


## Environmental Documents

**Request 19: Engineering reports and environmental reports regarding radioactive material storage, lead based paint, asbestos containing materials, underground storage tanks, medical waste disposal areas, solid waste disposal, and mold and methane gas at West Los Angeles**



84. West Los Angeles Asbestos & Lead Abatement Report (fiscal 2003)

# **Industrial Hygiene**

## **WLA Asbestos & Lead Abatement Work FY 2003**

# ASBESTOS & LEAD PROJECTS

## FIRST QUARTER

BLDG	ROOM/AREA	DATE
212	16	10/18/02
212	16	10/23/02
212	5-West; 5-East	10/23/02
157	FIRST FLOOR	11/06/02
208	118	11/07/02
300	11B	11/21/02
114	108B	12/05/02
208	112	12/10/02
256	16	12/10/02
300	CRAWL SPACE	12/27/02

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

**4. EMPLOYEE INFORMATION**

NAME OF EMPLOYEE	SSN N/A	JOB TITLE
------------------	------------	-----------

ADDRESS (Street, City, State & Zip Code)

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 10-17-02 and 10-18-02  
**Project:** Removal of Floor Tile & Mastic under the Carpet  
Wet Method Removal under Negative Air Exhaust, HEPA Vacuum and 2 stage Full containment.  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 212 Room: 16 Floor: Basement

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	SAMPLE 5	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BL/PCM 10/17	Area/PCM 10/17	Area/PCM 10/18	Area/PCM 10/18	CL/TEM 10/18	Area/PCM
b. SAMPLE SUBMISSION NO.	02102121601	02102121602	02102121603	02102121604	02102121605	
c. TIME ON	08:40	12:30	08:30	08:31	13:00	
d. TIME OFF	10:40	15:30	12:20	12:21	15:00	
e. TOTAL TIME (in minutes)	120	180	230	230	120	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	10 L/M	10 L/M	10 L/M	10 L/M	10 L/M	
g. VOLUME (in liters)	1200	1800	2300	2300	1200	

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

a. PERCENTAGE												
b. Date : 09-12-02												
SUBSTANCE	UNIT	RESU LT	UNIT	RESUL T	UNIT	RESUL T	UNIT	RESU LT	UNIT	RES ULT	UNIT	RESUL T
Asbestos	F/CC	0.0053	F/CC	0.002	F/CC	0.001	F/CC	0.002	TEM	ND		

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy // TEM

8. IH COMMENTS TO LABORATORY  
 PCM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 10-18-02	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI- BRATION DATE 10-17/18-02	10d. FLOW RATE CALCULATIONS 10 l/min
11. NAME & JOB TITLE (Person Performing Sampling) James Spencer		DATE 10/17-18/02	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

Date: 10/17/02 and 10/18/02

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement 10/18/02 Dates: 10/17/02 and \_\_\_\_\_

Location: VA Hospital Bldg, 212 Floor Basement Room 16

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: 9"X9" Floor Tiles and Mastic

Quantity of ACM: 150 Sq. Ft.

Abatement Type & Method(s): Non-Friable/ Wet Method/Full Containment/HEPA Vacuum/Negative Exhaust

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Fit Tested: Yes  No

Worker Annual Medical Current: Yes  No

Safety Meeting: Yes  No

Notification to: SCAQMD Yes  No   
Date: \_\_\_\_\_

CAL/OSHA Yes  No   
Date: \_\_\_\_\_

I. Administrative Controls:

A. Asbestos Caution Sign(s) at Worksite Entrance: Yes  No

B. Employees in Building Notified of Abatement: Yes  No

C. Competent Person Outside of Work Area: Yes  No

D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes  No

B. Contractor Calibrated Pumps: Yes  No

C. Contractor's AIHA PAT Lab: \_\_\_\_\_

D. VAMC - IH Monitoring:

1. Personal (VA): Yes  No  Worker's Name/SS #: \_\_\_\_\_

2. Pre-Tests: 02-102121601

3. Perimeter: \_\_\_\_\_

4. Inside Work Area: 02102121602, 03, 04

5. Clearance: 02102121605

6. VAIH Laboratory: EMS Laboratory

Contractor's PPE:

A. Respirator Type & Manufacturer: North Half Face

B. Coveralls: X Hoods & Boots: Yes X No     

C. Respirator Suitable for Anticipated Fiber Levels: Yes X No     

IV. Engineering Controls:

A. Glovebags: Yes      No X Properly Taped to Pipes: Yes      No X

B. Containment: Yes X No      Thickness of Polyethylene: 6Mil 2ply

C. Proper Decon: Yes X No      No. Chambers: 2 Shower: Yes No X

D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No     

E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Vac. Only Yes X No     

F. Adeq. Neg. Pressure Diff. in Containment Yes X No     

G. Amended Water Used: Yes X No      How Applied: Spray

H. External AFD Filters Replaced Daily: Yes X No     

I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No     

J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No     

K. Encapsulation: Yes X No      Name & Type: Foster 32-60

L. Work Area Ready for Clearance Air Testing Yes X No     

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 212, Floor Basement, Rooms 16 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 10/18/02 are as follows:

Bldg. <u>212</u>	Floor: <u>Basement</u> Room: <u>16</u>	<u>ND</u> Structures/mm <sup>2</sup>
	Floor: <u>    </u> Room: <u>    </u>	<u>    </u> Structures/mm <sup>2</sup>
	Floor: <u>    </u> Room: <u>    </u>	<u>    </u> fibers/cc
	Floor: <u>    </u> Room: <u>    </u>	<u>    </u> fibers/cc

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer

James Spencer

**NIOSH FIBER COUNT (METHOD 7400 REVISION 3, A RULES)  
Phase Contrast Microscopy of Air Samples**

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 82428 Filter Area: 385  
 Client: VAGLAHS Field Area: 0.00785MM  
 Attention: B SPIVEY Filter Size: 25MM  
 File Name: 82428VAGLAHS.AIR Filter Type: MCE  
 Reference: BLDG. 112 RM. 16 Mag: 400x  
 Date Received: 10-21-2002  
 Date Analysed: 10-24-2002  
 Date Sampled: 10-17-18-2002

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
021021216-01	100	13	17	6376	1200.0	0.0053	0.0022	0.0327	0.0004
021021216-02	100	8	10	3924	1800.0	0.002	0.0015	0.0218	0.0003
021021216-03	100	7	9	3433	2300.0	0.001	0.0012	0.0171	0.0002
021021216-04	100	9	11	4414	2300.0	0.002	0.0012	0.0171	0.0002

LOD - LIMIT OF DETECTION (7 FIBERS/Sq.mm) ANL-SENT - ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ - LIMIT OF QUANTIFICATION (80 FIBERS/Sq.mm) N.A. - NOT AVAILABLE N.D. - NONE DETECTED

AIHA Registered Asbestos Analyst  
 I.D. 3276 S. AHMAD

*S. Ahmad*

B.M. Kolk, Laboratory Director

*B.M. Kolk*

Intralaboratory Sr. is taken as 0.45 Intralaboratory Sr. is 0.3  
 Confidence Interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5787**

DATE: October 29, 2002  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.,  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P. O. No. 691-CI0949  
Bldg. 212, Rm. 16  
REPORT NO: 82428.1  
DATE COLLECTED: October 17, 18, 2002 by Kenny H.  
DATE RECEIVED: October 21, 2002 at 0730  
DATE ANALYZED: October 21, 2002  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ASBESTOS ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as:

0210221216 05 CI

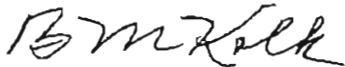
The air sample was analyzed by the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," October 30, 1987, final rule under AHERA.

No asbestos was detected; the analytical sensitivity is 0.005 structures per cubic centimeter.

The test report is enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B.M. Kolk  
Laboratory Director

✓copy: Zainul Abedin

*Note: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.*

*This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.*

*Any deviation or exclusion from the test method is noted in this cover letter.*

*Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.*

84-7



# RESULTS OF AIR FILTER ANALYSIS by TEM, *Asbestos Structures*

▶ EMS Laboratory No. 62428.1  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/21/02 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/21/02 ▶ Fax Results \_\_\_\_\_

<b>DIRECT PREP</b> <input checked="" type="checkbox"/>	<b>ASPECT RATIO</b>	<b>STRUCTURE SIZE</b>
<b>INDIRECT PREP</b> <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> >5 μm Length
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	≥0.5 μm Length <input checked="" type="checkbox"/> PCM Range*
LEVEL II <input type="checkbox"/>		≥1 μm Length <input type="checkbox"/> * (≥.25 μm Width, ≥5.0 μm Length)

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	95% CONFIDENCE LEVELS		
			Structures/mm	Analytical Sensitivity	Lower Limit Upper Limit

2102121605	1200	N.D.	N.D.	0.005	0	0.02
------------	------	------	------	-------	---	------

84-8  
TEM - 3A (1200)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments:

SUBMITTAL FORM/Laboratory Services

82428

PAGE  OF

TURNAROUND TIME: STD  48 HR.  24 HR.   
 <8 HR.  WKND  OTHER:

RELINQUISHED BY \_\_\_\_\_  
 TIME / DATE \_\_\_\_\_

CLIENT VA CLARS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) BLDg 212

TELEPHONE \_\_\_\_\_  
 CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA  VERBAL  FAX   
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

CLIENT FAX NO. 310-268-4831

DATE/TIME OF SAMPLE COLLECTION 10-17/10-18

SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT 5 SAMPLER'S NAME Ben Spivey Kenny  
SIGNATURE PRINTED

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT (IF APPLICABLE)
82428-1	021021215 01	BL	Rm 1b	PCM	1200
2	021021216 02	Rm	"	"	1800
3	021021216 03	LEM	"	"	2300
4	021021216 04	Rm	"	"	2300
428.1-5	021021216 05	CL	"	TEM	1200
<p><i>also Notify Zaniel 818-547-1330 of              818-547-1331 FAX              TEM SAMPLE MONDAY</i></p>					

FOR EMU (SF 5100)

82428

L 82428.1

Received By [Signature] Time 5:10

Date of Package Delivery 10-18-02 ~ 10-21-02 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt GOOD Condition of Custody Seal N/A

NOTE: If the package has sustained substantial damage, or the custody seal is broken, stop and contact the project manager and the shipper.

No. of Samples 5 Date of Acceptance into Sample Bank 10-21-02 Chain-of-Custody Signature \_\_\_\_\_

Disposition of Samples EMS Labs Misc. Info \_\_\_\_\_

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

<b>4. EMPLOYEE INFORMATION</b>		
NAME OF EMPLOYEE <b>[REDACTED]</b>	SSN <b>N/A</b>	JOB TITLE
ADDRESS (Street, City, State & Zip Code)		

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)
---------------------------------------	-------------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space Is Needed Use Reverse).

**Date:** 10/22/02  
**Project:** Removal of Linoleum Flooring & Mastic under the Carpet  
**Wet Method Removal under Negative Air Exhaust, HEPA Vacuum and 2 stage Full containment.**  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 212 Room: 16 Floor: Basement

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

5. SAMPLING INFORMATION						
(Fill In Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04 10/23	SAMPLE 5	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BL/PCM	Area/PCM	Area/PCM	CL/TEM		Area/PCM
b. SAMPLE SUBMISSION NO.	0210AX212-01	0210AX212-02	0210AX212-03	0210AX21216-4		
c. TIME ON	09:20	13:32	13:30	09:30		
d. TIME OFF	11:20	15:40	15:45	11:30		
e. TOTAL TIME (In minutes)	120	128	135	120		
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> C/min	10 L/M	10 L/M	10 L/M	10		
g. VOLUME (In liters)	1200	1280	1350	1200		

6. RESULTS (For Laboratory Use)

P = PPM    M = mg/m3    F = Fibers    C = Ceiling    T = Time Weighted Average

a. PERCENTAGE  
b. Date : 09-12-02

SUBSTANCE ↓	UNIT	RESU LT	UNIT	RESUL T	UNIT	RESUL T	UNIT	RESU LT	UNIT	RESU LT	UNIT	RESUL T
Asbestos	F/CC	0.003	F/CC	0.003	F/CC	0.011	TEM	ND				

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy  
 Transmission Electron Microscopy (TEM)

8. IHC COMMENTS TO LABORATORY  
 PCM

9a. ANALYTICAL LABORATORY NAME  
**EMS Laboratories**

AIHA ACCREDITATION NUMBER  
**NVLAP # 101218**

9b. ADDRESS  
 117 West Bellevue Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE <b>23-02</b>	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI- BRATION DATE 10-22/23-02	10d. FLOW RATE CALCULATIONS 10 l/min
--	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>10/22-23/02</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	----------------------------	---

84-10

Date: 10/22/02  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT  
Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement Dates: 10/22/02

Location: VA Hospital Bldg. 212 Floor Basement Room 16

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Linoleum Flooring & Mastic Under Carpet

Quantity of ACM: 150 Sq. Ft.

Abatement Type & Method(s): Non-Friable/ Wet Method/Full Containment/HEPA Vacuum/Negative Exhaust

Contractor Licensed & Registered: Yes  No  
Worker Training Current: Yes  No  
Worker Annual Medical Current: Yes  No  
Notification to: SCAQMD Yes  No  
Date: \_\_\_\_\_  
Fit Tested: Yes  No  
Safety Meeting: Yes  No  
CAL/OSHA Yes  No  
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes  No
- B. Employees in Building Notified of Abatement: Yes  No
- C. Competent Person Outside of Work Area: Yes  No
- D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes No
- B. Contractor Calibrated Pumps: Yes  No
- C. Contractor's AIHA PAT Lab: \_\_\_\_\_
- D. VAMC - IH Monitoring:
  - 1. Personal (VA): Yes No  Worker's Name/SS #: \_\_\_\_\_
  - 2. Pre-Tests: 0210AX212-01
  - 3. Perimeter: 0210AX212-03

4. Inside Work Area: 0210AX212-02
5. Clearance: 0210AX21216-04 on 10/23/02
6. VAIH Laboratory: EMS Laboratory

I. Contractor's PPE:

- A. Respirator Type & Manufacturer: North Half Face
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glovebags: Yes      No X Properly Taped to Pipes: Yes      No X
- B. Containment: Yes X No      Thickness of Polyethylene: 6Mil 2 ply
- C. Proper Decon: Yes X No      No. Chambers: 2 Shower: Yes No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Vac. Only Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes X No      Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 212, Floor Basement, Rooms 16 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 10/23/02 are as follows:
- |                  |                        |                   |             |                            |
|------------------|------------------------|-------------------|-------------|----------------------------|
| Bldg. <u>212</u> | Floor: <u>Basement</u> | Room: <u>16</u>   | <u>ND</u>   | Structures/mm <sup>2</sup> |
|                  | Floor: <u>    </u>     | Room: <u>    </u> | <u>    </u> | Structures/mm <sup>2</sup> |
|                  | Floor: <u>    </u>     | Room: <u>    </u> | <u>    </u> | fibers/cc                  |
|                  | Floor: <u>    </u>     | Room: <u>    </u> | <u>    </u> | fibers/cc                  |

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer

Zawar Abidin

**NIOSH FIBER COUNT (METHOD 7400 REVISION 3, A RULES)  
Phase Contrast Microscopy of Air Samples**

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 82529 Filter Area: 385  
 Client: VAGLABS Filter Size: 25MM  
 Attention: IL SPIVEY Filter Type: MCE  
 File Name: 82529VAGLABS.AIR Mag: 400x  
 Date Received: 10-24-2002  
 Date Analyzed: 10-30-2002  
 Reference: BLDG 317 ENCL 6  
 Date Sampled: 10-22-2002

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL.SENI.
0210AX212-1	100	8	10	3924	1200.0	0.003	0.0022	0.0327	0.0004
0210AX212-2	100	7	9	3433	1280.0	0.003	0.0021	0.0307	0.0004
0210AX212-3	100	31	19	15204	1350.0	0.011	0.0020	0.0291	0.0004

84-13

LOD - LIMIT OF DETECTION (FIBERS/Sq.mm)  
 LOQ - LIMIT OF QUANTITATION (NO FIBERS/Sq.mm)

ANL.SENI. - ANALYTICAL SENSITIVITY (1 FIBER/100)  
 N.A. - NOT AVAILABLE  
 N.D. - NONE DETECTED

AJHA Registered Asbestos Analyst  
 I.D. 3276 S.AHMAD

B.M. Koik, Laboratory Director

Interlaboratory Sr. is taken as 0.45 (interlaboratory Sr. is 0.3)  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability - 0.3

EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

SUBMITTAL FORM/Laboratory Services

82529

PAGE [ ] OF [ ]

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND OTHER: STEVEN RUSH

RELINQUISHED BY \_\_\_\_\_ TIME / DATE \_\_\_\_\_

CLIENT VA-GLAS (130b) ADDRESS 11301 WILSHIRE BLVD, BLDG 218 LOS ANGELES, CA 90073 RM. 308

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_ CLIENT P.O. NO. \_\_\_\_\_ CLIENT JOB/PROJECT ID NO(S) BLDG 212 Rm 16

TELEPHONE \_\_\_\_\_ CONTACT BEN SPIVEY PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. 310-268-4831

DATE/TIME OF SAMPLE COLLECTION 10/22 & 10/23 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT \_\_\_\_\_ SAMPLER'S NAME Kenny H SIGNATURE \_\_\_\_\_ PRINTED Kenny H

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SOBBENT TUBE  IMPINGER  OTHER

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT PARTS PER
<u>82529-1</u>	<u>0210AX212-1</u>	<u>BL</u>	<u>OWA</u>	<u>PCM</u>	<u>1200</u>
<u>2</u>	<u>" 2</u>	<u>REM</u>	<u>NEG AIR</u>	<u>"</u>	<u>1200</u>
<u>3</u>	<u>" 3</u>	<u>REM</u>	<u>DECON</u>	<u>"</u>	<u>1350</u>
<u>82529.1-4</u>	<u>0210AX21216-4</u>	<u>CLEARANCE</u>	<u>IWA</u>	<u>TEM</u>	<u>1200</u>
		<u>RUSH</u>	<u>TEM by 12:00 NOON 10/24/02</u>		
		<u>also notify Zainul</u>			
		<u>Fax 818-547-1331</u>			

(SF 5/00)

Laboratory No. 82529 Received By [Signature] Time 7:00

Date of Package Del. 10-24-02 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal \_\_\_\_\_

(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

Date of Acceptance into Sample Bank 10-24-02 Chain-of-Custody Signature \_\_\_\_\_

Disposition of Samples 3 + 1 Misc. Info. \_\_\_\_\_

84-14

DATE: October 29, 2002  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.,  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P. O. No. 691-C10949  
Bldg. 212, Rm. 16  
REPORT NO: 82529.1  
DATE COLLECTED: October 23, 2002 by Kenny H.  
DATE RECEIVED: October 24, 2002 at 0700  
DATE ANALYZED: October 24, 2002  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ASBESTOS ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as:

0210AX21216-4

Clearance 10/23

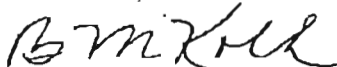
The air sample was analyzed by the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," October 30, 1987, final rule under AHERA.

No asbestos was detected; the analytical sensitivity is 0.005 structures per cubic centimeter.

The test report is enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B.M. Kolk  
Laboratory Director

✓ copy: Zainul Abedin

*Note: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.*

*This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.*

*Any deviation or exclusion from the test method is noted in this cover letter.*

*Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.*



# RESULTS OF AIR FILTER ANALYSIS by TEM, Asbestos Structures

▶ EMS Laboratory No. 82529.1  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/24/02  
 ▶ Date Analyzed 10/24/02  
 ▶ Verbal Results \_\_\_\_\_  
 ▶ Fax Results \_\_\_\_\_

<b>DIRECT PREP</b> <input checked="" type="checkbox"/>	<b>ASPECT RATIO</b>	<b>STRUCTURE SIZE</b>
<b>INDIRECT PREP</b> <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/>
<b>LEVEL I</b> <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	≥ 0.5 μm Length <input checked="" type="checkbox"/>
<b>LEVEL II</b> <input type="checkbox"/>		≥ 1 μm Length <input type="checkbox"/>
		*( > .25 μm Width, ≥ 5.0 μm Length)

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

0210 AX 21216-4	1200	N.D.	N.D.	0.005	0	0.02
-----------------	------	------	------	-------	---	------

91-48

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision # 1: 5/15/89.

Comments:

SUBMITTAL FORM/Laboratory Services.

82529 / DELINQUISHED BY

PAGE OF

TURNAROUND TIME: STD  48 HR.  24 HR.  <8 HR.  WKND  OTHER: STEM Rush

TIME / DATE

CLIENT VA-GLAHS (1305)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

DATE OF SHIPMENT  CARRIER

CLIENT P.O. NO.

CLIENT JOB/PROJECT ID NO(S) BLDG 212 Rm 1

TELEPHONE

CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO.

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 10/22 & 10/23

SAMPLE PRESERVATIVES  HOLDING TIMES

NO. OF SAMPLES SENT 4 SAMPLER'S NAME Kenny H PRINTED Kenny H.

TYPE:  WATER  WASTEWATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
<del>82529-1</del>	0210AX212-1	BL	OWA	PCM	1200
2	" 2	REM	NEG AIR	"	1200
3	" 3	REM	DECON	"	1350
82529.1-4	0210AX21216-4	CLEARANCE	IWA	*TEM	1200
		RUSH TEM by 12:00 NOON 10/24/02			
		also notify Zainul.			
		Fax 818-547-1331			

15 lines

(SF 5/00)

FO 3 ONLY

Laboratory No. 82529 Received By [Signature] Time 7:00

Date of Package Deliv. 10-24-02 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt [Signature] Condition of Custody Seal [Signature]  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 3 + 1 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 10-24-02 Misc. Info. [Signature]

Disposition of Samples [Signature]

84-17

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

### 4. EMPLOYEE INFORMATION

NAME OF EMPLOYEE <b>[REDACTED]</b>	SSN <b>N/A</b>	JOB TITLE
---------------------------------------	-------------------	-----------

ADDRESS (Street, City, State & Zip Code)  
**N/A**

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)
---------------------------------------	-------------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

Date: **10/23/02**

Project: **Removal of 9"x9" Floor Tiles & Mastic from the West Wing Hallway by Room 5 Wet Method Removal under Negative Air Exhaust, HEPA Vacuum and 2 stage Full containment.**

Contractor: **Unlimited Environmental, Inc.**

Location: **Bldg. 212 Room: West Wing Hallway by Room 5 Floor: Basement**

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	SAMPLE 05	SAMPLE 06
a. SAMPLE TYPE/MEDIA	CL/Area/PCM	CL/Area/PCM				Area/PCM
b. SAMPLE SUBMISSION NO.	0210AX2125W-1	0210AX2125E-2				
c. TIME ON	09:00	10:20				
d. TIME OFF	10:10	12:00				
e. TOTAL TIME (In minutes)	70	100				
FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15 L/M	15 L/M				
VOLUME (in liters)	1050	1500				

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

SUBSTANCE	UNIT	RESU		RESU		RESU		RESU		RESU		RESU	
		LT	LT	T	T	T	T	T	T	T	T	T	
Asbestos	F/CC	Not read		0.002									

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy  
Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME  
**EMS Laboratories**

9b. ADDRESS  
**117 West Bellevue Pasadena, CA 91105-2503**

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE <b>10/23/02</b>	10b. FLOW RATE CALCULATIONS <b>15 l/min</b>	10c. (POST) CALIBRATION DATE <b>10-23-02</b>	10d. FLOW RATE CALCULATIONS <b>15 l/min</b>
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>10/23/02</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

84-18

Date: 10/23/02  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT  
Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement Dates: 10/23/02

Location: VA Hospital Bldg. 212 Floor Basement Room West Wing Hall by Room 5

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: 9"x9" Floor Tiles & Mastic

Quantity of ACM: 50 Sq. Ft.

Abatement Type & Method(s): Non-Friable/ Wet Method/Full Containment/HEPA Vacuum/Negative Exhaust

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Fit Tested: Yes  No

Worker Annual Medical Current: Yes  No

Safety Meeting: Yes  No

Notification to: SCAQMD Yes  No  
Date: \_\_\_\_\_

CAL/OSHA Yes  No  
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes  No
- B. Employees in Building Notified of Abatement: Yes  No
- C. Competent Person Outside of Work Area: Yes  No
- D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes \_\_\_ No
- B. Contractor Calibrated Pumps: Yes  No
- C. Contractor's AIHA PAT Lab: \_\_\_\_\_
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes \_\_\_ No  Worker's Name/SS #: \_\_\_\_\_
- 2. Pre-Tests: \_\_\_\_\_
- 3. Perimeter: \_\_\_\_\_

4. Inside Work Area: 0210AX2125W-01 and 0210AX2125E-02
5. Clearance: 0210AX21216-04 on 10/23/02
6. VAIH Laboratory: EMS Laboratory

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: North Full Face
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glovebags: Yes     No X Properly Taped to Pipes: Yes     No X
- B. Containment: Yes X No     Thickness of Polyethylene: 6Mil 2 ply
- C. Proper Decon: Yes X No     No. Chambers: 2 Shower: Yes No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No     Licensed: Vac. Only Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No     How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes X No     Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 212, Floor Basement, Rooms West Wing Hall indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 10/23/02 are as follows:
- |                  |                        |                  |                                       |
|------------------|------------------------|------------------|---------------------------------------|
| Bldg. <u>212</u> | Floor: <u>Basement</u> | Room: <u>16</u>  | <u>ND</u> Structures/mm <sup>2</sup>  |
|                  | Floor: <u>   </u>      | Room: <u>   </u> | <u>   </u> Structures/mm <sup>2</sup> |
|                  | Floor: <u>   </u>      | Room: <u>   </u> | <u>   </u> fibers/cc                  |
|                  | Floor: <u>   </u>      | Room: <u>   </u> | <u>   </u> fibers/cc                  |

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer / Zawad Aludair

**NIOSH FIBER COUNT (METHOD 7400 REVISION 3, A RULES)  
Phase Contrast Microscopy of Air Samples**

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 82530 Date Received: 10-24-2002 Filter Size: 25MM Filter Area: 385  
 Client: VAGLAHS Date Analysed: 10-30-2002 Filter Type: MCE Field Area: 0.00785MM  
 Attention: B. SPYRY Reference: BLDG. 215 FRONT ROOM 5 Mag: 400x  
 File Name: 82530VAGLAHS.AIR Date Sampled: 10-23-2002

Sample I.D.	Fields Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
0210AX212SW-1	0			1050.0	N.A.	0.0026	0.0374	0.0005
0210AX212SE-2	6	8	2943	1500.0	0.002	0.0018	0.0262	0.0003

LOD - LIMIT OF DETECTION (7 FIBERS/Sq.mm) ANL-SENT - ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ - LIMIT OF QUANTITATION (80 FIBERS/Sq.mm) N.A. - NOT AVAILABLE N.D. - NONE DETECTED

AIHA Registered Asbestos Analyst S. Ahmad B.M. Kolk, Laboratory Director B.M. Kolk  
 I.D. 3276 S. AHMAD

Laboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3 Confidence Interval is based on NIOSH 7400 with a subjective coefficient of variability 0.1  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

# SUBMITTAL FORM/Laboratory Services

TURNAROUND TIME: STD  48 HR.  24 HR.   
 <8 HR.  WKND  OTHER:

RELINQUISHED BY \_\_\_\_\_  
 TIME / DATE \_\_\_\_\_

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) BLDG 212  
FRONT RM 5 EAST/WEST  
 PACKAGE SHIPPED FROM \_\_\_\_\_

TELEPHONE \_\_\_\_\_  
 CONTACT BEN SPIVEY

RESULTS REQUESTED VIA  VERBAL  FAX   
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted (verbal or fax results.)  
 CLIENT FAX NO. 310-268-4831

DATE/TIME OF SAMPLE COLLECTION 10/23  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME Ken H / Ken H  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY) EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WGT TEMP
82530-1 ↓ -2	0210AX212SW-1 SE-2	CL IN PROCESS	West	Plan	1050
			East	Plan	11500
		Also notify Samuel			
	0210AX12-1	Flux	818	547	1-331
	" 2	Flux	818	547	1-331
	" 3	Flux	818	547	1-331
	0210AX2124-4	Flux	818	547	1-331
	0-31-01	Flux	818	547	1-331

FOR E NLY (SF 5/00)

Laboratory No. # 82530 Received By [Signature] Time 7:00  
 Date of Package Delivery 10-24-02 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal \_\_\_\_\_  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 2 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10-24-02 Misc. Info. \_\_\_\_\_  
 Disposition of Samples Flux / H/L 84-22

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION VA-GLAHS	2. STATION NO. 619	3. REGION NO. VISN #22
--	-----------------------	---------------------------

### 4. EMPLOYEE INFORMATION

a. NAME OF EMPLOYEE	SSN N/A	JOB TITLE
---------------------	------------	-----------

b. ADDRESS (Street, City, State & Zip Code)

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED: (If Additional Space is Needed Use Reverse).

Date: ~~October~~ <sup>Nov.</sup> 6, 2002  
 Project: Removal of 12"X12" Floor Tile and Mastic :40 Sq.ft.  
 Wet Method Removal under HEPA Vacuum & exhaust and Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 157 Room:     Floor: First

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	SAMPLE 5	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BL/PCM	Area/PCM	CL/TEM			
b. SAMPLE SUBMISSION NO.	0211157AX-01	0211157AX-02	0211AX157-03			
c. TIME ON	10:10	10:15	13:20			
d. TIME OFF	12:10	12:15	14:50			
e. TOTAL TIME (In minutes)	120	120	90			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	2 L/M	2 L/M	15			
g. VOLUME (in liters)	240	240	1350			

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

a. PERCENTAGE							b. Date: 09-17-02				
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	
Asbestos	F/CC	0.002	F/CC	0.035	TEM	ND					

### 7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

Phase Contrast Microscopy  
 Transmission Electron Microscopy (TEM)

### 8. IH COMMENTS TO LABORATORY

PCM /TEM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Pasadena, CA 91105-2503	PAT NUMBER

### 10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE November 6, 2002	10b. FLOW RATE CALCULATIONS 2/15 l/min	10c. (POST) CALI- BRATION DATE November 11, 2002	10d. FLOW RATE CALCULATIONS 2/15 l/min
NAME & JOB TITLE (Person Performing Sampling) James Spencer		DATE November 6, 2002	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..



Date: November 6, 2002

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement Dates: November 6, 2002

Location: VA Hospital Bldg. 157 First Floor

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Floor Tile & Mastix

Quantity of ACM: 40 sqft

Abatement Type & Method(s): Non-Friable/ Wet Method/ Containment/HEPA Vacuum & Exhaust

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting: Yes X No     

Notification to: SCAQMD Yes X No       
Date:                     

CAL/OSHA Yes X No       
Date:                     

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name:                      Yes      No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:
  - 1. Personal (VA): Yes      No X Worker's Name/SS #:
  - 2. Pre-Tests:
  - 3. Perimeter: 0211157AX01,02

84-24

4. Inside Work Area: \_\_\_\_\_
5. Clearance: 0211157AX-03
6. VAIH Laboratory: EMS Laboratory

Contractor's PPE:

- A. Respirator Type & Manufacturer: North Half Face
- B. Coveralls: X Hoods & Boots: Yes X No \_\_\_\_\_
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No \_\_\_\_\_

IV. Engineering Controls:

- A. Glovebags: Yes \_\_\_ No X Properly Taped to Pipes: Yes \_\_\_ No X
- B. Containment: Yes X No \_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No \_\_\_ No. Chambers: 2 Shower: Yes \_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes X No \_\_\_ Licensed: Vac. Only Yes X No \_\_\_
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No \_\_\_
- G. Amended Water Used: Yes X No \_\_\_ How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No \_\_\_
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No \_\_\_
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No \_\_\_
- K. Encapsulation: Yes \_\_\_ No X Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No \_\_\_

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 157, Floor 1st, Rooms \_\_\_ indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 09/18/02 are as follows:
- |                  |                 |             |           |                            |
|------------------|-----------------|-------------|-----------|----------------------------|
| Bldg. <u>157</u> | Floor: <u>1</u> | Room: _____ | <u>ND</u> | Structures/mm <sup>2</sup> |
|                  | Floor: _____    | Room: _____ | _____     | Structures/mm <sup>2</sup> |
|                  | Floor: _____    | Room: _____ | _____     | fibers/cc                  |
|                  | Floor: _____    | Room: _____ | _____     | fibers/cc                  |

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer *Zaimul Hudaib*

Page: 1

**NIOSH FIBER COUNT (METH 7400 REVISION 3, A RULES)**  
**Phase Contrast Microscopy of Air Samples**

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

**Report No:** 82801 **Date Received:** 11-07-2002 **Filter Size:** 25MM **Filter Area:** 385  
**Client:** VAGLAHS **Date Analyzed:** 11-07-2002 **Filter Type:** MCE **Field Area:** 0.00785MM<sup>2</sup>  
**Attention:** B BPTVEY **Reference:** RLDC157 **Mag:** 400x  
**File Name:** 82801-VAGLAHS-AIR **Date Sampled:**

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
0211157AX-01	100	1	490	240.0	0.002	0.0112	0.1635	0.0020
0211157AX-01	100	17	8338	240.0	0.035	0.0112	0.1635	0.0020

04-26

LOD = LIMIT OF DETECTION (FIBERS/Sq.mm)  
 LOQ = LIMIT OF QUANTIFICATION (50 FIBERS/Sq.mm)  
 ANL.SENT ANALYTICAL SENSITIVITY (1 FIBER/100)  
 N.A. - NOT AVAILABLE N.D. - NONE DETECTED

AIHA Registered Asbestos Analyst **S. Ahmad**  
 I.D. 3276 S.AHMAD  
 Laboratory Director **B.M. Kolk**

Interlaboratory Sr. is taken at 0.45 Inhalation Sr is 0.3  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

SUBMITTAL FORM/Laboratory Services

82801.1

PAGE 1 OF 1

TURNAROUND TIME: STD 48 HR. 24 HR. 8 HR.  WKND OTHER: RUSH

RELINQUISHED BY T. Davis  
TIME / DATE 6 AM / 11-7  
DATE OF SHIPMENT 11/7 CARRIER DROP-OFF  
CLIENT P.O. NO. 691-1099  
CLIENT JOB/PROJECT ID NO(S) B00157  
PACKAGE SHIPPED FROM

CLIENT VA-GLAHS (1130b)  
ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308  
TELEPHONE  
CONTACT BEN SPIVEY

RESULTS REQUESTED VIA VERBAL  FAX   
CLIENT FAX NO. 310-268-4831  
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION  
SAMPLE PRESERVATIVES  
NO. OF SAMPLES SENT 3 SAMPLER'S NAME Kenny H. (Kenny H. H.)  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER  
SIGNATURE PRINTED

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	ANALYSIS
8280-1	0211157AX-01	BL - IN BLDG 157	PCM 240
- 2	" " - 02	BL - outside BLDG 157	PCM 240
82801.1-3	0211157AX-03	CL - IWA 157	TEM 1350

NOTE: TOM ONLY  
Super Rush - By 10:30 AM.  
also Notify Zaniel  
FAX 818-547-1331  
Also Ben Spivey @ 310-261-4200  
THANK YOU!

