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

Month: October 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)
4/10/2022	267.657	4	2.85	10.31
10/10/2022	271.169	4	2.92	10.31
16/10/2022	270.257	4	2.85	10.31
22/10/2022	269.324	4	2.89	10.31
28/10/2022	268.685	4	2.88	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)
4/10/2022	265.340	4	2.95	13.44
10/10/2022	265.012	4	2.88	13.88
16/10/2022	264.116	4	2.16	13.28
22/10/2022	263.454	4	2.38	13.70
28/10/2022	263.110	4	2.16	13.68

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)
4/10/2022	257.125	4	2.60	13.68
10/10/2022	256.786	4	2.31	13.68
16/10/2022	256.189	4	2.12	13.67
22/10/2022	258.280	4	3.00	13.69
28/10/2022	257.746	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
19/10/2022 / 10:15	WM Tam

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	5580
Used filter paper no.	MS25
New filter paper no.	MS26

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: 5.041 (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)
01/10/2022	Passed	0.03	Passed	0.02
02/10/2022	Passed	0.04	Passed	0.06
03/10/2022	Passed	0.03	Passed	0.04
04/10/2022	Passed	0.07	Passed	0.05
05/10/2022	Passed	0.03	Passed	0.04
06/10/2022	Passed	0.03	Passed	0.05
07/10/2022	Passed	0.04	Passed	0.02
08/10/2022	Passed	0.02	Passed	0.03
09/10/2022	Passed	0.01	Passed	0.02
10/10/2022	Passed	0.00	Passed	0.00
11/10/2022	Passed	-0.01	Passed	-0.02
12/10/2022	Passed	0.00	Passed	-0.01
13/10/2022	Passed	0.00	Passed	0.01
14/10/2022	Passed	0.03	Passed	0.01
15/10/2022	Passed	0.04	Passed	0.03
16/10/2022	Passed	0.03	Passed	0.01
17/10/2022	Passed	-0.05	Passed	-0.07
18/10/2022	Passed	-0.01	Passed	-0.02
19/10/2022	Passed	0.00	Passed	-0.01
20/10/2022	Passed	-0.02	Passed	-0.02
21/10/2022	Passed	0.01	Passed	0.02
22/10/2022	Passed	0.02	Passed	-0.01
23/10/2022	Passed	-0.04	Passed	-0.02
24/10/2022	Passed	-0.04	Passed	-0.03
25/10/2022	Passed	-0.03	Passed	-0.03
26/10/2022	Passed	-0.03	Passed	0.00
27/10/2022	Passed	-0.01	Passed	-0.02
28/10/2022	Passed	0.00	Passed	0.00
29/10/2022	Passed	0.02	Passed	0.00
30/10/2022	Passed	0.02	Passed	0.00
31/10/2022	Passed	-0.05	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.