

# Appendix F

The QA/QC Procedures and Results

**HIGH VOLUME AIR SAMPLER**  
**SITE VISIT LOG SHEET**

Site Name: RE Site No.: AM1  
 Date of visit: 14-4-2005 Hour of Visit: 1040  
 Staff name: W L MAK HVAS S/N: 2198  
 Used filter paper no.: LS10 New filter paper no.: LS12  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{273 + 21.1}{294.1} \text{ K}$  Pressure,  $P_a = \underline{1017} \text{ mb}$

II. Correction of manometer reading

| Calibration orifice No. | Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$ . (inch H <sub>2</sub> O) |
|-------------------------|--|
| 1534(09/2004)           | $\Delta H_a = 18.33(T_a/P_a) = \underline{5.30}$   |

Manometer reading before calibration: 5.00  
 Adjustment of flow controller (Y/N): Y  
 Manometer reading after calibration: 5.30

Note: Tolerance Limit of HVAS flow:  $\pm 1.0 \text{ ft}^3/\text{min}$ . Corresponding limits for manometer :  $\pm 0.2 \text{ inch H}_2\text{O}$

III. General Conditions of HVAS

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IV. Remarks

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**HIGH VOLUME AIR SAMPLER**  
**SITE VISIT LOG SHEET**

Site Name: EG Site No.: AM2  
 Date of visit: 14-4-2005 Hour of Visit: 0950  
 Staff name: W L MAK/HK TSANG HVAS S/N: 2195  
 Used filter paper no.: LS11 New filter paper no.: LS13  
 Type of filter: Glass-fibre

I. Ambient Conditions

Temperature,  $T_a = \frac{273 + 21.2^\circ}{294.2^\circ} \text{K}$  Pressure,  $P_a = \underline{1020} \text{ mb}$

II. Correction of manometer reading

| Calibration orifice No. | Manometer reading at site conditions corresponds to $Q_{STD} = 40 \text{ ft}^3/\text{min}$ . (inch H <sub>2</sub> O) |
|-------------------------|--|
| 1534(09/2004)           | $\Delta H_a = 18.33(T_a/P_a) = \underline{5.28}$   |

Manometer reading before calibration: 5.40  
 Adjustment of flow controller (Y/N): N  
 Manometer reading after calibration: 5.40

Note: Tolerance Limit of HVAS flow:  $\pm 1.0 \text{ ft}^3/\text{min}$ . Corresponding limits for manometer :  $\pm 0.2 \text{ inch H}_2\text{O}$

III. General Conditions of HVAS

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IV. Remarks

\_\_\_\_\_  
 \_\_\_\_\_

PARTISOL TSP SAMPLER  
SITE VISIT LOG SHEET

Site Name ASH LAGOON Site Number AM 3  
Date of Visit 14-4-2005 Hour of Visit 13 40  
Staff Name W. L. MAIC / H.K. TSANG Partisol S/N: 2000B205500001  
Used Filter No.: PC 51 New Filter No.: PC 52  
Ambient temperature: 25.6° Ambient pressure: 1019

I. General Services

1. Replace control unit Large In-line Filter X
2. Clean the sample inlet head ✓
3. Clean sample tube ✓
4. Clean / Replace pump head X
5. Clean / Replace piston X

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check (Ambient temperature  $\pm 2^\circ\text{C}$ )

26.0 °C Calibration: X/N 26.0 °C  
Before After

2. Pressure Check (Ambient pressure  $\pm 20$  mbar)(factor = 0.000987)

1.006 mbar Calibration: X/N 1019.25 mbar  
Before After

3. Flow Check (16.7  $\pm$  1.1 litre/min)

16.70 cc/min Calibration: X/N 16.70 cc/min  
Before

III. REMARKS

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MINI VOLUME AIR SAMPLER  
SITE VISIT LOG SHEET

Site Name: T.Y.V. Site No.: AM4  
Date of visit: 14-4-05 Hour of Visit: 10:30  
Staff name: H.K. TSANG MINIVOL S/N: 33P3  
Used filter paper no.: MH36 New filter paper no.: MH37

Type of filter: ~~Cellulose~~ / Glass-fibre  
(Delete as appropriate)

- I. Calibration is performed by using Drycal DC-2 Flow Calibrator  
5 Sl/min set point is recommended

5.00 Before 5.00 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / ~~replace~~ Pump Valves: ✓
3. Clean / replace Pump Diaphragms: ✓
4. Clean Impaction Inlet: X
5. Replace Timer Battery Every 6 months: X
6. Replace Inlet Filter: ✓

III. Remarks

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**THE HONGKONG ELECTRIC CO., LTD.  
LAMMA POWER STATION EXTENSION  
TEOM 1400A CONTINUOUS DUST MONITOR  
DATA QUALITY ASSURANCE LOG SHEET**

