

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

Month: January

Year: 2022

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)
01/01/2022	264.368	4	3.09	13.08
07/01/2022	269.201	4	3.03	10.31
13/01/2022	268.572	4	3.06	10.31
19/01/2022	267.896	4	3.01	10.31
25/01/2022	267.565	4	3.04	10.31
31/01/2022	267.194	4	3.09	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)
01/01/2022	247.320	4	2.71	14.25
07/01/2022	249.856	4	3.06	14.06
13/01/2022	249.202	4	3.02	14.21
19/01/2022	248.563	4	2.70	14.16
25/01/2022	248.288	4	2.71	14.08
31/01/2022	247.920	4	2.11	14.24

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)
01/01/2022	253.367	4	3.01	13.69
07/01/2022	252.862	4	2.98	13.68
13/01/2022	252.392	4	2.56	13.68
19/01/2022	251.948	4	2.30	13.68
25/01/2022	254.468	4	3.00	13.68
31/01/2022	254.166	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
21/01/2022 / 10:00	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MR80
New filter paper no.	MR81

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: 5.026
After: 5.026

- 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: Yes
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)
01/01/2022	Passed	-0.14	Passed	-0.15
02/01/2022	Passed	-0.14	Passed	-0.17
03/01/2022	Passed	-0.14	Passed	-0.13
04/01/2022	Passed	-0.13	Passed	-0.14
05/01/2022	Passed	-0.12	Passed	-0.13
06/01/2022	Passed	-0.14	Passed	-0.16
07/01/2022	Passed	-0.14	Passed	-0.18
08/01/2022	Passed	-0.14	Passed	-0.16
09/01/2022	Passed	-0.13	Passed	-0.17
10/01/2022	Passed	-0.16	Passed	-0.19
11/01/2022	Passed	-0.15	Passed	-0.19
12/01/2022	Passed	-0.15	Passed	-0.16
13/01/2022	Passed	-0.15	Passed	-0.16
14/01/2022	Passed	-0.14	Passed	-0.16
15/01/2022	Passed	-0.13	Passed	-0.13
16/01/2022	Passed	-0.13	Passed	-0.17
17/01/2022	Passed	-0.14	Passed	-0.14
18/01/2022	Passed	-0.15	Passed	-0.15
19/01/2022	Passed	-0.14	Passed	-0.16
20/01/2022	Passed	-0.15	Passed	-0.16
21/01/2022	Passed	-0.14	Passed	-0.17
22/01/2022	Passed	-0.13	Passed	-0.15
23/01/2022	Passed	-0.12	Passed	-0.14
24/01/2022	Passed	-0.14	Passed	-0.18
25/01/2022	Passed	-0.14	Passed	-0.17
26/01/2022	Passed	-0.13	Passed	-0.16
27/01/2022	Passed	-0.14	Passed	-0.13
28/01/2022	Passed	-0.15	Passed	-0.19
29/01/2022	Passed	-0.15	Passed	-0.18
30/01/2022	Passed	-0.16	Passed	-0.19
31/01/2022	Passed	-0.17	Passed	-0.21

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.