

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: June 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)
03/06/2017	260.838	4	3.00	13.67
09/06/2017	260.614	4	2.53	13.67
15/06/2017	260.502	4	3.00	13.67
21/06/2017	261.163	4	3.00	13.67
27/06/2017	260.966	4	3.00	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)
03/06/2017	250.392	4	3.00	13.67
09/06/2017	250.242	4	3.00	13.67
15/06/2017	262.460	4	3.00	13.67
21/06/2017	262.163	4	3.00	13.67
27/06/2017	261.816	4	3.00	13.68

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)
03/06/2017	264.834	4	2.86	13.05
09/06/2017	265.991	4	2.87	13.07
15/06/2017	265.644	4	2.87	13.10
21/06/2017	265.403	4	2.88	13.11
27/06/2017	265.128	4	2.88	13.11

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: 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
16/06/2017 / 10:30	WH Man / WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
HVAS	0131
Used filter paper no.	MI22
New filter paper no.	MI24

Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, Ta: 301.8 K Pressure, Pa: 999.6 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions Corresponds to $Q_{STD} = 40$ cubic ft/min. (inch H ₂ O)
1534(10/2016)	$H_a = 18.32(T_a/P_a) = \underline{5.53}$

Manometer reading before calibration: 5.53

Adjustment of flow controller (Y/N): No

Manometer reading after calibration:

Note: Tolerance Limit of HVAS flow: ± 1.0 cubic ft/min. Corresponding limits for manometer : ± 0.2 inch H₂O

III. General Conditions of HVAS

IV. Remarks

Conducted by: WH Man WM Tam

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
16/06/2017 / 11:15	WH Man / WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
HVAS	0132
Used filter paper no.	MI23
New filter paper no.	MI25

Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, Ta: 302.1 K Pressure, Pa: 1003.7 mb

II. Correction of manometer reading

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

Manometer reading before calibration: 5.70

Adjustment of flow controller (Y/N): Yes

Manometer reading after calibration: 5.50

Note: Tolerance Limit of HVAS flow: ± 1.0 cubic ft/min. Corresponding limits for manometer : ± 0.2 inch H₂O

III. General Conditions of HVAS

IV. Remarks

Conducted by: WH Man WM Tam

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
16/06/2017 / 14:30	WH Man / WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used filter paper no.	MO98
New filter paper no.	MO99

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: 5.02
After: 5.02

- II. General Services

1. Clean Rotameter: Yes
2. Clean / Replace Pump Valves: No
3. Clean / Replace Pump Diaphragms: No
4. Clean Impaction Inlet: Yes
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
08/06/2017 / 10:00	WH MAN / HT PANG

Equipment	Serial No.
B&K 2250	3009916

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

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

Conducted by: WH MAN HT PANG

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
05/06/2017 / 10:00	WH MAN / HT PANG

Equipment	Serial No.
B&K 2250	3008621

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

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

Conducted by: WH MAN HT PANG

Checked by: TL Chu