

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: January

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)
3/1/2024	266.868	4	2.95	10.31
9/1/2024	270.165	4	2.92	10.31
15/1/2024	269.541	4	2.93	10.31
21/1/2024	268.992	4	2.95	10.31
27/1/2024	268.383	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)
3/1/2024	267.672	4	2.98	13.64
9/1/2024	266.545	4	2.98	13.64
15/1/2024	265.692	4	2.98	13.64
21/1/2024	265.075	4	2.98	13.64
27/1/2024	267.322	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)
3/1/2024	257.442	4	2.58	13.32
9/1/2024	256.910	4	2.05	13.41
15/1/2024	256.521	4	1.90	13.48
21/1/2024	257.535	4	2.29	13.13
27/1/2024	257.129	4	1.97	12.91

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
24/1/2024 / 11:30	David Tsang

Equipment / Item

Equipment / Item	Serial No. / No.
MINIVOL	3393
Used Filter Paper No.	MT03
New Filter Paper No.	MT04

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: 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

III. Remarks

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)
01/01/2024	Passed	-0.10	Passed	-0.12
02/01/2024	Passed	-0.09	Passed	-0.12
03/01/2024	Passed	-0.08	Passed	-0.15
04/01/2024	Passed	-0.10	Passed	-0.14
05/01/2024	Passed	-0.08	Passed	-0.12
06/01/2024	Passed	-0.08	Passed	-0.10
07/01/2024	Passed	-0.08	Passed	-0.13
08/01/2024	Passed	-0.09	Passed	-0.10
09/01/2024	Passed	-0.09	Passed	-0.12
10/01/2024	Passed	-0.07	Passed	-0.10
11/01/2024	Passed	-0.09	Passed	-0.11
12/01/2024	Passed	-0.08	Passed	-0.11
13/01/2024	Passed	-0.07	Passed	-0.10
14/01/2024	Passed	-0.07	Passed	-0.09
15/01/2024	Passed	-0.06	Passed	-0.09
16/01/2024	Passed	-0.08	Passed	-0.10
17/01/2024	Passed	-0.08	Passed	-0.14
18/01/2024	Passed	-0.06	Passed	-0.10
19/01/2024	Passed	-0.06	Passed	-0.10
20/01/2024	Passed	-0.06	Passed	-0.11
21/01/2024	Passed	-0.09	Passed	-0.12
22/01/2024	Passed	-0.16	Passed	-0.19
23/01/2024	Passed	-0.17	Passed	-0.18
24/01/2024	Passed	-0.16	Passed	-0.15
25/01/2024	Passed	-0.11	Passed	-0.16
26/01/2024	Passed	-0.12	Passed	-0.20
27/01/2024	Passed	-0.11	Passed	-0.15
28/01/2024	Passed	-0.10	Passed	-0.15
29/01/2024	Passed	-0.09	Passed	-0.15
30/01/2024	Passed	-0.09	Passed	-0.13
31/01/2024	Passed	-0.08	Passed	-0.10

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.