

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: 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)
03/07/2017	260.428	4	3.00	13.68
09/07/2017	260.232	4	3.00	13.68
15/07/2017	260.099	4	3.00	13.68
21/07/2017	259.929	4	3.00	13.68
27/07/2017	261.274	4	3.00	13.68

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)
03/07/2017	261.630	4	3.00	13.67
09/07/2017	261.394	4	3.00	13.67
15/07/2017	261.246	4	3.00	13.67
21/07/2017	261.051	4	3.00	13.67
27/07/2017	262.518	4	3.00	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)
03/07/2017	265.744	4	2.95	13.43
09/07/2017	265.548	4	2.93	13.35
15/07/2017	265.431	4	2.92	13.28
21/07/2017	265.240	4	2.92	13.31
27/07/2017	265.074	4	2.92	13.26

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:

N/A

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
17/07/2017 / 10:45	WM Tam / HT Pang

Equipment / Item

Equipment / Item	Serial No. / No.
HVAS	0131
Used filter paper no.	MI32
New filter paper no.	MI34

Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, Ta: 303.1 K Pressure, Pa: 1002.0 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)	$H_a = 18.32(T_a/P_a) = \underline{5.54}$

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: ± 1.0 cubic ft/min. Corresponding limits for manometer : ± 0.2 inch H₂O

III. General Conditions of HVAS

Good.

IV. Remarks

N/A

Conducted by: WM Tam / HT Pang

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
18/07/2017 / 11:30	WM Tam / HT Pang

Equipment / Item

Equipment / Item	Serial No. / No.
HVAS	0132
Used filter paper no.	MI33
New filter paper no.	MI35

Type of filter: Glass-fibre

I. Ambient Conditions

Temperature, Ta: 300.1 K Pressure, Pa: 1009.8 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions Corresponds to $Q_{STD} = 40$ cubic ft/min. (inch H ₂ O)
1534(10/2016)	$H_a = 18.32(T_a/P_a) = \underline{5.44}$

Manometer reading before calibration: 5.40

Adjustment of flow controller (Y/N): No

Manometer reading after calibration: N/A

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

III. General Conditions of HVAS

Good.

IV. Remarks

N/A

Conducted by: WM Tam / HT Pang

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
24/07/2017 / 10:15	WM Tam / HT Pang / WH Man

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MP04
New filter paper no.	MP05

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: No
5. Replace Timer Battery Every 6 months: Yes
6. Replace Inlet Filter: Yes

Remarks

The ex-Mini-Vol (S/N: 3393) was replaced by the above model TSA-5.0

Conducted by: WM Tam / HT Pang / WH Man
Hon

Checked by: SM

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
12/07/2017 / 10:00	HT Pang / WH Man

Equipment	Serial No.
B&K 2250	3009916

1. Calibration

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

Noise level measured in calibration: 93.8 (94 ±1.0 dBA)

2. Weather Conditions

- a. Sunny
- b. Breeze

3. Beacon

Function normally: Yes

4. Remark/Observation

N/A

Conducted by: HT Pang / 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
13/07/2017 / 11:45	WM Tam

Equipment	Serial No.
B&K 2250	3008621

1. Calibration

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

Noise level measured in calibration: 93.7 (94 ±1.0 dBA)

2. Weather Conditions

a. Sunny

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

N/A

Conducted by: WM Tam

Checked by: TL Chu