

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

Month: December 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)
06/12/2017	270.041	4	3.06	13.96
12/12/2017	268.878	4	3.08	14.01
18/12/2017	271.308	4	3.16	14.41
24/12/2017	270.255	4	3.04	13.87
30/12/2017	269.300	4	3.08	14.01

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)
06/12/2017	257.866	4	3.05	13.91
12/12/2017	256.671	4	3.06	13.97
18/12/2017	255.947	4	3.16	14.39
24/12/2017	259.409	4	3.03	13.80
30/12/2017	258.499	4	3.06	13.95

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)
06/12/2017	263.855	4	3.04	13.86
12/12/2017	262.707	4	3.05	13.91
18/12/2017	262.093	4	3.13	14.25
24/12/2017	265.400	4	3.04	13.83
30/12/2017	264.551	3	3.07	13.96

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:

NA

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
20/12/2017 / 10:00	WH MAN

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	29
New filter paper no.	30

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: 5.12
After: 5.03

- II. General Services

1. Clean Rotameter: No
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

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)
01/12/2017	Passed	0.02	Passed	-0.03
02/12/2017	Passed	0.01	Passed	-0.02
03/12/2017	Passed	0.02	Passed	-0.04
04/12/2017	Passed	0.02	Passed	-0.05
05/12/2017	Passed	-0.01	Passed	-0.06
06/12/2017	Passed	-0.02	Passed	-0.03
07/12/2017	Passed	0.02	Passed	-0.03
08/12/2017	Passed	0.01	Passed	-0.08
09/12/2017	Passed	-0.01	Passed	-0.08
10/12/2017	Passed	0.01	Passed	-0.04
11/12/2017	Passed	0.00	Passed	-0.04
12/12/2017	Passed	0.01	Passed	-0.03
13/12/2017	Passed	-0.01	Passed	-0.01
14/12/2017	Passed	0.01	Passed	-0.03
15/12/2017	Passed	0.01	Passed	-0.03
16/12/2017	Passed	-0.02	Passed	-0.08
17/12/2017	Passed	-0.03	Passed	-0.10
18/12/2017	Passed	-0.03	Passed	-0.08
19/12/2017	Passed	0.02	Passed	-0.06
20/12/2017	Passed	0.01	Passed	-0.07
21/12/2017	Passed	-0.02	Passed	-0.10
22/12/2017	Passed	0.00	Passed	-0.06
23/12/2017	Passed	0.03	Passed	-0.04
24/12/2017	Passed	0.06	Passed	-0.03
25/12/2017	Passed	-0.01	Passed	-0.05
26/12/2017	Passed	0.01	Passed	-0.07
27/12/2017	Passed	-0.01	Passed	-0.05
28/12/2017	Passed	0.00	Passed	-0.05
29/12/2017	Passed	-0.01	Passed	-0.03
30/12/2017	Passed	0.01	Passed	-0.03
31/12/2017	Passed	0.00	Passed	-0.05

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.