

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

Month: January

Year: 2023

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)
3/1/2023	270.713	4	3.02	10.31
9/1/2023	270.022	4	2.97	10.31
15/1/2023	269.704	4	2.96	10.31
21/1/2023	269.127	4	3.01	10.31
27/1/2023	268.486	4	3.03	10.31

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)
3/1/2023	263.658	4	2.08	14.42
9/1/2023	263.268	4	2.09	14.10
15/1/2023	263.500	4	2.36	14.19
21/1/2023	262.956	4	2.20	14.16
27/1/2023	262.492	4	2.16	14.28

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)
3/1/2023	256.707	4	2.20	13.68
9/1/2023	256.264	4	2.04	13.68
15/1/2023	256.037	4	1.98	13.68
21/1/2023	257.034	4	2.68	13.68
27/1/2023	256.452	4	2.30	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
16/01/2023 / 10:15	WM Tam / Brian So

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS40
New filter paper no.	MS41

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: 5.037
After: 5.037 (No Adjustment)

- 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 / Brian So

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)
01/01/2023	Passed	-0.04	Passed	0.02
02/01/2023	Passed	-0.07	Passed	0.03
03/01/2023	Passed	-0.06	Passed	0.03
04/01/2023	Passed	-0.04	Passed	0.04
05/01/2023	Passed	-0.06	Passed	0.04
06/01/2023	Passed	-0.03	Passed	0.03
07/01/2023	Passed	-0.05	Passed	0.03
08/01/2023	Passed	-0.05	Passed	0.03
09/01/2023	Passed	-0.06	Passed	0.03
10/01/2023	Passed	-0.05	Passed	0.04
11/01/2023	Passed	-0.03	Passed	0.04
12/01/2023	Passed	-0.05	Passed	0.06
13/01/2023	Passed	-0.04	Passed	0.07
14/01/2023	Passed	-0.06	Passed	0.01
15/01/2023	Passed	-0.09	Passed	-0.01
16/01/2023	Passed	-0.10	Passed	-0.01
17/01/2023	Passed	-0.09	Passed	-0.01
18/01/2023	Passed	-0.07	Passed	-0.02
19/01/2023	Passed	-0.06	Passed	-0.01
20/01/2023	Passed	-0.05	Passed	-0.01
21/01/2023	Passed	-0.05	Passed	-0.03
22/01/2023	Passed	-0.05	Passed	0.04
23/01/2023	Passed	-0.09	Passed	0.02
24/01/2023	Passed	-0.10	Passed	0.03
25/01/2023	Passed	-0.08	Passed	0.03
26/01/2023	Passed	-0.09	Passed	0.04
27/01/2023	Passed	-0.10	Passed	0.03
28/01/2023	Passed	-0.11	Passed	0.02
29/01/2023	Passed	-0.08	Passed	0.05
30/01/2023	Passed	-0.06	Passed	0.06
31/01/2023	Passed	-0.04	Passed	0.06

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.