

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

Month: July

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)
1/7/2023	269.650	4	2.87	10.31
7/7/2023	269.210	4	2.81	10.31
13/7/2023	268.912	4	2.80	10.31
19/7/2023	268.506	4	2.84	10.31
25/7/2023	268.314	4	2.78	10.31
31/7/2023	267.829	4	2.82	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)
1/7/2023	266.769	4	3.00	13.66
7/7/2023	266.259	4	3.00	13.66
13/7/2023	265.755	4	3.00	13.66
19/7/2023	265.294	4	3.00	13.66
25/7/2023	265.050	4	3.00	13.66
31/7/2023	264.434	4	3.00	13.66

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)
1/7/2023	257.454	4	2.23	13.68
7/7/2023	257.919	4	3.00	13.67
13/7/2023	257.775	4	3.00	13.68
19/7/2023	257.489	4	2.21	13.68
25/7/2023	257.369	4	2.11	13.68
31/7/2023	257.144	4	1.29	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
14/07/2023 / 14:45	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS70
New filter paper no.	MS71

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: 5.042
After: 5.042 (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
Site Visit Log Sheet

Location: Ching Lam

Date/Time	Staff Attended
27/7/2023 / 14:00	WM Tam/Brian So

Equipment	Serial No.
B&K 2250	3024738

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 3014754)

Noise level measured in calibration: 93.9 (94 ±1.0 dBA)

2. Weather Conditions

- a. Fine
- b. Calm

3. Remark/Observation

N/A

Prepared by: Brian So

Checked by: WM Tam

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

Date	Location: Ash Lagoon	
	Calibration Results	Deviation from Reference (dB)
01/07/2023	Passed	-0.02
02/07/2023	Passed	-0.02
03/07/2023	Passed	0
04/07/2023	Passed	-0.01
05/07/2023	Passed	-0.01
06/07/2023	Passed	0.02
07/07/2023	Passed	0.02
08/07/2023	Passed	0.03
09/07/2023	Passed	0.01
10/07/2023	Passed	0.02
11/07/2023	Passed	0.04
12/07/2023	Passed	0.03
13/07/2023	Passed	0.03
14/07/2023	Passed	0.03
15/07/2023	Passed	0.04
16/07/2023	Passed	0
17/07/2023	Passed	0.04
18/07/2023	Passed	0
19/07/2023	Passed	0.01
20/07/2023	Passed	0.01
21/07/2023	Passed	0.02
22/07/2023	Passed	0.02
23/07/2023	Passed	0.03
24/07/2023	Passed	0.03
25/07/2023	Passed	0.04
26/07/2023	Passed	0.05
27/07/2023	Passed	0.04
28/07/2023	Passed	0.04
29/07/2023	Passed	0
30/07/2023	Passed	0.03
31/07/2023	Passed	0.03

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.