82801.1

FOR E ONLY (SF 500)

Laboratory No.  
Date of Package Delivery 11-7-02  
Condition of Package on Receipt OK  
NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.  
No. of Samples 3  
Date of Acceptance from Sample Bank 11-7-02  
Disposition of Samples For Lab.  
Received By [Signature]  
Shipping Bill Remit: YES NONE   
Condition of Custody Seal N/A  
Custody Signature [Signature]  
Misc. Info 84-27

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE <b>[REDACTED]</b>	SSN <b>N/A</b>	JOB TITLE

5. ADDRESS (Street, City, State & Zip Code)  
**N/A**

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)
---------------------------------------	-------------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 11-06-02  
**Project:** Removal of 2 Elbows  
Wet Method Glove Bag Wet Removal under HEPA Vacuum  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 208 Room: 118 Floor : First

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long of this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

6. SAMPLING INFORMATION						
(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	SAMPLE 5	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BL/PCM	Arca/PCM	Arca/PCM	Arca/PCM		
b. SAMPLE SUBMISSION NO.	0211AX208118-1	0211AX208118-2				
c. TIME ON	14:00	14:11				
d. TIME OFF	15:30	15:41				
e. TOTAL TIME (In minutes)	90	90				
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> m <sup>3</sup> /min	15 L/M	15 L/M				
g. VOLUME (in liters)	1350	1350				

6. RESULTS (For Laboratory Use)							
P = PPM, M = mg/m <sup>3</sup> , F = Fibers, C = Ceiling, T = Time Weighted Average							
a. PERCENTAGE							
b. Date: 09-11-02							

SUBSTANCE ↓	UNIT	RESU LT	UNIT	RESUL T	UNIT	RESUL T	UNIT	RESU LT	UNIT	RES ULT	UNIT	RESUL T
Asbestos	F/CC	0.013	P/CC	0.010								

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE <b>02</b>	10b. FLOW RATE CALCULATIONS <b>15 l/min</b>	10c. (POST) CALI- BRATION DATE <b>11/06/02</b>	10d. FLOW RATE CALCULATIONS <b>15 l/min</b>
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>11/06/02</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

84-28

Date: 11/06/02  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT  
Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement Dates: 11/06/02

Location: VA Hospital Bldg. 208 Room 118

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: TSI/Elbows

Quantity of ACM: 2 Elbows

Abatement Type & Method(s): Friable/ Wet Method/Glove Bagging/HEPA Vacuum

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Fit Tested: Yes  No

Worker Annual Medical Current: Yes  No

Safety Meeting: Yes  No

Notification to: SCAQMD Yes  No  
Date: \_\_\_\_\_

CAL/OSHA Yes  No  
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes  No
- B. Employees in Building Notified of Abatement: Yes  No
- C. Competent Person Outside of Work Area: Yes  No
- D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes No
- B. Contractor Calibrated Pumps: Yes  No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes No  Worker's Name/SS #: \_\_\_\_\_
- 2. Pre-Tests: 0211AX208118-01
- 3. Perimeter: 0211AX208118-02

4. Inside Work Area: \_\_\_\_\_
5. Clearance: \_\_\_\_\_
6. VAIH Laboratory: EMS Laboratory

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: North Half Face
- B. Coveralls: X Hoods & Boots: Yes X No \_\_\_\_\_
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No \_\_\_\_\_

IV. Engineering Controls:

- A. Glovebags: Yes X No \_\_\_\_\_ Properly Taped to Pipes: Yes X No \_\_\_\_\_
- B. Containment: Mini Yes X No \_\_\_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes \_\_\_\_\_ No X No. Chambers: Shower: Yes \_\_\_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes \_\_\_\_\_ No \_\_\_\_\_ Licensed: Vac. Only Yes \_\_\_\_\_ No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_\_\_ No X
- G. Amended Water Used: Yes X No \_\_\_\_\_ How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes \_\_\_\_\_ No X
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No \_\_\_\_\_
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No \_\_\_\_\_
- K. Encapsulation: Yes \_\_\_\_\_ No X Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No \_\_\_\_\_

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 208, Floor 1, Rooms 118 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 11/06/02 are as follows:
- |                  |                 |                  |                                  |
|------------------|-----------------|------------------|----------------------------------|
| Bldg. <u>208</u> | Floor: <u>1</u> | Room: <u>118</u> | _____ Structures/mm <sup>2</sup> |
|                  | Floor: _____    | Room: _____      | _____ Structures/mm <sup>2</sup> |
|                  | Floor: _____    | Room: _____      | _____ fibers/cc                  |
|                  | Floor: _____    | Room: _____      | _____ fibers/cc                  |

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer

Zaimul Aludun

# NIOSH FIBER COUNT (METHOD 7400 REVISION 3, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 82802      Filter Area: 385  
 Client: VAGLAHS      Filter Size: 25MM  
 Attention: B SHIVZY      Filter Type: MCE  
 File Name: 82802-VAGLAHS.AIR      Mag: 400x  
 Date Received: 11-07-2002      Field Area: 0.00785MM  
 Date Analysed: 11-07-2002  
 Reference: NIOSH 350 400 118

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
0211AX208118-1	100	37	47	18146	1350.0	0.013	0.0020	0.0291	0.0004
0211AX208118-2	100	27	34	13242	1350.0	0.010	0.0020	0.0291	0.0004

LOD - LIMIT OF DETECTION (7 FIBERS/Sq.mm)  
 LOQ - LIMIT OF QUANTITATION (80 FIBERS/Sq.mm)  
 ANL SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 N.A. = NOT AVAILABLE      N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst      B.M. Kolk, Laboratory Director  
 I.D. 3376      S. AHMAD      *B.M. Kolk*

Inertial laboratory Sr is taken as U.45 Inertial laboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 EMS LABORATORIES 117 West Bellevue Dr./Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282



TURNAROUND TIME: STD  48 HR.  24 HR.   
 <8 HR.  WKND  OTHER:

RELINQUISHED BY J. DAVIS  
 TIME / DATE 6 AM / 11-7  
 CLIENT VA-GLAHS (1306) DATE OF SHIPMENT 11-7 CARRIER DMG  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO. 691-1099  
LOS ANGELES, CA 90073 RM 308 CLIENT JOB/PROJECT ID NO(S).  
Bldg 208 RM 118  
 TELEPHONE BEN SPIVEY PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. 310-268-4831  
 (NOTE: Complete written reports will follow all analyses. In addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 11/5/02  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME Lenny H / Kenneth  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)		CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	REMARKS
EMS Sample No.						
<u>82802</u>	<u>-1</u>	<u>0211AX208118-1</u>	<u>BL-EAST</u>	<u>118</u>	<u>Pcm</u>	<u>1350</u>
<u>✓</u>	<u>-2</u>	<u>" "</u>	<u>ZR-W</u>	<u>118</u>	<u>Pcm</u>	<u>1350</u>
Also Notify Fax Samuel 818-547-1331						

FOR ONLY (SF 5/00)

82802

Laboratory No. \_\_\_\_\_ Received By \_\_\_\_\_ Time 7:50 AM  
 Date of Package Delivery: 11-7-02 Shipping Bill Returned YES  NONE   
 Condition of Package on Receipt GOOD Condition of Custody Seal N/A  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 2 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 11-7-02 Misc. Info. \_\_\_\_\_  
 Disposition of Samples EMS LABS 84-32

**NIOSH FIBER COUNT (METH 7400 REVISION 3, A RULES)**  
**Phase Contrast Microscopy of Air Samples**

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 Fields)

Report No: **82902** Date Received: **11-07-2002** Filter Size: **25MM** Filter Area: **385**  
 Client: **VAGLAHS** Date Analysed: **11-07-2002** Filter Type: **MCE** Field Area: **0.00785MM**  
 Attention: **B SPIVEY** Reference: **PLDC 88 R4118** Mag: **400x**  
 File Name: **82902-VAGLAHS-AIR** Date Sampled: \_\_\_\_\_

Sample L.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
0211AX208118-1	100	37	47	18146	1350.0	0.013	0.0020	0.0291	0.0004
0211AX208118-2	100	27	34	13242	1350.0	0.010	0.0020	0.0291	0.0004

LOD - LIMIT OF DETECTION (7 FIBERS/Sq.mm) ANL SENT ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ - LIMIT OF QUANTITATION (80 FIBERS/Sq.mm) N.A. NOT AVAILABLE N.D. NONE DETECTED

AIHA Registered Asbestos Analyst S. Ahmad B.M. Kolk, Laboratory Director B.M. Kolk  
 I.D. 3276 S. AHMAD

Interlaboratory Sr. is taken as 0.45. Intra-laboratory Sr. is 0.3  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability of 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

SUBMITTAL FORM/Laboratory Services

82802

PAGE 1 OF 1

TURNAROUND TIME: STD 48 HR. 24 HR. <8 HR. WKND OTHER:

RELINQUISHED BY J. DAVIS TIME / DATE 6 AM / 11-7

CLIENT VA-GLAHS (130b) ADDRESS 11301 WILSHIRE BLVD, BLDG 218 LOS ANGELES, CA 90073 RM 308 TELEPHONE BEN SPIVEY CONTACT

DATE OF SHIPMENT 11-7 CARRIER DATE OF SHIPMENT CLIENT P.O. NO. 691-1097 CLIENT JOB/PROJECT ID NO(S) Bldg, 208 RM 118 PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL FAX CLIENT FAX NO. 310-268-4831

DATE/TIME OF SAMPLE COLLECTION 11/5/02 SAMPLE PRESERVATIVES NO. OF SAMPLES SENT 2 SAMPLER'S NAME TYPE: WATER WASTE WATER SOIL FILTER SORBENT TUBE IMPINGER OTHER

EMS Sample No. CLIENT SAMPLE NO DESCRIPTION LOCATION ANALYSIS

Table with 5 columns: EMS Sample No., CLIENT SAMPLE NO, DESCRIPTION, LOCATION, ANALYSIS. Contains handwritten entries for samples 82802-1 and 82802-2.

82802

FOR ONLY (SF 5/00)

Laboratory No. Date of Package Delivery Condition of Package on Receipt No. of Samples Date of Acceptance into Sample Bank Disposition of Samples Received By Shipping Bill Remained Condition of Custody Seal Chain-of-Custody Signature

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

<b>4. EMPLOYEE INFORMATION</b>		
NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 11/21/02  
**Project:** Pipe Insulations (TSI) Due to Leak  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room. 11B Floor: Basement

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE_01	SAMPL_02	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Area/PCM	CL/TEM			
b. SAMPLE SUBMISSION NO.	0211300AX1	0211300AXC1			
c. TIME ON	09:30	13:00			
d. TIME OFF	12:05	15:55			
e. TOTAL TIME (In minutes)	155	175			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m/min	12	12			
g. VOLUME (in liters)	1860	2400			

6. RESULTS (For Laboratory Use)							
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE	
						b. TYPE	
SUBSTANCE †	UNIT	RESULT	UNIT	RESULT	DATE		
Asbestos	F/CC	0.009	S/mm2	ND	11/21/02		

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy  
 Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
 PCM/TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE 11/21/02	10b. FLOW RATE CALCULATIONS 12 liters/minute	10c. (POST) CALIBRATION DATE 11/21/02	10d. FLOW RATE CALCULATIONS 12 liters/minute
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>Ted Davis</b>	DATE 11/21/02	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	------------------	--

84-35

Date: 11/21/02  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates: 11/21/02

Location: VA -GLAHS Bldg. 300 Room 11B Basement

Abatement Company: Unlimited

Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Pipe Insulation (TSI)

Quantity of ACM: Approximately - sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date:                     

CAL/OSHA Yes X No       
Date:                     

I. Administrative Controls:

A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No     

B. Employees in Building Notified of Abatement: Yes X No     

C. Competent Person Outside of Work Area: Yes X No     

D. Asbestos Worksite Log: Yes X No     

II. Air Monitoring:

A. OSHA Employee Monitoring: 8 Hr. TWA: Name:                      Yes      No X

B. Contractor Calibrated Pumps: Yes X No     

C. Contractor's AIHA PAT Lab:

D. VAMC - IH Monitoring:

1. Personal (VA): Yes      No X

Worker's Name/SS #:                     

2. Pre-Tests

3. Perimeter:

4. Inside Work Area: 0211300AX 1

84-36

5. Clearance: 0211300AX-C1

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

A. Respirator Type & Manufacturer: 1/2 Face North

B. Coveralls: X Hoods & Boots: Yes X No     

C. Respirator Suitable for Anticipated Fiber Levels: Yes X No     

IV. Engineering Controls:

A. Glove bags: Yes X No      Property Taped to Pipes: Yes X No     

B. Containment: Yes      No X Thickness of Polyethylene: 6 mil

C. Proper Decon: Yes X No      No. Chambers:      Shower: Yes      No X

D. If Containment in Use, are Critical Openings Properly Sealed: Yes      No X

E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No     

F. Adeq. Neg. Pressure Diff. in Containment Yes X No     

G. Amended Water Used: Yes X No      How Applied: Spray

H. External AFD Filters Replaced Daily: Yes X No     

I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No     

J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No     

K. Encapsulation: Yes X No      Name & Type:     

L. Work Area Ready for Clearance Air Testing Yes X No     

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 300, Floor: Basement, Rooms: 11B indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 11/21/02 are as follows:

Bldg. <u>300</u>	Floor: <u>Basement</u>	Room: <u>11B</u>	<u>0</u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : Ted Davis

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 83127 Date Received: 11-22-02 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 11-25-02 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 691-C1094 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: ESPIVEY File Name: ESPIVAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted F/ Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
02-11-300-11B	100	35	45	17166	1860.0	0.0014	0.0166
				<b>0.009</b>			0.0003

LOD = LIMIT OF DETECTION (7 FIBERS/ Sq.mm) ANL SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/ Sq.mm) N.A. = NOT AVAILABLE N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst  
 I.D. 3276  
S. AHMAD

S. Ahmad  
 B.M. Kolk, Laboratory Director  
B.M. Kolk

Interlaboratory Sr is taken as 0.45. Intra-laboratory Sr is 0.3. Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3.  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

84-38

SUBMITTAL FORM / Laboratory Services.

83127

TURNAROUND TIME: STD  48 HR.  24 HR.  <8 HR. WKND  OTHER:

RELINQUISHED BY T. DAVIS  
 TIME / DATE 5 PM / 11-21  
 DATE OF SHIPMENT 11/21 CARRIER Fed-Ex  
 CLIENT P.O. NO. 691-6094  
 CLIENT JOB/PROJECT ID NO(S) Bldg. 300, Rm 11B  
 PACKAGE SHIPPED FROM

CLIENT VA-GIAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
 LOS ANGELES, CA 90073 RM 308

TELEPHONE  
 CONTACT BEN SPIVEY

RESULTS REQUESTED VIA (FOR) VERBAL  FAX  CLIENT FAX NO. 310-268-4831

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 11-21-02  
 SAMPLE PRESERVATIVES  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME T. DAVIS  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER  
 SIGNATURE T. DAVIS PRINTED T. DAVIS

(FOR EMS ONLY)

VOLUME  
 TIME WEIGHT  
 IF APPL. CAL.

EMS Sample No.

CLIENT SAMPLE NO. DESCRIPTION LOCATION ANALYSIS

83127-1

02-11-300-11B-AX-1, Bldg 300, Rm 11B, PCM - Asbestos

83127-2

02-11-300-11B

NOTE: TEM Samples RUSH RESULTS TO  
 BEN SPIVEY @ 310-261-4200  
 WHEN AVAILABLE.

TEM RUSH THANKS

83127

Laboratory No. 83127.1 Received By CUE Time 10 AM

Date of Package Delivery 11-22-02 Shipping Bill Retained: YES  NONB

Condition of Package on Receipt good Condition of Custody Seal none  
 NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 2 Chain-of-Custody Signature

Date of Acceptance into Sample Bank 11-22-02 Misc. Info.

Disposition of Samples EMS 84-39

(SF 5/00)

FOR E



1. FACILITY IDENTIFICATION: VA-GLAHS  
 2. STATION NO.: 619  
 3. REGION NO.: VISN #22

4. EMPLOYEE INFORMATION  
 NAME OF EMPLOYEE: [Redacted]  
 SSN: N/A  
 JOB TITLE: [Redacted]  
 ADDRESS (Street, City, State & Zip Code): [Redacted]

d. PERSONAL PROTECTIVE EQUIPMENT USED: [Redacted]  
 e. MANUFACTURER: N/A  
 f. APPROVAL No. (for Respirator): [Redacted]

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

Project: Bldg 300, Room 11B  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 300 Rm. 11B Floor BASEMENT

PIPE LEAK REQUIRED ABATEMENT OF ACM PIPE INSULATION.

h. FREQUENCY (How long job takes): N/A  
 i. DURATION (How long at this job): N/A  
 j. NUMBER OF EMPLOYEES DOING THIS JOB: N/A

5. SAMPLING INFORMATION

(Fill in Sample No.) →	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	PCM	TEM 27MM; 0.8M			
b. SAMPLE SUBMISSION NO.	02-11-300-AX1	02-11-300-AX-C-1TEM			
c. TIME ON	0930	1300			
d. TIME OFF	1205	1555			
e. TOTAL TIME (in minutes)	155	175			
f. FLOW RATE (l/min) <input checked="" type="checkbox"/> <sup>3</sup> <input type="checkbox"/> <sup>4</sup>	12	12			
g. VOLUME (in liters)	1860	2100			

6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Counting T = Time Weighted Average

SUBSTANCE	UNIT	a. PERCENTAGE		TIC	DATE
		RESULT	TYPE		
Asbestos - PCM					
TEM					

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

SAMPLE - AX-1 = PHASE CONTRAST MICROSCOPY  
 SAMPLE AX-C-1 (TEM) = TRANSMISSION ELECTRON MICROSCOPY (AHERA)

8. IH COMMENTS TO LABORATORY  
 AX-1 (PCM); AX-C-1 (TEM-AHERA)

9a. ANALYTICAL LABORATORY NAME: EMS Laboratories  
 9b. ADDRESS: Pasadena, CA  
 AIHA ACCREDITATION NUMBER: [Redacted]  
 PAT NUMBER: [Redacted]

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.): [Redacted]

10a. (PRE) CALIBRATION DATE: [Redacted]	10b. FLOW RATE CALCULATIONS: [Redacted]	10c. (POST) CALIBRATION DATE: [Redacted]	10d. FLOW RATE CALCULATIONS: [Redacted]
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling): Ted Davis, CAC # 94-1378  
 SURVEY DATE: 11-21-02  
 USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

DATE: November 22, 2002  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.,  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P. O. No. 691-C10949  
Bldg. 300, Rm. 11B  
REPORT NO: 83127.1  
DATE COLLECTED: November 21, 2002 by Ted Davis  
DATE RECEIVED: November 22, 2002 at 1000  
DATE ANALYZED: November 22, 2002  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ASBESTOS ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as:

02-11-300-AX-C1 Bldg. 300, Rm. 11B

The air sample was analyzed by the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," October 30, 1987, final rule under AHERA.

No asbestos was detected; the analytical sensitivity is 0.005 structures per cubic centimeter.

The test report is enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.

*B.M. Kolk*

B.M. Kolk  
Laboratory Director

*Note: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.*

*This report, from a NIST accredited laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.*

*This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
Any deviation or exclusion from the test method is noted in this cover letter.*

*Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.*

84-41

# RESULTS OF AIR FILTER ANALYSIS by TEM for *Asbestos Structures*

▶ EMS Laboratory No. 83127.1  
 ▶ Client VA-GLAFS (1306) ▶ Date Received 11/22/02 ▶ Verbal Results  
 ▶ Location \_\_\_\_\_ ▶ Date Analyzed \_\_\_\_\_ ▶ Fax Results

DIRECT PREP	<input checked="" type="checkbox"/>	ASPECT RATIO	3:1	<input type="checkbox"/>	STRUCTURE SIZE	≥5 μm Length	<input type="checkbox"/>
INDIRECT PREP	<input type="checkbox"/>		5:1	<input checked="" type="checkbox"/>	All Sizes (EPA)	≥0.5 μm Length	<input checked="" type="checkbox"/>
LEVEL I	<input type="checkbox"/>				≥1 μm Length	PCM Range*	<input type="checkbox"/>
LEVEL II	<input type="checkbox"/>				≥50 μm Length	≥0.25 μm Width	<input type="checkbox"/>
						≥50 μm Length	<input type="checkbox"/>

Sample Identification	Volume(L)	Mass in mg/ml	Structures/ml	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit
02-11-300-H	2100	N.D.	N.D.	0.005	0	0.02	

84-42

TEM-3A (12-01)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments:

TEM ASBESTOS AIR REPORT

VA-GLAHS (130b)  
 EMS NO: 83127.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 2100 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: '02-11-300-H  
 RECEIVED: 11/22/02 ANALYZED: 11/22/02  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0376  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0094  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. MEAN	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Amphibole Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. MEAN	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Number of Asbestos Bundles .....	N.D. ....	N.D. /cc
Total Number of Asbestos Cluster Clumps .....	N.D. ....	N.D. /cc
Total Number of Asbestos Matrix/Debris .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Chrysotile .....	N.D. ....	N.D. /cc
Amphibole .....	N.D. ....	N.D. /cc
Crocidolite .....	N.D. ....	N.D. /cc
Tremolite .....	N.D. ....	N.D. /cc
Amosite .....	N.D. ....	N.D. /cc
Anthophyllite .....	N.D. ....	N.D. /cc
Actinolite .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D. ....	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	N.D.	

REMARKS: VERY LIGHT DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-43

# TEM TESTOS ANALYSIS

EMS Lab No. 23-27  
 Client VAGLAIMS  
 Sample No. 02-11-300-H7

## RECEIVING

METHOD OF ANALYSIS  
 EPA Yamate Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1

LENGTHS  
 All Sizes (EPA)   
 (µm) : > 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range   
 (>0.25 µm width, >5.0 µm length)

Approved By SA Date 11-22-07

TYPE OF SAMPLE  
 All  Soil  Bulk  Water  Wipe  Other  Dust/Microvac

FILTER TYPE/AREA  
 MCE/045  MCE/314  MCE/1017  Other

PORE SIZE  
 0.45 µm  0.8 µm  1.1 µm  0.22 µm  Other

G.O. Area (mm²) 0.0  
 No. of G.O. to Analyze 034  
 Filter Lot No. 034

## ANALYSIS

DIRECT PREP  INDIRECT PREP   
 Volume 200 µl  
 Working Volume 200 ml  
 Weight 20 grams  
 Ashed Area 10 %

Date 11-22-07  
 Prepared By LS

Grid Address 11  
 Screen Magnification 19,000  
 Camera Constant 22.1  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

Pa 7 of 1

MICROSCOPE

H600A - Serial No. 542-24-03

H600B - Serial No. 542-05-06

H600C - Serial No. 542-36-01

**A**

Date 11-22

Analyst Radke

Grid Opening		Structure		Dimension (mm)		SAED Observation				EDS Analysis				Comments			
Grid Opening	Structure	Structure	Thickness	Width	Length	Chrysotile	Amphibole	Anfibrous	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe	td	Comments
<u>E3-3</u>																	
<u>N2-3</u>																	

16 Lines

OBSERVATIONS:  
 Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrapy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy



EMS LABORATORIES 117 West Bellevue Drive • Pasadena CA 91106-2503 • (626) 600-1000

74-48

# TEM ANALYSIS

EMS Lab No. 83127-1

Client VAGL AHS

Sample No. 02-11-500-11

**RECEIVING**

## ANALYSIS

Grid Address B  
 Screen Magnification 9700X  
 Camera Constant 287  
 Accelerating Voltage 100KV  
 Beam Current 10 uA

H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

MICROSCOPE

Page    of   

Analyst S. Ahmed Date 11/22/02

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysolite	Amphibole	Amorphous	Non Asbestos	No Pattern	Ra	Mg	Si	Ca		Fe
<u>ES-6 A5D</u>	<u>FM-6 A5D</u>	<u>  </u>														

16 Lines

OBSERVATIONS: Clean   
 Debris:   
 Gypsum:   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

84-45

**Bulk Sample Summary**

Survey Date	Sample Number	Materials Description	Material Locations	Laboratory Results	ACM Quantity	Unit	Condition	Exposure	Priority	Potential Response
12/30/01	02-128UA300-1	Pipe Insulation Debris	Crawl Space	2% Amosite	-	ft <sup>2</sup>	Damaged	High	2	Remove
12/30/01	02-128UA300-2	Pipe Insulation	NS Pipe Northeast Crawl Space	3% Amosite	-	ft <sup>2</sup>	Damaged	High	2	Remove
12/30/01	02-128UA300-3	Pipe Insulation	EW Pipe Northeast Crawl Space	3% Amosite	-	ft <sup>2</sup>	Damaged	High	2	Remove

Notes :

84-46

**SUBMITTAL FORM / Laboratory Services**

**83848**

PAGE  OF

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR. WKND  OTHER:

RELINQUISHED BY \_\_\_\_\_ TIME / DATE PM 12/27

CLIENT GLAHS-WLA  
 ADDRESS 11301 WILSHIRE BLVD  
L.A. CALIF  
 TELEPHONE \_\_\_\_\_  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) BLDG 300  
 PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. 310-268 4831  
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION AM/PM 12/27  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 7 SAMPLER'S NAME Lee HAZEN L.K. HOPPER  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
SIGNATURE PRINTED

(FOR EMS ONLY)		CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS	VOLUME TARE WEIGHT
83848-1	1	0212AX300-1	AREANE UNDER #300	PCM 412.5
	2	" " " "-2	" W " "	PCM 422.1
83848.1-	1	0212BMA300-1	DEBRIS - UNDER PIPE	BULK
	2	" -2	TSI NE NS PIPE	BULK
	3	" -3	TSI NE ES PIPE	BULK
83848.2-x	1	0212AX300-1		TEM 1575 <del>1250</del>
	x2	" -2		TEM 1350 <del>1250</del>
	L1		12/30/02	
RUSH		0212CL30001	clear under #300	TEM 1200
			big 2:00PM crawl spc.	
			on 31 Dec 02	

(SF 5/00)

FOR EM ONLY

Laboratory No. 83848.1 Received By [Signature] Time 10<sup>00</sup>  
 Date of Package Delivery 12-31-02 Shipping Bill Returned: YES  NONE   
 Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal none  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 2+3+3 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 12-31-02 Misc. Info BY  
 Disposition of Samples EVES LAB 84-47



01/03/2003 16:51 6265684072

REPORT NO: 83848.1 CLIENT: VA-GLAHS  
 DATE: Jan 3, 2003 11201 WILSHIRE BLVD.  
 DATE RECEIVED: Dec 31, 2002 ATTENTION: LOS ANGELES, CA 90073  
 DATE ANALYZED: Jan 3, 2003 REFERENCE: P.D.#691-C10849  
 DATE / TIME COLLECTED: 12/27/02 AM/PM BY X. HOPPER BLDG 300  
 SUBJECT: Polarized Light Microscopy Analysis for Asbestos: 3 Samples  
 METHODOLOGY: "Method for Determination of Asbestos in Bulk Building Materials,"  
 EPA 800/R-83/116  
 ACCREDITED: National Institute of Standards and Technology (NVLAP) #101218  
 CERTIFIED: California Department of Health Services Environmental Testing Laboratory ELAP 1119,  
 County Sanitation Districts of Los Angeles County, Laboratory Identification No. 10120

QUALITY CONTROL SAMPLE (SRM 1866 GLASS FIBERS AS THE BLANK); NONE DETECTED

SAMPLE ID NUMBER	SAMPLE LOCATION & DESCRIPTION	VISUAL DESCRIPTION	ASBESTIFORM MINERALS	OTHER FIBROUS MATERIALS	NON-FIBROUS MATERIALS
02120UA300-1	FRIABLE	WHITE GRANULAR	AMOSITE 2%	CELLULOSE - LESS THAN 1%	GRANULAR MINERALS OPAQUES ORGANICS
02120UA300-2	FRIABLE	WHITE GRANULAR	AMOSITE 3%	CELLULOSE - LESS THAN 1%	GRANULAR MINERALS OPAQUES
02120UA300-3	FRIABLE	WHITE GRANULAR	AMOSITE 3%	CELLULOSE - LESS THAN 1%	GRANULAR MINERALS OPAQUES

*[Signature]*  
 Optical Microscopist  
 80X/100µm

B.M. Kalk, Laboratory Director

The EPA method is a semi-quantitative procedure. The detection limit is between 1/10 to 1 percent by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample or samples delivered to us and may not represent the entire material from which the sample was taken. The EPA recommends three samples or more be taken of a homogeneous sampling area before fibrous material is considered non-asbestos-containing.

This report, from a NIST accredited laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 Negative for the samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by X-Ray diffraction or TEM is recommended by EPA (Federal Register Vol. 59, No. 140)

PG 1

B4-48



DEPARTMENT OF HEALTH & HUMAN SERVICES  
FEDERAL OCCUPATIONAL HEALTH SERVICES

Public Health Service  
Denver Area Office

P.O. Box 25145  
Denver Federal Center  
Denver, CO 80225-0145

March 19, 2001

LGN P0182573

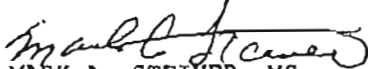
Ben Spivey, IH  
VA-GLAHS #130B  
11301 Wilshire Blvd., Bldg 218, Rm 308  
Los Angeles, CA 90073

Dear Mr. Spivey:

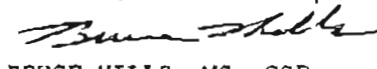
Attached are the results of the analysis of 4 airborne samples from WLA Building 300, 1st Floor, Los Angeles, submitted to the Division of Federal Occupational Health (DFOH) National Environmental Reference Laboratory (NERL) in Denver, Colorado. These samples were received at this facility on March 16, 2001, and were analyzed in accordance with the National Institute for Occupational Safety and Health (NIOSH) 7400A analytical protocol (Version #4, 9/15/94). Results of these evaluations are listed in Table 1. Procedures for this analysis involve mounting a section of a mixed-cellulose ester (MCE) filter membrane onto a glass slide. The filter section is then dissolved through acetone vaporization and fixed with reagent triacetin and a glass cover slip. This process permits transparency of the filter medium through which collected material can be examined under a light microscope. Particulate matter and fibers collected are then sized and counted under phase contrast microscopy (PCM). A final airborne fiber concentration is then calculated for this evaluation and appropriate sample volume data. In accordance with NIOSH 7400 Method rules, fibers, for counting purposes, are classified as particulate matter, which has a length-to-width aspect ratio of at least 3 to 1. A minimum count of 7 fibers per square millimeter is used as the limit of detection. Fiber counting is performed at 400X with a special phase attachment for PCM.

If you have questions about the enclosed results, asbestos identification, evaluation and abatement, please contact the laboratory director's office at (303) 236-3455 ext. 500, or NERL directly at (303) 236-9984. If DFOH can be of additional assistance in the field of occupational safety and health, please let us know.

ANALYST

  
MARK A. STEINER, MS  
Geologist/Microscopist

LABORATORY DIRECTOR

  
BRUCE HILLS, MS, CSP  
Certified Industrial Hygienist

84-49

TABLE 1

AIRBORNE FIBER COUNT/NIOSH 7400 ANALYSIS

DIVISION OF FEDERAL OCCUPATIONAL HEALTH

PROJECT TITLE: Asbestos Air Sampling

SAMPLING SITE: WLA Building 300, 1st Floor, Los Angeles, CA

REPORT DATE: March 16, 2001

PCM LGN P0182573

AGENCY I.D.	LOCATION	VOL (L)	FIBER COUNT	FIELD COUNT	*FIBER DENSITY	**FIBERS PER CC
01-03-AR300-1	TRAY LINE	713	10	100	12.7	0.007
01-03-AR300-2	TRAY LINE	682	2	100	7	<0.004
01-03-AR300-3	TRAY LINE	900	12	100	15.3	0.007
01-03-AR300-7	BLANK	---	0	100	0	-----

- \* FIBER DENSITY IS ROUNDED TO THE NEAREST FIRST DECIMAL PLACE: F/MM<sup>3</sup>.
- \*\* IF  $E = ((\text{FIBERS}/\text{FIELDS} - (\text{BLANK FIBERS}/\text{BLANK FIELDS}))/0.00785)$  IS LESS THAN 7 FIBERS/MM<sup>3</sup> (LOD), IT IS SET TO 7 FOR THE CALCULATION OF  $C = (E + 385)/\text{VOL} \times 1000$  AND A LESS-THAN SIGN (<) IS PLACED IN FRONT OF THE RESULT. THE RESULT IS THEN ROUNDED.

AIHA Lab ID 101543.

Comments:

84-50



### FOH ANALYTICAL REQUEST FORM

STATUS:  REGULAR (7-10 work days)  RUSH needed by \_\_\_\_\_

POIS AGREEMENT #: DBH01V435101 TASK ORDER #: VA01-20810  
PROJECT TITLE/BLDG NAME/BLDG LOCATION: VA-GLAHS 18300 / 1<sup>st</sup> FLOOR  
Trayline

AGENCY NAME: Veterans Administration CONTACT PERSON: Ben Spivey  
ADDRESS: 11301 Wilshire Blvd. (1300) B-218 R-308, Los Angeles, CA 90073  
TELEPHONE #: \_\_\_\_\_ FAX #: \_\_\_\_\_

REQUEST FOR ANALYSES			
SAMPLE ID NUMBER	* MEDIA TYPE	VOLUME (L)	ANALYSIS REQUESTED
01-03-AR300-1	25mm MCE	713	PCM
01-03-AR300-2	} }	682	} }
01-03-AR300-3		900	
01-03-BK300-7		—	
COMMENTS:			

\* Specify: Solid Sorbent Tube, i.e. Charcoal, Silica Gel, etc; Filter Type; Bulk Sample: Soil; Water; Other

CHAIN OF CUSTODY (Signature and Date):  
RELINQUISHED BY: Ben Spivey 3/12/01 RECEIVED BY: Int. Person 3/14/01  
RELINQUISHED BY: [Signature] RECEIVED BY: NEEL PCH ACHAC 3/17/01

LGN#: PO182573  
(For Laboratory Use Only)



Department of Veterans Affairs

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>691</b>	3. REGION NO. <b>VISN-22</b>
---	------------------------------	---------------------------------

## 4. EMPLOYEE INFORMATION

NAME OF EMPLOYEE		
c. ADDRESS (Street, City, State & Zip Code)		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER	f. APPROVAL NO. (For Respirators)

g. DESCRIPTION OF JOB, OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

h. FREQUENCY (How long job takes)	i. DURATION (How long at this job)	j. NUMBER OF EMPLOYEES DOING THIS JOB
-----------------------------------	------------------------------------	---------------------------------------

## 5. SAMPLING INFORMATION

(Fill in Sample No.) →	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE
a. SAMPLE TYPE/MEDIA	25mm MCE	25mm MCE	25mm MCE	25mm MCE	
b. SAMPLE SUBMISSION NO.	01-03-AR300-1	01-03-AR300-2	01-03-AR300-3	01-03-AR300-7	
c. TIME ON	1040	1040	1550		
d. TIME OFF	1550	1550	1650		
e. TOTAL TIME (In minutes)	310	310	60		
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> cc/min	2.3	2.2	15		
g. VOLUME (in liters)	713	682	900		

## 6. RESULTS (For Laboratory Use)

P = PPM    M = mg/m<sup>3</sup>    F = Fibers    C = Ceiling    T = Time Weighted Average

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	a. PERCENTAGE		T/C	DATE
							UNIT	RESULT		
Asbestos	f/cc									
"	f/cc									
"	f/cc									

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**PCM NIOSH 7400**

8. IH COMMENTS TO LABORATORY

9a. ANALYTICAL LABORATORY NAME <b>FOH Asbestos Lab</b>	9c. AIHA ACCREDITATION NUMBER
9b. ADDRESS <b>Denver, CO</b>	9d. PAT NUMBER

9. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.) **10828 #2 #1=60A080 #3=6789**

10a. (PRE) CALIBRATION DATE <b>3/7/01</b>	10b. FLOW RATE CALCULATIONS 2.0 = 2.3    15 = 15 1.9 = 2.2    HV-1 + HV-3 Rotometer	10c. (POST) CALIBRATION DATE <b>3/7/01</b>	10d. FLOW RATE CALCULATIONS 2 = 2.3    15 = 15 1.9 = 2.2    HV-1 + HV-3 Rotometer
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling)  
**Spivey, OHST**

SURVEY DATE **3/7/01**

USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

3/7/01

1  
2  
3



**Environmental Laboratory  
Denver**

PO Box 25145, Bldg. 41, Rm. 190  
Denver, CO 80225-0145

Invoice No. VA01-2081D

**INVOICE**

Customer		Date
Name	VA-GLAHS 130B (M. Stemmons)	3/18/2001
Address	11301 Wilshire Blvd Ben Spivey	Order No. D8H01VA35101
City	Los Angeles State CA ZIP 90073	Rep MAS
Phone	[REDACTED]	FOB FOH5

Qty	Description	Unit Price	TOTAL
4	NIOSH 7400 Los Angeles, CA Bldg 300 1st Floor LGN P0182573	\$10.00	\$40.00

**NOTE:  
THE AMOUNTS ABOVE HAVE BEEN BILLED TO YOUR POIS  
AGREEMENT REFERENCED ABOVE IN ORDER NO. BLOCK**

**Payment Details**

OPAC  
 SF1080  
 Credit Card

Name \_\_\_\_\_  
 CC # \_\_\_\_\_  
 Expires \_\_\_\_\_

SubTotal	\$40.00
Shipping & Handling	\$0.00
Taxes	
<b>TOTAL</b>	<b>\$40.00</b>

Office Use Only

84-53

SUBMITTAL FORM/Laboratory Services

70350

TURNAROUND TIME: STD 48 HR. 24 HR. 8 HR. X WKND OTHER: NIGHT

RELINQUISHED BY Ben Spivey TIME / DATE 3/7/01 - 1830

CLIENT VA-Glahs (130B) ADDRESS 11301 Wilshire Blvd. Bldg 218 Los Angeles, CA 90073 Rm 308

DATE OF SHIPMENT CARRIER CLIENT P.O. NO. CLIENT JOB/PROJECT ID NO(S) 99012

TELEPHONE CONTACT Ben Spivey (cell)

PACKAGE SHIPPED FROM CLIENT FAX NO.

