

# Appendix F

The QA/QC Procedures and Results

**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)
01/10/2018	Passed	-0.04	Passed	0.03
02/10/2018	Passed	-0.04	Passed	0.02
03/10/2018	Passed	-0.04	Passed	0.00
04/10/2018	Passed	-0.07	Passed	-0.01
05/10/2018	Passed	-0.05	Passed	-0.01
06/10/2018	Passed	-0.04	Passed	0.04
07/10/2018	Passed	-0.05	Passed	0.00
08/10/2018	Passed	-0.04	Passed	-0.01
09/10/2018	Passed	-0.03	Passed	-0.04
10/10/2018	Passed	-0.07	Passed	-0.03
11/10/2018	Passed	-0.07	Passed	-0.02
12/10/2018	Passed	-0.05	Passed	0.00
13/10/2018	Passed	-0.07	Passed	-0.02
14/10/2018	Passed	-0.08	Passed	-0.01
15/10/2018	Passed	-0.03	Passed	0.02
16/10/2018	Passed	-0.07	Passed	-0.02
17/10/2018	Passed	-0.09	Passed	-0.03
18/10/2018	Passed	-0.09	Passed	-0.03
19/10/2018	Passed	0.00	Passed	-0.04
20/10/2018	Passed	-0.09	Passed	0.00
21/10/2018	Passed	-0.04	Passed	-0.01
22/10/2018	Passed	-0.01	Passed	-0.01
23/10/2018	Passed	-0.01	Passed	0.00
24/10/2018	Passed	-0.01	Passed	-0.01
25/10/2018	Passed	-0.01	Passed	0.01
26/10/2018	Passed	0.02	Passed	-0.01
27/10/2018	Passed	-0.02	Passed	-0.01
28/10/2018	Passed	-0.02	Passed	-0.02
29/10/2018	Passed	-0.02	Passed	-0.01
30/10/2018	Passed	0.03	Passed	-0.02
31/10/2018	Passed	0.02	Passed	0.01

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.

**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
15/10/2018 / 10:30	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MP79
New filter paper no.	MP80

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: 4.973  
After: 5.017

- 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

Checked by: SM Hon

**The Hongkong Electric Co., Ltd.**  
**Lamma Power Station Extension**  
**TEOM Continuous Dust Monitor**  
**Data Quality Assurance Log Sheet**

Month: October 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)
02/10/2018	271.435	4	2.88	13.11
08/10/2018	270.439	4	2.88	13.10
14/10/2018	272.002	4	2.90	13.23
20/10/2018	271.539	4	2.93	13.37
26/10/2018	270.982	4	2.89	13.14

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)
02/10/2018	259.576	4	2.95	13.44
08/10/2018	258.681	4	2.94	13.43
14/10/2018	258.147	4	2.98	13.56
20/10/2018	257.733	4	3.00	13.70
26/10/2018	259.740	4	2.98	13.56

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)
02/10/2018	258.735	4	3.00	13.66
08/10/2018	257.757	4	3.00	13.67
14/10/2018	257.186	4	3.00	13.67
20/10/2018	256.781	4	3.00	13.67
26/10/2018	258.442	4	3.00	13.66

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