

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

Month: October

Year: 2021

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)
3/10/2021	268.065	4	2.98	10.63
9/10/2021	269.714	4	2.95	9.39
15/10/2021	269.292	4	2.96	9.58
21/10/2021	268.914	4	2.99	9.90
27/10/2021	268.493	4	2.99	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)
3/10/2021	250.450	4	2.98	13.60
9/10/2021	250.062	4	2.91	13.50
15/10/2021	249.561	4	2.78	13.61
21/10/2021	251.724	4	3.00	13.70
27/10/2021	251.249	4	3.00	13.70

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)
3/10/2021	255.855	4	3.00	13.68
9/10/2021	255.744	4	3.00	13.68
15/10/2021	255.560	4	1.53	13.68
21/10/2021	257.202	4	3.00	13.68
27/10/2021	256.845	4	3.00	13.68

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
18/10/2021 / 10:30	W.M. Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR64
New filter paper no.	MR65

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: 5.041
After: 5.011 (After Flow Adjustment)

- II. General Services

- | | |
|--|-----------|
| 1. Clean Rotameter: | Yes |
| 2. Clean / Replace Pump Valves: | <u>No</u> |
| 3. Clean / Replace Pump Diaphragms: | <u>No</u> |
| 4. Clean Impaction Inlet: | Yes |
| 5. Replace Timer Battery Every 6 months: | <u>No</u> |
| 6. Replace Inlet Filter: | Yes |

Remarks

N/A

Conducted by: W.M. Tam

Checked by: SM Hon

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

Date	Location: Ash Lagoon		Location: Ching Lam	
	Calibration Results	Deviation from Reference (dB)	Calibration Results	Deviation from Reference (dB)
01/10/2021	Passed	-0.04	Passed	-0.06
02/10/2021	Passed	-0.05	Passed	-0.07
03/10/2021	Passed	-0.06	Passed	-0.04
04/10/2021	Passed	-0.04	Passed	-0.03
05/10/2021	Passed	-0.03	Passed	-0.02
06/10/2021	Passed	-0.11	Passed	-0.12
07/10/2021	Passed	-0.11	Passed	-0.05
08/10/2021	Passed	-0.04	Passed	-0.12
09/10/2021	Passed	-0.08	Passed	-0.07
10/10/2021	Passed	-0.05	Passed	-0.03
11/10/2021	Passed	-0.09	Passed	-0.10
12/10/2021	Passed	-0.10	Passed	-0.05
13/10/2021	Passed	-0.07	Passed	-0.08
14/10/2021	Passed	-0.08	Passed	-0.08
15/10/2021	Passed	-0.07	Passed	-0.08
16/10/2021	Passed	-0.10	Passed	-0.10
17/10/2021	Passed	-0.09	Passed	-0.10
18/10/2021	Passed	-0.09	Passed	-0.09
19/10/2021	Passed	-0.07	Passed	-0.08
20/10/2021	Passed	-0.11	Passed	-0.14
21/10/2021	Passed	-0.13	Passed	-0.17
22/10/2021	Passed	-0.12	Passed	-0.12
23/10/2021	Passed	-0.12	Passed	-0.13
24/10/2021	Passed	-0.08	Passed	-0.10
25/10/2021	Passed	-0.07	Passed	-0.08
26/10/2021	Passed	-0.08	Passed	-0.09
27/10/2021	Passed	-0.09	Passed	-0.10
28/10/2021	Passed	-0.08	Passed	-0.09
29/10/2021	Passed	-0.09	Passed	-0.11
30/10/2021	Passed	-0.08	Passed	-0.09
31/10/2021	Passed	-0.08	Passed	-0.08

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.