



ChemVi Laboratory Sdn. Bhd. (514202-D)



ISO 14001
Registration No.: UKAS 6423



ISO 14001 : 1996
Registration No.: 1002



ISO/IEC 17025
TESTING
SAMM NO. 213

Correspondence

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Airefresh Industries (M) Sdn. Bhd.

**Confine area air sampling and testing by using
air fresher equipment [A'Fresh Revitalisor,
Airepeutic Solution (Natural Fresh)]**

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**On
13-15 October 2004**

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LAB. NO. : LW/1004/8516(1)
DATE MONITORED : 13,14 & 15 October 2004
DATE REPORTED : 20 October 2004

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1.0 Introduction

Chemvi Laboratory Sdn. Bhd. was engaged by Airefresh Industries (M) Sdn. Bhd. to conduct air sampling and analysis by using air fresher equipment in confined area for dust, microbe(TPC) and VOC's.

The monitoring was conducted for 0 hours, 24 hours and 48 hours during normal working condition. The objective of the monitoring is to determine the effectiveness of air fresher equipments in removing or minimizing the existing airborne contaminant in place of work or living area. Determination of levels exposure and comply to the Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous To Health, Regulation 2000, Schedule 1)

Details of the monitoring are as follows: -

1.1 Date and Time of Sampling

13-15 October 2004 (24 hours by using air fresher equipments)

1.2 Sampling Personnel

- a) Dr. Shanmugam Suberamaniam
(Registered Chemist with Malaysian Institute of Chemistry, Associate No. A1690/2640/96/99)

Client : Airefresh Industries (M) Sdn. Bhd.

Project Ref : Air fresher equipments

1.3 Sampling Point

Sample ID	Test parameter	Test method	Sampling Time/Period
Office admin area (confined room)	Dust	NIOSH 0600	0 hours (13/10/04 ,9.00am)
			24 hours (14/10/04 ,9.00am)
			48 hours (15/10/04 ,9.00am)
Office admin area (confined room)	Microbe (TPC)	Air sampling (Colony count)	0 hours (13/10/04 ,9.00am)
			24 hours (14/10/04 ,9.00am)
			48 hours (15/10/04 ,9.00am)
Office admin area (confined room)	VOC's (smoke)	NIOSH 1500	0 hours (13/10/04 ,9.00am)
			24 hours (14/10/04 ,9.00am)
			48 hours (15/10/04 ,9.00am)

2.0 Methodology

Monitoring methods are based on National Institute of Occupational Safety & Health (NIOSH) method.

3.0 Results

Table 1: Analysis Result for Office admin area(confined room) by using air fresher equipment.

Test parameter	Test method	Sampling Time/Period	Results
Dust	NIOSH 0600	0 hours (13/10/04 ,9.00am)	10.2mg/m ³
		24 hours (14/10/04 ,9.00am)	4.3mg/m ³
		48 hours (15/10/04 ,9.00am)	2.3mg/m ³
Microbe (TPC)	Air sampling (Colony count)	0 hours (13/10/04 ,9.00am)	420 cfu
		24 hours (14/10/04 ,9.00am)	210 cfu
		48 hours (15/10/04 ,9.00am)	76 cfu
VOC's (smoke)	NIOSH 1500	0 hours (13/10/04 ,9.00am)	7.5 ppm
		24 hours (14/10/04 ,9.00am)	1.0 ppm
		48 hours (15/10/04 ,9.00am)	ND (<0.1) ppm

Notes:

Permissible exposure limit:

Dust 10mg/m³

TPC 500 cfu

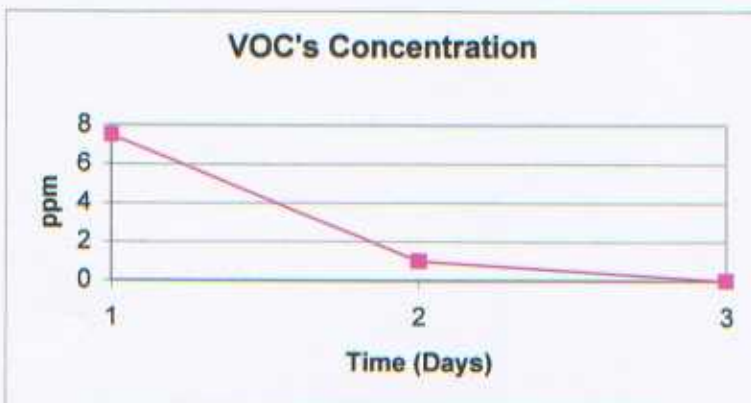
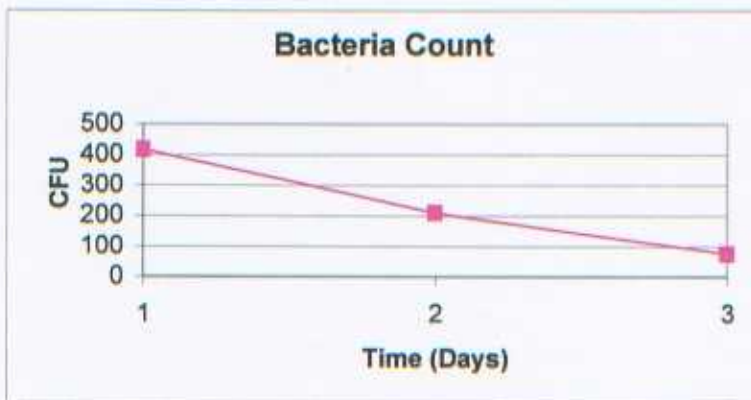
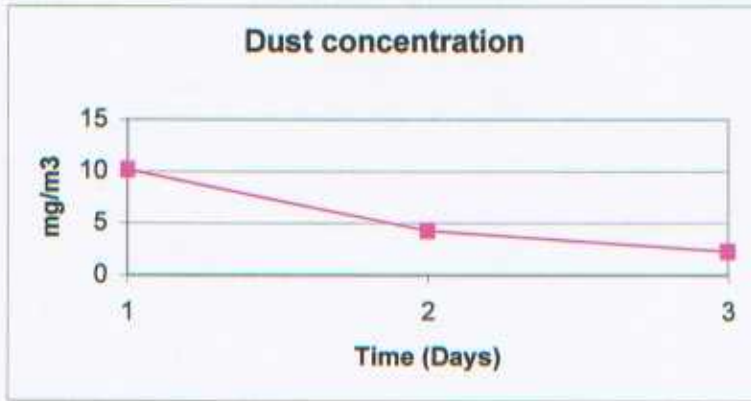
VOC (Formaldehyde) 0.3ppm

[Occupational safety and Health (use and standards of exposure of chemicals hazardous to health), Regulation 2000, Schedule I]

Client : Airefresh Industries (M) Sdn. Bhd.

Project Ref : Air fresher equipments

4.0 Inference



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The results obtain from analysis conducted indicating the air fresher equipment with AIREPEUTIC solution are able to REDUCE the air borne contaminants for Dust 78% (48 Hours), Microbe 82% (TPC) (48 Hours) and VOC's (Volatile Organic Compounds) more than 99% (48 Hours) for the confined area estimated volume 1000m³. Testing is done in a normal working environment

Prepared by,



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