RESULTS REQUESTED VIA VERBAL FAX (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/7/01 - 1550

SAMPLE PRESERVATIVES NO. OF SAMPLES SENT 3 SAMPLER'S NAME Ben Spivey TYPE: WATER WASTE WATER SOIL FILTER SORBENT TUBE IMPINGER OTHER

(FOR EMS ONLY) EMS Sample No.

Table with columns: CLIENT SAMPLE NO., DESCRIPTION/LOCATION, ANALYSIS. Rows include: 01-03-AR300-4 Asbestos - PCM 13974; 01-03-AR300-5 Asbestos - TEM (AHERA) 1112 Litms; 01-03-BK300-6 Blank.

FOR E NLY (SF 5/00)

Laboratory No. 70350 Received By Time 7:40

Date of Package Delivery 3/7/01 Shipping Bill Retained: YES NONE

Condition of Package on Receipt 7000 Condition of Custody Seal

No. of Samples 3 Chain-of-Custody Signature

Date of Acceptance into Sample Bank 3/7/01 Misc. Info 8454

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO.	3. REGION NO.
---	----------------	---------------

### 4. EMPLOYEE INFORMATION

a. NAME OF EMPLOYEE		
b. ADDRESS (Street, City, State & Zip Code)		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER	f. APPROVAL NO. (For Respirators)
g. DESCRIPTION OF JOB, OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).		
h. FREQUENCY (How long job takes)	i. DURATION (How long at this job)	j. NUMBER OF EMPLOYEES DOING THIS JOB

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 1	SAMPLE 2	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	MCE 25mm	MCE 25mm	MCE 25mm		
b. SAMPLE SUBMISSION NO.	01-03-AR300-4	01-03-AR300-5	01-03-BK300-6		
c. TIME ON	1550	1550			
d. TIME OFF					
TOTAL TIME (In minutes)					
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> cc/min	15	12			
g. VOLUME (in liters)					

### 6. RESULTS (For Laboratory Use)

P = PPM    M = mg/m<sup>3</sup>    F = Fibers    C = Celling    T = Time Weighted Average

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	a. PERCENTAGE		b. TYPE		
						RESULT	UNIT	RESULT	T/C	DATE
1 Asbestos	f/cc									
2 Asbestos	f/m <sup>3</sup>									

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

Sample 1 = PCM NIOSH 7400

Sample 2 = TEM - AHERA

8. IH COMMENTS TO LABORATORY:

9a. ANALYTICAL LABORATORY NAME	9c. AIHA ACCREDITATION NUMBER
9b. ADDRESS	9d. PAT NUMBER

### EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

9. (PRE) CALIBRATION DATE 3/7/01	10b. FLOW RATE CALCULATIONS	10c. (POST) CALIBRATION DATE 3/7/01	10d. FLOW RATE CALCULATIONS
11. NAME & JOB TITLE (Person Performing Sampling) Ben K. Spivey, OHST		SURVEY DATE 3/7/01	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.



# NIOSH FIBER COUNT (METHOD 7400 REVISION 3, A RULES) Phase Contrast Microscopy of Air Samples

Report No: 70350 Date Received: 03-07-2001 Filter Size: 25MM Filter Area: 385  
 Client: VA GLARS Date Analysed: 03-07-2001 Filter Type: MCE Field Area: 0.00785MM  
 Attention: B.SPIVEY Reference: (130B) Mag: 400x  
 File Name: 70350VA.WKS 99012

Sample I.D.	Fields Counted	Fibers Counted	F/mm Sq.	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL-SENT
01-03-AR300-4	100	6	8	2943	1397	0.0021	0.0019	0.0281	0.0004
01-03-BK300-6	100	0	0	0	BLANK	N.A.			

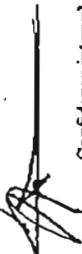
1312

LOD = LIMIT OF DETECTION (7 FIBERS/MM SQRT)  
 LOQ = LIMIT OF QUANTIFICATION (80 FIBERS/MM SQRT)

ANL-SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 N.A. = NOT AVAILABLE N.D. = NONE DETECTED

ALHA Registered Asbestos Analyst  
 J. Wan

B.M. Kolk, Laboratory Director  
 B.M. Kolk



Inurlaboratory Sr is taken as 0.45 Inurlaboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

84-56

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
---	-----------------------	---------------------------

**4. EMPLOYEE INFORMATION**

NAME OF EMPLOYEE N/A		SSN N/A	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) N/A			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date : 12/05/02**  
**Contractor: Unlimited Environmental, Inc.**  
**Project: 9"x 9" Floor Tile & Mastic Removal**  
**Location: Bldg. 114 Room. 108B Floor 1<sup>st</sup> Floor**

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE -12/5	SAMPLE -12/5	SAMPLE -12/5
a. SAMPLE TYPE/MEDIA	BL/PCM	REM/PCM	REM/PCM
b. SAMPLE SUBMISSION NO.	0212AX1148B-01	0212AX1148B-02	0212AX1148B-03
c. TIME ON	10:15	13:00	13:05
d. TIME OFF	12:15	14:40	14:45
e. TOTAL TIME (In minutes)	120	100	100
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> C/min	15	15	15
g. VOLUME (in liters)	1800	1500	1500

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average							a. PERCENTAGE	
							b. TYPE	
SUBSTANCE †	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT		
Asbestos	F/CC	0.0553	F/CC	0.1071	F/CC	0.006		

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy  
 Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
 PCM and TEM

9a. ANALYTICAL LABORATORY NAME  
**EMS Laboratories**

AIHA ACCREDITATION NUMBER  
 NVLAP # 101218

9b. ADDRESS  
 117 West Bellevue Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 12/5/02	10b. FLOW RATE CALCULATIONS 15 LPM	10c. (POST) CALI-BRATION DATE 12/5 - 12/6	10d. FLOW RATE CALCULATIONS 15 LPM
---	---------------------------------------	--	---------------------------------------

NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 12/05/02	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	--

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
---	-----------------------	---------------------------

**4. EMPLOYEE INFORMATION**

NAME OF EMPLOYEE N/A		SSN N/A	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) N/A			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 12/06/02  
**Contractor:** Unlimited Environmental, Inc.  
**Project:** 9"x 9" Floor Tile & Mastic Removal  
**Location:** Bldg. 114 Room. 108B Floor 1<sup>st</sup> Floor

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE -12/8	SAMPLE -12/06	SAMPLE -12/06	SAMPLE -	SAMPLE -
a. SAMPLE TYPE/MEDIA	REM/PCM	REM/PCM	CL/TEM		
b. SAMPLE SUBMISSION NO.	0212AX1148B-04	0212AX1148B-05	0212AX1148B-06		
c. TIME ON	08:30	08:35	15:00		
d. TIME OFF	11:30	11:35	16:20		
e. TOTAL TIME (in minutes)	180	180	80		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	15	15	15		
g. VOLUME (in liters)	2700	2700	1200		

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average							a. PERCENTAGE				
							b. TYPE				
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	
Asbestos	F/CC	0.005	F/CC	0.0016	Structures	ND					

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy  
 Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
 PCM and TEM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 12/6	10b. FLOW RATE CALCULATIONS 15 LPM	10c. (POST) CALI- BRATION DATE 12/6	10d. FLOW RATE CALCULATIONS 15 LPM
--------------------------------------	---------------------------------------	--	---------------------------------------

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 12/06	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	---------------	--

84-58

Date: 12/16/02  
From: Industrial Hygiene (130B)  
Subject: ASBESTOS ABATEMENT REPORT  
Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement Dates: 12/5-6/02

Location: VA Hospital Bldg, 114 Men's Room 108 B 1<sup>st</sup> Floor

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Non-Friable Floor Tile & Mastic

Quantity of ACM: 300 Square feet

Abatement Type & Method(s): Full Containment, Negative Air Exhaust, Wet Removal

Contractor Licensed & Registered: Yes  No   
Worker Training Current: Yes  No  Fit Tested: Yes  No   
Worker Annual Medical Current: Yes  No  Safety Meeting: Yes  No   
Notification to: SCAQMD Yes  No  CAL/OSHA Yes  No   
Date: \_\_\_\_\_ Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes  No
- B. Employees in Building Notified of Abatement: Yes  No
- C. Competent Person Outside of Work Area: Yes  No
- D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes  No
- B. Contractor Calibrated Pumps: Yes  No
- C. Contractor's AIHA PAT Lab: \_\_\_\_\_
- D. VAMC - IH Monitoring:
  - 1. Personal (VA): Yes  No  Worker's Name/SS #: \_\_\_\_\_
  - 2. Pre-Tests: 0212AX1148B-01
  - 3. Perimeter: 0212AX1148B-02, 0212AX1148B-03, 0212AX1148B-04, 0212AX1148B-05

- 4. Inside Work Area:
- 5. Clearance: 0212AX1148B-06 on 12/6
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: Half Face North
- B. Coveralls:  Hoods & Boots: Yes  No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes  No

IV. Engineering Controls:

- A. Glovebags: Yes  No  Properly Taped to Pipes: Yes  No
- B. Containment: Yes  No  Thickness of Polyethylene: 6 Mil
- C. Proper Decon: Yes  No  No. Chambers: 3 Shower: Yes  No
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes  No
- E. Neg. Air/HEPA Filtration Used: Yes  No  Licensed: Vac. Only Yes  No
- F. Adeq. Neg. Pressure Diff. in Containment Yes  No
- G. Amended Water Used: Yes  No  How Applied: Sprayed
- H. External AFD Filters Replaced Daily: Yes  No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes  No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes  No
- K. Encapsulation: Yes  No  Name & Type: Foster 32/60
- L. Work Area Ready for Clearance Air Testing Yes  No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 114, Floor 1st, Rooms 108B indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 12/6/02 are as follows:
 

Bldg. <u>114</u>	Floor: <u>1st</u>	Room: <u>108B</u>	<u>ND</u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> fibers/cc

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist James Spencer / Zawad Aludis  
84-60

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >Sum in Length and, count in 20 to 100 fields)

Report No: 83383      Date Received: 12-9-02      Filter Type: MCE      Filter Area: 385  
 Client: VAGLAHS      Date Analyzed: 12-9-02      Mag: 400x      Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD      Date Sampled: 12/5-6/02      Project #: 691-C1094      Filter Size: 25MM  
LOS ANGELES, CA 90073      Attention: BSPVEY      File Name: 83383VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
0212AX1148001	50	101.5	259	99561	1800.0	0.0553	0.0015	0.0171	0.0003
0212AX1148002	31	101.5	417	160581	1500.0	0.1071	0.0018	0.0205	0.0003
0212AX1148003	100	18.5	24	9073	1500.0	0.0060	0.0018	0.0205	0.0003
0212AX1148004	100	27.5	35	13487	2700.0	0.0050	0.0010	0.0114	0.0002
0212AX1148005	100	9	11	4414	2700.0	0.0016	0.0010	0.0114	0.0002

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.mm)      ANL.SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ = LIMIT OF QUANTITATION (30 FIBERS/Sq.mm)      N.A. = NOT AVAILABLE      N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst

I.D. 7795    CARL BERGMAN

I.D. 2013    JEFF WAN

I.D. 3276    S. AHMAD

*Carl Bergman*

B.M. Kolk, Laboratory Director *B.M. Kolk*

Intralaboratory Sr is taken as 0.45    Intralaboratory Sr is 0.3

NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

8461

DATE: December 10, 2002

CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073

ATTENTION: Ben Spivey

REFERENCE: P.O. NO. 691-C1094

COLLECTED: 12/5/02 and 12/6/02 by Ken Hooper

REPORT NO: 83383.1

DATE RECEIVED: December 9, 2002 at 0930

DATE ANALYZED: December 9, 2002

ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: 0212CL1148B06CL IN 114-88

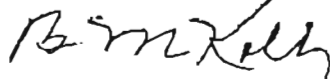
The air sample was analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

No asbestos was detected in the sample ; the analytical sensitivity reached was 0.005 structures per cubic centimeter.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

cc: Dr. Zainul Abedin

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

8462

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 82353.1  
 ▶ Client V.A. GILBERTS  
 ▶ Location  
 ▶ Date Received 12/9/02  
 ▶ Date Analyzed 12/04/02  
 ▶ Verbal Results  
 ▶ Fax Results

<b>DIRECT PREP</b> <input checked="" type="checkbox"/>	<b>ASPECT RATIO</b>	<b>STRUCTURE SIZE</b>
<b>INDIRECT PREP</b> <input type="checkbox"/>	3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> $\geq 5 \mu\text{m}$ Length <input type="checkbox"/> $\geq 0.5 \mu\text{m}$ Length <input checked="" type="checkbox"/> PCM Range* <input type="checkbox"/> $\geq 1 \mu\text{m}$ Length <input type="checkbox"/> $\geq 1 \mu\text{m}$ Width <input type="checkbox"/> $\geq 5.0 \mu\text{m}$ Length <input type="checkbox"/> $\geq 5.0 \mu\text{m}$ Length <input type="checkbox"/>
LEVEL I <input type="checkbox"/>		
LEVEL II <input type="checkbox"/>		

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

0212CL1148B06CL	1200	N.D.	N.D.	0.005	0	0.02
-----------------	------	------	------	-------	---	------

84-63

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision # 1: 5/15/89.

Comments:

\_\_\_\_\_



SUBMITTAL FORM / Laboratory Services

83383

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER: RUSH-TEM RELINQUISHED BY J. DAVIS TIME / DATE 5 PM / 12-5

CLIENT VA-GLAHS (130b) DATE OF SHIPMENT 12/5 CARRIER Fed Ex  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO. 691-61099  
LOS ANGELES, CA 90073 RM 308 CLIENT JOB/PROJECT ID NO(S) \_\_\_\_\_

TELEPHONE \_\_\_\_\_ CONTACT BEN SPIVEY PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_  
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 12/5 and 12/6  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 6 SAMPLER'S NAME Ken Houson / Ken Houson  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME
83383-1	0212AX1148B-01	BASE LINE		PCM	1800
2	02	REM - DECON		PCM	1500
3	03	REM - NEG AIR		PCM	1500
4	04	REM - DECON		PCM	2700
5	05	REM - NEG AIR		PCM	2700
RUSH	0212CL1148B06	CL IN 114-88		TEM	1200
83383.1-6	NOTE: CALL BEN SPIVEY @ 310-201-4200 WITH RESULTS. Also Notify Zarnul				
	FAX	818 547-1331			

FOR EM... (SF 5/00)

Laboratory No. 83383 Received By [Signature] Time 9:30

Date of Package Delivery 12-9-02 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal none  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 5 + 1 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 12-9-02 Misc. Info \_\_\_\_\_

Disposition of Samples EMSA LAB 84-64

DATE: December 10, 2002  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C1094  
COLLECTED: 12/5/02 and 12/6/02 by Ken Hooper  
REPORT NO: 83383.1  
DATE RECEIVED: December 9, 2002 at 0930  
DATE ANALYZED: December 9, 2002  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: 0212CL1148B06CL IN 114-8B

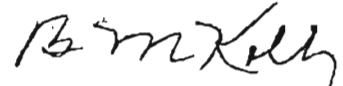
The air sample was analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

No asbestos was detected in the sample ; the analytical sensitivity reached was 0.005 structures per cubic centimeter.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

cc: Dr. Zainul Abedin

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc. Any deviation or exclusion from the test method is noted in this cover letter. Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

84-65

SUBMITTAL FORM/Laboratory Services

83383.1

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND OTHER: RUSH-TEM

RELINQUISHED BY: T. DAVIS

TIME / DATE: 5 PM / 12-5

CLIENT: VA-GLAHS (1306)  
 ADDRESS: 11301 WILSHIRE BLVD, BLDG 218  
 LOS ANGELES, CA 90073 RM 308

DATE OF SHIPMENT: 12/5 CARRIER: FED EX

CLIENT P.O. NO.: 691-61099

CLIENT JOB/PROJECT ID NO(S):

TELEPHONE: [REDACTED]  
 CONTACT: BEN SPIVEY

PACKAGE SHIPPED FROM:

RESULTS REQUESTED VIA: VERBAL  FAX

CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION: 12/5 and 12/6

SAMPLE PRESERVATIVES: \_\_\_\_\_ HOLDING TIMES: \_\_\_\_\_

NO. OF SAMPLES SENT: 6 SAMPLER'S NAME: [Signature] / Ken Hoover

SIGNATURE PRINTED

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT TEMP. LABEL
83383-1	0212AX1148B-01	BASELINE		PCM	1800
2	02	REM-DECON		PCM	1500
3	03	REM-NEG AIR		PCM	1500
4	04	REM-DECON		PCM	2700
5	05	REM-NEG AIR		PCM	2700
RUSH	0212CL1148B06	CL IN 114-8B		TEM	1200
83383.1-6	NOTE: CAL BEN SPIVEY @ 310-201-4200 WITH RESULTS. Also Notify Zainul				
	FAX 818 547-1331				

FOR EMS ONLY (SF 5/00)

Laboratory No. 83383 L 83383.1 Received By: [Signature] Time: 9:30

Date of Package Delivery: 12-9-02 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt: [Signature] Condition of Custody Seal: none

No. of Samples: 5-7-1 Chain-of-Custody Signature: [Signature]

Date of Acceptance into Sample Bank: 12-9-02 Misc. Info: Rt-66

Disposition of Samples: [Signature]

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 83383.1  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 12/9/02  
 ▶ Date Analyzed \_\_\_\_\_  
 ▶ Verbal Results \_\_\_\_\_  
 ▶ Fax Results \_\_\_\_\_

DIRECT PREP	<input checked="" type="checkbox"/>	ASPECT RATIO	3:1	STRUCTURE SIZE	≥ 5 μm Length
INDIRECT PREP	<input type="checkbox"/>		5:1	AD Sizes (EPA)	≥ 0.5 μm Length
LEVEL I	<input type="checkbox"/>			PCM Range*	≥ 1 μm Length
LEVEL II	<input type="checkbox"/>				≥ 25 μm Width
					≥ 5.0 μm Length

Sample Identification	Volume (L)	Mass (mg)	Structure	Analytical Sensitivity	95% CONFIDENCE LEVELS	
					Lower Limit	Upper Limit
0212CL1148B06CL	1200	N.D.	N.D.	0.005	0	0.02

04-67

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments:

TEM ASBESTOS AIR REPORT

CLIENT: V.A.:G.L.A.H.S.  
 EMS NO: 83383.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 0212CL1148B06CL  
 RECEIVED: 12/9/02 ANALYZED: 12/9/02  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0658  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0094  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. MEAN	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	/cc
Total Amphibole Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. MEAN	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	/cc
Total Number of Asbestos Bundles .....	N.D. ....	N.D. /cc
Total Number of Asbestos Cluster Clumps .....	N.D. ....	N.D. /cc
Total Number of Asbestos Matrix/Debris .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Chrysotile .....	N.D. ....	N.D. /cc
Amphibole .....	N.D. ....	N.D. /cc
Crocidolite .....	N.D. ....	N.D. /cc
Tremolite .....	N.D. ....	N.D. /cc
Amosite .....	N.D. ....	N.D. /cc
Anthophyllite .....	N.D. ....	N.D. /cc
Actinolite .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D. ....	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	N.D.	

REMARKS: LIGHT TO MODERATE DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-68

# TEM ANAESTOSIS ANALYSIS

EMS Lab No. 833831  
 Client VA GLASS  
 Sample No. 0217201480

**RECEIVING**

**METHOD OF ANALYSIS**  
 EPA Yarnale Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1

**LENGTHS**

All Sizes (EPA)   
 (µm) : ≥ 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*  
 10-25 µm width, ≤ 5.0 µm length

Approved By SIA Date 12-9-01

**TYPE OF SAMPLE**

Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvas

**PREP**

**FILTER TYPE/AREA (mm²)**  
 MCE/385   
 MCE/314   
 MCE/1017   
 Other

**PORE SIZE**  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

G.O. Area (min) 0.0

No. of G.O. to Analyze 7  
 Filter Lot No. 097

**ANALYSIS**

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 20 litres  
 Working Volume 7.5 ml  
 Weight 194.0 g/ma  
 Ashed Area 7.5 %

Date 9/1  
 Prepared By Y. K. K. K.

Date 12-9-01  
 Prepared By Y. K. K. K.

**MICROSCOPE**

H600A - Serial No. 542-24-03   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-36-01

Grid Address A  
 Screen Magnification 1940x  
 Camera Constant 7.5  
 Accelerating Voltage 100 KV  
 Beam Current 1 µA

**A**

Date 12-9-01  
 Analyst L. W. W.

EDS Analysis			SAED Observation				Dimension (mm)			Thickness		Comments			
Id	Fe	Ca	Si	Mg	Na	Chrysofite	Amphibole	Amphigeous	Non Asbestos	No Pattern	Width	Length	Structure Number	Structure Opening	Comments

*(Handwritten notes on the table grid)*

69-69

16 Lines  
**OBSERVATIONS:** Clean   
 Debris:   
 Gypsum:   
 Condition of the Grid:  Good  
 Very Light  
 Light  
 Moderate  
 Moderate  
 Undissolved Filter  
 Heavy  
 Heavy  
 Folded  
 Very Heavy  
 Very Heavy

# TEM ASBESTOS ANALYSIS

EMS Lab No. 43383  
 Client VA GUARDS  
 Sample No. 0212CL1148B06

## ANALYSIS

Page      of       
 MICROSCOPE  
 H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

Grid Address B  
 Screen Magnification 1000x  
 Camera Constant 28.5  
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

Analyst S. Ahmad Date 12/9/02

## RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>C5-16</u>	<u>N50</u>	<u>N50</u>															
<u>C5-14</u>	<u>N50</u>	<u>N50</u>															
<u>C5-13</u>	<u>N50</u>	<u>N50</u>															
<u>C5-12</u>	<u>N50</u>	<u>N50</u>															

C5-16 N50  
C5-14 N50  
C5-13 N50  
C5-12 N50

04 70

10 Lines

OBSERVATIONS: Clean  Debris  Gypsum   
 Condition of the Grid:  Very Light  Light  Scrappy  Undissolved Filter  Moderate  Moderate  Heavy  Heavy  Folded  Very Heavy  Very Heavy

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

### 4. EMPLOYEE INFORMATION

NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date : 12/10/02**  
**Project: Floor Tile & Mastic Removal**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 208 Room. 112 Floor : First Floor**

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE_01	SAMPL_02	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	BL/PCM	BL/PCM			
b. SAMPLE SUBMISSION NO.	0212AX208R112-1	0212AX208R112-2			
c. TIME ON	09:00	09:05			
d. TIME OFF	11:00	11:05			
e. TOTAL TIME (In minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> C/min	15	15			
g. VOLUME (in liters)	1,800	1800			

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average					a. PERCENTAGE			DATE
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	b. TYPE			
Asbestos	F/CC	0.0294	F/CC	0.023				12/10/02

### 7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

### 10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>12/10/02</b>	10b. FLOW RATE CALCULATIONS <b>15 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>12/10/02</b>	10d. FLOW RATE CALCULATIONS <b>10 liters/minute</b>
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>12/10/02</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-------------------------	---

84-71



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

### 4. EMPLOYEE INFORMATION

b. NAME OF EMPLOYEE N/A		SSN N/A	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) N/A			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space Is Needed Use Reverse).

**Date :** 12/11/02  
**Project:** Floor Tile & Mastic Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 208 Room. 112 Floor : First Floor

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

### 5. SAMPLING INFORMATION

(Fill In Sample No.)	SAMPLE_03	SAMPL_04	SAMPLE_05	SAMPLE_06	SAMPLE_07
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM	Area/PCM	Area/PCM	
b. SAMPLE SUBMISSION NO..	0212AX208R112-3	0212AX208R112-4	0212AX208R112-5	0212AX208R112-6	
c. TIME ON	08:45	09:00	12:15	12:20	
d. TIME OFF	11:00	11:00	14:25	14:30	
e. TOTAL TIME (In minutes)	135	120	130	130	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	15	15	
g. VOLUME (in liters)	2025	1800	1950	1950	

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	a. PERCENTAGE		DATE
							UNIT	RESULT	
Asbestos	F/CC	0.0016	F/CC	0.0078	F/CC	0.0008	F/CC	0.0059	12/11/02

### 7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER

### 10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE 12/11/02	10b. FLOW RATE CALCULATIONS 15 liters/minute	10c. (POST) CALIBRATION DATE 12/11/02	10d. FLOW RATE CALCULATIONS 15 liters/minute
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE 12/11/02	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	------------------	--

84-72

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

**4. EMPLOYEE INFORMATION**

c. NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 12/12/02  
**Project:** Floor Tile & Mastic Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 208 Room. 112 Floor : First Floor

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE_07	SAMPL_08	SAMPLE_	SAMPLE_	SAMPLE_
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM			
b. SAMPLE SUBMISSION NO.	0212AX208R112-7	0212AX208R112-8			
c. TIME ON	09:00	09:10			
d. TIME OFF	15:00	11:10			
e. TOTAL TIME (in minutes)	360	360			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15			
g. VOLUME (in liters)	5400	5400			

**8. RESULTS (For Laboratory Use)**

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average					a. PERCENTAGE	
					b. TYPE	
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT		DATE
Asbestos	F/CC	0.0003	F/CC	0.0005		12/12/02

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>12/12/02</b>	10b. FLOW RATE CALCULATIONS <b>15 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>12/12/02</b>	10d. FLOW RATE CALCULATIONS <b>15 liters/minute</b>
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>12/12/02</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-------------------------	---

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
d. NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE
e. ADDRESS (Street, City, State & Zip Code) N/A		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 12/13/02  
**Project:** Floor Tile & Mastic Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 208 Room. 112 Floor : First Floor

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE_03	SAMPL_04	SAMPLE_	SAMPLE_	SAMPLE_
a. SAMPLE TYPE/MEDIA	CL/TEM	CL/TEM			
b. SAMPLE SUBMISSION NO.	0212CL208R112-01	0212CL208R112-02			
c. TIME ON	09:00	09:10			
d. TIME OFF	11:00	11:10			
e. TOTAL TIME (In minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10			
g. VOLUME (in liters)	1200	1200			

6. RESULTS (For Laboratory Use)									
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE			
						b. TYPE			
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	DATE
Asbestos	S/mm2	ND	S/mm2	ND					12/13/02

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
 TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 12/13/02	10b. FLOW RATE CALCULATIONS 10 liters/minute	10c. (POST) CALI-BRATION DATE 12/12/02	10d. FLOW RATE CALCULATIONS 10 liters/minute
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE 12/13/02	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	------------------	---

84-74

Date: 12/10/02 to 12/13/02  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 12/10/02 to 12/13/02

Location: VA Hospital Bldg. 208 Room 112 First Floor

Abatement Company: Unlimited

Phone Number:                     

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Floor Tile & Mastic

Quantity of ACM: Approximately 1500 sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date:                                     

CAL/OSHA Yes X No       
Date:                                     

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

A. OSHA Employee Monitoring: 8 Hr. TWA: Name:                      Yes      No X

B. Contractor Calibrated Pumps: Yes X No     

C. Contractor's AIHA PAT Lab:

D. VAMC - IH Monitoring:

1. Personal (VA): Yes      No X Worker's Name/SS #:                     

2. Pre-Tests: 0212AX208112-1, 2

3. Perimeter:

4. Inside Work Area: 0212AX208112-3, 4, 5, 6, 7, 8

84-75

5. Clearance: : 0212CL208112-1, 2

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glove bags: Yes      No X Properly Taped to Pipes: Yes X No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 2 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes      No X Name & Type:
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 208, Floor: First, Rooms: 112 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 12/13/02 are as follows:

Bldg. <u>208</u>	Floor: <u>First</u>	Room: <u>112</u>	<u>ND</u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer

84 76

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100-fields)

**Report No:** 83520      **Date Received:** 12-16-02      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analysed:** 12-19-02      **Mag:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 12/10-13/02      **Project #:** BLDG 208 RM 112      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** 83520VACL-AHS-AIR      **File Name:**

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm.	Fiber/Filter	Volume (L/L)	Fibers/CC	LOD	LOQ	ANL SENT.
0212AX208112-1	93	100.5	138	53000	1800.0	0.0294	0.0015	0.0171	0.0003
0212AX208112-2	100	83	106	40707	1800.0	0.023	0.0015	0.0171	0.0003
0212AX208112-3	100	7	9	3433	2125.0	0.0016	0.0013	0.0145	0.0002
0212AX208112-4	100	28.5	36	13978	1800.0	0.0078	0.0015	0.0171	0.0003
0212AX208112-5	100	3	4	1471	1950.0	0.0008	0.0014	0.0158	0.0003
0212AX208112-6	100	23.5	30	11525	1950.0	0.0059	0.0014	0.0158	0.0003
0212AX208112-7	100	3.5	4	1717	5400.0	0.0003	0.0005	0.0057	0.0001
0212AX208112-8	100	6	8	2943	5400.0	0.0005	0.0005	0.0057	0.0001

LOD = LIMIT OF DETECTION (7 FIBERS/ Sq.mm)      ANL SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ = LIMIT OF QUANTTATION (80 FIBERS/ Sq.mm)      N.A. = NOT AVAILABLE      N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst *Carl Bergman*  
 I.D. 7795      **CARL BERGMAN**  
 I.D. 2033      **JEFF WAN**  
 I.D. 3276      **S.AHMAD**  
 Interlaboratory Sr is taken as 0.45 Interlaboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-52**

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
 B.M. Kolk, Laboratory Director *B.M. Kolk*

84-77

**SUBMITTAL FORM/Laboratory Services**

**83520**

P/GE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.   
 <8 HR.  WKND  OTHER:

RELINQUISHED BY T. Daniel

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

TIME / DATE 12/13/02

DATE OF SHIPMENT 12/12 CARRIER \_\_\_\_\_

TELEPHONE \_\_\_\_\_  
 CONTACT BEN SPIVEY

CLIENT P.O. NO. \_\_\_\_\_

CLIENT JOB/PROJECT ID NO(S) BLDG. 208

Room 112  
 PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA  VERBAL  FAX   
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

CLIENT FAX NO. \_\_\_\_\_

DATE/TIME OF SAMPLE COLLECTION 12/10/02 - 12/13/02

SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT 10 SAMPLER'S NAME Ken Hooper / Ken Hodson

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

VOLUME  
TIME NEEDED

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME NEEDED
83520-1	0212AX208112-1	BACKGROUND	IN Rm 112	PCM	-	1800
2	-2	"	HALL OUTSIDE 112	PCM	-	1800
3	-3	Neg AIR		PCM	-	2125
4	-4	DECON		PCM	-	1802
5	-5	Neg AIR		PCM	-	1951
6	-6	DECON		PCM	-	1951
7	-7	DECON		PCM	-	5400
8	-8	Neg AIR		PCM	-	5400
83520.1-1	0212CL208112-01	CLEARANCE NORTH	IN 112	TOM	-	1200
2	"	"	SOUTH 112	TOM	-	1200

↓

Rush by  
12 PM  
12/16/02 FAX

Also Notify Zaniel  
818-547-1331

(SF 5/00)

**83520.1**

Laboratory No. \_\_\_\_\_ Received By [Signature] Time 9:30

Date of Package Delivery 12-16-02 Shipping Bill Returned: YES  NONE

Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal none  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 8 + 2 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 12-16-02 Misc. Info \_\_\_\_\_

Disposition of Samples EMS LAB 818-78

FOR EMS ONLY

DATE: December 17, 2002

CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073

ATTENTION: Ben Spivey

REFERENCE: P.O. NO. 691-C10949  
Bldg 208 Room 112

COLLECTED: 12/10/02 - 12/13/02 BY Ken Hooper

REPORT NO: 83520.1

DATE RECEIVED: 12/16/02 0930

TEM Request 12/16/02

DATE ANALYZED: 12/16/02

ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)

SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as:

0212CL208112-01 Clearance North in 112  
0212CL208112-02 Clearance South in 112

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,  
EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

AJK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc. Any deviation or exclusion from the test method is noted in this cover letter. Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

84-79





# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 83520.1 12/16/02 12/16/02 Verbal Results  
 Client V.A.C.L.A.H.S. Date Received Date Analyzed Fax Results  
 Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	≥ 0.5 μm Length <input checked="" type="checkbox"/>
LEVEL II <input type="checkbox"/>		≥ 1 μm Length <input type="checkbox"/>
		≥ 2.5 μm Width <input type="checkbox"/>
		≥ 5.0 μm Length <input type="checkbox"/>

95% CONFIDENCE LEVELS

Sample Identification	Volume (l)	Mass of Structures and Structures (mg/m <sup>3</sup> )	Analytical Sensitivity	Lower Limit	Upper Limit
-----------------------	------------	--	------------------------	-------------	-------------

0212CL208112-01	1200	N.D.	N.D.	0	0.02
0212CL208112-02	1200	N.D.	N.D.	0	0.02

08-80

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U. S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamata, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments:

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 82520.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 0212CL208112-01  
 RECEIVED: 12/16/02 ANALYZED: 12/16/02  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0658  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0094  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. <i>MEAN</i>	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.    N.D. / N.D.	/cc
Total Amphibole Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. <i>MEAN</i>	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.    N.D. / N.D.	/cc
Total Number of Asbestos Bundles .....	N.D. ....	N.D. /cc
Total Number of Asbestos Cluster Clumps .....	N.D. ....	N.D. /cc
Total Number of Asbestos Matrix/Debris .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Chrysotile .....	N.D. ....	N.D. /cc
Amphibole .....	N.D. ....	N.D. /cc
Crocidolite .....	N.D. ....	N.D. /cc
Tremolite .....	N.D. ....	N.D. /cc
Amosite .....	N.D. ....	N.D. /cc
Anthophyllite .....	N.D. ....	N.D. /cc
Actinolite .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D. ....	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	N.D. ....	

REMARKS: LIGHT DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-81

# TEM ASTOS ANALYSIS

EMS Lab No. 83520-1  
 Client LA 62411  
 Sample No. 0212CL 208112-01

**METHOD OF ANALYSIS**  
 EPA Yarnels Level I   
 Level II   
 Level III   
 AMERA   
 ASPECT RATIO 3:1  5:1

**LENGTHS**  
 All Sizes (EPA)   
 (µm) : ≥ 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*   
 \*0.25 µm width, > 5.0 µm length

**TYPE OF SAMPLE**  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

**TYPE AREA (µm<sup>2</sup>)**  
 MCE/385   
 MCE/314   
 MCE/1017   
 Other

**PORE SIZE**  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

**RECEIVING**  
 G.D. Area (mm<sup>2</sup>) 0.094  
 No. of G.D. to Analyze 7

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 120 µl  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Aired Area \_\_\_\_\_ %

**ANALYSIS**  
 Date 12-16  
 Prepared By [Signature]

GHI Address \_\_\_\_\_  
 Screen Magnification 1400x  
 Camera Constant 261  
 Accelerating Voltage 100KV  
 Beam Current 16 µA

Page 51  
 MICROSCOPE  
 H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

Grid Opening \_\_\_\_\_  
 Structure Number \_\_\_\_\_  
 Structure \_\_\_\_\_

Dimension (mm)  
 Width \_\_\_\_\_  
 Length \_\_\_\_\_  
 Thickness \_\_\_\_\_

SAED Observation  
 Chlorite   
 Amphibole   
 Amorphous   
 Non Asbestos   
 No Pattern

EDS Analysis  
 Na \_\_\_\_\_  
 Mg \_\_\_\_\_  
 Si \_\_\_\_\_  
 Ca \_\_\_\_\_  
 Fe \_\_\_\_\_  
 Id \_\_\_\_\_

Comments

16 Lines

OBSERVATIONS:  
 Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

EMS LABORATORIES 117 West Baltimore Drive • Pasadena, CA 91105

84-82

ANALYST: [Signature] Date: 12-16

# TEM ANALYSIS ASBESTOS ANALYSIS

EMS Lab No. 83520-1

Client VA 6194TH

Sample No. 01

Page 1 of 1  
MICROSCOPE

## RECEIVING

## ANALYSIS

Grid Address 1500A - Serial No. 542-36-01   
 Screen Magnification 1500x - Serial No. 542-05-06   
 Camera Constant 200 - Serial No. 542-24-03   
 Accelerating Voltage 100 KV   
 Beam Current 1.0 nA

Analyst Kadh Date 12-16

Comments

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation					EDS Analysis					
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe	Id
<u>W3/1</u>	<u>W3/1</u>	<u>W3/1</u>														

89483

OBSERVATIONS:  
 Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

Very Light   
 Light   
 Very Light   
 Good

Light   
 Light   
 Scabby

Moderate   
 Moderate   
 Undersized Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 82520.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 0212CL208112-02  
 RECEIVED: 12/16/02 ANALYZED: 12/16/02  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0658  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0094  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. <i>MEAN</i>	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Amphibole Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. <i>MEAN</i>	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. <i>MEAN</i>	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Number of Asbestos Bundles .....	N.D. ....	N.D. /cc
Total Number of Asbestos Cluster Clumps .....	N.D. ....	N.D. /cc
Total Number of Asbestos Matrix/Debris .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Chrysotile .....	N.D. ....	N.D. /cc
Amphibole .....	N.D. ....	N.D. /cc
Crocidolite .....	N.D. ....	N.D. /cc
Tremolite .....	N.D. ....	N.D. /cc
Amosite .....	N.D. ....	N.D. /cc
Anthophyllite .....	N.D. ....	N.D. /cc
Actinolite .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D. ....	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	N.D.	

