

# 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: July

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)
2/7/2016	258.980	4	2.96	13.48
8/7/2016	258.645	4	2.88	13.12
14/7/2016	258.271	4	2.96	13.45
20/7/2016	257.863	4	2.94	13.39
26/7/2016	257.691	4	2.95	13.46

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)
2/7/2016	257.587	4	2.96	13.51
8/7/2016	257.215	4	2.88	13.13
14/7/2016	257.522	4	2.96	13.47
20/7/2016	257.095	4	2.95	13.41
26/7/2016	257.938	4	2.95	13.47

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)
2/7/2016	264.798	4	1.00	15.69
8/7/2016	266.690	4	1.00	15.69
14/7/2016	264.555	4	1.00	15.69
20/7/2016	264.445	4	1.00	15.69
26/7/2016	264.387	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 :                     

Checked by :

HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: P.E. Site No.: AMI  
 Date of visit: 15.7.2016 Hour of Visit: 9:55  
 Staff name: H.K. ISANVHOL HVAS S/N: 0131  
 Used filter paper no.: MH04 New filter paper no.: MH06  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = 304$  K Pressure,  $P_a = 1002$  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)	$H_a = 17.93(T_a/P_a) = 5.4$

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

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

Carbon brush was replaced on 15/07/2016

Conducted by: K. H. F. 16 Checked by: [Signature]

HIGH VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: E.L. Site No.: AM2  
 Date of visit: 5-7-2016 Hour of Visit: 1030  
 Staff name: H.K. IBAN / H.F.L. HVAS S/N: 0132  
 Used filter paper no.: MH05 New filter paper no.: MH07  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = 305.5$  K Pressure,  $P_a = 1006.0$  mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to $Q_{STD} = 40$ ft <sup>3</sup> /min. (inch H <sub>2</sub> O)
1535(10/2015)	$H_a = 17.93(T_a/P_a) = 5.4$

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

Note: Tolerance Limit of HVAS flow: " 1.0 ft<sup>3</sup>/min. Corresponding limits for manometer : " 0.2 inch H<sub>2</sub>O

III. General Conditions of HVAS

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IV. Remarks

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Conducted by: K.P. / H.F.L. Checked by: [Signature]

MINI VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: TYU Site No.: AMY  
Date of visit: 15.7.2016 Hour of Visit: 11:30  
Staff name: M.K. ISAN/HLEL MINIVOL S/N: 3303  
Used filter paper no.: M040 New filter paper no.: M041

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  
5.00 Before 5.00 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

✓  
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Conducted by: KP / HLEL

Checked by: [Signature]

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 22-7-2016 Time 14:30 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: 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 11-7-2016 Time 14:29

Equipment B&k Type 2250 Serial No. 3008621

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

1. Calibration

Acoustic calibrator: B&k Type 4231, S/N: 2730419  
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. Beacon

Function normally (Yes/~~No~~): YES

4. Remark/Observation

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Note: \* - Please delete where inappropriate.

Conducted By: Kp / H.F. Lo Checked By: Terence Chin