

# 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: May 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)
04/05/2017	271.341	4	3	13.66
10/05/2017	270.850	4	3	13.67
16/05/2017	270.392	4	3	13.67
22/05/2017	261.562	4	3	13.67
28/05/2017	261.277	4	3	13.67

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)
04/05/2017	250.494	4	3	13.67
10/05/2017	250.085	4	3	13.67
16/05/2017	249.835	4	3	13.67
22/05/2017	250.996	4	3	13.67
28/05/2017	250.730	4	3	13.67

Ash Lagoon (AM3)				
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)
04/05/2017	265.520	4	2.92	13.30
10/05/2017	264.991	4	2.94	13.38
16/05/2017	265.945	4	2.90	13.23
22/05/2017	265.638	4	2.92	13.31
28/05/2017	265.249	4	2.93	13.34

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: HY Chan

Checked by: KF Chan

**The Hongkong Electric Co., Ltd.**  
**High Volume Air Sampler Site Visit Log Sheet**

Attendance Log

Site Name: Reservoir (AM1)

Date/Time	Staff Name
17/05/2017 / 10:00	WM Tam / WH Man

Equipment / Item

Equipment / Item	Serial No. / No.
HVAS	0131
Used filter paper no.	MI12
New filter paper no.	MI14

Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, Ta: 301.5 K Pressure, Pa: 1003.8 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions Corresponds to $Q_{STD} = 40$ cubic ft/min. (inch H <sub>2</sub> O)
1534(10/2016)	$H_a = 18.32(T_a/P_a) = \underline{5.50}$

Manometer reading before calibration: 5.30

Adjustment of flow controller (Y/N): Yes

Manometer reading after calibration: 5.50

Note: Tolerance Limit of HVAS flow:  $\pm 1.0$  cubic ft/min. Corresponding limits for manometer :  $\pm 0.2$  inch H<sub>2</sub>O

III. General Conditions of HVAS

N/A

IV. Remarks

N/A

Conducted by: WM Tam / WH Man

Checked by: SM Hon

**The Hongkong Electric Co., Ltd.**  
**High Volume Air Sampler Site Visit Log Sheet**

Attendance Log

Site Name: East Gate (AM2)

Date/Time	Staff Name
17/05/2017 / 13:30	WM Tam / WH Man

Equipment / Item

Equipment / Item	Serial No. / No.
HVAS	0132
Used filter paper no.	MI13
New filter paper no.	MI15

Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, Ta: 302.8 K Pressure, Pa: 1006.6 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions Corresponds to $Q_{STD} = 40$ cubic ft/min. (inch H <sub>2</sub> O)
1534(10/2016)	$H_a = 18.32(T_a/P_a) = \underline{5.51}$

Manometer reading before calibration: 5.50

Adjustment of flow controller (Y/N): No

Manometer reading after calibration: N/A

Note: Tolerance Limit of HVAS flow:  $\pm 1.0$  cubic ft/min. Corresponding limits for manometer :  $\pm 0.2$  inch H<sub>2</sub>O

III. General Conditions of HVAS

N/A

IV. Remarks

N/A

Conducted by: WM Tam / WH Man

Checked by: SM Hon

**The Hongkong Electric Co., Ltd.**  
**Mini Volume Air Sampler Site Visit Log Sheet**

Attendance Log

Site Name: Tai Yuen Village (AM4)

Date/Time	Staff Name
17/05/2017 / 11:00	WH Man WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used filter paper no.	MO93
New filter paper no.	MO94

Type of filter: Glass-fibre

- I. Calibration is performed by using Drycal DC-2 Flow Calibrator  
5 std. L/min set point is recommended

Before: 4.89  
After: 5.01

- II. General Services

1. Clean Rotameter: No
2. Clean / Replace Pump Valves: No
3. Clean / Replace Pump Diaphragms: No
4. Clean Impaction Inlet: No
5. Replace Timer Battery Every 6 months: No
6. Replace Inlet Filter: Yes

Remarks

Conducted by: WH Man WM Tam

Checked by: SM Hon

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station and Lamma Extension**  
**Noise Monitoring Stations**  
**Site Visit Log Sheet**

Location: Ash Lagoon

Date/Time	Staff Attended
12/05/2017 / 15:00	WM Tam / WH Man

Equipment	Serial No.
B&K 2250	3009916

1. Calibration

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

Noise level measured in calibration: 93.6 (94 ±1.0 dBA)

2. Weather Conditions

a. Fine

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

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Conducted by: WM Tam / WH Man

Checked by: TL Chu

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station and Lamma Extension**  
**Noise Monitoring Stations**  
**Site Visit Log Sheet**

Location: Ching Lam

Date/Time	Staff Attended
09/05/2017 / 14:00	WM Tam / WH Man

Equipment	Serial No.
B&K 2250	3008621

1. Calibration

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

Noise level measured in calibration: 93.6 (94 ±1.0 dBA)

2. Weather Conditions

a. Fine

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

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Conducted by: WM Tam / WH Man

Checked by: TL Chu