REMARKS: MODERATE DEBRIS

\* TEM data is accurate to no more than one significant figure.

84.84

# TEM ASBESTOS ANALYSIS

EMS Lab No. 83520  
 Client VA 611AHT  
 Sample No. 0712CL20812-02

**METHOD OF ANALYSIS**  
 EPA Yarnale Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1

**LENGTHS**  
 All Sizes (EPA)  
 (µm) : > 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*  
 (>0.25 µm width, >5.0 µm length)

**TYPE OF SAMPLE**  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

**FILTER TYPE/AREA (mm²)**  
 MCE/085   
 MCE/314   
 MCE/1017   
 Other

**PORE SIZE**  
 0.45 µm  
 0.8 µm  
 0.1 µm  
 0.22 µm  
 Other

G.O. Area (mm²) 0.094  
 No. of G.O. to Analyze 7

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 12.0 µl  
 Working Volume 2.0 ml  
 Weight 2.0 grams  
 Ashed Area 10 %

Date 12-16  
 Prepared By h

## ANALYSIS

Page 01 of 01  
**MICROSCOPE**  
 H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

Grid Address A943  
 Screen Magnification 2000x  
 Camera Constant 2.0  
 Accelerating Voltage 100KV  
 Beam Current 40 µA

**A**  
 Date 12-16  
 Analyst Radhe

Grid Opening	Structure Number	Structure	Dimension (mm)	SAED Observation	EDS Analysis					Comments	
					Na	Mg	Si	Ca	Fe		Id
44-1	1	WPA		Chrysotile							
44-2	2	WPA		Amfibole							
44-3	3	WPA		Non Asbestos							
44-4	4	WPA		No Pattern							
44-5	5	WPA									
44-6	6	WPA									
44-7	7	WPA									
44-8	8	WPA									
44-9	9	WPA									

16 Lines

**OBSERVATIONS:**  
 Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

Very Light   
 Very Light   
 Good   
 Light   
 Light   
 Scrappy   
 Moderate   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded   
 Very Heavy   
 Very Heavy



EMS LABORATORIES 117 West Ravenna Drive • Parsippany, N.J. 07054-2029 • (973) 266-1100

# TEM ASTOS ANALYSIS

EMS Lab No. X 3520.1  
 Client VA GLADI  
 Sample No. 2

RECEIVING

ANALYSIS

Grids Address H600A - Serial No. 542-36-01   
 Screen Magnification 2000X H600B - Serial No. 542-05-06   
 Camera Constant 200 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu$ A

Analyst Kadhe Date 12-16-86

Grid Opening	Structure Number	Structure	Dimension (micron)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>200</u>	<u>1</u>	<u>Asbestos</u>															

16 Lines

OBSERVATIONS: Clean   
 Debris   
 Gypsum   
 Condition of the Grid:  Good  Scruppy

Very Light   
 Very Light   
 Moderate   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded   
 Very Heavy   
 Very Heavy

84-86

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES)

## Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

**Report No:** 83383 **Date Received:** 12-9-02 **Filter Type:** MCE **Filter Area:** 385  
**Client:** VAGLABS **Date Analyzed:** 12-9-02 **Mag:** 400x **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD **Date Sampled:** 12/5-6/02 **Project #:** 691-C1094 **Filter Size:** 25MM  
 LOS ANGELES, CA 90073 **Attention:** B SPIVEY **File Name:** 83383VAGLABS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
0212AX1148B01	50	101.5	259	99561	1800.0	0.0553	0.0015	0.0171	0.0003
0212AX1148B02	31	101.5	417	160581	1500.0	0.1071	0.0018	0.0205	0.0003
0212AX1148B03	100	18.5	24	9073	1500.0	0.0060	0.0018	0.0205	0.0003
0212AX1148B04	100	27.5	35	13487	2700.0	0.0050	0.0010	0.0114	0.0002
0212AX1148B05	100	9	11	4414	2700.0	0.0016	0.0010	0.0114	0.0002

Sep-87

LOD - LIMIT OF DETECTION (7 FIBERS/Sq.mm) ANL.SENT - ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ - LIMIT OF QUANTIFICATION (30 FIBERS/Sq.mm) N.A. - NOT AVAILABLE N.D. - NONE DETECTED

ADHA Registered Asbestos Analyst B.M. Kolk, Laboratory Director  
 I.D. 7795 **CARL BERGMAN**  
 I.D. 2033 **JEFF WAN**  
 I.D. 3276 **S.AHMAD**

*Carl Bergman*  
 Confidence Interval is based on NIOSH 7400 with a subjective coefficient of variability 0.3  
 Intra-laboratory Sr is taken as 0.45. Intra-laboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**



SUBMITTAL FORM/Laboratory Services

83383

PAGE 1 OF 1

TURNAROUND TIME: STD  18 HR.  24 HR.  <8 HR. WKND OTHER: RUSH-TEM

RELINQUISHED BY: J. DAVIS  
TIME / DATE: 5 PM / 12-5  
DATE OF SHIPMENT: 12/5 CARRIER: FED EX  
CLIENT P.O. NO.: 691-61099  
CLIENT JOB/PROJECT ID NO(S):

CLIENT: VA-GLAHS (1306)  
ADDRESS: 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308  
TELEPHONE: [REDACTED]  
CONTACT: BEN SPIVEY

PACKAGE SHIPPED FROM:

RESULTS REQUESTED VIA: VERBAL  FAX   
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION: 12/5 and 12/6  
SAMPLE PRESERVATIVES: \_\_\_\_\_ HOLDING TIMES: \_\_\_\_\_  
NO. OF SAMPLES SENT: 6 SAMPLER'S NAME: [Signature] / Ken Hoodon  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	DATE/TIME
83383-1	0212AX1148B-01	Base Line		PCM	1800
2	02	REM - DECON		PCM	1500
3	03	REM - NEG AIR		PCM	1500
4	04	REM - DECON		PCM	2700
5	05	REM - NEG AIR		PCM	2700
RUSH	0212CL1148B-06	CL IN 114-88		TEM	1200
83383-6	NOTE: CALL FRANK SPIVEY @ 310-201-9200 WITH RESULTS. Also Notify Zainul FAX 818 547-1331				

FOR 3 ONLY (SF 5/00)

Laboratory No. 83383  
Date of Package Delivery: 12-9-02  
Received By: [Signature] Time: 9:30  
Shipping Bill Retained: YES  NONE   
Condition of Package on Receipt: [Signature] Condition of Custody Seal: [Signature]  
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and document the project manager and the shipper.)  
No. of Samples: 5 + 1  
Date of Acceptance into Sample Bank: 12-9-02  
Disposition of Samples: [Signature]

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

### 4. EMPLOYEE INFORMATION

NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
b. PERSONAL PROTECTIVE EQUIPMENT USED	a. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS, AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 12/27/02  
**Project:** Pipe Insulations  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room. Crawl Space Floor: Under the Building

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE_01	SAMPL_02	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM			
b. SAMPLE SUBMISSION NO.	0212AX300-01	0212AX300-02			
c. TIME ON	09:30	09:41			
d. TIME OFF	12:15	12:30			
e. TOTAL TIME (In minutes)	165	169			
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M/min	2.5	2.5			
g. VOLUME (In liters)	412.5	422.5			

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	a. PERCENTAGE		DATE
Asbestos	F/CC	0.0024	F/CC	0.0168			12/27/02

### 7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

Phase Contrast Microscopy

### 8. IH COMMENTS TO LABORATORY

PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

### 10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>12/27/02</b>	10b. FLOW RATE CALCULATIONS <b>2.5 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>12/27/02</b>	10d. FLOW RATE CALCULATIONS <b>2.5 liters/minute</b>
11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>		DATE <b>12/27/02</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..

84-89

Date: 12/27/02  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 12/27/02

Location: VA -GLAHS Bldg. 300 Crawl Space

Abatement Company: Unlimited

Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Pipe Insulation (TSI)

Quantity of ACM: Approximately -60 sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date: \_\_\_\_\_

CAL/OSHA Yes X No       
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes      No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

1. Personal (VA): Yes      No X

Worker's Name/SS #: \_\_\_\_\_

2. Pre-Tests

3. Perimeter:

4. Inside Work Area:

*scf-90*

5. Clearance: 0301CL300-01

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: \_\_\_\_\_ ½ Face North \_\_\_\_\_
- B. Coveralls: X Hoods & Boots: Yes X No \_\_\_\_\_
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No \_\_\_\_\_

IV. Engineering Controls:

- A. Glove bags: Yes \_\_\_ No X Properly Taped to Pipes: Yes X No \_\_\_\_\_
- B. Containment: Yes X No \_\_\_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No \_\_\_\_\_ No. Chambers: 3 Shower: Yes \_\_\_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes X No \_\_\_\_\_ Licensed: Yes X No \_\_\_\_\_
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No \_\_\_\_\_
- G. Amended Water Used: Yes X No \_\_\_\_\_ How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No \_\_\_\_\_
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No \_\_\_\_\_
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No \_\_\_\_\_
- K. Encapsulation: Yes X No \_\_\_\_\_ Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No \_\_\_\_\_

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 300, Floor: Crawl Space, Rooms: - indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 01/02/03 are as follows:

Bldg. <u>300</u>	Floor: <u>Crawl Space</u>	Room: <u>0</u>	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	fibers/cc
	Floor: _____	Room: _____	fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer

01/03/2003 16:51 6265684072

SUBMITTAL FORM Laboratory Services

83848

PAGE [ ] OF [ ]

TURNAROUND TIME: STD [ ] 48 HR. [ ] 24 HR. [ ]  
[ ] 8 HR. [X] WKND [ ] OTHER: [ ]

RELINQUISHED BY [ ]  
TIME / DATE PM 12/27

CLIENT GLAHS-WLA  
ADDRESS 11301 WILSHIRE BLVD  
L.A. CALIF  
TELEPHONE [ ]  
CONTACT BEN SPIVEY

DATE OF SHIPMENT [ ] CARRIER [ ]  
CLIENT P.O. NO. [ ]  
CLIENT JOB/PROJECT ID NO(S). BLDG 300  
PACKAGE SHIPPED FROM [ ]

RESULTS REQUESTED VIA VERBAL [X] FAX [X] CLIENT FAX NO. [ ]  
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION AM/PM 12/27  
SAMPLE PRESERVATIVES [ ] HOLDING TIMES [ ]  
NO. OF SAMPLES SENT 7 SAMPLER'S NAME [ ]  
TYPE: [ ] WATER [ ] WASTE WATER [ ] SOIL [ ] FILTER [ ] SORBENT TUBE [ ] IMPINGER [ ] OTHER [ ]

(FOR EMS ONLY)		CLIENT SAMPLE NO.	DESCRIPTION/LOCATION	ANALYSIS	VOLUME TIME WEIGHT # OF SAMPLES
83848-1	1	0212AX300-1	AREANE UNDER #300	PCM	412.5
	2	" " " " -2	" W " "	PCM	422.5
83848.1-	1	0212B4A300-1	DEBRIS - UNDER PIPE	BULK	
	2	" -2	TSI NE NS PIPE	BULK	
	3	" -3	TSI NE ES PIPE	BULK	
83848.2-	X1	0212AX300-1		TEM	1575 1200
	X2	" -2		TEM	1350 1200
	L1		12/30/02		
RUST		0212CL30001	clear under #300 by 2:00PM crawl sp. on 31 Dec 02	TEM	1200

(SF 5100)

Laboratory No. 83848.1 Received By [ ] Time 10:00  
Date of Package Delivery 12-31-02 Shipping Bill Returned: YES [X] NONE [ ]  
Condition of Package on Receipt [ ] Condition of Custody Seal [ ]  
No. of Samples 2+3+3 Chain-of-Custody Signature [ ]  
Date of Acceptance into Sample Bank 12-31-02 Misc. Info. [ ]  
Disposition of Samples [ ]

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 83848 Date Received: 12-31-02 Fiber Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 1-7-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 12-27-02 Project #: BL/DG 300 Filter Size: Z5MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 83848VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (L/Lt.)	Fibers/CC	LOD	LOQ	ANL-SENT
0212AX300-1	100	2	3	981	412.5	0.0024	0.0065	0.0747	0.0012
0212AX300-2	100	14.5	18	7111	422.5	0.0168	0.0064	0.0729	0.0012

LOD = LIMIT OF DETECTION (7 FIBERS/ Sq.mm) ANL-SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/ Sq.mm) N.A. = NOT AVAILABLE N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst Carl Bergman B.M. Kolk, Laboratory Director B.M. Kolk  
 I.D. 7795 CARL BERGMAN I.D. 2033 JEFF WAN  
 I.D. 3276 S. AHMAD

Interlaboratory Sr. is taken as 0.45 Intralaboratory Sr. is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-528

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
d. PERSONAL PROTECTIVE EQUIPMENT USED	a. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 01/02/03  
**Project:** Pipe Insulations  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room. Crawl Space Floor : Under the Building

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

5. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE_01	SAMPL_02	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	CL/TEM				
b. SAMPLE SUBMISSION NO.	0301CL300-01				
c. TIME ON	09:15				
d. TIME OFF	10:35				
e. TOTAL TIME (In minutes)	80				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15				
g. VOLUME (In liters)	1200				

6. RESULTS (For Laboratory Use)						
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE
						b. TYPE
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT		DATE
Asbestos	S/mm <sup>2</sup>	ND				01/02/03

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**Transmission Electron Microscopy**

8. IH COMMENTS TO LABORATORY  
**TEM**

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE <b>1/2/03</b>	10b. FLOW RATE CALCULATIONS <b>15 liters/minute</b>	10c. (POST) CALI- BRATION DATE <b>1/2/03</b>	10d. FLOW RATE CALCULATIONS <b>15 liters/minute</b>
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>1/2/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-----------------------	---

84-94

Date: 1/2/03  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 1/2/03

Location: VA - GLAHS Bldg. 300 Crawl Space

Abatement Company: Unlimited

Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Pipe Insulation (TSI)

Quantity of ACM: Approximately - sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date: \_\_\_\_\_

CAL/OSHA Yes X No       
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes      No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes      No X Worker's Name/SS #: \_\_\_\_\_
- 2. Pre-Tests
- 3. Perimeter:
- 4. Inside Work Area: 84-95



5. Clearance: 0301CL300-01

6. VAH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glove bags: Yes      No X Properly Taped to Pipes: Yes X No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 3 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes X No      Name & Type:
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 300, Floor: Crawl Space, Rooms: - indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 01/02/03 are as follows:

Bldg. <u>300</u>	Floor: <u>Crawl Space</u>	Room: <u>0</u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer

84-96

DATE: January 7, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C1094, bldg 300 Crawl Space  
COLLECTED: 1/2/03 am by Kenny  
REPORT NO: 83876  
DATE RECEIVED: 1/2/03 at 1530  
DATE ANALYZED: 1/2/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as:

0301CL30001

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials In Schools," final rule under AHERA.

No asbestos was detected in the sample ; the analytical sensitivity reached was 0.005 structures per cubic centimeter.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

AJK/ah

NOTE. The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc. Any deviation or exclusion from the test method is noted in this cover letter.  
This is otherwise noted in this cover letter. The samples were received properly packaged, clearly identified and intact.

84-97

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 23578  
 ▶ Client WAG  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 1/2/03 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed \_\_\_\_\_ ▶ Fax Results \_\_\_\_\_

<input checked="" type="checkbox"/> DIRECT PREP	<input checked="" type="checkbox"/> ASPECT RATIO	<input type="checkbox"/> STRUCTURE SIZE
<input type="checkbox"/> INDIRECT PREP	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> $\geq 5 \mu\text{m}$ Length
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	$\geq 0.5 \mu\text{m}$ Length <input checked="" type="checkbox"/> PCM Range*
LEVEL II <input type="checkbox"/>		$\geq 1 \mu\text{m}$ Length <input checked="" type="checkbox"/> $\geq 2.25 \mu\text{m}$ Width
		$\geq 5.0 \mu\text{m}$ Length

Sample Identification	Volume(L)	Mass(mg/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

84-98      0201CL30001      1200      N.D.      N.D.      0.005      0      0.02

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments: \_\_\_\_\_

WAG EMS LABORATORIES

SUBMITTAL FORM/Laboratory Services

83876

TURNAROUND TIME: STD  48 HR.  24 HR.  HR.  WKND  OTHER: RUSH.

RELINQUISHED BY T. DAUIS

CLIENT CLAS - WLA (1306)

TIME / DATE PM / Jan 2, 2003

ADDRESS 11301 WILSHIRE

DATE OF SHIPMENT  CARRIER

TELEPHONE [REDACTED]

CLIENT P.O. NO. G91-C1094

CONTACT Ben SPIVEY

CLIENT JOB/PROJECT ID NO(S). BLDG 300 CRAWL SPACE

PACKAGE SHIPPED FROM [REDACTED]

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO. [REDACTED] and Zainul

DATE/TIME OF SAMPLE COLLECTION Jan 1 / 12 / 03

SAMPLE PRESERVATIVES [REDACTED] HOLDING TIMES [REDACTED]

NO. OF SAMPLES SENT 1 SAMPLER'S NAME [REDACTED] / Kenny

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER [REDACTED]

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS
83876-01	0301CL30001	Clear - under 300	Crawl Space	TEMP 1200
		<u>Rush</u>		
		<u>Also for Zainul 818.547.1331</u>		

83876

Laboratory No. [REDACTED] Received By [Signature] Time 3:30 PM

Date of Package Delivery 01-02-03 Shipping Bill Returned: YES  NONE

Condition of Package on Receipt good Condition of Custody Seal None

No. of Samples 1 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 01-02-03 Misc. Info. [REDACTED]

Disposition of Samples EMS 818.547.1331

FOR EMS (SF 5/00)

TEM ASBESTOS AIR REPORT

CLIENT: VAGLAHS  
 EMS NO: 83876  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 030 ICL30001  
 RECEIVED: 1/2/03 ANALYZED: 1/2/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers	N.D.	N.D. /cc
Fiber Length: Range(um)	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um)	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um	N.D. / N.D.	N.D. / N.D. /cc
Total Amphibole Fibers	N.D.	N.D. /cc
Fiber Length: Range(um)	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um)	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um	N.D. / N.D.	N.D. / N.D. /cc
Total Number of Asbestos Bundles	N.D.	N.D. /cc
Total Number of Asbestos Cluster Clumps	N.D.	N.D. /cc
Total Number of Asbestos Matrix/Debris	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b>	N.D.	N.D. /cc
Chrysotile	N.D.	N.D. /cc
Amphibole	N.D.	N.D. /cc
Crocidolite	N.D.	N.D. /cc
Tremolite	N.D.	N.D. /cc
Amosite	N.D.	N.D. /cc
Anthophyllite	N.D.	N.D. /cc
Actinolite	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b>	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b>	N.D.	N.D. /cc
Sensitivity Level(Structures/cc)		0.005
Lower 95% Confidence Limit(Structures/cc)		0
Upper 95% Confidence Limit(Structures/cc)		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b>	N.D.	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b>	N.D.	

REMARKS: MODERATE DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-100

# TEM ASBESTOS ANALYSIS

EMS Lab No. 23876

Client GLAHS

Sample No. 0301613001

### LENGTHS

### METHOD OF ANALYSIS

EPA Yarnale Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1

All Sizes (EPA)   
 (µm) : ≥ 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*   
 \*40.25 µm width, >5.0 µm length

### TYPE OF SAMPLE

Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dual/Microvac

### TYPE OF FILTER

MCE/385   
 MCE/314   
 MCE/1017   
 Other

### PORE SIZE

0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

G.O. Area (mm²) 0.0  
 No. of G.O. to Analyze 093

### ANALYSIS

#### DIRECT PREP

#### INDIRECT PREP

Volume 170 ml  
 Working Volume 258 ml  
 Weight 100 grams  
 Ashed Area 10 %

Date 1-2-03  
 Prepared By L. K. ...

Grid Address 19400  
 Screen Magnification X  
 Camera Constant 258  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

Page 1

### MICROSCOPE

H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

# A

Date 1-2-03

Analyst L. K. ...

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments			
			Width	Length	Thickness	Chrysotile	Anphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe	Id
<u>100</u>	<u>100</u>	<u>100</u>															

16 Lines

OBSERVATIONS: Clean   
 Debris:   
 Gypsum:   
 Condition of the Grid:

Very Light   
 Very Light   
 Good   
 Light   
 Light   
 Scrappy   
 Moderate   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded   
 Very Heavy   
 Very Heavy

# TEM ASBESTOS ANALYSIS

EMS Lab No. 83876  
 Client GATTS  
 Sample No. 007

**RECEIVING**

**ANALYSIS**

Page 1 of 1  
 MICROSCOPE

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 540x XH600B - Serial No. 542-05-06   
 Camera Constant 291.8 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10 μA

Analyst Good Date 11.18

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Anthrophyte	Amblygonus	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>200</u>	<u>152</u>	<u>WSP</u>															

15 Lines

OBSERVATIONS: Clean   
 Debris   
 Gypsum   
 Condition of the Grid:  Good

Very Light   
 Very Light   
 Good   
 Light   
 Light   
 Scrapy   
 Moderate   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded   
 Very Heavy   
 Very Heavy

200-102

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

### 4. EMPLOYEE INFORMATION

a. NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 12/30/02  
**Project:** Pipe Insulations  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room. Crawl Space Floor : Under the Building

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 01	SAMPL 02	SAMPLE 03	SAMPLE __	SAMPLE __
a. SAMPLE TYPE/MEDIA	Area/TEM	Area/TEM	CL/TEM		
b. SAMPLE SUBMISSION NO.	0212AX3001	0212AX3002	0212CL30001		
c. TIME ON	12:00	12:20	14:50		
d. TIME OFF	13:45	13:50	16:30		
e. TOTAL TIME (In minutes)	105	90	100		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	12		
g. VOLUME (in liters)	1575	1350	1200		

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	a. PERCENTAGE		DATE
						RESULT	b. TYPE	
Asbestos	S/mm <sup>2</sup>	ND	S/mm <sup>2</sup>	ND	S/mm <sup>2</sup>	340		12/30/02

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy  
 Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
 PCM/TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE <b>12/30/02</b>	10b. FLOW RATE CALCULATIONS <b>12/15 liters/minute</b>	10c. (POST) CALI- BRATION DATE <b>12/30/02</b>	10d. FLOW RATE CALCULATIONS <b>12/15 liters/minute</b>
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>12/30/02</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-------------------------	---

84-103



Date: 12/30/02  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 12/30/02

Location: VA -GLAHS Bldg. 300 Crawl Space

Abatement Company: Unlimited

Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Pipe Insulation (TSI)

Quantity of ACM: Approximately -60 sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date: \_\_\_\_\_

CAL/OSHA Yes X No       
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes      No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:
  - 1. Personal (VA): Yes      No X

Worker's Name/SS #: \_\_\_\_\_

- 2. Pre-Tests
- 3. Perimeter:
- 4. Inside Work Area:

84-104

5. Clearance: 0212CL300-01

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glove bags: Yes      No X Property Taped to Pipes: Yes X No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 3 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes X No      Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 300, Floor: Crawl Space, Rooms: - indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 12/30/02 are as follows:

Bldg. <u>300</u>	Floor: <u>Crawl Space</u>	Room: <u>0</u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer

84-105

DATE: January 8, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C1094, bldg 300  
COLLECTED: 12/27/02 am/pm by K. Hooper  
REPORT NO: 83848.2  
DATE RECEIVED: December 31, 2002 at 1000  
DATE ANALYZED: December 31, 2002  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as:

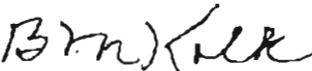
0212AX3001  
0212AX3002  
0212CL30001

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director  
AJK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc. Any deviation or exclusion from the test method is noted in this cover letter. Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

84-106

SUBMITTAL FORM/Laboratory Services

83848.2

PAGE  OF

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR. WKND  OTHER:

RELINQUISHED BY \_\_\_\_\_

TIME / DATE PM 12/27

CLIENT GLAHS-WLA

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_

ADDRESS 11301 WILSHIRE BLVD  
L.A. CALIF

CLIENT P.O. NO. \_\_\_\_\_

CLIENT JOB/PROJECT ID NO(S) BLDG 300

TELEPHONE \_\_\_\_\_

PACKAGE SHIPPED FROM \_\_\_\_\_

CONTACT BEN SPIVEY

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO. \_\_\_\_\_

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION AM/PM 12/27

SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT 7 SAMPLER'S NAME *Ben Spivey / K. Honick*

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
83848-1	0212AX300-1	AREA NE UNDER #300	PCM 412LS
↓ 2	" " " " -2	" W " "	PCM 422LS
83848.1-1	0212B4A300-1	DEBRIS - UNDER PIPE	BULK
↓ 2	" -2	TSI NE NS PIPE	BULK
↓ 3	" -3	TSI NE ES PIPE	BULK
83848.2-x1	0212AX300-1		TEM 1575 1200
↓ x2	" -2		TEM 1350 1200
↓ 21		12/30/02	
RUSH	0212CL3000	clear under #300 bag 2:00pm crawl spc. on 31 Dec 02	TEM 1200

(SF 5/00)

Laboratory No. 83848.2 Received By *[Signature]* Time 10<sup>00</sup>

Date of Package Delivery 12-31-02 Shipping Bill Returned: YES  NONE

Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal *none*

(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 2+3+3 Chain-of-Custody Signature *[Signature]*

Date of Acceptance into Sample Bank 12-31-02 Misc. Info. \_\_\_\_\_

Disposition of Samples *COVES LAB 84-101*

FOR EMERGENCY

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 83848.2  
 ▶ Client VAGTATS  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 12/31/02  
 ▶ Date Analyzed \_\_\_\_\_  
 ▶ Verbal Results \_\_\_\_\_  
 ▶ Fax Results \_\_\_\_\_

<b>DIRECT PREP</b> <input checked="" type="checkbox"/>	<b>ASPECT RATIO</b>	<b>STRUCTURE SIZE</b>
<b>INDIRECT PREP</b> <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/>
<b>LEVEL I</b> <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	≥ 0.5 μm Length <input checked="" type="checkbox"/>
<b>LEVEL II</b> <input type="checkbox"/>		≥ 1 μm Length <input type="checkbox"/>
		PCM Range* <input type="checkbox"/>
		± 0.25 μm Width <input type="checkbox"/>
		± 5.0 μm Length <input type="checkbox"/>

Sample Identification	Volume (L)	Mass (mg)	Structures/mm	Structure %	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Lower Limit

0212AX300-1	1575	-	N.D.	N.D.	0.005	0	0.02
0212AX300-2	1550	-	N.D.	N.D.	0.005	0	0.02
0212CL30001	1200	-	340	0.1	0.005	0.07	0.2

84-108

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments: \_\_\_\_\_

TEM ASBESTOS AIR REPORT

CLIENT: VAGLAHS  
 EMS NO: 83848.2  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1575 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 0212AX300-1  
 RECEIVED: 12/31/02 ANALYZED: 12/31/02  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0465  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. MEAN	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	/cc
Total Amphibole Fibers .....	N.D. ....	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D. MEAN	N.D. um
Aspect Ratio: Range .....	N.D. - N.D. MEAN	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	/cc
Total Number of Asbestos Bundles .....	N.D. ....	N.D. /cc
Total Number of Asbestos Cluster Clumps .....	N.D. ....	N.D. /cc
Total Number of Asbestos Matrix/Debrls .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Chrysotile .....	N.D. ....	N.D. /cc
Amphibole .....	N.D. ....	N.D. /cc
Crocidolite .....	N.D. ....	N.D. /cc
Tremolite .....	N.D. ....	N.D. /cc
Amosite .....	N.D. ....	N.D. /cc
Anthophyllite .....	N.D. ....	N.D. /cc
Actinolite .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	N.D. ....	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D. ....	N.D. /cc
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D. ....	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	N.D. ....	

REMARKS: MODERATE DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-109

# TEM ASBESTOS ANALYSIS

EMS Lab No. 83848/  
 Client LAH/ WLA  
 Sample No. 0212A X3001

**METHOD OF ANALYSIS**  
 EPA Yamate Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1

**LENGTHS**  
 All Sizes (EPA)  
 (µm) : ≥ 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*  
 \*0.25 µm - 4.0 µm length

**TYPE OF SAMPLE**  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

**FILTER TYPE/AREA (mm²)**  
 MCE/385   
 MCE/314   
 MCE/1017   
 Other   
**PORE SIZE**  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 1.5 liters  
 Wicking Volume 2.5 ml  
 Weight 2.5 grams  
 Ashed Area 10 %  
 Date 12-31-02  
 Prepared By 7.

## ANALYSIS

Grid Address A  
 Screen Magnification 1942X  
 Camera Constant 257  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

**A**  
 Date 12-31-02

Analyst Kady

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
<u>E23</u>	<u>3</u>	<u>M</u>														
<u>E23</u>	<u>3</u>	<u>M</u>														

16 Lines

**OBSERVATIONS:**  
 Clean   
 Debris:   
 Gypsum:   
 Condition of the Grid:

Very Light   
 Very Light   
 Good   
 Light   
 Light   
 Scrappy   
 Moderately   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded   
 Very Heavy   
 Very Heavy

84-110

# TEM ASBESTOS ANALYSIS

EMS Lab No. 83848-1  
 Client GLAHS WLA  
 Sample No. 0212 AK 3001

Page    of   

**MICROSCOPE**

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 190x H600B - Serial No. 542-05-06   
 Camera Constant 18.0  
 Accelerating Voltage 100KV H600C - Serial No. 542-24-03   
 Beam Current 0  HA

Analyse SAhmed Date 12/3/02

**ANALYSIS**

Grid Opening	Structure Number	Structure	Dimension (mm)			SRED Observation				EDS Analysis					Comments			
			Width	Length	Thickness	Chrysotile	Amphibole	Anfibrous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id	
<u>G3-6 NSD</u>																		
<u>BK6 NSD</u>																		
<u>Q4-4 NSD</u>																		

16 Lines  
 OBSERVATIONS: Clean   
 Debris:   
 Gypsum:   
 Condition of the Grid:   
 Very Light   
 Very Light   
 Good   
 Light   
 Light   
 Scrapy   
 Moderate   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded   
 Very Heavy   
 Very Heavy



**TEM ASBESTOS AIR REPORT**

CLIENT: VAGLAHS  
 EMS NO: 83848.2  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1550 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 0212AX300-2  
 RECEIVED: 12/31/02 ANALYZED: 12/31/02  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0465  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D.	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range .....	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Amphibole Fibers .....	N.D.	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range .....	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Number of Asbestos Bundles .....	N.D.	N.D. /cc
Total Number of Asbestos Cluster Clumps .....	N.D.	N.D. /cc
Total Number of Asbestos Matrix/Debris .....	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D.	N.D. /cc
Chrysotile .....	N.D.	N.D. /cc
Amphibole .....	N.D.	N.D. /cc
Crocidolite .....	N.D.	N.D. /cc
Tremolite .....	N.D.	N.D. /cc
Amosite .....	N.D.	N.D. /cc
Anthophyllite .....	N.D.	N.D. /cc
Actinolite .....	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D.	N.D. /cc
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D.	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	N.D.	

REMARKS: LIGHT TO MODERATE DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-112

# TEM ASBESTOS ANALYSIS

EMS Lab No. 83808.1  
 Client WLAHB  
 Sample No. 0212AK300-2

**RECEIVING**

METHOD OF ANALYSIS  
 EPA Yarnate Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1

LENGTHS  
 All Sizes (EPA)  
 (µm) : 2-0.5   
 (µm) : > 6.0   
 (µm) : > 10.0   
 PCM Range\*  
 1-25µm width, 15.0µm length

TYPE OF SAMPLE  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

FILTER TYPE/AREA (mm)  
 MCE/385   
 MCE/314   
 MCE/1017   
 Other

PORE SIZE  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

G.O. Area (mm²) 0.0093  
 No. of G.O. to Analyze 3

**PREP**

DIRECT PREP   
 INDIRECT PREP   
 Volume 1.50 liters  
 Working Volume 25 ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

**ANALYSIS**

Grid Address \_\_\_\_\_  
 Screen Magnification 1900X  
 Camera Constant 28.7  
 Accelerating Voltage 100KV  
 Beam Current 10 µA

Date 12-3-88  
 Analyst Kadle

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
H2-B	6	Asbestos														
H4-6	6	Asbestos														
H4-7	6	Asbestos														

16 Lines

OBSERVATIONS: Clean  Debris   
 Gypsum   
 Condition of the Grid: Good  Very Light  Very Light  Light  Light  Scrapy  Undissolved Filter  Moderate  Moderate  Heavy  Heavy  Folded  Very Heavy  Very Heavy



TEM ASBESTOS AIR REPORT

CLIENT: VAGLAHS  
 EMS NO: 83848.2  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 0212CL30001  
 RECEIVED: 12/31/02 ANALYZED: 12/31/02  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM		CALCULATED VALUE	
<b>Total Number of Fibers</b>				
Total Chrysotile Fibers .....	14			0.07 /cc
Fiber Length: Range(um) .....	0.5 -	4.7	MEAN	1.8 um
Fiber Diameter: Range(um) .....	0.05 -	0.05	MEAN	0.05 um
Aspect Ratio: Range .....	10 -	90	MEAN	34
Fibers <5um/ Fibers >=5um .....	14 /	N.D.	0.07 / N.D.	/cc
Total Amphibole Fibers .....	N.D.		N.D.	/cc
Fiber Length: Range(um) .....	N.D. -	N.D.	MEAN	N.D. um
Fiber Diameter: Range(um) .....	N.D. -	N.D.	MEAN	N.D. um
Aspect Ratio: Range .....	N.D. -	N.D.	MEAN	N.D.
Fibers <5um/ Fibers >=5um .....	N.D. /	N.D.	N.D. / N.D.	/cc
Total Number of Asbestos Bundles .....	N.D.			N.D. /cc
Total Number of Asbestos Cluster Clumps .....	3			0.01 /cc
Total Number of Asbestos Matrix/Debris .....	5			0.02 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	22			0.1 /cc
Chrysotile .....	22			0.1 /cc
Amphibole .....	N.D.			N.D. /cc
Crocidolite .....	N.D.			N.D. /cc
Tremolite .....	N.D.			N.D. /cc
Amosite .....	N.D.			N.D. /cc
Anthophyllite .....	N.D.			N.D. /cc
Actinolite .....	N.D.			N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	14			0.07 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	22			0.1 /cc
Sensitivity Level(Structures/cc) .....				0.005
Lower 95% Confidence Limit(Structures/cc) .....				0.07
Upper 95% Confidence Limit(Structures/cc) .....				0.2
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D.			N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	340			

REMARKS: MODERATE DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-115

# TEM ASBESTOS ANALYSIS

EMS Lab No. 83848  
 Client GLAHS - WLA  
 Sample No. 02121130001 Clear

**RECEIVING**

METHOD OF ANALYSIS  
 EPA Yamato Level I   
 Level II   
 Level III   
 AHERA

ASPECT RATIO 3:1  5:1

LENGTHS  
 All Sizes (EPA)  
 ( $\mu\text{m}$ ) :  $\geq 0.5$    
 ( $\mu\text{m}$ ) :  $> 5.0$    
 ( $\mu\text{m}$ ) :  $> 10.0$    
 PCM Range\*  
 ( $\mu\text{m}$ ) :  $10.25$  to  $15.0$

**PREP**

TYPE OF SAMPLE  
 Air   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

FILTER TYPE/AREA (mm)  
 MCE/385   
 MCE/314   
 MCE/1017   
 Other

PORE SIZE  
 0.45  $\mu\text{m}$    
 0.8  $\mu\text{m}$    
 0.1  $\mu\text{m}$    
 0.22  $\mu\text{m}$    
 Other

DIRECT PREP   
 INDIRECT PREP

Volume 120  $\mu\text{L}$   
 Working Volume             $\mu\text{L}$   
 Weight            grams  
 Ashed Area            %

G.O. Area (mm<sup>2</sup>) 0.0093  
 No. of G.O. to Analyze 7

## ANALYSIS

Grid Address             
 Screen Magnification             
 Camera Constant             
 Accelerating Voltage 100 KV  
 Beam Current 0  $\mu\text{A}$

Analyst Lele Date 12-31-77

Grid Opening	Structure Number	Structure	Dimension (mm)		SAED Observation	EDS Analysis					Comments	
			Width	Length		Na	Mg	Si	Ca	Fe		Id
60	11	Mp	60	72	✓		10	10				Eds
60	12	R	60	12	✓							
60	13	Mp	60	55	✓							
60	14	R	60	30	✓							
60	15	R	60	12	✓							
60	16	R	60	60	✓							
60	17	Hymp	110	130	✓							
60	18	R	60	15	✓							

16 Lines

OBSERVATIONS: Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

31-Dec-2002 12:52:55

+5V2 Pwr

83848.1-30001-CLEAR, A, H01, RS  
Verb= 500 counts Disp= 1  
Energy Counts X-Ray Lines

Presets= 100 secs  
Elapsed= 24 secs

0.54	248.	O K , O K , V L , Cr L , V L , Cr L , V L , Cr L , V L , V L , V L , Cr L , Cr L1
1.27	183.	Mg K , Mg K , Mg K
1.75	221.	Si K , Si K

(Quantex)

0.000 Range= 10.230 keV

Integral 0 = 10.110  
2549

# TEM ASBESTOS ANALYSIS

EMS Lab No. 83848  
 Client WLA  
 Sample No. 0212C1 36221 Clean

**RECEIVING**

**ANALYSIS**

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 1020x H600B - Serial No. 542-05-06   
 Camera Constant 186.6 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

Analyst S. Ahmed Date 12/10/10

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysotile	Amphibole	Anfibrous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
C4-3	N50					✓										ERS #1
C4-6	M0		30	50		✓										n-2
	M3	MP	80	95		✓										ERS #3
	M4	F	7	65		✓										
	M5	F	11	20		✓										
	M6	F	11	10		✓										
	M7	F	11	20		✓										
	M8	F	11	20		✓										
F5-3	N50					✓										
C6-6	M0	F	1	20		✓										
	M1	F	8	50		✓										
	M3	F	8	110		✓										
	M4	F	9	25		✓										
	M4	F	9	25		✓										

16 Lines

OBSERVATIONS: Clean  Debris  Gypsum   
 Condition of the Grid: Very Light  Very Light  Good

Moderate  Heavy  Very Heavy   
 Moderate  Heavy  Very Heavy   
 Undissolved Filler  Folded

31-Dec-2002 12:47:59

+SV2 Pwr

83848.1-30001-CLEAR, B, #01, SA

Preset=

100 secs

Vert= 500 counts Disp= 1

Elapsed=

48 secs

Energy Counts X-Ray Lines

1.27 465. Mg K , Mg K , Mg K

1.76 623. Si K , Si K

Quantex>

0.000

Cursor=

1.270 keV

40 counts

10.110

Integra]. B =

92

84-119



31-Dec-2002 12:48:20

+5V2 Pwr

A3840.1-30001-CLEAR, B, #02, SA  
Vert= 500 counts Disp= 1  
Energy Counts X-Ray Lines

Preset= 100 secs  
Elapsed= 51 secs

1.27 538. Mg K , Mg K , Mg K  
1.76 695. Si K , Si K

Quantex>

0.000 Cursor= 1.270 keV

45 counts 10.110  
Integral 8 = 102

31-Dec-2002 12:51:53

-WARNING-

A3840.1-30001-CLEAR, B, #03, SA  
Vert= 500 counts Disp= 1  
Energy Counts X-Ray Lines

Preset= 100 secs  
Elapsed= 80 secs

1.27 566. Mg K , Mg K , Mg K  
1.76 856. Si K , Si K

Quantex>

0.000 Cursor= 1.250 keV

51 counts 10.110  
Integral 0 = 9525

84-120

# ASBESTOS & LEAD PROJECTS

## SECOND QUARTER

BLDG	ROOM/AREA	DATE
258	ATTIC	1/16/03
500	1020	2/08/03
44	SHOP AREAS	2/18/03
207	220	2/28/03
300	209	2/28/03
257	CRAWL SPACE – SW BASEMENT	3/13/03
257	CRAWL SPACE- MIDDLE BSMT.	3/13/03
500	200/201	03/19/03

84-121

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space Is Needed Use Reverse).

