

# 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: 2018

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)
05/05/2018	267.485	4	2.97	13.53
11/05/2018	267.019	4	2.98	13.58
17/05/2018	266.621	4	2.91	13.25
23/05/2018	272.073	4	2.87	13.08
29/05/2018	271.665	4	2.87	13.06

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)
05/05/2018	257.440	4	3.02	13.77
11/05/2018	257.104	4	3.03	13.79
17/05/2018	256.760	4	2.96	13.49
23/05/2018	256.527	4	2.91	13.27
29/05/2018	256.019	4	2.91	13.25

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)
05/05/2018	265.843	4	3.02	13.73
11/05/2018	265.462	4	3.03	13.78
17/05/2018	265.184	4	2.97	13.51
23/05/2018	265.042	4	2.79	13.47
29/05/2018	265.872	4	2.95	13.46

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter	✓	✓	✓
Pump Repair	X	X	X
Leak Check	✓	✓	✓
Flow audit	✓	✓	✓
Flow Controller Calibration	✓	✓	✓
A/C filter cleaning	✓	✓	✓

Remarks:

N/A

Prepared by: HY Chan

Checked by: HY Ho

**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
16/05/2018 / 15:15	WM Tam / PH Chan

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MP53
New filter paper no.	MP54

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

N/A

Conducted by: WM Tam / PH Chan

Checked by: SM Hon

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station Extension**  
**Noise Monitoring Stations**  
**Daily Calibration Records**

Date	Location: Ash Lagoon		Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/05/2018	Passed	-0.01	Passed	0.02
02/05/2018	Passed	0.01	Passed	0.02
03/05/2018	Passed	-0.03	Passed	-0.05
04/05/2018	Passed	0.05	Passed	0.00
05/05/2018	Passed	-0.03	Passed	0.01
06/05/2018	Passed	-0.02	Passed	0.03
07/05/2018	Passed	-0.02	Passed	0.05
08/05/2018	Passed	-0.02	Passed	0.00
09/05/2018	Passed	0.11	Passed	-0.03
10/05/2018	Passed	-0.05	Passed	0.00
11/05/2018	Passed	-0.02	Passed	-0.01
12/05/2018	Passed	-0.01	Passed	0.02
13/05/2018	Passed	-0.02	Passed	0.03
14/05/2018	Passed	0.01	Passed	0.05
15/05/2018	Passed	0.02	Passed	0.05
16/05/2018	Passed	0.02	Passed	0.04
17/05/2018	Passed	0.01	Passed	0.03
18/05/2018	Passed	0.01	Passed	0.07
19/05/2018	Passed	0.01	Passed	0.06
20/05/2018	Passed	0.01	Passed	0.04
21/05/2018	Passed	0.03	Passed	0.07
22/05/2018	Passed	0.04	Passed	0.05
23/05/2018	Passed	0.04	Passed	0.06
24/05/2018	Passed	0.03	Passed	0.06
25/05/2018	Passed	0.05	Passed	0.07
26/05/2018	Passed	0.02	Passed	0.05
27/05/2018	Passed	0.04	Passed	0.04
28/05/2018	Passed	0.04	Passed	0.06
29/05/2018	Passed	0.04	Passed	0.05
30/05/2018	Passed	0.03	Passed	0.05
31/05/2018	Passed	0.03	Passed	0.07

Remarks:

1. The B&K sound level meter at the noise monitoring station has an advanced feature of internal calibration checking (viz. Charge Injection Calibration (CIC)). CIC is a B&K patented method for in situ verification of the integrity of the entire sound measurement chain (including microphone, preamplifier and cabling).
2. The acceptance criterion of deviation from reference is  $\pm 0.5$  dB.