Month : April Year : 2005

| Reservoir (AM1) |                               |                  |                            |                                    |                                      |
|-----------------|-------------------------------|------------------|----------------------------|------------------------------------|--------------------------------------|
| Date            | Frequency (Hz)<br>(230 - 260) | Noise<br>(< 0.1) | Operation Mode<br>(Mode 4) | Main Flow (l/min)<br>(0.94 - 1.06) | Aux. Flow (l/min)<br>(14.67 - 16.67) |
| 1/4/2005        | 256.56                        | 0.039            | 4                          | 1.00                               | 15.66                                |
| 7/4/2005        | 256.09                        | 0.039            | 4                          | 1.00                               | 15.68                                |
| 13/4/2005       | 255.90                        | 0.029            | 4                          | 1.00                               | 15.68                                |
| 19/4/2005       | 255.39                        | 0.042            | 4                          | 1.00                               | 15.68                                |
| 25/4/2005       | 255.18                        | 0.037            | 4                          | 1.00                               | 15.68                                |

| East Gate (AM2) |                               |                  |                            |                                    |                                      |
|-----------------|-------------------------------|------------------|----------------------------|------------------------------------|--------------------------------------|
| Date            | Frequency (Hz)<br>(230 - 250) | Noise<br>(< 0.1) | Operation Mode<br>(Mode 4) | Main Flow (l/min)<br>(0.94 - 1.06) | Aux. Flow (l/min)<br>(14.67 - 16.67) |
| 1/4/2005        | 245.41                        | 0.064            | 4                          | 1.00                               | 15.64                                |
| 7/4/2005        | 244.96                        | 0.068            | 4                          | 1.00                               | 15.65                                |
| 13/4/2005       | 244.76                        | 0.046            | 4                          | 0.99                               | 15.66                                |
| 19/4/2005       | 245.77                        | 0.045            | 4                          | 0.99                               | 15.64                                |
| 25/4/2005       | 245.55                        | 0.037            | 4                          | 1.00                               | 15.65                                |

| Ash Lagoon (AM3) |                               |                  |                            |                                    |                                      |
|------------------|-------------------------------|------------------|----------------------------|------------------------------------|--------------------------------------|
| Date             | Frequency (Hz)<br>(240 - 270) | Noise<br>(< 0.1) | Operation Mode<br>(Mode 4) | Main Flow (l/min)<br>(0.94 - 1.06) | Aux. Flow (l/min)<br>(14.67 - 16.67) |
| 1/4/2005         | 248.11                        | 0.046            | 4                          | 1.01                               | 15.69                                |
| 7/4/2005         | 247.72                        | 0.024            | 4                          | 1.01                               | 15.69                                |
| 13/4/2005        | 247.54                        | 0.071            | 4                          | 1.00                               | 15.68                                |
| 19/4/2005        | 247.07                        | 0.032            | 4                          | 1.00                               | 15.68                                |
| 25/4/2005        | 246.88                        | 0.017            | 4                          | 1.01                               | 15.68                                |

| 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:

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Prepared by : Alex.

Checked by : Ch



THE HONGKONG ELECTRIC CO., LTD.  
LAMMA POWER STATION EXTENSION  
NOISE MONITORING STATION  
SITE VISIT LOG SHEET

Location Ash Lagoon/~~Ching Lam~~\*

Date 14-4-05 Time 14:00

Equipment Rion NA-27/~~B&K-2238E\*~~ Sound Level Meter

Serial Number .00111465/00111466/00111467/2343838/2356907\*

Staff Attended W.L.MAK ; H.K.TSANG

1. Calibration

Acoustic calibrator used Rion NC-74

Calibration level before adjustment (dB(A)) 94.0

Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

a. ~~Sunny/fine/cloudy/showery/heavy rain\*~~

b. ~~Strong wind/breeze/calm\*~~

3. Remark/Observation

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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Note: \* - Please delete where inappropriate



## Equipment Calibration Record for April 2005

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used: RION NL-31

Calibrator Used: RION NC-74

Measurement Location: N4 – Pak Kok Tsui No. 2

| Date       | Calibration Level before Measurement (dB(A)) | Calibration Level after Measurement (dB(A)) | Calibrated by |
|------------|--|---|---------------|
| 01/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 06/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 09/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 12/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 13/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 15/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 19/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 22/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 26/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 29/04/2005 | 94.0   | 94.0  | Anthony Wong  |

Measurement Location: N5 – Pak Kok Tsui No. 8

| Date       | Calibration Level before Measurement (dB(A)) | Calibration Level after Measurement (dB(A)) | Calibrated by |
|------------|--|---|---------------|
| 01/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 06/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 09/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 12/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 13/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 15/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 19/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 22/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 26/04/2005 | 94.0   | 94.0  | Anthony Wong  |
| 29/04/2005 | 94.0   | 94.0  | Anthony Wong  |

Note: Measurement accepted as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.