / H.T.PANG HVAS S/N: 0132  
 Used filter paper no.: MH70 New filter paper no.: MH72  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a =$  294.2 K Pressure,  $P_a =$  10169 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 $\text{H}_2\text{O}$ )
1534(10/2016)	$H_a = 18.32(T_a/P_a) =$ <u>5.30</u>

Manometer reading before calibration: 5.10  
 Adjustment of flow controller (Y/N): Y  
 Manometer reading after calibration: 5.30

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

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IV. Remarks

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Conducted by: W.M.TAM / H.T.PANG Checked by: [Signature]

MINI VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: Tai Yuen Village Site No.: AM4  
Date of visit: 17-1-2007 Hour of Visit: 14:00 hrs  
Staff name: W.M.TAM / H.T.PANG MINIVOL S/N: 3393  
Used filter paper no.: MO72 New filter paper no.: MO73

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

I. Calibration is performed by using BIOS Flow Meter (S/N: )  
5 Sl/min set point is recommended  
5.07 Before 5.02 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: ✓
6. Replace Inlet Filter: ✓

III. Remarks

✓  
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Conducted by: W.M.TAM / H.T.PANG

Checked by: H.T.PANG

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 20-1-2017 Time 9:45 hrs  
Equipment B&K 2250 Serial No. 3009916  
Staff Attended W.M. TAM | W.H. MAN

1. Calibration

Acoustic calibrator: B&K 4031 (S/N: 273049)

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

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Note: \* - Please delete where inappropriate.

Conducted By: W.M. TAM | W.H. MAN 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 17-1-2017 Time 15:45 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

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Note: \* - Please delete where inappropriate.

Conducted By: W.M. TAM / W.H. MAN Checked By: Terence Chan