Date: 01/22/03  
 Project: TSI removal from attic space, using HEPA Vacuum, Hudson Sprayer, Glove Bagging.  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 258 Room. East Floor 3<sup>rd</sup> Attic

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

6. SAMPLING INFORMATION					
(Fill In Sample No.)	SAMPLE <u>258-01W</u>	SAMPL <u>258-02W</u>	SAMPLE <u>03</u>	SAMPLE <u>   </u>	SAMPLE <u>   </u>
a. SAMPLE TYPE/MEDIA	BL/PCM on 1/16	CL/TEM 01/16	CL/TEM 01/21		
b. SAMPLE SUBMISSION NO.	0301AX258Attic	0301AX258Attic	0301AX258Attic		
c. TIME ON	10:00	13:30	14:10		
d. TIME OFF	13:00	15:30	16:10		
e. TOTAL TIME (In minutes)	180	120	120		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	10	10		
g. VOLUME (In liters)	2,700	1200	1200		

6. RESULTS (For Laboratory Use)									
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE			
						b. TYPE			
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	DATE
Asbestos	F/CC	0.0028	S/mm <sup>2</sup>	780	S/mm <sup>2</sup>	ND			

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy  
Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
PCM and TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 1/16/03 & 1/21/03	10b. FLOW RATE CALCULATIONS 10/15 liters/minute	10c. (POST) CALI-BRATION DATE 1/16/03 & 1/21/03	10d. FLOW RATE CALCULATIONS 10/15 liters/minute
---	--	--	--

NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer/Zainul Abedin</b>	DATE 1/16/03 & 1/21/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	---------------------------	--

84-122

Date: 1/22/03 and 1/21/03

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 01/16/03

Location: VA Hospital Bldg. 258 #rd Floor Attic East

Abatement Company: Unlimited

Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: TSI

Quantity of ACM: Approximately 80 lft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No       

Worker Training Current: Yes X No       

Fit Tested: Yes X No       

Worker Annual Medical Current: Yes X No       

Safety Meeting: Yes X No       

Notification to: SCAQMD Yes X No         
Date:                           

CAL/OSHA Yes X No         
Date:                           

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name:                            Yes        No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:
1. Personal (VA): Yes        No X Worker's Name/SS #:
2. Pre-Tests: 0301AX258Attic-01
3. Perimeter:

*84-123*

4. Inside Work Area: 0301AX258Attic-02 & 0301AX258Attic-03

5. Clearance: 0301AX258Attic-03

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

A. Respirator Type & Manufacturer: 1/2 Face North

B. Coveralls: X Hoods & Boots: Yes X No     

C. Respirator Suitable for Anticipated Fiber Levels: Yes X No     

IV. Engineering Controls:

A. Glove bags: Yes X No      Properly Taped to Pipes: Yes X No     

B. Containment: Yes      No X Thickness of Polyethylene:     

C. Proper Decon: Yes      No X No. Chambers:      Shower: Yes      No X

D. If Containment in Use, are Critical Openings Properly Sealed: Yes      No X

E. Neg. Air/HEPA Filtration Used: Yes      No X Licensed: Yes      No     

F. Adeq. Neg. Pressure Diff. in Containment Yes      No X

G. Amended Water Used: Yes X No      How Applied: Spray

H. External AFD Filters Replaced Daily: Yes      No X

I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No     

J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No     

K. Encapsulation: Yes X No      Name & Type: Foster 32-60

L. Work Area Ready for Clearance Air Testing Yes X No     

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 258, Floor: 3rd, Rooms: East Attic indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 01/16/03 are as follows:

Bldg. <u>258</u>	Floor: <u>Attic</u>	Room: <u>East</u>	<u>0</u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> fibers/cc

Comments:

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer

84-124

DATE: January 21, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C1094,#258 ATTIC  
COLLECTED: 1/16/03 am-pm by, Ken Hooper  
REPORT NO: 84191.1  
DATE RECEIVED: January 20, 2003 at 1000  
DATE ANALYZED: January 21, 2003  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as:  
0301CL258 ATTIC

The air sample was analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

Both amosite and chrysotile were identified in this heavily asbestos loaded sample.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

AJK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc. Any deviation or exclusion from the test method is noted in this cover letter. Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

84-125

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 84191.1      ▶ Date Received 1/20/03      ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S.      ▶ Date Analyzed 1/21/03      ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	≥ 0.5 μm Length <input checked="" type="checkbox"/>
LEVEL II <input type="checkbox"/>		≥ 1 μm Length <input type="checkbox"/>
		PCM Range* <input type="checkbox"/>
		(≥ 2.5 μm Width, ≥ 5.0 μm Length)

Sample Identification	Volume(L)	Massing (μg/m <sup>3</sup> )	Structure/mm	Structure/ce	95% CONFIDENCE LEVELS		
					Analytical Sensitivity	Lower Limit	Upper Limit

841-126  
 0301 CL 258 ATTIC      1200      780      0.3      0.005      0.2      0.3

TEM-3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments:

ENVIRONMENTAL

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES)

## Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 84191 Date Received: 1-20-2003 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 1-20-2003 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 1-16-2003 Project #: 258 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: BEN SPIVEY File Name: 84191VAGLABS.AIR

Sample I.D.	Fields Counted	Fibers Counted F/ Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
0301AX258ATTIC	100	15.5	20	7602	2700.0	0.0028	0.0010
							0.0114
							0.0002

LOD = LIMIT OF DETECTION (7 FIBERS/ Sq.mm) ANL.SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/ Sq.mm) N.A. = NOT AVAILABLE N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst  
 I.D. 2033

JEFF WAN  
 B.M. Kolk, Laboratory Director

Interlaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

84-127



**SUBMITTAL FORM** / Laboratory Services

84191

TURNAROUND TIME: STD  48 HR.  24 HR.  <8 HR. WKND  OTHER:

RELINQUISHED BY Ken Hooker  
 TIME / DATE 1/16/03  
 DATE OF SHIPMENT 1/16/03 CARRIER ATTC  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) 258  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT GLAHS WLA  
 ADDRESS 11301 WILSHIRE  
L.A. CALIF  
 TELEPHONE [REDACTED]  
 CONTACT Ben Spivey

RESULTS REQUESTED VIA: VERBAL  FAX  CLIENT FAX NO. [REDACTED]  
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 1/16/03 Am-Pm  
 SAMPLE PRESERVATIVES (1+1) HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME Ken Hooker / Ben Hooker  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT
84191-AX	03DLAX2SBATT	AREA STAIRWELL		PCm			2780
84191-1-06	03DLAX2SBATT	ATTIC		TCm			1202
ALSO NOTIFY ZAINU FAX 818-547-1331							
VAGLAHS							

84191

Laboratory No. 84191-1 Received By [Signature] Time 10:00  
 Date of Package Delivery 1/20/03 Shipping Bill Retained YES  NONE   
 Condition of Package on Receipt OK Condition of Custody Seal [Signature]  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 2 (1+1) Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 1/20/03 Misc. Info. 84-128  
 Disposition of Samples EMS LAB

FOR EMLY (SF 5/00)

DATE: January 22, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Splvey/Zainul Abedin  
REFERENCE: P.O. NO. 691-C1094, USVA - Bldg 258 Attic 3rd  
COLLECTED: 1/21/03 by Zainul/ James  
REPORT NO: 84225  
DATE RECEIVED: 1/22/03 at 0700  
DATE ANALYZED: 1/22/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as:

03-01AX258-01

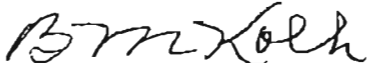
The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

No asbestos was detected in the sample ; the analytical sensitivity reached was 0.005 structures per cubic centimeter.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

AJK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc. Any deviation or exclusion from the test method is noted in this cover letter. Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

84-129



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

84225

▶ EMS Laboratory No. 84225  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 1/22/03 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed \_\_\_\_\_ ▶ Fax Results \_\_\_\_\_

<b>DIRECT PREP</b> <input checked="" type="checkbox"/>	<b>ASPECT RATIO</b>	<b>STRUCTURE SIZE</b>
<b>INDIRECT PREP</b> <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> $\geq 5 \mu\text{m}$ Length <input type="checkbox"/>
<b>LEVEL I</b> <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	$\geq 0.5 \mu\text{m}$ Length <input checked="" type="checkbox"/> PCM Range* <input type="checkbox"/>
<b>LEVEL II</b> <input type="checkbox"/>		$\geq 1 \mu\text{m}$ Length <input type="checkbox"/> * (0.25 $\mu\text{m}$ Width, 0.50 $\mu\text{m}$ Length)

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/cm <sup>3</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

84-130  
 03-01 AX 258-01      N.D.      N.D.      0.005      0      0.02

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et. al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision # 1: 5/15/89.

Comments: \_\_\_\_\_

SUBMITTAL FORM/Laboratory Services

Bill VA

84225

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR. WKND  OTHER:

DELIVERED BY Zainul  
TIME / DATE 1/21/03

CLIENT ENVIRONMENTAL ENGINEERING, INC.  
ADDRESS 715 N. CENTRAL AVE., STE 212  
GLENDALE, CA 91203

DATE OF SHIPMENT 1/21/03 CARRIER  
CLIENT P.O. NO.  
CLIENT JOB/PROJECT ID NO(S)

TELEPHONE  
CONTACT DR. ZAINUL ABEDIN

USA - Bldg 258 Attic 300  
PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO.  
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 1/21/03  
SAMPLE PRESERVATIVES HOLDING TIMES  
NO. OF SAMPLES SENT 1 SAMPLER'S NAME Zainul Jamb  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY) EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT PARTICULATE
84225-01	03-01 AX 258-01	3rd Flr Attic Clearance		TEM / Air	1/21/03
<p>please give results by 10 AM on 1/22/03 to Ben Zainul</p>					

FOR EM (SF 5/00)

84225

Laboratory No. 84225 Received By [Signature] Time 7:00  
Date of Package Delivery 1-22-03 Shipping Bill Retained: YES  NONE   
Condition of Package on Receipt [Signature] Condition of Custody Seal  
NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.  
No. of Samples 1 Chain-of-Custody Signature [Signature]  
Date of Acceptance into Sample Bank 1-22-03 Misc. Info  
Disposition of Samples [Signature]

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 84225  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 1/22/03 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed \_\_\_\_\_ ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> $\geq 5 \mu\text{m}$ Length
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	$\geq 0.5 \mu\text{m}$ Length <input checked="" type="checkbox"/> PCM Range*
LEVEL II <input type="checkbox"/>		$\geq 1 \mu\text{m}$ Length <input type="checkbox"/> $\geq 1 \mu\text{m}$ Width
		$\geq 5.0 \mu\text{m}$ Length

Sample Identification	Volume (L)	Mass (g)	Structures (mm)	Structure (cc)	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

84-132  
 03-01 AX 258-01      1200      N.D.      N.D.      0.005      0      0.02

TEM-3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
  - "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
  - PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.
- Comments: \_\_\_\_\_

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 84225  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 03-01 AX 258-01  
 RECEIVED: 1/22/03 ANALYZED: 1/22/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D.	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range .....	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Amphibole Fibers .....	N.D.	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range .....	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Number of Asbestos Bundles .....	N.D.	N.D. /cc
Total Number of Asbestos Cluster Clumps .....	N.D.	N.D. /cc
Total Number of Asbestos Matrix/Debris .....	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D.	N.D. /cc
Chrysotile .....	N.D.	N.D. /cc
Amphibole .....	N.D.	N.D. /cc
Crocidolite .....	N.D.	N.D. /cc
Tremolite .....	N.D.	N.D. /cc
Amosite .....	N.D.	N.D. /cc
Anthophyllite .....	N.D.	N.D. /cc
Actinolite .....	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	N.D.	N.D. /cc
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.02
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	N.D.	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	N.D.	

REMARKS: LIGHT TO MODERATE DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-133

# TEM ASBESTOS ANALYSIS

EMS Lab No. 84225  
 Client VAGTAM  
 Sample No. 03-01A X258-01

**RECEIVING**

METHOD OF ANALYSIS  
 EPA Yamato Level I   
 Level II   
 Level III   
 AMERA   
 ASPECT RATIO 3:1  5:1

LENGTHS  
 All Sizes (EPA)  
 (µm) : 2 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range:  
 (0.25 µm min. > 50 µm length)

TYPE OF SAMPLE  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Micrococ

FILTER TYPE/AREA (mm)  
 MCE/385   
 MCE/314   
 MCE/1017   
 Other

PORE SIZE  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

**PREP**

DIRECT PREP   
 INDIRECT PREP   
 Volume 12.00 liters  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

Date 1-22-03  
 Prepared By SA

**ANALYSIS**

G.O. Area (nm<sup>2</sup>) 0.0093  
 No. of G.O. to Analyze 7

Page 1 of 1

**MICROSCOPE**  
 H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

Grid Address A  
 Screen Magnification 9200  
 Camera Constant 98.2  
 Accelerating Voltage 100KV  
 Beam Current 10 µA

Analyst S.Ahmed Date 1/22/03

Grid Opening	Structure Number	Structure	Structure	Dimension (nm)			SAED Observation				EDS Analysis				Comments					
				Width	Length	Thickness	Chrysotile	Amphibole	Amorphous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe	Id		
<u>01-4 A5D</u>																				
<u>03-6 A5D</u>																				
<u>05-3 A5D</u>																				
<u>05-4 A5D</u>																				

**16 Lines**

OBSERVATIONS:  
 Clean   
 Debris:   
 Gypsum:   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

# TEM ANALYSIS

EMS Lab No. 84225  
 Client VA GLAHS  
 Sample No. 03-01A X258-01

Page 1 of 1  
 MICROSCOPE

Grid Address: B200 H600A - Serial No. 542-36-04   
 Screen Magnification: 785x H600B - Serial No. 542-05-06   
 Camera Constant: 100 H600C - Serial No. 542-24-03   
 Accelerating Voltage: 10 KV  
 Beam Current: 10 nA

## ANALYSIS

Analyst S Ahmed Date 1/22/85

## RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>EM-2B</u>	<u>ASD</u>	<u>ASD</u>															
<u>CU-6</u>	<u>ASD</u>	<u>ASD</u>															
<u>BU-4</u>	<u>ASD</u>	<u>ASD</u>															

EM-2B ASD  
CU-6 ASD  
BU-4 ASD

84-135

16 Lines

OBSERVATIONS: Clean  Debris  Gypsum   
 Condition of the Grid:  Very Light  Light  Scrappy  Undissolved Filter   
 Very Heavy  Heavy  Moderate  Moderate  Heavy  Very Heavy  Folded



DATE: January 21, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C1094, #258 ATTIC  
COLLECTED: 1/16/03 am-pm by, Ken Hooper  
REPORT NO: 84191.1  
DATE RECEIVED: January 20, 2003 at 1000  
DATE ANALYZED: January 21, 2003  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

*Prev. File  
Bldg File  
Bldg 258  
ATTIC*

The sample was identified as:  
0301CL258 ATTIC

The air sample was analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763. "Asbestos-Containing Materials in Schools," final rule under AHERA.

Both amosite and chrysotile were identified in this heavily asbestos loaded sample.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

AJK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc. Any deviation or exclusion from the test method is noted in this cover letter. Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified and intact.

84-136



**SUBMITTAL FORM / Laboratory Services**

**84191**

TURNAROUND TIME: STD  48 HR.  24 HR.  **RELINQUISH**  **TIME / DATE** 1/16/03

CLIENT GLAHS - WEA DATE OF SHIPMENT: \_\_\_\_\_ CARRIER: \_\_\_\_\_

ADDRESS 11301 WILSHIRE CLIENT P.O. NO. \_\_\_\_\_

L.A. CALIF CLIENT JOB/PROJECT ID NO(S) 258

TELEPHONE \_\_\_\_\_ ATTIC

CONTACT Ben Spivey PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED: VIA  VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION: 1/16/03 Am-Pm

SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT 2 (1+1) SAMPLER'S NAME Ken Hooper PRINTED Ken Hooper

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO.

DESCRIPTION LOCATION ANALYSIS

84191-1-A 0301 AX 258 ATIC AREA STRAWELL Pcm 2700

84191-1-B 0351 CL 258 ATIC ATIC Tem 1200

ALSO NOTIFY ZANUL  
FAX 818-547-1331

UAGLAHS

**84191**

Laboratory No. 84191.1 Received By [Signature] Time 10:00

Date of Package Delivery 1/20/03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal \_\_\_\_\_

(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 2 (1+1) Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 1/20/03 Misc Info \_\_\_\_\_

Disposition of Samples EMS LAB 84-137

(SF 5/00)

FOR ENV

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 84191.1  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 1/20/03  
 ▶ Date Analyzed 1/21/03  
 ▶ Verbal Results \_\_\_\_\_  
 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	≥ 0.5 μm Length <input checked="" type="checkbox"/>
LEVEL II <input type="checkbox"/>		≥ 1 μm Length <input type="checkbox"/>
		≥ 5.0 μm Length <input type="checkbox"/>
		PCM Range* <input type="checkbox"/>
		* (0.25 μm Width, ≥ 5.0 μm Length)

Sample Identification	Volume(L)	Mass(mg)	Structures/mm	Structure/cc	95% CONFIDENCE LEVELS	
					Lower Limit	Upper Limit

0301 CL 258 ATTIC	1200	780	0.3	0.005	0.2	0.3
-------------------	------	-----	-----	-------	-----	-----

84 = 138

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
  - "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
  - PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.
- Comments: \_\_\_\_\_

EMG FMS LABORATORIES

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 84191.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA COUNTING RULES

SAMPLE DESCRIPTION: 0301 CL 258 ATTIC  
 RECEIVED: 1/20/03 ANALYZED: 1/21/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM		CALCULATED VALUE	
Total Number of Fibers				
Total Chrysotile Fibers .....	19		0.09 /cc	
Fiber Length: Range(um) .....	0.5 -	4.2	MEAN	1.4 um
Fiber Diameter: Range(um) .....	0.05 -	0.05	MEAN	0.05 um
Aspect Ratio: Range .....	10 -	80	MEAN	26
Fibers <5um/ Fibers >=5um .....	19 /	N.D.	0.09 /	N.D. /cc
Total Amphibole Fibers .....	16		0.08 /cc	
Fiber Length: Range(um) .....	1 -	34	MEAN	12 um
Fiber Diameter: Range(um) .....	0.05 -	0.6	MEAN	0.2 um
Aspect Ratio: Range .....	15 -	330	MEAN	74
Fibers <5um/ Fibers >=5um .....	5 /	11	0.02 /	0.05 /cc
Total Number of Asbestos Bundles .....	3		0.01 /cc	
Total Number of Asbestos Cluster Clumps .....	N.D.		N.D. /cc	
Total Number of Asbestos Matrix/Debris .....	13		0.06 /cc	
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>51</b>		<b>0.3 /cc</b>	
Chrysotile .....	30		0.1 /cc	
Amphibole .....	21		0.1 /cc	
Crocidolite .....	N.D.		N.D. /cc	
Tremolite .....	N.D.		N.D. /cc	
Amosite .....	21		0.1 /cc	
Anthophyllite .....	N.D.		N.D. /cc	
Actinolite .....	N.D.		N.D. /cc	
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	<b>38</b>		<b>0.2 /cc</b>	
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>51</b>		<b>0.3 /cc</b>	
Sensitivity Level(Structures/cc) .....			0.005	
Lower 95% Confidence Limit(Structures/cc) .....			0.2	
Upper 95% Confidence Limit(Structures/cc) .....			0.3	
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	<b>N.D.</b>		<b>N.D. /cc</b>	
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	<b>780</b>			

REMARKS: MODERATE TO HEAVY DEBRIS

\* TEM data is accurate to no more than one significant figure.

84-139

# TEM ASBESTOS ANALYSIS

EMS Lab No. 84191.1  
 Client GLAHS - WLA  
 Sample No. 030/SC 258 ATIC

**METHOD OF ANALYSIS**  
 EPA Yarnate Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1

**LENGTHS**  
 AS Sizes (EPA)  
 (µm) : ≥ 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*  
 \*0.25 µm width, >50 µm length

**TYPE OF SAMPLE**  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvial

**FILTER TYPE/AREA (mm²)**  
 MCE/285   
 MCE/314   
 MCE/1017   
 Other   
**PORE SIZE**  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 1.200 litres  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %  
 Date 1-20  
 Prepared By SKA

## ANALYSIS

Grid Address \_\_\_\_\_  
 Screen Magnification \_\_\_\_\_  
 Camera Constant \_\_\_\_\_  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

Page 1 of 1  
**MICROSCOPE**  
 H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

**A**  
 Date 1-21-03  
 Analyst Noble

Grid Opening	Structure Number	Structure	Dimension (mm)		Thickness	SAED Observation				EDS Analysis					Comments			
			Width	Length		Chrysotile	Amphibole	Andragous	Non fibrous	No Pattern	Mg	Si	Ca	Fe		Id		
51-	1	F	4	300		✓							1	10				FD1 amosik
	2	MP	190	220		✓							1	10				FD1 amosik
	3	MP	155	440		✓							1	10				FD1 amosik
FD1	4	MP	80	600		✓							1	10				FD1 amosik
	5	F	1	20		✓							10	10				FD1 Chrysothl.
	6	F	1	18		✓							10	10				FD1 "
	7	F	1	14		✓							14	10				FD1 "
	8	F	1	35		✓							6	10				FD1 "
	9	F	1	27		✓							6	10				FD1 "
	10	F	1	31		✓												FD1 "
	11	MP	250	350		✓												FD1 amosik
	12	F	5	75		✓							1	10				FD1 "
	13	F	4	530		✓												FD1 "
	14	MP	160	500		✓												FD1 "
	15	F	1	50		✓												FD1 "
	16	F	1	30		✓												FD1 "

16 Lines

**OBSERVATIONS:**  
 Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

**Very Light**   
**Very Light**   
**Good**

**Light**   
**Light**   
**Scrappy**

**Moderate**   
**Moderate**   
**Undissolved Filter**

**Heavy**   
**Heavy**   
**Folded**

**Very Heavy**   
**Very Heavy**

84-140

# TEM ASBESTOS ANALYSIS

EMS Lab No. 841911  
 Client LAITH WLA  
 Sample No. AJILC

RECEIVING

## ANALYSIS

Grid Address A H600A - Serial No. 542-36-01   
 Screen Magnification 19.2kx H600B - Serial No. 542-05-06   
 Camera Constant 26.1 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu$ A

Analyst lakh Date 1-21-03

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
Exp-17	MD	90	1300			✓											EDS amosil
18	MD	5	250			✓											1 11
19	MD	2.5	70			✓											EDS amosil
20	F	1	15			✓											
21	MD	160	1200			✓											
22	F	1	11			✓											
23	F	1	12			✓											
24	F	1.5	80			✓											ED amosil
25	MD	160	260			✓											ED 1
26	R	1	14			✓											
27	MD	100	150			✓											ED amosil
28	F	3	210			✓											

15 Lines

OBSERVATIONS: Clean   
 Debris:   
 Gypsum:   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

21-Jan-2003 07:32:09

84191.1, ATTIC, A, #01, RS      Preset=      100 secs  
Vert=      500 counts    Disp= 1      Elapsed=      11 secs

Energy	Counts	X-Ray Lines
0.53	916.	O K , O K , V L , Cr L , V L , Cr L , V L , V L , Cr L1 , Cr L
0.75	76.	Co L , Co L , Co L , Co L
1.27	142.	Mg K , Mg K , Mg K
1.76	991.	Si K , Si K
5.92	36.	Mn K , Mn K
6.42	664.	Fe K , Fe K
7.09	61.	Fe K , Fe K

Quantex>  
0.330      Range=      10.230 keV      Integral 0 =      4746

21-Jan-2003 07:33:00

84191.1, ATTIC, A, #02, RS      Preset=      100 secs  
Vert=      500 counts    Disp= 1      Elapsed=      9 secs

Energy	Counts	X-Ray Lines
0.54	1058.	O K , O K , V L , Cr L , V L , Cr L , V L , Cr L , V L , V L , V L , Cr L , Cr L1
0.76	51.	Co L , Co L , Co L , Co L
1.27	162.	Mg K , Mg K , Mg K
1.77	1224.	Si K , Si K
3.69	34.	Ca K , Ca K
6.43	677.	Fe K , Fe K

Quantex>      107.      Fe K , Fe K      Integral 0 =      6308  
0.330      Range=      10.230 keV      10.230

84-142

21-Jan-2003 07:36:32

04191.1, ATTIC, A, #03, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 11 secs

Energy Counts X-Ray Lines

0.55 1187. O K , O K , V L , Cr L , V L ,  
Cr L , V L , Cr L , V L , V L ,  
V L , Cr L , Cr L

1.27 223. Mg K , Mg K , Mg K

1.77 1491. Si K , Si K

5.88 31. Pb K , Pb K

6.43 901. Fe K , Fe K

7.09 89. Fe K , Fe K

Quantex)

0.320 Range= 10.230 keV

10.230

Integral 0 = 8053

21-Jan-2003 07:38:15

04191.1, ATTIC, A, #04, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 14 secs

Energy Counts X-Ray Lines

0.54 1214. O K , O K , V L , Cr L , V L ,  
Cr L , V L , Cr L , V L , V L ,  
V L , Cr L , Cr L

1.29 205. Mg K , Mg K , Mg K

1.77 1336. Si K , Si K

6.42 633. Fe K , Fe K

7.00 100. Fe K , Fe K

Quantex)

0.320 Range= 10.230 keV

10.230

Integral 0 = 7829

84-143



21-Jan-2003 07:39:21

84191.1, ATTIC, A, #06, RS                   Preset=           100 secs  
Vert=   500 counts   Disp= 1           Elapsed=           11 secs  
Energy   Counts   X-Ray Lines

0.54    314.   O K , O K , V L , Cr L , V L ,  
          Cr L , V L , Cr L , V L , V L ,  
          V L , Cr L , Cr L1  
1.27    326.   Mg K , Mg K , Mg K  
1.76    251.   Si K , Si K  
3.71    37.    Ca K , Ca K

Quantex>

0.320    Range=   10.230 keV                   Integral 0 =   2595  
10.230

21-Jan-2003 07:40:03

84191.1, ATTIC, A, #06, RS                   Preset=           100 secs  
Vert=   500 counts   Disp= 1           Elapsed=           13 secs  
Energy   Counts   X-Ray Lines

0.54    388.   O K , O K , V L , Cr L , V L ,  
          Cr L , V L , Cr L , V L , V L ,  
          V L , Cr L , Cr L1  
1.27    393.   Mg K , Mg K , Mg K  
1.76    313.   Si K , Si K  
3.73    41.    Ca K

Quantex>

0.320    Range=   10.230 keV                   Integral 0 =   3143  
10.230

84-144

21-Jan-2003 07:41:40

84191.1, ATTIC, A, #07, RS

Preset= 100 secs

Verb= 500 counts Disp= 1

Elapsed= 9 secs

Energy Counts X-Ray Lines

0.55 251. O K , O K , V L , Cr L , V L ,  
Cr L , V L , Cr L , V L , V L ,  
V L , Cr L , Cr L

1.20 277. Mg K , Mg K , Mg K

1.76 245. Si K , Si K

3.71 37. Ca K , Ca K

Quantex)

0.320 Range= 10.230 keV

10.230

Integral 0 = 2342

21-Jan-2003 07:42:45

84191.1, ATTIC, A, #08, RS

Preset= 100 secs

Verb= 500 counts Disp= 1

Elapsed= 17 secs

Energy Counts X-Ray Lines

0.54 326. O K , O K , V L , Cr L , V L ,  
Cr L , V L , Cr L , V L , V L ,  
V L , Cr L , Cr L

1.26 142. Mg K , Mg K , Mg K

1.76 208. Si K , Si K

Quantex)

0.320 Range= 10.230 keV

10.230

Integral 0 = 3215

84-145

23-Jan-2003 07:43:45

84191.1, ATTIC, A, #09, E6

Presets=

100 secs

Vert= 500 counts Disp= 1

Elapsed=

28 secs

Energy Counts. X-Ray Lines

0.54 578. O K , O K , V L , Cr L , V L ,  
Cr L , V L , Cr L , V L , V L ,  
V L , Cr L , Cr L

1.27 264. Mg K , Mg K , Mg K

1.51 77. Al K , Al K , Al K

1.75 366. Si K , Si K

3.71 88. Ca K , Ca K

Quantex>

0.320

Range=

10.230 keV

10.230

Integral 0 =

4692

84-146

21-Jan-1965 07:46:03

64091.1, NITEL, G, W, E,

ENERGY	COUNTS	X-RAY LINES
0.54	1465.	O K $\alpha$ 1, O K $\alpha$ 2, V L $\alpha$ 1, Cr L $\alpha$ 1, V L $\alpha$ 2, Cr L $\alpha$ 2, V L $\beta$ 1, Cr L $\beta$ 1, V L $\beta$ 3, V L $\beta$ 4, V L $\beta$ 1, Cr L $\beta$ 1, Cr L $\gamma$ 1
0.76	90.	Co L $\alpha$ 1, Co L $\alpha$ 2, Co L $\beta$ 1, Co L $\beta$ 1
1.20	273.	Mg K $\alpha$ 1, Mg K $\alpha$ 2, Mg K $\beta$ 1
1.76	1496.	Si K $\alpha$ 1, Si K $\alpha$ 2
2.65	34.	Cl K $\alpha$ 1, Cl K $\alpha$ 2
3.64	32.	Ca K $\alpha$ 2
5.83	47.	Mn K $\alpha$ 1
6.42	914.	Fe K $\alpha$ 1, Fe K $\alpha$ 2
7.07	111.	Fe K $\beta$ 1, Fe K $\beta$ 3

84-147

21-Jan-1963 07:47:32

04191.1, FITIC, A, 013,

ENERGY	COUNTS	X-RAY LINES
0.53	2494.	O KA1, O KA2, V LA1, Cr LA1, V LA2, Cr LA2, V LB1, V LB2, Cr LL1, Cr LN
0.75	220.	Co LA1, Co LA2, Co LB1, Co LB2
1.27	463.	Mg KA1, Mg KA2, Mg KB1
1.76	2925.	Si KA1, Si KA2
3.34	57.	K KA1, K KA2
5.90	96.	Mn KA1, Mn KA2
6.42	1755.	Fe KA1, Fe KA2
7.07	235.	Fe KB1, Fe KB2

84-148

21-Jan-2003 09:00:55

84191.1, ATTIC, A, #18, KS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 9 secs

Energy Counts X-Ray Lines

0.53 984. U K , O K , V L , Cr L , V L ,  
Cr L , V L , V L , Cr L , Cr L

0.75 67. Co L , Co L , Co L , Co L

1.26 142. Mg K , Mg K , Mg K

1.76 1149. Si K , Si K

6.42 690. Fe K , Fe K

7.09 97. Fe K , Fe K

Quantex)

0.320 Range= 10.230 keV

10.230

Integral 0 = 9013

21-Jan-2003 09:02:36

84191.1, ATTIC, A, #19, KS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 27 secs

Energy Counts X-Ray Lines

0.54 688. U K , O K , V L , Cr L , V L ,  
Cr L , V L , Cr L , V L , V L ,  
V L , Cr L , Cr L

1.27 98. Mg K , Mg K , Mg K

1.77 745. Si K , Si K

3.72 77. Ca K , Ca K

6.42 369. Fe K , Fe K

Quantex)

0.320 Range= 10.230 keV

10.230

Integral 0 = 6990

84-149

21-Jan-2003 09:04:52

84191.1, ATTIC, R, #21, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 16 secs

Energy Counts X-Ray Lines

0.53 1110. O K , O K , V L , Cr L , V L ,  
Cr L , V L , V L , Cr L , Cr L

0.75 70. Co L , Co L , Co L , Co L

1.27 187. Mg K , Mg K , Mg K

1.76 1330. Si K , Si K

5.92 73. Mn K , Mn K

6.42 772. Fe K , Fe K

7.07 110. Fe K , Fe K

Quantex>

0.320 Range= 10.230 keV

10.230

Integral 0 = 5053

21-Jan-2003 09:08:32

84191.1, ATTIC, R, #24, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 20 secs

Energy Counts X-Ray Lines

0.53 773. O K , O K , V L , Cr L , V L ,  
Cr L , V L , V L , Cr L , Cr L

1.28 157. Mg K , Mg K , Mg K

1.76 617. Si K , Si K

3.70 94. Ca K , Ca K

6.42 340. Fe K , Fe K

Quantex>

0.320 Range= 10.230 keV

10.230

Integral 0 = 7081

84-150

21-Jan-2003 09:10:13

04191.1, ATTIC, A, #28, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 24 secs

Energy Counts X-Ray Lines

0.54 518. O K , O K , V L , Cr L , V L ,  
Cr L , V L , Cr L , V L , V L ,  
V L , Cr L , Cr L

0.75 56. Co L , Co L , Co L , Co L

1.28 62. Mg K , Mg K , Mg K

1.76 583. Si K , Si K

3.70 72. Ca K , Ca K

6.41 273. Fe K , Fe K

Quantex

0.320 Range= 10.230 keV

10.230

Integral 0 = 7581

21-Jan-2003 09:12:40

04191.1, ATTIC, A, #28, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 12 secs

Energy Counts X-Ray Lines

0.53 717. O K , O K , V L , Cr L , V L ,  
Cr L , V L , V L , Cr L , Cr L

0.74 47. Fe L , Co L , Fe L , Co L , Fe L ,  
Fe L

0.97 41. Zn L , Zn L

1.28 96. Mg K , Mg K , Mg K

1.75 541. Si K , Si K

6.42 449. Fe K , Fe K

Quantex

0.320 Range= 10.230 keV

10.230

Integral 0 = 5990

84-151



# TEM ASBESTOS ANALYSIS

EMS Lab No. 841911  
 Client: GLAHS WLA  
 Sample No. ATTIC.

