

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

Month: February

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)
1/2/2023	267.749	4	2.92	10.31
7/2/2023	270.299	4	2.94	10.31
13/2/2023	269.897	4	2.91	10.31
19/2/2023	269.248	4	2.90	10.31
25/2/2023	268.397	4	3.00	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)
1/2/2023	262.218	4	2.04	14.05
7/2/2023	267.530	4	3.01	13.68
13/2/2023	267.265	4	3.00	13.67
19/2/2023	266.544	4	3.00	13.66
25/2/2023	265.554	4	3.00	13.67

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)
1/2/2023	255.913	4	2.18	13.68
7/2/2023	255.631	4	2.06	13.69
13/2/2023	255.480	4	2.04	13.68
19/2/2023	255.148	4	1.90	13.68
25/2/2023	257.456	4	2.80	13.69

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
14/02/2023 / 14:00	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS45
New filter paper no.	MS46

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: 5.025
After: 5.025 (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

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)
01/02/2023	Passed	0.01	Passed	0.05
02/02/2023	Passed	-0.05	Passed	0.09
03/02/2023	Passed	-0.05	Passed	0.05
04/02/2023	Passed	-0.06	Passed	0.05
05/02/2023	Passed	-0.03	Passed	0.09
06/02/2023	Passed	-0.02	Passed	0.07
07/02/2023	Passed	-0.04	Passed	0.08
08/02/2023	Passed	-0.03	Passed	0.09
09/02/2023	Passed	0.00	Passed	0.08
10/02/2023	Passed	0.00	Passed	0.07
11/02/2023	Passed	-0.03	Passed	0.09
12/02/2023	Passed	-0.03	Passed	0.05
13/02/2023	Passed	-0.06	Passed	0.07
14/02/2023	Passed	-0.08	Passed	0.07
15/02/2023	Passed	-0.08	Passed	0.04
16/02/2023	Passed	-0.06	Passed	0.08
17/02/2023	Passed	-0.04	Passed	0.09
18/02/2023	Passed	-0.01	Passed	0.09
19/02/2023	Passed	-0.05	Passed	0.08
20/02/2023	Passed	-0.06	Passed	0.04
21/02/2023	Passed	-0.09	Passed	0.03
22/02/2023	Passed	-0.06	Passed	0.05
23/02/2023	Passed	-0.05	Passed	0.06
24/02/2023	Passed	-0.07	Passed	0.05
25/02/2023	Passed	-0.06	Passed	0.06
26/02/2023	Passed	-0.07	Passed	0.06
27/02/2023	Passed	-0.07	Passed	0.07
28/02/2023	Passed	-0.06	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.