

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: September Year: 2019

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)
03/09/2019	268.671	4	2.87	13.10
09/09/2019	268.383	4	2.86	13.02
15/09/2019	268.102	4	2.86	13.05
21/09/2019	267.454	4	2.87	13.07
27/09/2019	269.248	4	2.90	13.20

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)
03/09/2019	256.537	4	2.93	13.35
09/09/2019	256.179	4	2.91	13.26
15/09/2019	255.889	4	2.93	13.37
21/09/2019	255.217	4	2.92	13.30
27/09/2019	254.396	4	2.95	13.44

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)
03/09/2019	258.160	4	3.00	13.67
09/09/2019	257.909	4	3.00	13.67
15/09/2019	257.657	4	3.00	13.67
21/09/2019	257.018	4	3.00	13.67
27/09/2019	256.664	4	3.00	13.67

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: Chris Chan

Checked by: HY Chan

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
17/09/2019 / 13:00	WM Tam / HM Chan

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MQ36
New filter paper no.	MQ37

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: 5.026
After: 5.026

- 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 / HM Chan

Checked by: SM Hon

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
Noise Monitoring Station
Daily Calibration Record

Date	Location: Ash Lagoon	
	Calibration Results	Deviation from Reference (dB)
01/09/2019	Passed	-0.04
02/09/2019	Passed	-0.03
03/09/2019	Passed	-0.01
04/09/2019	Passed	-0.05
05/09/2019	Passed	-0.02
06/09/2019	Passed	0.02
07/09/2019	Passed	0.03
08/09/2019	Passed	0.03
09/09/2019	Passed	0.02
10/09/2019	Passed	0.01
11/09/2019	Passed	0.02
12/09/2019	Passed	0.08
13/09/2019	Passed	0.04
14/09/2019	Passed	0.02
15/09/2019	Passed	0.04
16/09/2019	Passed	0.04
17/09/2019	Passed	0.04
18/09/2019	Passed	0.01
19/09/2019	Passed	0.03
20/09/2019	Passed	0.02
21/09/2019	Passed	0.05
22/09/2019	Passed	0.00
23/09/2019	Passed	-0.02
24/09/2019	Passed	-0.01
25/09/2019	Passed	-0.01
26/09/2019	Passed	0.01
27/09/2019	Passed	0.00
28/09/2019	Passed	0.02
29/09/2019	Passed	0.04
30/09/2019	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 ± 0.5 dB.

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

Location: Ching Lam

Date/Time	Staff Attended
05/09/2019 / 11:00	WM Tam / Eric Ku

Equipment	Serial No.
B&K 2250	3008903

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2343406)

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

2. Weather Conditions

a. Fine

b. Calm

3. Beacon

Function normally: Yes

4. Remark/Observation

N/A

Prepared by: WM Tam

Checked by: TL Chu