Grid Address: B H600A - Serial No. 542-36-01   
 Screen Magnification: 920x H600B - Serial No. 542-05-06   
 Camera Constant: 98-1 H600C - Serial No. 542-24-03   
 Accelerating Voltage: 100KV  
 Beam Current: 0  $\mu$ A

Analyte: S Ahmed Date: 1/1/03

## ANALYSIS

## RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
05-1	1	H	25	50		✓											All Amphiboles are Amosite
	2	H	22	130		✓											
	3	H	6	350		✓											
	4	H	1	250		✓											
	5	H	1	250		✓											
	6	H	1	250		✓											
	7	H	1	250		✓											
	8	H	1	250		✓											
	9	H	1	250		✓											
	10	H	1	250		✓											
	11	H	1	250		✓											
	12	MD	80	110		✓											
067	13	F	80	80		✓											
	14	F	80	40		✓											
	15	F	80	350		✓											
	16	F	80	350		✓											

16 Lines

OBSERVATIONS: Clean  Debris:  Very Light  Light  Moderate  Heavy  Very Heavy   
 Gypsum:  Very Light  Light  Moderate  Heavy  Very Heavy   
 Condition of the Grid:  Good  Undischarged Filter  Folded

# TEM ANALYSIS

EMS Lab No. 84191-1  
 Client VAGALAHS  
 Sample No. ASTIC

MICROSCOPE

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification XH600B - Serial No. 542-05-06   
 Camera Constant H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 1uA

## ANALYSIS

RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysolite	Amphibole	Anfibolous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
<u>CU-3</u>	<u>17</u>	<u>MR</u>	<u>50</u>	<u>330</u>		<input checked="" type="checkbox"/>										
	<u>18</u>	<u>MC</u>	<u>40</u>	<u>50</u>		<input checked="" type="checkbox"/>										
	<u>19</u>	<u>MR</u>	<u>30</u>	<u>110</u>		<input checked="" type="checkbox"/>										
	<u>20</u>	<u>F</u>	<u>5</u>	<u>130</u>		<input checked="" type="checkbox"/>										
	<u>21</u>	<u>F</u>	<u>12</u>	<u>200</u>		<input checked="" type="checkbox"/>										
	<u>22</u>	<u>F</u>	<u>1</u>	<u>20</u>		<input checked="" type="checkbox"/>										
	<u>23</u>	<u>F</u>														

CU-3  
84-153

16 Lines

OBSERVATIONS: Clean  Debris  Gypsum  Condition of the Grid:  Very Light  Very Light  Good  Light  Light  Scrippy  Undissolved Filter  Moderate  Moderate  Heavy  Heavy  Folded  Very Heavy  Very Heavy

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
**N/A**

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)
---------------------------------------	-------------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date : 02/08/03**  
**Project: Floor Tile & Mastic Removal**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 500 Room. 1020 Floor: First Floor**

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

6. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE_01	SAMPL_02	SAMPLE_03	SAMPLE_04	SAMPLE_
a. SAMPLE TYPE/MEDIA	BL/PCM Inside	BL/PCM East Hall	Area/PCM East Hall	Area/PCM West Hall	
b. SAMPLE SUBMISSION NO.	0302AX500R1020	0302AX500R1020	0302AX500R1020	0302AX500R1020	
c. TIME ON	08:00	08:05	10:30	10:35	
d. TIME OFF	10:00	10:05	14:00	14:35	
e. TOTAL TIME (In minutes)	120	120	210	210	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	15	15	
g. VOLUME (in liters)	1,800	1800	3150	3150	

6. RESULTS (For Laboratory Use)									
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE			
						b. TYPE			
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	DATE
Asbestos	F/CC	0.0542	F/CC	0.0015	F/CC	0.0033	F/CC	0.0020	02/08/03

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**Phase Contrast Microscopy**

8. IH COMMENTS TO LABORATORY  
**PCM**

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>02/08/03</b>	10b. FLOW RATE CALCULATIONS <b>15 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>02/08/03</b>	10d. FLOW RATE CALCULATIONS <b>15 liters/minute</b>
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer/Zainul Abedin</b>	DATE <b>02/08/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-------------------------	---

84-154

Date: 02/08/03  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 02/08/03

Location: VA Hospital Bldg. 500 Room 1020 First Floor

Abatement Company: Unlimited

Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Floor Tile & Mastic

Quantity of ACM: Approximately 480 sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date: \_\_\_\_\_

CAL/OSHA Yes X No       
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes      No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes      No X Worker's Name/SS #: \_\_\_\_\_
- 2. Pre-Tests: 0302AX500R1020 -01 & 02
- 3. Perimeter:     : 0302AX500R1020 -02
- 4. Inside Work Area: : 0302AX500R1020 -01

84-155

5. Clearance: : 0302AX500R1020-06

6. VAH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: X Hodds & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glove bags: Yes      No X Properly Taped to Pipes: Yes X No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 2 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes      No X Name & Type:
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 500, Floor: First, Rooms: 1020 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 02/09/03 are as follows:

Bldg. <u>500</u>	Floor: <u>First</u>	Room: <u>1020</u>	<u>0</u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer

84-156

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

**4. EMPLOYEE INFORMATION**

b. NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
-----------------------------------	-------------------	-----------

c. ADDRESS (Street, City, State & Zip Code)  
**N/A**

d. PERSONAL PROTECTIVE EQUIPMENT USED <b>N/A</b>	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)
---	-------------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space Is Needed Use Reverse).

**Date :** 02/09/03  
**Project:** Floor Tile & Mastic Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 500 Room. 1020 Floor : First Floor

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE_05	SAMPL_06	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Area/TEM West Hall	CL/TEM Inside			
b. SAMPLE SUBMISSION NO.	0302AX500R1020	0302AX500R1020			
c. TIME ON	08:00	12:00			
d. TIME OFF	10:30	14:00			
e. TOTAL TIME (in minutes)	150	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10			
g. VOLUME (in liters)	1,500	1200			

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

SUBSTANCE ↓	UNIT	a. PERCENTAGE		UNIT	RESULT	DATE
		RESULT	TYPE			
Asbestos	S/mm <sup>2</sup>	ND		S/mm <sup>2</sup>	ND	02/09/03

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
 TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
---	--

9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>02/09/03</b>	10b. FLOW RATE CALCULATIONS <b>10 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>02/09/03</b>	10d. FLOW RATE CALCULATIONS <b>10 liters/minute</b>
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer/Zainul Abedin</b>	DATE <b>02/09/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

84-157

Date: 02/09/03  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 02/09/03

Location: VA Hospital Bldg. 500 Room 1020 First Floor

Abatement Company: Unlimited

Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Floor Tile & Mastic

Quantity of ACM: Approximately 480 sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date: \_\_\_\_\_

CAL/OSHA Yes X No       
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes      No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes      No X Worker's Name/SS #: \_\_\_\_\_
- 2. Pre-Tests: 0302AX500R1020-01 & 02
- 3. Perimeter:     : 0302AX500R1020-05
- 4. Inside Work Area: : 0302AX500R1020-06

84-158

5. Clearance: : 0302AX500R1020-06

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glove bags: Yes      No X Properly Taped to Pipes: Yes X No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 2 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes      No X Name & Type:
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 500, Floor: First, Rooms: 1020 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 02/09/03 are as follows:

Bldg. <u>500</u>	Floor: <u>First</u>	Room: <u>1020</u>	<u>0</u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer

84-159



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 845547 Date Received 2-10-03 Verbal Results 2-10-03 at 10:00a  
 Client VACAL AHS Date Analyzed 2-10-03 FAX Results 2-10-03  
 Reference No. VA-Bldg 500, Rm 102a

Direct Preparation	<input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
Indirect Preparation	<input type="checkbox"/>	3:1	All Sizes (EPA)
EPA Level I	<input type="checkbox"/>	5:1	≥0.5µm Length
EPA Level II	<input type="checkbox"/>		>5µm Length
AHERA Rules	<input checked="" type="checkbox"/>		PCM Range*
NIOSH 7402 (PCM Range)	<input type="checkbox"/>		*→0.25µm width, >5.0 µm Length

ANALYTICAL SENSITIVITY (Structures/cc)

95% CONFIDENCE LEVELS	Lower Limit	Upper Limit
-----------------------	-------------	-------------

Sample Identification	Volume (L)	Structures/mm <sup>2</sup>	Structures/cc	ANALYTICAL SENSITIVITY (Structures/cc)
0307AX5001020-05	1500	ND	ND	0.005
↓ 06	1200	ND	ND	0.005

84.160

X. "Asbestos-Containing Materials in Schools," U.S. EPA Final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.  
 "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et. al.)  
 NIOSH 7402, Revision #1: 5/15/89 (NIOSH 7400 PCM equivalent range)  
 SA Temanal 2/10/03  
 EMS LABORATORIES 117 West Bellevue Drive / Pasadena CA 91105-2503 / 626-568-4065

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 84554 Date Received: 2-10-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 2-10-03 Mfg: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 2/8, 9/03 Project #: VA BLDG 608 RM 1020 Filter Size: 2.5MM  
LOS ANGELES, CA 90073 Attention: B. SPYVEY File Name: 84554VAGLABSAIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
0102AN500102001	51	101.5	2.54	97608	1800.0	0.0542	0.0015	0.0171	0.0003
0302AN500102002	100	5.5	7	2697	1800.0	0.0015	0.0015	0.0171	0.0003
0402AN500102003	100	21.5	27	10545	3150.0	0.0033	0.0009	0.0098	0.0002
0302AN500102004	100	13	17	6376	3150.0	0.0020	0.0009	0.0098	0.0002

LOD = LIMIT OF DETECTION (FIBERS/Sq.mm)  
 LOQ = LIMIT OF QUANTIFICATION (80 FIBERS/Sq.mm)

ANL SENT - ANALYTICAL SENSITIVITY (1 FIBER/100)  
 N.A. = NOT AVAILABLE N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S. AHMAD

*Carl Bergman*  
 B.M. Kolk, Laboratory Director

Inhalable Sr is taken as 0.45 Inhalable Sr is 0.3  
 ND) (This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

**EMS LABORATORIES, 117 West Bellevue Dr., Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

84-161

TURNAROUND TIME: STD  48 HR.  24 HR.  84554 RECEIVED BY Zaidur  
 <8 HR.  WKND  OTHER

CLIENT Environmental Engineering Inc DATE OF SHIPMENT 2/9/03 CARRIER  
 ADDRESS 715 N Central Ave, #212 CLIENT P.O. NO.  
Glendale, CA 91203 CLIENT JOB/PROJECT ID NO(S) VA - Bldg 500 Room 1020  
 TELEPHONE \_\_\_\_\_ PACKAGE SHIPPED FROM \_\_\_\_\_  
 CONTACT Dir. Zaidur

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_  
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 2/8/03 to 2/9/03  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 4+2 SAMPLER'S NAME James  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)		CLIENT SAMPLE NO.			DESCRIPTION-LOCATION-ANALYSIS		VOLUME
EMS Sample No.							
<u>84554</u>	<u>1</u>	<u>0302AX500</u>	<u>1020</u>	<u>01</u>	<u>BackGND - W Rm 1020</u>	<u>PCM</u>	<u>1800</u>
	<u>2</u>	"	"	<u>02</u>	<u>" - East Hall</u>	<u>PCM</u>	<u>1800</u>
	<u>3</u>	"	"	<u>03</u>	<u>Removal - East Hall</u>	<u>PCM</u>	<u>3150</u>
	<u>4</u>	"	"	<u>04</u>	<u>Removal - West Hall</u>	<u>PCM</u>	<u>3150</u>
<u>84554.1-5</u>		"	"	<u>05</u>	<u>Removal - West Hall</u>	<u>TEM</u>	<u>1500</u>
<u>6</u>		"	"	<u>06</u>	<u>Clearance - W Rm 1020</u>	<u>TEM</u>	<u>120</u>
					<u>Needs Results by 10AM on 2/11</u>		
					<u>Monday</u>		
					<u>Zaidur</u>		

FOR EMS ONLY (SF 5/00)

Laboratory No. 84554 84554.1 Received By [Signature] Time 7:30  
 Date of Package Delivery 2-10-03 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt [Signature] Condition of Custody Seal \_\_\_\_\_  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 4+2 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 2-10-03 Misc. Info. \_\_\_\_\_  
 Distribution of Samples [Signature]

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

### 4. EMPLOYEE INFORMATION

NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 02-24-03

**Project:** Floor Tile & Mastic Removal

**Contractor:** Unlimited Environmental, Inc.

**Location:** Bldg. 44 Room : Key Shop on First Floor and Restrooms in the 2<sup>nd</sup> floor Floor : First & 2nd

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE	SAMPLE	SAMPLE ___	SAMPLE __	SAMPLE ___
a. SAMPLE TYPE/MEDIA	BL/PCM	BL/PCM			
b. SAMPLE SUBMISSION NO.	0302AX44-01	0302AX44-02			
c. TIME ON	07:15	09:30			
d. TIME OFF	08:50	11:00			
e. TOTAL TIME (In minutes)	95	90			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15			
g. VOLUME (in liters)	1425	1530			

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average								a. PERCENTAGE			
								b. TYPE			
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	T/C	DATE	
Asbestos	F/CC	0.0046	F/CC	0.006						02/24/03	

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
10a. (PRE) CALI-BRATION DATE <b>02/24/03</b>	10b. FLOW RATE CALCULATIONS <b>15 liter/minute</b>	10c. (POST) CALI-BRATION DATE <b>02/24/03</b>	10d. FLOW RATE CALCULATIONS <b>15 liter/minute</b>
11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>		DATE <b>02/24/03</b>	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..

AUTOMATED VA Form **10-0018** (In Lieu of)

*84-163*

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
---	-----------------------	---------------------------

<b>4. EMPLOYEE INFORMATION</b>		
b. NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) N/A		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

Date: 02-25-03

Project: Floor Tile & Mastic Removal

Contractor: Unlimited Environmental, Inc.

Location: Bldg. 44 Room : Key Shop on First Floor and Restrooms in the 2<sup>nd</sup> floor Floor : First & 2nd

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION					
(Fill in Sample No.)	Decon	Neg Air	Decon	2 <sup>nd</sup> Floor	SAMPLE
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM	Area/PCM	Area/PCM	
b. SAMPLE SUBMISSION NO.	0302AX44-03	0302AX44-04	0302AX44-05	0302AX44-06	
c. TIME ON	07:15	07:20	10:20	11:33	
d. TIME OFF	10:15	11:30	14:30	14:35	
e. TOTAL TIME (in minutes)	180	250	250	182	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	15	15	
g. VOLUME (in liters)	2700	3750	3750	2730	

6. RESULTS (For Laboratory Use)									
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE			
						b. TYPE			
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	DATE
Asbestos	F/CC	0.0031	F/CC	0.0003	F/CC	0.0014	F/CC	0.0002	02/25/03

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
--	---

9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER
---	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 02/25/03	10b. FLOW RATE CALCULATIONS 15 liter/minute	10c. (POST) CALI-BRATION DATE 02/25/03	10d. FLOW RATE CALCULATIONS 15 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 02/25/03	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..
--	------------------	--

84-164

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

**4. EMPLOYEE INFORMATION**

c. NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE
e. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 02-26-03

**Project:** Floor Tile & Mastic Removal

**Contractor:** Unlimited Environmental, Inc.

**Location:** Bldg. 44 Room : Key Shop on First Floor and Restrooms in the 2<sup>nd</sup> floor Floor : First & 2nd

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	CL/TBM				
b. SAMPLE SUBMISSION NO.	0302CL44-07				
c. TIME ON	08:30				
d. TIME OFF	10:30				
e. TOTAL TIME (In minutes)	120				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10				
g. VOLUME (In liters)	1200				

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average	a. PERCENTAGE
	b. TYPE

SUBSTANCE ↓	UNIT	RESULT							DATE
Asbestos	S/mm <sup>2</sup>	ND							02/26/03

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
---	--

9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>02/26/03</b>	10b. FLOW RATE CALCULATIONS <b>10 liter/minute</b>	10c. (POST) CALI-BRATION DATE <b>02/26/03</b>	10d. FLOW RATE CALCULATIONS <b>10 liter/minute</b>
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>02/26/03</b>	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

AUTOMATED VA Form **10-0018** (In Lieu of)

84-165

Date: 02/24-26/03  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 02/24-26/03

Location: VA-GLAHS Bldg. 44 : Key Shop on First Floor and Restrooms in the 2<sup>nd</sup> floor

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Georgeo Hernandez

Type of ACM: Floor Tiles & Mastic

Quantity of ACM: Approximately : 2000 Square feet

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No

Worker Training Current: Yes X No \_\_\_\_\_ Fit Tested: Yes X No \_\_\_\_\_

Worker Annual Medical Current: Yes X No \_\_\_\_\_ Safety Meeting: Yes X No \_\_\_\_\_

Notification to: SCAQMD Yes X No \_\_\_\_\_ CAL/OSHA Yes X No \_\_\_\_\_

Date: \_\_\_\_\_ Date :

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No \_\_\_\_\_
- B. Employees in Building Notified of Abatement: Yes X No \_\_\_\_\_
- C. Competent Person Outside of Work Area: Yes X No \_\_\_\_\_
- D. Asbestos Worksite Log: Yes X No \_\_\_\_\_

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes \_\_\_\_\_ No X
- B. Contractor Calibrated Pumps: Yes \_\_\_\_\_ No \_\_\_\_\_
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes No X Worker's Name/SS #:
- 2. Pre-Tests: 0302AX44-01 & 0302AX44-02
- 3. Perimeter: 84-166

- 4. Inside Work Area: 0302AX44-06
- 5. Clearance: 0302CL44-07
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glovebags: Yes      No X Properly Taped to Pipes: Yes      No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 3 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes X No      Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 44. Floor First & 2nd, Rooms Key & Rest Room indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 02/26/03 are as follows:
 

Bldg. <u>44</u>	Floor: <u>First</u>	Room: <u>Key</u>	ND	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>		<u>    </u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>		<u>    </u> fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>		<u>    </u> fibers/cc

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer

*[Signature]*  
84-167



SUBMITTAL FORM / Laboratory Services

84939.1

TURNAROUND TIME: STD  48 HR.  24 HR.   
 <8 HR.  WKND  OTHER: STD / RUSH

RELINQUISHED BY Zadnub

CLIENT VA-GLAHS (130b) see below  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

TIME / DATE 02/26/03

DATE OF SHIPMENT 02/26 CARRIER

TELEPHONE BEN SPIVEY  
 CONTACT

CLIENT P.O. NO.

CLIENT JOB/PROJECT ID NO(S). Bldg 44

VA-GLAHS

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX   
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

CLIENT FAX NO. Zadnub

DATE/TIME OF SAMPLE COLLECTION 02/24, 25, 26/03

SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT 7 SAMPLER'S NAME James Spencer

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO.

DESCRIPTION LOCATION ANALYSIS

DATE TIME RECEIVED

84939-1	0302AX44-1	BL/PCM	PCM	1425
2	-2	"	PCM	1350
3	-3	Area	PCM	2700
4	-4	"	PCM	3750
5	-5	"	PCM	3750
6	-6	"	PCM	2730
84939.1-7	-7	Clearance	TEM	1200

PCMS = STD TAT

Note: TEM Results needed by 10AM

on 02/27/03

② Forward all results to Zadnub with copy to Ben

84939

Laboratory No. 84939.1 Received By Cy Pille Time 3:40 PM

Date of Package Delivery 02-26-03 Shipping BDI Retained: YES  NONE

Condition of Package on Receipt Good Condition of Custody Seal None  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 6 + 1 Chain-of-Custody Signature UH

Date of Acceptance into Sample Bank 02-26-03 Misc. Info.

Disposition of Samples AM 5

(SF 5/00)

FOR EMS ONLY

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 84939 Date Received: 2-26-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 3-3-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 02/24-26/03 Project #: BLDG 44 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPITVEY File Name: 84939VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sqmm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
0302.AX44-1	100	13.5	17	6621	1425.0	0.0046	0.0019	0.0216	0.0003
0302.AX44-2	100	16.5	21	8092	1350.0	0.0060	0.0020	0.0228	0.0004
0302.AX44-3	100	17	22	8338	2700.0	0.0031	0.0010	0.0114	0.0002
0302.AX44-4	100	2	3	981	3750.0	0.0003	0.0007	0.0082	0.0001
0302.AX44-5	100	11	14	5395	3750.0	0.0014	0.0007	0.0082	0.0001
0302.AX44-6	100	1	1	490	2730.0	0.0002	0.0010	0.0113	0.0002

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.mm)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/Sq.mm)

ALHA Registered Asbestos Analyst  
 I.D. 7795 CARL BERGMAN B.M. Kolk, Laboratory Director  
 I.D. 2033 JEFF WAN  
 I.D. 3276 SAHMAD

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

84-169

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 84939.1 Date Received 2-21-05 Verbal Results \_\_\_\_\_  
 Client VALLEY AIRS Date Analyzed 2-27-05 FAX Results 2-27-05  
 Reference No. 100446

Direct Preparation  STRUCTURE SIZE  
 Indirect Preparation \_\_\_\_\_ All Sizes (EPA) \_\_\_\_\_  
 EPA Level I \_\_\_\_\_  $\geq 0.5\mu\text{m}$  Length   
 EPA Level II \_\_\_\_\_  $> 5\mu\text{m}$  Length \_\_\_\_\_  
 AHERA Rules \_\_\_\_\_ PCM Range\* \_\_\_\_\_  
 NIOSH 7402 (PCM Range) \_\_\_\_\_  $\rightarrow 0.25\mu\text{m}$  width,  $> 5.0\mu\text{m}$  Length

ASPECT RATIO  
 3:1   
 5:1

ANALYTICAL SENSITIVITY (Structures/cc) 0.005  
 95% CONFIDENCE LEVELS  
 Lower Limit \_\_\_\_\_  
 Upper Limit \_\_\_\_\_

Sample Identification 0302AX44-1 Volume (L) 1200 Structures/mm<sup>2</sup> ND Structures/cc ND

021-78  
 REVERSE 3200

"Asbestos-Containing Materials in Schools," U.S. EPA Final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.  
 \_\_\_\_\_ "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et. al.)  
 \_\_\_\_\_ NIOSH 7402, Revision #1: 5/15/89 (NIOSH 7400 PCM equivalent range)

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 691	3. REGION NO. VISN #22
---	-----------------------	---------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 02-28-03  
**Project:** Floor Tile & Mastic : Background Sampling  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long of this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04
a. SAMPLE TYPE/MEDIA	BL/TEM			
b. SAMPLE SUBMISSION NO.	0303AX300-209-01			
c. TIME ON	14:30			
d. TIME OFF	16:30			
e. TOTAL TIME (In minutes)	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m/min	10			
g. VOLUME (in liters)	1200			

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average

a. PERCENTAGE	b. Date : 03/01/03
---------------	--------------------

SUBSTANCE †	UNIT	RESULT					
Asbestos	S/mm2	ND					

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
TEM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
--	---

9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

(PRE) CALI- BRATION DATE 2/28/03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALIBRATION DATE 2/28/03	10d. FLOW RATE CALCULATIONS 10 l/min
--	--	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 2/28/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	-----------------	--

84-71

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 85001 Date Received: 3-3-03 Filter Type: MCE Filter Area: 385  
 Client: VACLAYS Date Analyzed: 3-3-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 3/12/03 Project #: BLDG 300 & BLDG 207 RM 709 & 710 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 85001VACLAYS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
030CX300-1	100	2	3	981	1200.0	0.0008	0.0022	0.0257	0.0004
030CX300-3	100	1.5	2	736	1200.0	0.0006	0.0022	0.0257	0.0004
030AX300-1	100	8.5	11	4169	1350.0	0.0031	0.0020	0.0228	0.0004
030AX300-2	100	32.5	41	15939	1400.0	0.0114	0.0019	0.0220	0.0004
030AX300-3	100	9.5	12	4659	1900.0	0.0025	0.0014	0.0162	0.0003
030AX300-4	100	2	3	981	2000.0	0.0005	0.0013	0.0154	0.0002
030AX300-5	100	13.5	17	6621	2050.0	0.0032	0.0013	0.0150	0.0002
030AX300-6	100	1	1	490	2060.0	0.0002	0.0013	0.0150	0.0002
030AX300-7	100	7	9	3433	1350.0	0.0025	0.0020	0.0228	0.0004
030AX300-8	100	2	3	981	1520.0	0.0006	0.0018	0.0203	0.0003

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.mm) ANL-SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/Sq.mm) N.A. = NOT AVAILABLE N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst Carl Bergman B.M. Koilk, Laboratory Director B.M. Koilk  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S.AHMAD

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
 Laboratory Sr is taken as 0.45. Intra-laboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

84-172

**SUBMITTAL FORM/Laboratory Services**

**85001.1**

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER: \_\_\_\_\_

RELINQUISHED BY: ZAMEER ABEDIN

CLIENT: VA HOSPITAL

TIME / DATE: 3/2/03

ADDRESS: 11301 WILSHIRE BLVD  
L.A. CALIF

DATE OF SHIPMENT: \_\_\_\_\_ CARRIER: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

CLIENT P.O. NO.: \_\_\_\_\_

CONTACT: BEN SPIKEY

CLIENT JOB/PROJECT ID NO(S): BL06 300  
Rm 209 & BL06 207 R. 220

PACKAGE SHIPPED FROM: \_\_\_\_\_

RESULTS REQUESTED VIA: VERBAL  FAX

CLIENT FAX NO.: \_\_\_\_\_

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION: 3/1/03 & 3/2/03

SAMPLE PRESERVATIVES: \_\_\_\_\_ HOLDING TIMES: \_\_\_\_\_

NO. OF SAMPLES SENT: 12 SAMPLER'S NAME: Eng H Z KERRY

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME
85001-1	0303CL300 1	CLEAR	Rm 209 - NORTH	TEM PCM	1200
85001.1-2	2	"	" - MID	TEM	1200
85001-3	3	"	" - SOUTH	TEM PCM	1200
01	03034X 300 1	BACKGROUND	#209	PCM	1350
02	2	"	"	PCM	1400
03	3	REM - DECON		PCM	1900
04	4	REM - NEG AIR		PCM	2000
05	5	REM - DECON		PCM	2050
06	6	REM - NEG AIR		PCM	2060
07	7	REM - DECON		PCM	1350
08	8	REM - Neg Air		PCM	1520
85001.1-71	03034X2071	REM	Rm 220	TEM	1200

Note: - ① TEM Results needed by 10AM on 2/14/03

(SF 5/00)

**85001.1**

Laboratory: \_\_\_\_\_ Received By: [Signature] Time: 7:30

Date of Packs: 3-3-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt: \_\_\_\_\_ Condition of Custody Seal: \_\_\_\_\_

No. of Samples: 10 + 2 Chain-of-Custody Signature: \_\_\_\_\_

Date of Acceptance into Sample Bank: 3-3-03 Misc. Info: 84-173

Disposition of Samples: \_\_\_\_\_

FOR EMS

DATE: March 5, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey/Zainul Abedin  
REFERENCE: P.O. NO. 691-C10949  
Bldg 300 Room 209 and Bldg 207 Room 220  
COLLECTED: 03/01/03 and 03/02/03 by K.H.  
REPORT NO: 85001.1  
DATE RECEIVED: 03/03/03 at 0730  
DATE ANALYZED: 03/03/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as:

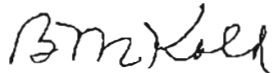
0303CL300-2 Clear Room 209 - MID  
0303AX2071 REM Rm 220

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

This report is based upon the same sampling data as laboratory. No representation is made regarding the sampling data other than that warranted by the analytical results of the immediate vicinity of the samples analyzed as indicated from the data presented with these samples.

This report from a NIST laboratory through NVLAP must not be used by the client to claim product measurement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

Any deviation or variation from the test method is noted at the end of the report. The client is responsible for the accuracy of the data presented in this report. The client is responsible for the accuracy of the data presented in this report.

84-774

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 550011      Date Received 3/3/03      Verbal Results \_\_\_\_\_  
 Client WACIT-ATIS      Date Analyzed \_\_\_\_\_      Fax Results \_\_\_\_\_  
 Location \_\_\_\_\_

**DIRECT PREP**       **ASPECT RATIO**  
**INDIRECT PREP**       3:1   
 LEVEL I       5:1   
 LEVEL II

**STRUCTURE SIZE**  
 All Sizes (EPA)   $\geq 5 \mu\text{m}$  Length  
 $\geq 0.5 \mu\text{m}$  Length       PCM Range\*  
 $\geq 1 \mu\text{m}$  Length       \* ( $\geq 25 \mu\text{m}$  Width,  $\geq 5.0 \mu\text{m}$  Length)

Sample Identification	Volume (L)	Mass (m <sup>3</sup> ) (ng/m <sup>3</sup> )	Structures/mm	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit

053 AX 207-1	1200		61	0.02	0.005	0.05
053 AX 300-2	1200		N.D.	N.D.	0	0.02

521-28

TEM - 3A (12-00)

- ( ) "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- ( ) "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et. al.)
- ( ) PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments:

17/11 EMS LABORATORIES





RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 855000 Date Received 3-1-03 Verbal Results \_\_\_\_\_  
 Client: WALCARTS Date Analyzed 3-3-03 FAX Results 3-3-03  
 Reference No. Bldg 300, Room 209

Direct Preparation	<input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
Indirect Preparation	<input type="checkbox"/>	3:1	All Sizes (EPA)
EPA Level I	<input type="checkbox"/>	5:1	≥0.5µm Length
EPA Level II	<input type="checkbox"/>		>5µm Length
AHERA Rules	<input checked="" type="checkbox"/>		PCM Ranges*
NIOSH 7402 (PCM Range)	<input type="checkbox"/>		*0.25µm width, >5.0 µm Length

ANALYTICAL SENSITIVITY (Structures/cc) 0.005

Sample Identification: 2303 AY 300 - 209/01 Volume (L) 1700 Structures/mm<sup>2</sup> ND Structures/cc ND

84-177

\* "Asbestos-Containing Materials in Schools," U.S. EPA Final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.  
 "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et. al.)  
 NIOSH 7402, Revision 01 5/15/89 (NIOSH 7400 PCM equivalent range)

S.A. Desmaray  
3/3/03

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 691	3. REGION NO. VISN #22
---	-----------------------	---------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space Is Needed Use Reverse).

**Date:** 03-01-03  
**Project:** Remove Floor Tile/Mastic  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION					
(Fill in Sample Nos)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	
a. SAMPLE TYPE/MEDIA	BL/PCM	BL/PCM	REM/PCM	REM/PCM	
b. SAMPLE SUBMISSION NO.	0303AX300-1	0303AX300-2	0303AX300-3	0303AX300-4	
TIME ON	08:00	08:05	11:50	11:55	
TIME OFF	10:15	10:25	15:00	15:15	
c. TOTAL TIME (In minutes)	135	140	190	200	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10	10	
g. VOLUME (in liters)	1350	1400	1900	2000	

6. RESULTS (For Laboratory Use)									
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average							a. PERCENTAGE		
							b. Date: 03/01/03		
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	
Asbestos	F/CC	0.0031	F/CC	0.0114	F/CC	0.0025	F/CC	0.0005	

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

9. (PRE) CALI- BRATION DATE 3/01/03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI- BRATION DATE 3/01/03	10d. FLOW RATE CALCULATIONS 10 l/min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 3/01/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	-----------------	--

84-178

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 691	3. REGION NO. VISN #22
---	-----------------------	---------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED N/A	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
--	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date: 03-02-03**  
**Project: Remove Floor Tile/Mastic**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>**

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE 05	SAMPLE 06	SAMPLE 07	SAMPLE 08
a. SAMPLE TYPE/MEDIA	REM/PCM	REM/PCM	REM/PCM	REM/PCM
b. SAMPLE SUBMISSION NO.	0303AX300-5	0303AX300-6	0303AX300-7	0303AX300-8
c. TIME ON	08:15	08:22	12:45	12:50
d. TIME OFF	11:40	11:48	15:20	15:22
e. TOTAL TIME (In minutes)	205	206	135	152
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10	10
g. VOLUME (in liters)	2050	2060	1350	1520

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

a. PERCENTAGE  
b. Date: 03/02/03

SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0032	F/CC	0.0002	F/CC	0.0025	F/CC	0.0006

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
--	---

9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

(PRE) CALI-BRATION DATE 02/03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI-BRATION DATE 3/02/03	10d. FLOW RATE CALCULATIONS 10 l/min
----------------------------------	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 3/02/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
--	-----------------	---

84-179

Date: 3/01/03  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement Dates: 3/01/03

Location: VA Hospital Bldg. 300 Room 209

Abatement Company: Unlimited Environmental, Inc. Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Floor Tile/Mastic

Quantity of ACM: 2000 Sq. Ft.

Abatement Type & Method(s): Removal/ Wet Method

Contractor Licensed & Registered: Yes X No

Worker Training Current: Yes X No

Fit Tested: Yes X No

Worker Annual Medical Current: Yes X No

Safety Meeting: Yes X No

Notification to: SCAQMD Yes X No  
Date: \_\_\_\_\_

CAL/OSHA Yes X No  
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes \_\_\_ No \_\_\_
- B. Contractor Calibrated Pumps: Yes \_\_\_ No \_\_\_
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:
1. Personal (VA): Yes \_\_\_ No X Worker's Name/SS #: \_\_\_\_\_
  2. Pre-Tests: 03034x300-1 and 03034x300-2
  3. Perimeter:

84-180

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: 0303CL300-1-2-3
- 6. VAIH Laboratory: \_\_\_\_\_

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: North Half Face
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glovebags: Yes     No X Properly Taped to Pipes: Yes     No X
- B. Containment: Yes X No     Thickness of Polyethylene: .6 mil
- C. Proper Decon: Yes X No     No. Chambers: 2 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No     Licensed: Vac. Only Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No     How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes     No X Name & Type: \_\_\_\_\_
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 300, Floor 2. Rooms 209 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 03/02/03 are as follows:

Bldg. <u>300</u>	Floor: <u>2nd</u>	Room: <u>209</u>	<u>ND</u>	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		fibers/cc

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer

*James Spencer*

84-181

1. FACILITY IDENTIFICATION  
VA-GLAHS

2. STATION NO. 691

4. EMPLOYEE INFORMATION

b. NAME OF EMPLOYEE  
N/A

SSN  
N/A

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED

e. MANUFACTURER  
N/A

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING

Date: 03-02-03

Project: Remove Floor Tile/Mastic

Contractor: Unlimited Environmental, Inc.

