

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: March

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)
3/3/2024	268.641	4	2.96	10.31
9/3/2024	270.844	4	2.97	10.31
15/3/2024	270.145	4	2.92	10.31
21/3/2024	269.502	4	2.93	10.31
27/3/2024	268.908	4	2.91	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)
3/3/2024	267.174	4	2.98	13.64
9/3/2024	267.130	4	2.98	13.64
15/3/2024	266.012	4	2.98	13.64
21/3/2024	267.271	4	2.98	13.64
27/3/2024	266.420	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)
3/3/2024	257.008	4	1.82	12.39
9/3/2024	256.658	4	1.72	12.69
15/3/2024	257.278	4	2.25	12.49
21/3/2024	256.763	4	1.99	12.43
27/3/2024	256.390	4	1.88	11.80

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
26/3/2024 / 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

Conducted by: David Tsang Checked by: SM Hon

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
Noise Monitoring Station
Site Visit Log Sheet

Location: Ash Lagoon

Date/Time	Staff Attended
19/3/2023 / 10:50	Brian So / Thomas Ho

Equipment	Serial No.
B&K 2250	3008621

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2376422)

Noise level measured in calibration: 94.0 (94 ±1.0 dBA)

2. Weather Conditions

a. Fine

b. Calm

3. Remark/Observation

N/A

Prepared by: Thomas Ho

Checked by: Brian So

The Hongkong Electric Co., Ltd.
Lamma Power Station Extension
Noise Monitoring Station
Site Visit Log Sheet

Location: Ching Lam

Date/Time	Staff Attended
8/3/2023 / 10:00	Brian So / Thomas Ho

Equipment	Serial No.
B&K 2250	3008903

1. Calibration

Acoustic calibrator: B&K 4231 (S/N: 2376422)

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: Thomas Ho

Checked by: Brian So

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)
01/03/2024	Passed	-0.15	Passed	-0.21
02/03/2024	Passed	-0.14	Passed	-0.18
03/03/2024	Passed	-0.14	Passed	-0.15
04/03/2024	Passed	-0.05	Passed	-0.10
05/03/2024	Passed	-0.06	Passed	-0.08
06/03/2024	Passed	-0.06	Passed	-0.10
07/03/2024	Passed	-0.09	Passed	-0.11
08/03/2024	Passed	-0.07	Passed	-0.10
09/03/2024	Passed	-0.10	Passed	-0.12
10/03/2024	Passed	-0.12	Passed	-0.15
11/03/2024	Passed	-0.09	Passed	-0.14
12/03/2024	Passed	-0.09	Passed	-0.12
13/03/2024	Passed	-0.06	Passed	-0.13
14/03/2024	Passed	-0.09	Passed	-0.12
15/03/2024	Passed	-0.09	Passed	-0.11
16/03/2024	Passed	-0.07	Passed	-0.10
17/03/2024	Passed	-0.05	Passed	-0.07
18/03/2024	Passed	-0.08	Passed	-0.12
19/03/2024	Passed	-0.07	Passed	-0.10
20/03/2024	Passed	0.00	Passed	-0.11
21/03/2024	Passed	-0.09	Passed	-0.13
22/03/2024	Passed	-0.07	Passed	-0.09
23/03/2024	Passed	-0.05	Passed	-0.09
24/03/2024	Passed	-0.04	Passed	-0.09
25/03/2024	Passed	-0.04	Passed	-0.06
26/03/2024	Passed	-0.03	Passed	-0.06
27/03/2024	Passed	-0.09	Passed	-0.09
28/03/2024	Passed	-0.06	Passed	-0.08
29/03/2024	Passed	-0.06	Passed	-0.06
30/03/2024	Passed	-0.05	Passed	-0.07
31/03/2024	Passed	-0.06	Passed	-0.06

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.