

# Appendix F

## The QA/QC Procedures and Results

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

Month: February

Year: 2024

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)
2/2/2024	268.046	4	2.91	10.31
8/2/2024	270.675	4	3.01	10.31
14/2/2024	270.147	4	2.93	10.31
20/2/2024	269.692	4	2.88	10.31
26/2/2024	269.235	4	2.96	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)
2/2/2024	266.729	4	2.98	13.64
8/2/2024	267.421	4	2.98	13.64
14/2/2024	266.499	4	2.98	13.64
20/2/2024	267.370	4	2.98	13.64
26/2/2024	266.645	4	2.98	13.64

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)
2/2/2024	256.908	4	1.96	12.14
8/2/2024	257.892	4	2.90	11.97
14/2/2024	257.426	4	2.24	12.69
20/2/2024	257.590	4	2.59	11.53
26/2/2024	257.279	4	1.98	12.92

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
28/2/2024 / 11:00	David Tsang

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used Filter Paper No.	MT09
New Filter Paper No.	MT10

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: 5.00  
 After: 5.00 (No Adjustment)

II. General Services

1. Clean Rotameter:	<u>Yes</u>
2. Clean / Replace Pump Valves:	<u>No</u>
3. Clean / Replace Pump Diaphragms	<u>No</u>
4. Clean Impaction Inlet:	<u>Yes</u>
5. Replace Timer Battery Every 6 months:	<u>No</u>
6. Replace Inlet Filter	<u>Yes</u>

III. Remarks

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Conducted by: David Tsang 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)
01/02/2024	Passed	-0.07	Passed	-0.11
02/02/2024	Passed	-0.06	Passed	-0.11
03/02/2024	Passed	-0.08	Passed	-0.12
04/02/2024	Passed	-0.07	Passed	-0.12
05/02/2024	Passed	-0.06	Passed	-0.12
06/02/2024	Passed	-0.10	Passed	-0.11
07/02/2024	Passed	-0.14	Passed	-0.14
08/02/2024	Passed	-0.13	Passed	-0.18
09/02/2024	Passed	-0.15	Passed	-0.15
10/02/2024	Passed	-0.11	Passed	-0.15
11/02/2024	Passed	-0.09	Passed	-0.13
12/02/2024	Passed	-0.08	Passed	-0.14
13/02/2024	Passed	-0.09	Passed	-0.12
14/02/2024	Passed	-0.08	Passed	-0.12
15/02/2024	Passed	-0.06	Passed	-0.1
16/02/2024	Passed	-0.07	Passed	-0.11
17/02/2024	Passed	-0.07	Passed	-0.12
18/02/2024	Passed	-0.07	Passed	-0.09
19/02/2024	Passed	-0.07	Passed	-0.10
20/02/2024	Passed	-0.06	Passed	-0.07
21/02/2024	Passed	-0.04	Passed	-0.06
22/02/2024	Passed	-0.06	Passed	-0.07
23/02/2024	Passed	-0.09	Passed	-0.10
24/02/2024	Passed	-0.08	Passed	-0.13
25/02/2024	Passed	-0.09	Passed	-0.12
26/02/2024	Passed	-0.09	Passed	-0.13
27/02/2024	Passed	-0.09	Passed	-0.14
28/02/2024	Passed	-0.09	Passed	-0.12
29/02/2024	Passed	-0.10	Passed	-0.17

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  $\pm 0.5$  dB.