Location: Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>

h. FREQUENCY (How long job takes)  
N/A

i. DURATION (How long at this job)  
N/A

6. SAMPLING INFORMATION

(Filter Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03
a. SAMPLE TYPE/MEDIA	CL/PCM	CL/TEM	CL/PCM
b. SAMPLE SUBMISSION NO.	0303CL3001	0303CL3002	0303CL3003
c. TIME ON	15:30	15:31	15:32
d. TIME OFF	18:30	18:31	18:32
e. TOTAL TIME (in minutes)	120	120	120
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	10	10	10
g. VOLUME (in liters)	1200	1200	1200

8. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average

a. PERCENTAGE  
b. Date: 03/02/03

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0008	S/mm2	ND	F/CC	0.0006

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)

Phase Contrast Microscopy  
Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
PCM/TEM

9a. ANALYTICAL LABORATORY NAME  
EMS Laboratories

AIHA ACCREDITATION NUMBER  
NVLAP # 101218

9b. ADDRESS  
117 West Bellevue Dr., Pasadena, CA 91105

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE  
3/02/03

10b. FLOW RATE CALCULATIONS  
10 l/min

10c. (POST) CALIBRATION DATE :3/02/03

10d. FLOW RATE CALCULATIONS  
10 l/min

11. NAME & JOB TITLE (Person Performing Sampling)  
James Spencer

Date  
3/2/03

USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>691</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 03-01-03  
**Project:** Remove Floor Tile/Mastic  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION					
(Fill in Sample #)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	
a. SAMPLE TYPE/MEDIA	BL/PCM	BL/PCM	REM/PCM	REM/PCM	
b. SAMPLE SUBMISSION NO.	0303AX300-1	0303AX300-2	0303AX300-3	0303AX300-4	
TIME ON	08:00	08:05	11:50	11:55	
TIME OFF	10:15	10:25	15:00	15:15	
TOTAL TIME (In minutes)	135	140	190	200	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10	10	
g. VOLUME (in liters)	1350	1400	1900	2000	

6. RESULTS (For Laboratory Use)						a. PERCENTAGE		
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average						b. Date : 03/01/03		

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0031	F/CC	0.0114	F/CC	0.0025	F/CC	0.0005

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

(PRE) CALI- BRATION DATE 03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI- BRATION DATE 3/01/03	10d. FLOW RATE CALCULATIONS 10 l/min
-----------------------------------	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE 3/01/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-----------------	--

84-183



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 691	3. REGION NO. VISN #22
---	-----------------------	---------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

Date: 03-02-03  
 Project: Remove Floor Tile/Mastic  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

6. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE 05	SAMPLE 06	SAMPLE 07	SAMPLE 08	
a. SAMPLE TYPE/MEDIA	REM/PCM	REM/PCM	REM/PCM	REM/PCM	
b. SAMPLE SUBMISSION NO.	0303AX300-5	0303AX300-6	0303AX300-7	0303AX300-8	
c. TIME ON	08:15	08:22	12:45	12:50	
d. TIME OFF	11:40	11:48	15:20	15:22	
e. TOTAL TIME (in minutes)	205	206	135	152	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10	10	
g. VOLUME (in liters)	2050	2060	1350	1520	

8. RESULTS (For Laboratory Use)

P = PPM M = mg/m<sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average

a. PERCENTAGE
b. Date: 03/02/03

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0032	F/CC	0.0002	F/CC	0.0025	F/CC	0.0006

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
--	---

9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

9c. (PRE) CALI-BRATION DATE 03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI-BRATION DATE 3/02/03	10d. FLOW RATE CALCULATIONS 10 l/min
-----------------------------------	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 3/02/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	-----------------	--

84-184

Date: 3/01/03

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer CAC # 920368

Abatement Dates: 3/01/03

Location: VA Hospital Bldg, 300 Room 209

Abatement Company: Unlimited Environmental, Inc. Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: Floor Tile/Mastic

Quantity of ACM: 2000 Sq. Ft.

Abatement Type & Method(s): Removal/ Wet Method

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Fit Tested: Yes  No

Worker Annual Medical Current: Yes  No

Safety Meeting: Yes  No

Notification to: SCAQMD Yes  No  
Date: \_\_\_\_\_

CAL/OSHA Yes  No  
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes  No
- B. Employees in Building Notified of Abatement: Yes  No
- C. Competent Person Outside of Work Area: Yes  No
- D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes \_\_\_ No \_\_\_
- B. Contractor Calibrated Pumps: Yes \_\_\_ No \_\_\_
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes \_\_\_ No  Worker's Name/SS #: \_\_\_\_\_
- 2. Pre-Tests: 03034x300-1 and 03034x300-2
- 3. Perimeter:

84-185

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: 0303CL300-1-2-3
- 6. VAIH Laboratory: \_\_\_\_\_

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: North Half Face
- B. Coveralls: X Hoods & Boots: Yes X No \_\_\_\_\_
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No \_\_\_\_\_

IV. Engineering Controls:

- A. Glovebags: Yes \_\_\_\_\_ No X Properly Taped to Pipes: Yes \_\_\_\_\_ No X
- B. Containment: Yes X No \_\_\_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No \_\_\_\_\_ No. Chambers: 2 Shower: Yes \_\_\_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes X No \_\_\_\_\_ Licensed: Vac. Only Yes X No \_\_\_\_\_
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No \_\_\_\_\_
- G. Amended Water Used: Yes X No \_\_\_\_\_ How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No \_\_\_\_\_
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No \_\_\_\_\_
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No \_\_\_\_\_
- K. Encapsulation: Yes \_\_\_\_\_ No X Name & Type: \_\_\_\_\_
- L. Work Area Ready for Clearance Air Testing Yes X No \_\_\_\_\_

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 300, Floor 2, Rooms 209 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 03/02/03 are as follows:

Bldg. <u>300</u>	Floor: <u>2nd</u>	Room: <u>209</u>	<u>ND</u>	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	_____	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	_____	fibers/cc

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer / Zainul Abidin

84-186

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>691</b>
---	------------------------------

4. EMPLOYEE INFORMATION	
b. NAME OF EMPLOYEE N/A	SSN N/A

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A
---------------------------------------	------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING

**Date:** 03-02-03  
**Project:** Remove Floor Tile/Mastic  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long of this job) N/A
--	---

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03
a. SAMPLE TYPE/MEDIA	CL/PCM	CL/TEM	CL/PCM
b. SAMPLE SUBMISSION NO.	0303CL3001	0303CL3002	0303CL3003
c. TIME ON	15:30	15:31	15:32
d. TIME OFF	18:30	18:31	18:32
e. TOTAL TIME (In minutes)	120	120	120
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M/min	10	10	10
g. VOLUME (In liters)	1200	1200	1200

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Counting T = Time Weighted Average						a. PERCENTAGE
						b. Date : 03/02/03
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0008	S/mm <sup>2</sup>	ND	F/CC	0.0006

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy  
 Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
 PCM/TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER NVLAP # 101218
---	---

9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE 3/02/03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALIBRATION DATE : 3/02/03	10d. FLOW RATE CALCULATIONS 10 l/min
--	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	Date 3/2/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	----------------	--

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>691</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date:** 02-28-03  
**Project:** Floor Tile & Mastic : Background Sampling  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room: 209 Floor: 2<sup>nd</sup>

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	
a. SAMPLE TYPE/MEDIA	BL/TEM				
b. SAMPLE SUBMISSION NO.	0303AX300-209-01				
c. TIME ON	14:30				
d. TIME OFF	16:30				
e. TOTAL TIME (In minutes)	120				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10				
g. VOLUME (in liters)	1200				

8. RESULTS (For Laboratory Use)				
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average				a. PERCENTAGE
				b. Date : 03/01/03

SUBSTANCE ↓	UNIT	RESULT					
Asbestos	S/mm <sup>2</sup>	ND					

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Transmission Electron Microscopy

8. IH COMMENTS TO LABORATORY  
TEM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 2/28/03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALIBRATION DATE 2/28/03	10d. FLOW RATE CALCULATIONS 10 l/min
---	--	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 2/28/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	-----------------	--

84-188

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 85001 Date Received: 3-3-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 3-3-03 Mag: 400x Field Area: 0.00785RDM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 3/12/03 Project #: BLDC 300 & BLDG 207 RM 209 & 220 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 85001VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (µL)	Fibers/CC	LOD	LOQ	ANLSENT
030CL300-1	100	2	3	981	1200.0	0.0008	0.0022	0.0257	0.0004
030CL300-3	100	1.5	2	736	1200.0	0.0006	0.0022	0.0257	0.0004
030AX300-1	100	8.5	11	4169	1350.0	0.0031	0.0020	0.0228	0.0004
030AX300-2	100	32.5	43	15939	1400.0	0.0114	0.0019	0.0220	0.0004
030AX300-3	100	9.5	12	4659	1900.0	0.0025	0.0014	0.0162	0.0003
030AX300-4	100	2	3	981	2000.0	0.0005	0.0013	0.0154	0.0002
030AX300-5	100	13.5	17	6621	2050.0	0.0032	0.0013	0.0150	0.0002
030AX300-6	100	1	1	490	2060.0	0.0002	0.0013	0.0150	0.0002
030AX300-7	100	7	9	3433	1350.0	0.0025	0.0020	0.0228	0.0004
030AX300-8	100	2	3	981	1520.0	0.0006	0.0018	0.0203	0.0003

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.mm) ANLSENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/Sq.mm) N.A. = NOT AVAILABLE N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S.AHMAD  
 B.M. Kolk, Laboratory Director *B.M. Kolk*

Interlaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

84-189

**SUBMITTAL FORM/Laboratory Services**

**85001.1**

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER:

RELINQUISHED BY ZAMEL ABONIA

CLIENT VA HOSPITAL

TIME / DATE 3/2/03

ADDRESS 11301 WILSHIRE BLVD  
L.A. CALIF

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_

TELEPHONE \_\_\_\_\_  
CONTACT BEN SPIVAK

CLIENT P.O. NO. \_\_\_\_\_

CLIENT JOB/PROJECT ID NO(S) BLOG 300  
Rm 209 & BLOG 207 R. 220

RESULTS REQUESTED VIA VERBAL  FAX

PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT FAX NO. \_\_\_\_\_

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/1/03 & 3/2/03

SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
NO. OF SAMPLES SENT 17 SAMPLER'S NAME Ken H Kevin  
SIGNATURE PRINTED

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER.  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME
85001-1	0303CL300 1	CLEAR	Rm 209 - NORTH	PCN	1200
85001-1-2	2	"	" - MID	TEM	1200
85001-3	3	"	" - SOUTH	PCN	1200
01	03034X300 1	BACKGROUND	#209	PCN	1352
02	2	"	"	PCN	1400
03	3	REM - DECON		PCN	1902
04	4	REM - NEG AIR		PCN	2002
05	5	REM - DECON		PCN	2052
06	6	REM - NEG AIR		PCN	2062
07	7	REM - DECON		PCN	1350
08	8	REM - Neg Air		PCN	1522
85001-1-71	0303AX2071	REM	Rm 220	TEM	1202

Note: ① TEM Results needed by 10AM on 3/4/03

(SF 5/00)

FOR EM...

Laboratory **85001.1** Received By [Signature] Time 7:30  
Date of Pack 3-3-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal \_\_\_\_\_  
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 10 + 7 Chain-of-Custody Signature \_\_\_\_\_  
Date of Acceptance into Sample Bank 3-3-03 Misc. Info 84-190  
Disposition of Samples [Signature]

DATE: March 5, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey/Zainul Abedin  
REFERENCE: P.O. NO. 691-C10949  
Bldg 300 Room 209 and Bldg 207 Room 220  
COLLECTED: 03/01/03 and 03/02/03 by K.H.  
REPORT NO: 85001.1  
DATE RECEIVED: 03/03/03 at 0730  
DATE ANALYZED: 03/03/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as:

0303CL300-2 Clear Room 209 - MID  
0303AX2071 REM Rm 220

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified, and intact.

84-091





SUBMITTAL FORM/Laboratory Services

85000

TURNAROUND TIME: STD. 48 HR. 24 HR.  <8 HR. WKND OTHER:

RELINQUISHED BY: [Signature] TIME / DATE: 2/28/03

CLIENT: VA-4LAHS (1306) ADDRESS: Bldg 218 Room 308 11301 Wilshire Blvd, LA, CA 90046

DATE OF SHIPMENT: 2/28/03 CARRIER: CLIENT P.O. NO.: CLIENT JOB/PROJECT ID NO(S): Bldg 308 Room 209

TELEPHONE: CONTACT: Ben Spivey

PACKAGE SHIPPED FROM:

RESULTS REQUESTED VIA: VERBAL  FAX  CLIENT FAX NO. (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION: 2/28/03

SAMPLE PRESERVATIVES: HOLDING TIMES:

NO. OF SAMPLES SENT: 1 SAMPLER'S NAME: Jamie Spivey SIGNATURE PRINTED

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY) EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
45000	0302AX300-209-01	Room 209 Air	TEM	1200
Note: Copy Results to Zainul @ Fax 818-547-1331				

85000

Laboratory No. Received By: [Signature] Time: 10:30 AM

Date of Package Delivery: 3-1-03 Shipping Bill Retained: YES NONE

Condition of Package on Receipt: 300 Condition of Custody Seal: [Signature] (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples: 1 Chain of Custody Signature: [Signature]

Date of Acceptance into Sample Bank: [Signature] Also with: [Signature]

Disposition of Samples:

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 85000 Verbal Results \_\_\_\_\_  
 Client VAC L.A.H.S. Date Received 3-1-03 FAX Results 3-3-03  
 Reference No. Bldg 300, Room 209 Date Analyzed 3-3-03

Direct Preparation	<u>X</u>	ASPECT RATIO		STRUCTURE SIZE	
Indirect Preparation	<u>---</u>	3:1	<u>X</u>	All Sizes (EPA)	<u>---</u>
EPA Level I	<u>---</u>	5:1	<u>---</u>	>0.5µm Length	<u>X</u>
EPA Level II	<u>---</u>			>5µm Length	<u>---</u>
AHERA Rules	<u>X</u>			PCM Range*	<u>---</u>
NIOSH 7402 (PCM Range)	<u>---</u>			>0.25µm width, >5.0 µm Length	<u>---</u>

ANALYTICAL SENSITIVITY (Structures/cc)

Sample Identification 0302 AX 300-209-01 Volume (L) 1200 Structures/mm<sup>2</sup> ND Structures/cc ND Limit 0-005

88-194

\* "Asbestos-Containing Materials in Schools," U.S. EPA Final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.  
 "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et. al.)  
 NIOSH 7402, Revision #1 5/15/89 (NIOSH 7400 PCM equivalent range)

S. A. Tesmonaly  
 3/3/03

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION VA-GLAHS	2. STATION NO. 691	3. REGION NO. VISN #22
--	-----------------------	---------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED (If Additional Space is Needed Use Reverse).

**Date:** 03/02/03  
**Project:** Removal of Pipe Insulation (TSI)  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 207m: 220 Floor : Second

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE 01				
b. SAMPLE TYPE/MEDIA	REM/TEM				
b. SAMPLE SUBMISSION NO.	0303AX207-1				
c. TIME ON	13:05				
d. TIME OFF	15:05				
e. TOTAL TIME (in minutes)	120				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	.10				
g. VOLUME (in liters)	1200				

6. RESULTS (For Laboratory Use)					
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average					a. PERCENTAGE
					b. Date: 03-02-03
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	
Asbestos	S/mm <sup>2</sup>	61			

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Transmission Electron Microscopy (TEM)

8. IH COMMENTS TO LABORATORY  
TEM

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Drive, Pasadena, CA 91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

9c. (PRE) CALI-BRATION DATE 3/03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI-BRATION DATE 3/02/03	10d. FLOW RATE CALCULATIONS 10 l/min
-------------------------------------	---	--	---

NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 3/02/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	-----------------	--

84-195

Date: 3/02/03  
From: Industrial Hygiene (130B)  
Subject: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 3/02/03

Location: VA Hospital Bldg. 207 Room. 220

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: TSI

Quantity of ACM: 15 Linear Feet

Abatement Type & Method(s): Glovebag Removal

Contractor Licensed & Registered: Yes X No

Worker Training Current: Yes X No

Fit Tested: Yes X No

Worker Annual Medical Current: Yes X No

Safety Meeting: Yes X No

Notification to: SCAQMD Yes X No  
Date: \_\_\_\_\_

CAL/OSHA Yes X No  
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes \_\_\_ No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:
  - 1. Personal (VA): Yes \_\_\_ No X Worker's Name/SS #: \_\_\_\_\_
  - 2. Pre-Tests: \_\_\_\_\_
  - 3. Perimeter: \_\_\_\_\_

84-196

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: 0303AX207-1
- 6. VAIH Laboratory: \_\_\_\_\_

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: North Half Face
- B. Coveralls: X Hoods & Boots: Yes X No \_\_\_\_\_
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No \_\_\_\_\_

IV. Engineering Controls:

- A. Glovebags: Yes X No \_\_\_\_\_ Properly Taped to Pipes: Yes X No \_\_\_\_\_
- B. Containment: Mini Yes X No \_\_\_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes \_\_\_\_\_ No X No. Chambers: 2 Shower: Yes \_\_\_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes \_\_\_\_\_ No X Licensed: Vac. Only Yes \_\_\_\_\_ No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_\_\_ No X
- G. Amended Water Used: Yes X No \_\_\_\_\_ How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes \_\_\_\_\_ No X
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No \_\_\_\_\_
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No \_\_\_\_\_
- K. Encapsulation: Yes X No \_\_\_\_\_ Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No \_\_\_\_\_

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 207 Floor 2nd Rooms 220 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 03/02/03 are as follows:  

Bldg. <u>207</u>	Floor: <u>2nd</u>	Room: <u>220</u>	<u>61</u> Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	_____ Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	_____ fibers/cc
	Floor: _____	Room: _____	_____ fibers/cc

ASHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: **James Spencer**

*[Handwritten Signature]*

84-197

DATE: March 5, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218; Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey/Zainul Abedin  
REFERENCE: P.O. NO. 691-C10949  
Bldg 300 Room 209 and Bldg 207 Room 220  
COLLECTED: 03/01/03 and 03/02/03 by K.H.  
REPORT NO: 85001.1  
DATE RECEIVED: 03/03/03 at 0730  
DATE ANALYZED: 03/03/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as:

0303CL300-2 Clear Room 209 - MID  
0303AX2071 REM Rm 220

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

This report is based on the data provided to the laboratory. No representation is made regarding the sampling area and the data reported by the analytical center is the immediate vicinity of the samples analyzed as indicated from the data presented with these samples.

Our laboratory is a NIST accredited through NVLAP and we are bound by the client to claim product status from NVLAP as an agency of the U.S. Government.

This report shall not be considered except in conjunction with the test method of EMS Laboratories.

A copy of the test method is enclosed with this report.

This report is intended for the use of the client and is not to be distributed outside the client's organization.

03/03/03

PH-198

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 3/3/03  
 ▶ Client 3/3/03  
 ▶ Location 3/3/03

▶ Verbal Results  
 ▶ Fax Results

**DIRECT PREP**  **ASPECT RATIO**  
**INDIRECT PREP**  3:1   
 LEVEL I  5:1   
 LEVEL II

**STRUCTURE SIZE**  
 All Sizes (EPA)   $\geq 5 \mu\text{m}$  Length  
 $> 0.5 \mu\text{m}$  Length  **PCM Range\***  
 $\geq 1 \mu\text{m}$  Length   $\geq 2.25 \mu\text{m}$  Width,  
 $\geq 5.0 \mu\text{m}$  Length

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit

1200	61	0.005	0.005	0.005	0.05
N.D.	N.D.	0	0.005	0	0.02

84-199

TEM-35(12-03)

\* U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.  
 \*\* Methodology for the Measurement of Airborne Asbestos by Electron Microscopy, USEPA 1984 (Yamate, et al.)  
 \*\*\* PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments

EMMA LABORATORIES



SUBMITTAL FORM / Laboratory Services

85001.1

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER:

RELINQUISHED BY: JAMES ABONIA

CLIENT: VA HOSPITAL  
ADDRESS: 1130 WILSHIRE BLVD  
L.A. CALIF

TIME / DATE: 3/2/03

DATE OF SHIPMENT: \_\_\_\_\_ CARRIER: \_\_\_\_\_

CLIENT P.O. NO.:

CLIENT JOB/PROJECT ID NO(S): BLDG. 300  
Rm 209 & BLDG 207 R. 220

TELEPHONE: \_\_\_\_\_

CONTACT: BEN SPIVEXY

PACKAGE SHIPPED FROM: \_\_\_\_\_

RESULTS REQUESTED VIA: VERBAL  FAX

CLIENT FAX NO.:

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION: 3/1/03 & 3/2/03

SAMPLE PRESERVATIVES: \_\_\_\_\_ HOLDING TIMES: \_\_\_\_\_

NO. OF SAMPLES SENT: 12 SAMPLER'S NAME: KIM H. KENTY

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER...  OTHER

(FOR EMS ONLY)	EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
	85001-1	0303CL300 1	CLEAR Rm 209 - NORTH	TEMA PCM 1200
	85001.1-2	2	" " - MID	TEMA PCM 1200
	85001-3	3	" " - SOUTH	TEMA PCM 1200
	01	03034X300 1	BACKGROUND #209	PCM 1350
	02	2	" " "	PCM 1400
	03	3	REM - DECON	PCM 1900
	04	4	REM - NEG AIR	PCM 2000
	05	5	REM - DECON	PCM 2050
	06	6	REM - NEG AIR	PCM 2060
	07	7	REM - DECON	PCM 1350
	08	8	REM - Neg Air	PCM 1520
	85001.1-71	0303AX2071	REM Rm 220	TEMA 1200
	7	NOTE: TEM Results needed by 10AM on 2/2/03		

Laboratory: 85001.1 Received By: [Signature] Time: 3-2-03

Date of Pkgs: 3-2-03 Shipping Bill Returned: YES  NONE

Condition of Package on Receipt: \_\_\_\_\_ Condition of Custody Seal: \_\_\_\_\_

(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples: 12 Chain-of-Custody Signature: [Signature]

Date of Acceptance into Sample Bank: 3-2-03 Misc. Info: [Signature]

Disposition of Samples: [Signature]

USE 5/000

FOR EMS

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>691</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>
---

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)
---------------------------------------	-------------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date: 03/02/03**  
**Project: Removal of Pipe Insulation (TSI)**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 207m: 220 Floor : Second**

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 01				
a. SAMPLE TYPE/MEDIA	REM/TEM				
b. SAMPLE SUBMISSION NO.	0303AX207-1				
c. TIME ON	13:05				
d. TIME OFF	15:05				
e. TOTAL TIME (In minutes)	120				
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> CF/min	10				
g. VOLUME (in liters)	1200				

6. RESULTS (For Laboratory Use)

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average					a. PERCENTAGE
					b. Date : 03-02-03
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	
Asbestos	S/mm <sup>2</sup>	61			

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Transmission Electron Microscopy (TEM)

8. IH COMMENTS TO LABORATORY  
 TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
---	--

9b. ADDRESS <b>117 West Bellevue Drive, Pasadena, CA 91105</b>	PAT NUMBER
---	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE <b>2/2/03</b>	10b. FLOW RATE CALCULATIONS <b>10 l/min</b>	10c. (POST) CALI- BRATION DATE <b>3/02/03</b>	10d. FLOW RATE CALCULATIONS <b>10 l/min</b>
--	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>3/02/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	------------------------	--

84-201

Date: 3/02/03  
From: Industrial Hygiene (130B)  
Subject: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 3/02/03

Location: VA Hospital Bldg. 207 Room. 220

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Jose Villa Gomez

Type of ACM: TSI

Quantity of ACM: 15 Linear Feet

Abatement Type & Method(s): Glovebag Removal

Contractor Licensed & Registered: Yes X No

Worker Training Current: Yes X No

Fit Tested: Yes X No

Worker Annual Medical Current: Yes X No

Safety Meeting: Yes X No

Notification to: SCAQMD Yes X No  
Date: \_\_\_\_\_

CAL/OSHA Yes X No  
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Asbestos Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

1. Personal (VA): Yes No X Worker's Name/SS #: \_\_\_\_\_

2. Pre-Tests: \_\_\_\_\_

3. Perimeter: \_\_\_\_\_

*84-202*

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: 0303AX207 -1
- 6. VAIH Laboratory: \_\_\_\_\_

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: North Half Face
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glovebags: Yes X No     Properly Taped to Pipes: Yes X No
- B. Containment: Mini Yes X No     Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes     No X No. Chambers: 2 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes     No X Licensed: Vac. Only Yes     No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes     No X
- G. Amended Water Used: Yes X No     How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes     No X
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- K. Encapsulation: Yes X No     Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 207 Floor 2nd Rooms 220 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 03/02/03 are as follows:
 

Bldg. <u>207</u>	Floor: <u>2nd</u>	Room: <u>220</u>	<u>61</u>	Structures/mm <sup>2</sup>
	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u>	Structures/mm <sup>2</sup>
	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u>	fibers/cc
	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u>	fibers/cc

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: **James Spencer**



8-4-2003

DATE: March 5, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey/Zainul Abedin  
REFERENCE: P.O. NO. 691-C10949  
Bldg 300 Room 209 and Bldg 207 Room 220  
COLLECTED: 03/01/03 and 03/02/03 by K.H.  
REPORT NO: 85001.1  
DATE RECEIVED: 03/03/03 at 0730  
DATE ANALYZED: 03/03/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (1012-18)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as:

0303CL300-2	Clear Room 209 - MID
0303AX2071	REM Rm 220

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

NOTE: The results of the analysis are based upon the samples submitted to the Laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST Laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

Any deviation or exclusion from the test method is noted in this cover letter.

Unless otherwise noted in this cover letter, the samples were received properly packaged, clearly identified, and stored.

84-204

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 370011  
 ▶ Client VA-G-L-H-S  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 3/3/03 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed \_\_\_\_\_ ▶ Fax Results \_\_\_\_\_

<b>DIRECT PREP</b> <input checked="" type="checkbox"/>	<b>ASPECT RATIO</b>	<b>STRUCTURE SIZE</b>
<b>INDIRECT PREP</b> <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> $\geq 5 \mu\text{m}$ Length
<b>LEVEL I</b> <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	$\geq 0.5 \mu\text{m}$ Length <input checked="" type="checkbox"/> PCM Range*
<b>LEVEL II</b> <input type="checkbox"/>		$\geq 1 \mu\text{m}$ Length <input type="checkbox"/> $\geq 0.25 \mu\text{m}$ Width, $\geq 5.0 \mu\text{m}$ Length

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit
303 AX 207-1	1200	-	61	0.02	0.005	0.05
303 CL 300-2	1200	-	N.D.	N.D.	0	0.02

502-205

TEM - 3A (12-00)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision # 1: 5/15/89.

Comments:

3/10/03 11:00 AM

**SUBMITTAL FORM/Laboratory Services**

**85001.1**

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER:

RELINQUISHED BY ZARIN ABEDI

CLIENT VIA HOSPITAL

TIME / DATE 3/2/03

ADDRESS 11301 WILSHIRE BLVD  
- L.A. CALIF

DATE OF SHIPMENT  CARRIER

TELEPHONE

CLIENT P.O. NO.

CONTACT BEN SPIVAK

CLIENT JOB/PROJECT ID NO(S) BLDG. 300  
Rm 209 & BLDG 207 R. 220

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO.

(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/1/03 & 3/2/03

SAMPLE PRESERVATIVES  HOLDING TIMES

NO. OF SAMPLES SENT 12 SAMPLER'S NAME Kerry H. / Kerry

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

VOLUME  
TIME WEIGHT  
IF APPLICABLE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
85001-1	0303CL300 1	CLEAR Rm 209 - NORTH	PCM 1200
85001-2	2	" " - MID	TEM 1200
85001-3	3	" " - SOUTH	PCM 1200
01	0303AX300 1	BACKGROUND #209	PCM 1350
02	2	" " "	PCM 1400
03	3	REM - DECON	PCM 1900
04	4	REM - NEG AIR	PCM 2000
05	5	REM - DECON	PCM 2050
06	6	REM - NEG AIR	PCM 2060
07	7	REM - DECON	PCM 1350
08	8	REM - Neg Air	PCM 1520
85001-71	0303AX2071	REM Rm 220	TEM 1200

NOTE: ① TEM Results needed by 10AM on 2/14/03

85001.1

② copy all results to Zarin @ 98-547-13

Laboratory 85001.1 Received By [Signature] Time 7:30  
Date of Pack 3-3-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt  Condition of Custody Seal   
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 10 + 2 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 3-3-03 Misc. Info. 84-206

Disposition of Samples [Signature]

(SF 500)

FOR EMS ONLY

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VGLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
---	-----------------------	---------------------------

### 4. EMPLOYEE INFORMATION

NAME OF EMPLOYEE	SSN N/A	JOB TITLE
6. ADDRESS (Street, City, State & Zip Code) N/A		7. APPROVAL No. (for Respirator)
8. PERSONAL PROTECTIVE EQUIPMENT USED	9. MANUFACTURER N/A	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** March 13, 2003  
**Project:** Pipe & Fitting Insulations (TSI) Removal - Set-up  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 257 Room. SW Crawl Space Floor : Basement

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	l. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

### 5. SAMPLING INFORMATION

LOCATION	Stairway	Hallway
a. SAMPLE TYPE/MEDIA	BL/PCM	BL/PCM
b. SAMPLE SUBMISSION NO.	0303AX257-01	0303AX257-02
c. TIME ON	08:30	08:31
d. TIME OFF	11:00	11:04
e. TOTAL TIME (In minutes)	150	153
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> C/min	10	10
g. VOLUME (in liters)	1500	1530

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	a. PERCENTAGE					
					b. TYPE					
					UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0069	F/CC	0.0042						

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
 PCM

9a. ANALYTICAL LABORATORY NAME  
 EMS Laboratories

AIHA ACCREDITATION NUMBER  
 NVLAP # 101218

9b. ADDRESS  
 117 West Bellevue Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 3/13/03	10b. FLOW RATE CALCULATIONS 10 liters/minute	10c. (POST) CALI-BRATION DATE 3/13/03	10d. FLOW RATE CALCULATIONS 10 liters/minute
NAME & JOB TITLE (Person Performing Sampling) James Spencer		DATE 3/13/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

84-207



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>V GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
--	-----------------------	---------------------------

4. EMPLOYEE INFORMATION

a. NAME OF EMPLOYEE N/A	b. SSN N/A	c. JOB TITLE
d. ADDRESS (Street, City, State & Zip Code) N/A		
e. PERSONAL PROTECTIVE EQUIPMENT USED	f. MANUFACTURER N/A	g. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** March 14, 2003  
**Project:** Pipe & Fitting Insulations (TSI) Removal - Area Sampling  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 257 Room SW Crawl Space Floor : Basement

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION

LOCATION	Negative Air	Decon Area		
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM		
b. SAMPLE SUBMISSION NO.	0303AX257-03	0303AX257-04		
c. TIME ON	08:30	08:35		
d. TIME OFF	13:00	13:05		
e. TOTAL TIME (In minutes)	270	270		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/>	10	10		
g. VOLUME (in liters)	2700	2700		

6. RESULTS (For Laboratory Use)

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	b. PERCENTAGE				
						b. TYPE				
Asbestos	F/CC	ND	F/CC	0.0029						

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
 PCM

9a. ANALYTICAL LABORATORY NAME  
 EMS Laboratories

AIHA ACCREDITATION NUMBER  
 NVLAP # 101218

9b. ADDRESS  
 117 West Bellevue Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 03	10b. FLOW RATE CALCULATIONS 10 liters/minute	10c. (POST) CALI-BRATION DATE 3/14/03	10d. FLOW RATE CALCULATIONS 10 liters/minute
11. NAME & JOB TITLE (Person Performing Sampling) James Spencer		DATE 3/14/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

84-208



4. Inside Work Area: 0303AX257-03 to 06

5. Clearance:

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

A. Respirator Type & Manufacturer: \_\_\_\_\_ 1/2 Face North

B. Coveralls: X Hoods & Boots: \_\_\_\_\_ Yes X No \_\_\_\_\_

C. Respirator Suitable for Anticipated Fiber Levels: \_\_\_\_\_ Yes X No \_\_\_\_\_

IV. Engineering Controls:

A. Glove bags: \_\_\_\_\_ Yes X No \_\_\_\_\_ Properly Taped to Pipes: \_\_\_\_\_ Yes X No \_\_\_\_\_

B. Containment: \_\_\_\_\_ Yes X No \_\_\_\_\_ Thickness of Polyethylene 6 mil

C. Proper Decon: \_\_\_\_\_ Yes X No \_\_\_\_\_ No. Chambers: 3 Shower: \_\_\_\_\_ Yes X No \_\_\_\_\_

D. If Containment in Use, are Critical Openings Properly Sealed: \_\_\_\_\_ Yes X No \_\_\_\_\_

E. Neg. Air/HEPA Filtration Used: Yes X No \_\_\_\_\_ Licensed: \_\_\_\_\_ Yes X No \_\_\_\_\_

F. Adeq. Neg. Pressure Diff. in Containment \_\_\_\_\_ Yes X No \_\_\_\_\_

G. Amended Water Used: \_\_\_\_\_ Yes X No \_\_\_\_\_ How Applied: Spray

H. External AFD Filters Replaced Daily: \_\_\_\_\_ Yes \_\_\_\_\_ No X

I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: \_\_\_\_\_ Yes X No \_\_\_\_\_

J. Work Area Insp./Found to be Free of ACM Dust or Debris: \_\_\_\_\_ Yes X No \_\_\_\_\_

K. Encapsulation: Yes X No \_\_\_\_\_ Name & Type: Foster 32-60

L. Work Area Ready for Clearance Air Testing \_\_\_\_\_ Yes X No \_\_\_\_\_

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 257, Floor: Basement, Rooms: SW Crawl Space indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 03/18/03 are as follows:

Bldg. <u>257</u>	Floor: <u>Basement</u>	Room: <u>SW Crawl</u>	<u>ND</u>	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		fibers/cc

Comments:

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: James Spencer / Zairul Muslim

84-210

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
---	-----------------------	---------------------------

4. EMPLOYEE INFORMATION		
e. NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE

c. ADDRESS (Street, City, State & Zip Code) N/A
--

d. PERSONAL PROTECTIVE EQUIPMENT USED	a. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
---------------------------------------	------------------------	----------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

Date : March 17, 2003

Project: Pipe & Fitting Insulations (TSI) Removal : Area Sampling

Contractor: Unlimited Environmental, Inc.

Location: Bldg. 257 Room. SW Crawl Space Floor : Basement

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION			
LOCATION	Decon Area	Negative Air	
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM	
b. SAMPLE SUBMISSION NO.	0303AX257-05	0303AX257-06	
c. TIME ON	08:00	08:10	
d. TIME OFF	13:42	13:40	
e. TOTAL TIME (In minutes)	342	330	
f. FLOW RATE <input checked="" type="checkbox"/> L/min	10	10	
g. VOLUME (In liters)	3420	3300	

6. RESULTS (For Laboratory Use)							a. PERCENTAGE					
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average							b. TYPE					
SUBSTANCE ↓	Unit	Result	Unit	Result	Unit	Result	Unit	Result	Unit	Result	Unit	Result
Asbestos	F/CC	0.0064	F/CC	0.0247								

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <u>EMS Laboratories</u>	AIHA ACCREDITATION NUMBER <u>NVLAP # 101218</u>
---	--

9b. ADDRESS <u>117 West Bellevue Dr., Pasadena, CA 91105-2503</u>	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <u>3/17/03</u>	10b. FLOW RATE CALCULATIONS <u>10 liters/minute</u>	10c. (POST) CALI-BRATION DATE <u>3/17/3</u>	10d. FLOW RATE CALCULATIONS <u>10 liters/minute</u>
--	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <u>James Spencer</u>	DATE <u>3/17/3</u>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO.
---	-----------------------	--

84-211

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

<b>4. EMPLOYEE INFORMATION</b>		
d. NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** March 18, 2003  
**Project:** Pipe & Fitting Insulations (TSI) Removal - Clearance Sampling  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 257 Room. SW Crawl Space Floor : Basement

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long of this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

5. SAMPLING INFORMATION					
LOCATION	N. Containment	S. Containment			
a. SAMPLE TYPE/MEDIA	CL/TEM	CL/TEM			
b. SAMPLE SUBMISSION NO.	0303AX257CL-7	0303AX257-CL8			
c. TIME ON	08:35	08:40			
d. TIME OFF	10:35	10:40			
e. TOTAL TIME (in minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min	10	10			
g. VOLUME (in liters)	1200	1200			

6. RESULTS (For Laboratory Use)										
<b>P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average</b>						a. PERCENTAGE				
						b. TYPE				
SUBSTANCE ↓	Unit	Result	Unit	Result	Unit	Result	Unit	Result	Unit	Result
Asbestos	S/mm2	ND	S/mm2	ND						

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**Transmission Electron Microscopy**

8. IH COMMENTS TO LABORATORY  
**TEM**

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
---	--

9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>3/18/03</b>	10b. FLOW RATE CALCULATIONS <b>10 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>3/18/3</b>	10d. FLOW RATE CALCULATIONS <b>10 liters/minute</b>
--	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>3/18/3</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-----------------------	---

84-212

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: <b>85350</b>	Date Received: <b>3-17-03</b>	Filter Type: <b>MCE</b>	Filter Area: <b>385</b>
Client: <b>VAGLAHS</b>	Date Analyzed: <b>3-18-03</b>	Mag: <b>400x</b>	Field Area: <b>0.00765MM</b>
Address: <b>11301 WILSHIRE BLVD</b>	Date Sampled: <b>3/13,14/03</b>	Project #: <b>RLDC 757</b>	Filter Size: <b>25MM</b>
<b>LOS ANGELES, CA 90073</b>	Attendant: <b>R SPIVEY</b>	File Name: <b>RS360VAGLAHS-AIR</b>	

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANLSENT.
0303AX257-1	100	21	27	10299	1500.0	0.0069	0.0018	0.0205	0.0003
0303AX257-2	100	13	17	6376	1530.0	0.0042	0.0018	0.0201	0.0003
0303AX257-3	100	0	0	0	2700.0	ND			
0303AX257-4	100	16	20	7847	2700.0	0.0029	0.0010	0.0114	0.0002

LOD - LIMIT OF DETECTION (7 FIBERS/ Sq.mm)  
 LOQ - LIMIT OF QUANTITATION (80 FIBERS/ Sq.mm)

AJHA Registered Asbestos Analyst  
 I.D. 7795 **CARL BERGMAN**  
 I.D. 2033 **JEFF WAN**  
 I.D. 3276 **S. AHMAD**

*Carl Bergman*  
 B.M. Koß, Laboratory Director

Interlaboratory Sr is taken as 0.45 Interlaboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 Confidence Interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

84-213

**SUBMITTAL FORM/Laboratory Services**

TURNAROUND TIME: STD  48 HR.  24 HR.   
 8 HR.  WKND  OTHER:

RELINQUISHED BY Zanuel  
 TIME / DATE 3/14/03

CLIENT VA-GIAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

DATE OF SHIPMENT  CARRIER   
 CLIENT P.O. NO.   
 CLIENT JOB/PROJECT ID NO(S). BLDG 257

TELEPHONE BEN SPIVEY  
 CONTACT

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO.   
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/13-14 3/14 3:4  
 SAMPLE PRESERVATIVES  HOLDING TIMES   
 NO. OF SAMPLES SENT 4 + 1 SAMPLER'S NAME Kang / REKAY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT
85350-1	0303AX257-1	BKGD	- STAIRWAY	PCM		1502	
2	2	"	- Hallway	PCM		1532	
3	3	REM	- NEG AIR	PCM		2702	
4	4	REM	- DECON	PCM		2702	
		Also Notify Zanuel					
		FAX 818 547-1331					
85350.1-2	0303Mold213-2	AREA IN WORK AREA		AIRCELL MOLD		150	

FOR EM. LY (SF 5/00)

Laboratory No. 85350 Received By [Signature] Time 9:30  
 Date of Package Delivery 3-17-03 Shipping Bill Returned: YES  NONE   
 Condition of Package on Receipt OK Condition of Custody Seal OK  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 4 + 1 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 3-17-03 Misc. Info. 84-214  
 Disposition of Samples EMS 117B

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 85412 Date Received: 3-18-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 3-19-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 3-17-03 Project #: 257 CRAWL SPACE BASEMENT Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 85412VAGLAHSR1DR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Ltr)	Fibers/CC	LOD	LOQ	ANL-SENT.
0303AX257-5	100	44.5	57	21825	3420.0	0.0064	0.0008	0.0090	0.0001
0303AX257-6	62	103	212	81477	3300.0	0.0247	0.0008	0.0093	0.0001

LOD - LIMIT OF DETECTION (7 FIBERS/Sq.mm)  
 LOQ - LIMIT OF QUANTITATION (80 FIBERS/Sq.mm)  
 ANL-SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 N.A. = NOT AVAILABLE N.D. = NONE DETECTED

AIHA Registered Asbestos Analyst  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S. AHMAD  
 Laboratory Sr is taken as 0.45 Initial Laboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

B.M. Kolk  
 B.M. Kolk, Laboratory Director

EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

84-215



**SUBMITTAL FORM** / Laboratory Services

**85412**

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER:

RELINQUISHED BY Zainul  
TIME / DATE 3/17/03

CLIENT VA GLASS (130b)  
ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

DATE OF SHIPMENT 3/17 CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) # 257 Crawl

TELEPHONE \_\_\_\_\_  
CONTACT BEN SPIVEY

SPACE Basement  
PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_  
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/17/03

SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
NO. OF SAMPLES SENT 2 SAMPLER'S NAME Kenny / KENNY  
SIGNATURE PRINTED

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

VOLUME  
TIME WEIGHT  
IF APPLICABLE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
<u>85412-5</u>	<u>03034X2575</u>	<u>AREA / DECON</u>	<u>Pcm 342L</u>
<u>↓ - 6</u>	<u>-6</u>	<u>AREA / NEG AIR</u>	<u>Pcm 330L</u>
<u>Also Notify Zainul 818-547-1331</u>			

(SF 5/00)

FOR EMS ONLY

Laboratory No. 85412 Received By [Signature] Time 9:30

Date of Package Delivery 3-18-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal \_\_\_\_\_  
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 2 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 3-18-03 Misc. Info. \_\_\_\_\_

Disposition of Samples EMS (1A) 84-216

DATE: March 19, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C1094, Bldg 257 Basement Crawl Space  
COLLECTED: 03/18/03 by Zainul  
REPORT NO: 85462  
DATE RECEIVED: 03/19/03 at 0930 DATE ANALYZED: 03/19/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: 0303AX257-CL4, -CL5

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools," final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced, except in full, without the written approval of EMS Laboratories.

Any deviation or variation from the test method is noted in this cover letter.

Unless otherwise noted on this cover letter, the samples were received properly packaged, clearly identified, and intact.

84-217

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 3-012  
 ▶ Client: [Redacted] ▶ Date Received: 3/19/03 ▶ Verbal Results  
 ▶ Location: [Redacted] ▶ Date Analyzed: [Redacted] ▶ Fax Results

DIRECT PREP     ASPECT RATIO  
 INDIRECT PREP    3:1     5:1   
 LEVEL I       $\geq 0.5 \mu\text{m}$  Length      $\geq 5 \mu\text{m}$  Length  
 LEVEL II       $\geq 1 \mu\text{m}$  Length      $\geq 1 \mu\text{m}$  Width,  $\geq 5.0 \mu\text{m}$  Length  
 All Sizes (EPA)      PCM Range\*

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Lower Limit    Upper Limit

10-00000001-CL 218	1200	-	N.D.	N.D.	0.005	0	0.02
10-00000001-CL 218	1200	-	N.D.	N.D.	0.005	0	0.02

84-218

TEM - 3A (12-001)

- "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.
- "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al)
- PCM equivalent range by the method described in NIOSH 7402, Revision # 1: 5/15/89.

Comments:

10-00000001-CL 218

**SUBMITTAL FORM Laboratory Services**

**85462**

TURNAROUND TIME: STD  48 HR.  24 HR.  < 8 HR. WKND  OTHER:

RELINQUISHED BY: 3/18/03 Tainul  
TIME / DATE: 3/18

CLIENT: VA-GLASS (1305)  
ADDRESS: 11301 WILSHIRE BLVD. BLDG 218  
LOS ANGELES, CA 90073 RM 308

DATE OF SHIPMENT: \_\_\_\_\_ CARRIER: \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S): \_\_\_\_\_

TELEPHONE: \_\_\_\_\_  
CONTACT: BEN SPIVEY

Adg 257 Basement Crowd Spac  
PACKAGE SHIPPED FROM: \_\_\_\_\_

RESULTS REQUESTED VIA: VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_  
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION: 3/18/03

SAMPLE PRESERVATIVES: \_\_\_\_\_ HOLDING TIMES: \_\_\_\_\_  
NO. OF SAMPLES SENT: 2 SAMPLER'S NAME: JAMES TAINUL  
SIGNATURE: \_\_\_\_\_ PRINTED: \_\_\_\_\_

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO. DESCRIPTION LOCATION ANALYSIS VOLUME TIME WEIGHT

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT
<u>85462-7</u>	<u>0303 AX 257-CL 7</u>	<u>Clearance</u>		<u>TEM</u>			<u>1200</u>
<u>↓ - 8</u>	<u>0303 AX 257-CL 8</u>	<u>"</u>		<u>"</u>			<u>1200</u>

*Note: Copy Results to Tainul  
Results Needed by 12 Noon 3/19/03*

(SF 5/00)

FOR EML

Laboratory No. 85462 Received By: [Signature] Time: 9:30  
Date of Package Deliv: 3-18-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt: see Condition of Custody Seal: \_\_\_\_\_  
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples: 2 Chain-of-Custody Signature: [Signature]  
Date of Acceptance into Sample Bank: 3-19-03 Misc. Info: 84-219  
Disposition of Samples: EMS LWB

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
---	-----------------------	---------------------------

4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE	SSN N/A	JOB TITLE

ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No (for Respirator)
---------------------------------------	------------------------	---------------------------------

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** March 13, 2003  
**Project:** Pipe & Fitting Insulations (TSI) Removal - Set-up  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 257 Room. SW Crawl Space Floor : Basement

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

5. SAMPLING INFORMATION				
LOCATION	Stairway	Hallway		
a. SAMPLE TYPE/MEDIA	BL/PCM	BL/PCM		
b. SAMPLE SUBMISSION NO.	0303AX257-01	0303AX257-02		
c. TIME ON	08:30	08:31		
d. TIME OFF	11:00	11:04		
e. TOTAL TIME (In minutes)	150	153		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	10	10		
g. VOLUME (in liters)	1500	1530		

8. RESULTS (For Laboratory Use)					
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average					a. PERCENTAGE
					b. TYPE
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT
Asbestos	F/CC	0.0069	F/CC	0.0042	

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <u>EMS Laboratories</u>	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS <u>117 West Bellevue Dr., Pasadena, CA 91105-2503</u>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 3/13/03	10b. FLOW RATE CALCULATIONS 10 liters/minute	10c. (POST) CALI-BRATION DATE 3/13/03	10d. FLOW RATE CALCULATIONS 10 liters/minute
---	---	--	---

NAME & JOB TITLE (Person Performing Sampling) <u>James Spencer</u>	DATE 3/13/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-----------------	--

84-220

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO <b>619</b>	3. REGION NO. <b>VISN #22</b>
4. EMPLOYEE INFORMATION			
NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
d. PERSONAL PROTECTIVE EQUIPMENT USED		e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)
g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).			

Date : March 14, 2003

Project: Pipe & Fitting Insulations (TSI) Removal - Area Sampling

Contractor: Unlimited Environmental, Inc.

Location: Bldg. 257 Room. SW Crawl Space Floor : Basement

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

5. SAMPLING INFORMATION				
LOCATION	Negative Air	Decon Area		
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM		
b. SAMPLE SUBMISSION NO.	0303AX257-03	0303AX257-04		
c. TIME ON	08:30	08:35		
d. TIME OFF	13:00	13:05		
e. TOTAL TIME (in minutes)	270	270		
f. FLOWRATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/>	10	10		
g. VOLUME (in liters)	2700	2700		

6. RESULTS (For Laboratory Use)										
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE				
						b. TYPE				
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	ND	F/CC	0.0029						

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME  
EMS Laboratories

AIHA ACCREDITATION NUMBER  
NVLAP # 101218

9b. ADDRESS  
117 West Bellevue Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE <b>3/14/03</b>	10b. FLOW RATE CALCULATIONS 10 liters/minute	10c. (POST) CALI- BRATION DATE <b>3/14/03</b>	10d. FLOW RATE CALCULATIONS 10 liters/minute
NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>		DATE <b>3/14/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

84-221



4. Inside Work Area: 0303AX257-03 to 06

5. Clearance:

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

A. Respirator Type & Manufacturer: \_\_\_\_\_ 1/2 Face North

B. Coveralls: X Hoods & Boots: Yes X No \_\_\_\_\_

C. Respirator Suitable for Anticipated Fiber Levels: Yes X No \_\_\_\_\_

IV. Engineering Controls:

A. Glove bags: Yes X No \_\_\_\_\_ Properly Taped to Pipes: Yes X No \_\_\_\_\_

B. Containment: Yes X No \_\_\_\_\_ Thickness of Polyethylene 6 mil

C. Proper Decon: Yes X No \_\_\_\_\_ No. Chambers: 3 Shower: Yes X No \_\_\_\_\_

D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_

E. Neg. Air/HEPA Filtration Used: Yes X No \_\_\_\_\_ Licensed: Yes X No \_\_\_\_\_

F. Adeq. Neg. Pressure Diff. in Containment Yes X No \_\_\_\_\_

G. Amended Water Used: Yes X No \_\_\_\_\_ How Applied: Spray

H. External AFD Filters Replaced Daily: Yes \_\_\_\_\_ No X

I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No \_\_\_\_\_

J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No \_\_\_\_\_

K. Encapsulation: Yes X No \_\_\_\_\_ Name & Type: Foster 32-60

L. Work Area Ready for Clearance Air Testing Yes X No \_\_\_\_\_

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 257, Floor: Basement, Rooms: SW Crawl Space indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 03/18/03 are as follows:

Bldg. <u>257</u>	Floor: <u>Basement</u>	Room: <u>SW Crawl</u>	<u>ND</u>	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		Structures/mm <sup>2</sup>
	Floor: _____	Room _____		Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		fibers/cc

Comments :

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist : James Spencer Quinn Hudson



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

**4. EMPLOYEE INFORMATION**

c. NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No (for Respirator)	

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** March 17, 2003  
**Project:** Pipe & Fitting Insulations (TSI) Removal : Area Sampling  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 257 Room. SW Crawl Space Floor : Basement

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

**5. SAMPLING INFORMATION**

LOCATION	Decon Area	Negative Air			
a. SAMPLE TYPE/MEDIA	Area/PCM	Area/PCM			
b. SAMPLE SUBMISSION NO.	0303AX257-05	0303AX257-06			
c. TIME ON	08:00	08:10			
d. TIME OFF	13:42	13:40			
e. TOTAL TIME (In minutes)	342	330			
f. FLOW RATE <input checked="" type="checkbox"/> l/min	10	10			
g. VOLUME (in liters)	3420	3300			

**6. RESULTS (For Laboratory Use)**

SUBSTANCE ↓	Unit	Result	Unit	Result	Unit	Result	a. PERCENTAGE							
							b. TYPE							
Asbestos	F/CC	0.0064	F/CC	0.0247										

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**Phase Contrast Microscopy**

8. IH COMMENTS TO LABORATORY  
**PCM**

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>3/17/03</b>	10b. FLOW RATE CALCULATIONS <b>10 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>3/17/3</b>	10d. FLOW RATE CALCULATIONS <b>10 liters/minute</b>
--	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>3/17/3</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-----------------------	---

*84-224*

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

**4. EMPLOYEE INFORMATION**

d. NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse)

**Date : March 18, 2003**  
**Project: Pipe & Fitting Insulations (TSI) Removal - Clearance Sampling**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 257 Room. SW Crawl Space Floor : Basement**

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

**5. SAMPLING INFORMATION**

LOCATION	N. Containment	S. Containment			
a. SAMPLE TYPE/MEDIA	CL/TEM	CL/TEM			
b. SAMPLE SUBMISSION NO.	0303AX257CL-7	0303AX257-CL8			
c. TIME ON	08:35	08:40			
d. TIME OFF	10:35	10:40			
e. TOTAL TIME (In minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min	10	10			
g. VOLUME (In liters)	1200	1200			

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE				
						b. TYPE				
SUBSTANCE ↓	Unit	Result	Unit	Result	Unit	Result	Unit	Result	Unit	Result
Asbestos	S/mm2	ND	S/mm2	ND						

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**Transmission Electron Microscopy**

8. IH COMMENTS TO LABORATORY  
**TEM**

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
---	--

9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER
--	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No)

10a. (PRE) CALI-BRATION DATE <b>3/18/03</b>	10b. FLOW RATE CALCULATIONS <b>10 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>3/18/3</b>	10d. FLOW RATE CALCULATIONS <b>10 liters/minute</b>
--	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>3/18/3</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-----------------------	---

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No:	85350	Date Received:	3-17-03	Filter Type:	MCE	Filter Area:	JRS
Client:	VAGLARS	Date Analyzed:	3-18-03	Mag:	400x	Field Area:	0.00785MM
Address:	11301 W. SHURE BLVD	Date Sampled:	3/13,14/03	Project #:	BLDG 257	Fiber Size:	25MM
	LOS ANGELES, CA 90073	Attention:	B. SPIVEY	File Name:	KCS50VACLABB-AIR		

Sample I.D.	Fields Counted	Fibers Counted	F/50µm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
0303AX257-1	100	21	27	10299	1500.0	0.0069	0.0018	0.0205	0.0003
0303AX257-2	100	13	17	6376	1530.0	0.0042	0.0018	0.0201	0.0003
0303AX257-3	100	0	0	0	2700.0	ND			
0303AX257-4	100	16	20	7847	2700.0	0.0029	0.0010	0.0114	0.0002

LOD - LIMIT OF DETECTION (7 FIBERS/50µm)  
LOQ - LIMIT OF QUANTIFICATION (80 FIBERS/50µm)

ANL SENT - ANALYTICAL SENSITIVITY (1 FIBER/100)  
N.A. - NOT AVAILABLE N.D. - NONE DETECTED

AIHA Registered Asbestos Analyst  
I.D. 7795      **CARL BERGMAN** *Carl Bergman*  
I.D. 2033      JEFF WAN  
I.D. 3276      S. AHMAD

B.M. Kolk, Laboratory Director

Interlaboratory Sr is taken as D.43 Interlaboratory Sr is 0.3  
NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability of 0.3

**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

84-226

**SUBMITTAL FORM/Laboratory Services**

TURNAROUND TIME: STD  48 HR.  24 HR.   
 8 HR.  WKND  OTHER:

RELINQUISHED BY Zamuel

CLIENT VA-GLAHS (130b1)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308

TIME / DATE 3/14/03  
 DATE OF SHIPMENT  CARRIER   
 CLIENT P.O. NO.   
 CLIENT JOB/PROJECT ID NO(S) BLDG 257

TELEPHONE   
 CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX   
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

CLIENT FAX NO.

DATE/TIME OF SAMPLE COLLECTION 3/13-14 3/14 3:4

SAMPLE PRESERVATIVES  HOLDING TIMES

NO. OF SAMPLES SENT 4 + 1 SAMPLER'S NAME Kang / KEKAY

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT
85350-1	0303AX257-1	BKGD	- STAIRWAY	PCM	150g		
2	2	"	- HALLWAY	PCM	153g		
3	3	REM-	NEG AIR	PCM	270g		
4	4	REM-	DECON	PCM	270g		
Also Notify <u>Zamuel</u> FAX <u>818 547-1331</u>							
85350-1-2	0303Mold 213-2	AREA IN WORKAREA		Mold	150		

FOR EMS (SF 5/00)

Laboratory No. 85350 Received By [Signature] Time 9:30

Date of Package Delivery 3-17-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt [Signature] Condition of Custody Seal [Signature]  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

No. of Samples 4 + 1 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 3-17-03 Misc. Info. 84-227

Disposition of Samples EMS 61713

# NIOSH FIBER COUNT (METHOD 7400, issue 2, A RULES) Phase Contrast Microscopy of Air Samples

(Aspect Ratio is > 3:1, and >5µm in Length and, count in 20 to 100 fields)

Report No: 85412 Date Received: 3-18-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 3-19-03 Mag: 400x Field Area: 0.00785MM.  
 Address: 1100 WILSHIRE BLVD Date Sampled: 3-17-03 Project #: 257 CRAWLSPACE BASEMENT Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 85412VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Ltr.)	Fibers/CC	LOD	LOQ	ANL SENT
0303AN257-5	62	44.5	57	21825	3420.0	0.0064	0.0008	0.0090	0.0001
0303AN257-6		103	212	81477	3300.0	0.0247	0.0008	0.0093	0.0001

LOD LIMIT OF DETECTION (FIBERS/Sq.mm)  
 LOQ LIMIT OF QUANTIFICATION (80 FIBERS/Sq.mm)

ANL SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)  
 N.A. = NOT AVAILABLE N.D. = NONE DETECTED

ALPHA Registered Asbestos Analyst  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S. AFIMAD

B.M. Kolk, Laboratory Director

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability ~ 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.

EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

84-228

**SUBMITTAL FORM** / Laboratory Services

**85412**

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER:

RELINQUISHED BY Zadorn  
 TIME / DATE 3/17/03  
 DATE OF SHIPMENT 3/17 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) #257 Crowl  
SPACE Basement  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA GLASS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308  
 TELEPHONE \_\_\_\_\_  
 CONTACT BEN SPIVEY

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_  
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/17/03  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME Kenny / KENNY  
SIGNATURE PRINTED  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)  
 EMS Sample No. 85412-5  
-6

CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME WEIGHT (IF APPLICABLE)
<u>0303A X 2575</u>	<u>AREA / DECON</u>	<u>Pcm 3421</u>
<u>-6</u>	<u>AREA / NEG AIR</u>	<u>Pcm 3300</u>
<u>Also Notify</u> <u>Zadorn 818-547-1331</u>		

FOR EMS ONLY (SF 5/00)

Laboratory No. 85412  
 Date of Package Delivery 3-18-03  
 Condition of Package on Receipt \_\_\_\_\_  
 Condition of Custody Seal \_\_\_\_\_  
 No. of Samples 2  
 Date of Acceptance into Sample Bank 3-18-03  
 Disposition of Samples EMC (1A)  
 Received By [Signature] Time 9:30  
 Shipping Bill Retained: YES  NONE   
 Chain-of-Custody Signature \_\_\_\_\_  
 Misc. Info. 818-229

DATE: March 19, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C1094, Bldg 257 Basement Crawl Space  
COLLECTED: 03/18/03 by Zainul  
REPORT NO: 85462  
DATE RECEIVED: 03/19/03 at 0930 DATE ANALYZED: 03/19/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: 0303AX257-CL4, -CL5

The air samples were analyzed according to the method described in "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," U.S. EPA, 1984, and to conform with the analytical method described in 40 CFR Part 763, "Asbestos-Containing Materials in Schools." final rule under AHERA.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

This report, from a NIST laboratory through NVLAP, must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

The only valid use of this report is for the specific purpose for which it was prepared. EMS Laboratories, Inc. is not responsible for any other use of this report.

For more information, contact the laboratory or the nearest NVLAP office. The NVLAP logo is located on the front cover of this report. The NVLAP logo is also located on the front cover of this report.

84-230

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. \_\_\_\_\_ Date Received 3/19/03 ▶ Verbal Results \_\_\_\_\_  
 ▶ Client \_\_\_\_\_ Date Analyzed 3/19/03 ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

<b>DIRECT PREP</b> <input checked="" type="checkbox"/>	<b>ASPECT RATIO</b>	<b>STRUCTURE SIZE</b>
<b>INDIRECT PREP</b> <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> $\geq 5 \mu\text{m}$ Length
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	$\geq 0.5 \mu\text{m}$ Length <input checked="" type="checkbox"/> PCM Range*
LEVEL II <input type="checkbox"/>		$\geq 1 \mu\text{m}$ Length <input type="checkbox"/> * ( $\geq .25 \mu\text{m}$ Width, $\geq 5.0 \mu\text{m}$ Length)

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit
84-231	1200	N.D.	N.D.	N.D.	0.005	0	0.02
	1200	N.D.	N.D.	N.D.	0.005	0	0.02

84-231

TEM - 25 (12-20)

(1) "Asbestos-Containing Materials in Schools," U.S. EPA final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.  
 (2) "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yamate, et al.)  
 (3) PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments

EMC LABORATORIES



**SUBMITTAL FORM** Laboratory Services

85462

TURNAROUND TIME: STD 48 HR. 24 HR. 8 HR. WKND OTHER: RELINQUISHED BY: 3/18/03 Tainui  
 TIME/DATE: 3/18

CLIENT: VA-GIANS (1305) DATE OF SHIPMENT: CARRIER:  
 ADDRESS: 11301 WILSHIRE BLVD - BLDG 218 CLIENT P.O. NO.:  
 LOS ANGELES, CA 90073 RM 308 CLIENT JOB/PROJECT ID NO(S):  
 TELEPHONE: [REDACTED] Bldg 257 Basement Craw Space  
 CONTACT: BEN SPIVEY PACKAGE SHIPPED FROM:

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. [REDACTED]  
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION: 3/18/03  
 SAMPLE PRESERVATIVES: HOLDING TIMES:  
 NO. OF SAMPLES SENT: 2 SAMPLER'S NAME: James / Tainui  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME WEIGHT
85462 - 7	0303 AX 257-CL7	Clearance		TEM	1200	
8 - 8	0303 AX 257-CL8	"		"	1200	
Note: Copy Results to Tainui Results Needed by 12 Noon 3/19/03						

FOR EMILY (SF 5/00)

Laboratory No. 85462 Received By: [Signature] Time: 9:30  
 Date of Package Deliv: 3-19-03 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt: [Signature] Condition of Custody Seal: [Signature]  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples: 2 Chain-of-Custody Signature: [Signature]  
 Date of Acceptance into Sample Bank: 3-19-03 Misc. Info: 804-232  
 Disposition of Samples: [Signature]

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO <b>619</b>	3. REGION NO. <b>VISN #22</b>		
<b>4. EMPLOYEE INFORMATION</b>					
a. NAME OF EMPLOYEE <b>N/A</b>		SSN <b>N/A</b>	JOB TITLE		
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>					
d. PERSONAL PROTECTIVE EQUIPMENT USED		e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)		
g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).					
<p><b>Date : 03/19/03</b>  <b>Project: Lead Containing Ceramic Tile Removal</b>  <b>Contractor: Unlimited Environmental, Inc.</b>  <b>Location: Bldg. 500 Room. 0200 &amp; 0201 Floor : Basement</b></p>					
h. FREQUENCY (How long job takes) <b>N/A</b>		i. DURATION (How long at this job) <b>N/A</b>		j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>	
<b>5. SAMPLING INFORMATION</b>					
(Fill in Sample No.)		SAMPL_01	SAMPL_02	SAMPLE __	
a. SAMPLE TYPE/MEDIA		Area/Woman's RR	Area/Man's RR		
b. SAMPLE SUBMISSION NO.		0303PB500R0200-1	0303PB500R0201-2		
c. TIME ON		11:30	11:35		
d. TIME OFF		14:35	15:00		
e. TOTAL TIME (In minutes)		205	205		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm		2	2		
g. VOLUME (In liters)		410	410		
<b>6. RESULTS (For Laboratory Use)</b>					
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average				a. PERCENTAGE	
				b. TYPE	
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	DATE
Lcad	Mg/m3	<0.005	mg/m3	<0.005	
7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)					
<b>NIOSH 7082</b>					
8. IH COMMENTS TO LABORATORY					
<b>NIOSH 7082</b>					
9a. ANALYTICAL LABORATORY NAME			AIHA ACCREDITATION NUMBER		
<b>EMS Laboratories</b>			<b>NLLAP# 101634</b>		
9b. ADDRESS			PAT NUMBER		
<b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>					
10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)					
10a. (PRE) CALI-BRATION DATE	10b. FLOW RATE CALCULATIONS	10c. (POST) CALI-BRATION DATE	10d. FLOW RATE CALCULATIONS		
<b>03/19/03</b>	<b>2 liters/minute</b>	<b>03/19/03</b>	<b>2 liters/minute</b>		
11. NAME & JOB TITLE (Person Performing Sampling)		DATE	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..		
<b>Zainul Abedin</b>		<b>03/19/03</b>			

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
---	-----------------------	---------------------------

### 4. EMPLOYEE INFORMATION

d. NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) N/A		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 03/20/03  
**Project:** Lead Containing Ceramic Tile Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 500 Room. 0200 & 0201 Floor : Basement

h. FREQUENCY (How long job takes) N/A	i. DURATION (How long at this job) N/A	j. NUMBER OF EMPLOYEES DOING THIS JOB N/A
--	---	--

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE_Q5	SAMPL_Q6	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Area/Man's RR	Blank/Woman's RR			
b. SAMPLE SUBMISSION NO.	0303PB500R0201-5	0303PB500R0200-6			
c. TIME ON	11:16	Field Blank			
d. TIME OFF	15:16				
e. TOTAL TIME (in minutes)	240				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	2				
g. VOLUME (in liters)	480				

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Calling T = Time Weighted Average					a. PERCENTAGE			
					b. TYPE			
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT				DATE
Lead	mg/m3	<0.004	mg/m3	<0.002				

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 NIOSH 7082

8. IH COMMENTS TO LABORATORY  
 NIOSH 7082

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NLLAP# 101634
9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
10a. (PRE) CALIBRATION DATE 03/20/03	10b. FLOW RATE CALCULATIONS 2 liters/minute	10c. (POST) CALIBRATION DATE 03/20/03	10d. FLOW RATE CALCULATIONS 2 liters/minute
11. NAME & JOB TITLE (Person Performing Sampling) Zainul Abedin	DATE 03/20/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..	

84-234

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

<b>4. EMPLOYEE INFORMATION</b>		
c. NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date :** 03/24/03  
**Project:** Lead Containing Ceramic Tile Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 500 Room. 0200 & 0201 Floor : Basement

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

5. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE <u>09</u>	SAMPL <u>10</u>	SAMPLE <u>12</u>	SAMPLE <u>13</u>	SAMPLE <u>14</u>
a. SAMPLE TYPE/MEDIA	C/Woman's RR	C/Man's RR	Lab. Blank	Wipe C/Woman's RR	Wipe C/Outside
b. SAMPLE SUBMISSION NO.	0303PB500R0200-9	0303PB500R0201-10		0303PB500R0200-13	0303PB500R0200-
c. TIME ON	12:45	12:50		-	-
d. TIME OFF	15:15	15:20		-	-
e. TOTAL TIME (In minutes)	150	150		-	-
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	2	2		Ghost Wipe	Ghost Wipe
g. VOLUME (in liters)	300	300		1 sq.ft	1 sq.ft

6. RESULTS (For Laboratory Use)										
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average										
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Lead	mg/m <sup>3</sup>	<0.007	mg/m <sup>3</sup>	<0.007	mg/m <sup>3</sup>	<0.002	µg/ft <sup>2</sup>	9	µg/ft <sup>2</sup>	36

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**NIOSH 7082**

8. IH COMMENTS TO LABORATORY  
**NIOSH 7082**

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NLLAP# 101634</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10a. (PRE) CALI-BRATION DATE <b>03/24/03</b>	10b. FLOW RATE CALCULATIONS <b>2 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>03/24/03</b>	10d. FLOW RATE CALCULATIONS <b>2 liters/minute</b>
11. NAME & JOB TITLE (Person Performing Sampling) <b>Zalnul Abedin</b>		DATE <b>03/24/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..

**84-235**

Department of Veterans Affairs

**AIR SAMPLING DATA**

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
---	------------------------------	----------------------------------

**4. EMPLOYEE INFORMATION**

d. NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
c. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER <b>N/A</b>	f. APPROVAL No. (for Respirator)

g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse).

**Date : 03/24/03**  
**Project: Lead Containing Ceramic Tile Removal**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 500 Room. 0200 & 0201 Floor : Basement**

h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
---	--	---

**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE <u>15</u>	SAMPL <u>16</u>	SAMPLE <u>17</u>	SAMPLE <u>18</u>
a. SAMPLE TYPE/MEDIA	WipeCl/Man's RR	Wipe CL/Outside	WipeCl/Stud	Wipe Cl/ Pharmacy
b. SAMPLE SUBMISSION NO.	0303PB500R0201-15	0303PB500R0201-16	0303PB500R0200-17	0303PB500R0201-18
c. TIME ON	-	-	-	-
d. TIME OFF	-	-	-	-
e. TOTAL TIME (In minutes)	-	-	-	-
f. FLOW RATE /min	Inside Floor Wipe	Outside Floor Wipe	Inside Stud Wipe	Outside Floor Wipe
g. VOLUME (In liters)	1 sq.ft	1 sq.ft	1 sq.ft	1 sq.ft

**6. RESULTS (For Laboratory Use)**

P = PPM M = mg/m3 F = Fibers C = Counting T = Time Weighted Average

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Lead	µg/ft2	16	µg/ft2	33	µg/ft2	131	µg/ft2	61		

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
**NIOSH 7082**

8. IH COMMENTS TO LABORATORY  
**NIOSH 7082**

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NLLAP# 101634</b>
9b. ADDRESS <b>117 West Bellevue Dr., Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>03/24/03</b>	10b. FLOW RATE CALCULATIONS <b>2 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>03/24/03</b>	10d. FLOW RATE CALCULATIONS <b>2 liters/minute</b>
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>Zainul Abedin</b>	DATE <b>03/24/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..
---	-------------------------	---

84-236

Date: 03/19/03 to 03/24/03

From: Industrial Hygiene (130B)

Subj: LEAD ABATEMENT REPORT

Reporting IH/CSST/CAC: Zainul Abedin

Abatement Dates: 03/19/03 to 03/24/03

Location: VA Hospital Bldg. 500 Rooms 0200 & 0201 Basement

Abatement Company: Unlimited

Phone Number: XXXXXXXXXX

Abatement Supervisor: Jose Villa Gomez

Type of LBP: Lead Containing Ceramic Tiles

Quantity of LBP: Approximately 480 sqft

Abatement Type & Method(s): Removal

Contractor Licensed & Registered: Yes X No     

Worker Training Current: Yes X No     

Fit Tested: Yes X No     

Worker Annual Medical Current: Yes X No     

Safety Meeting Yes X No     

Notification to: SCAQMD Yes X No       
Date: \_\_\_\_\_

CAL/OSHA Yes X No       
Date: \_\_\_\_\_

I. Administrative Controls:

- A. Lead Caution Sign(s) at Worksite Entrance: Yes X No
- B. Employees in Building Notified of Abatement: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

- A. OSHA Employee Monitoring: 8 Hr. TWA: Name: \_\_\_\_\_ Yes      No X
- B. Contractor Calibrated Pumps: Yes X No
- C. Contractor's AIHA PAT Lab:
- D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes      No X Worker's Name/SS #: \_\_\_\_\_
- 2. Pre-Tests:
- 3. Perimeter:     :
- 4. Inside Work Area: : 0303PB500-0200-01, 02, & 05

84-237

5. Clearance: : 0303PB5000200-09 to 18

6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: X Hoods & Boots: Yes X No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes X No

IV. Engineering Controls:

- A. Glove bags: Yes      No X Properly Taped to Pipes: Yes X No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 2 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No      Licensed: Yes X No
- F. Adeq. Neg. Pressure Diff. in Containment Yes X No
- G. Amended Water Used: Yes X No      How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes X No
- I. Wet Wiping and/or HEPA Vacuuming Done after Lead Abated: Yes X No
- J. Work Area Insp./Found to be Free of Lead Dust or Debris: Yes X No
- K. Encapsulation: Yes      No X Name & Type:
- L. Work Area Ready for Clearance Air Testing Yes X No

V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 500, Basement Rooms: 0200 & 0201 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.
- B. Final Air Sampling Results: The results of the clearance air samples taken on 03/24/03 are as follows:

Bldg. <u>500</u>	Floor: <u>Basement</u>	Room: <u>0200</u>	<u>131</u> $\mu\text{g}/\text{ft}^2$
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> Structures/ $\text{mm}^2$
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> fibers/cc
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> fibers/cc

Comments :

HUD Lead Clearance Standard:  $40\mu\text{g}/\text{ft}^2$

Industrial Hygienist : Zainul Abedin

BL-238

DATE: April 2, 2003 Page 1 of 2

CLIENT: VA-GLAHS  
11301 Wilshire Blvd., Bldg 218, Rm. 308  
Los Angeles, CA 90073

ATTENTION: Ben Spivey

REFERENCE: VAGLAHS P.O.#691-C10949  
Bldg. 500 Basement Rooms 0200 & 0201

REPORT NO: 85623

DATE OF SAMPLE COLLECTION: 3/19/03 By Zainul Abedin

DATE RECEIVED: March 25, 2003

DATE ANALYZED: March 25, 2003

ACCREDITATION: American Industrial Hygiene Association (AIHA).  
Laboratory ID# 101634 (Full Accreditation)  
Environmental Lead NLLAP

SUBJECT: ANALYSIS OF FIVE FILTER SAMPLE(S) FOR LEAD

The sample(s) was/were identified as:  
0303PB500-0200-1(Women's Restroom)  
0303PB500-0200-2(Men's Restroom)  
0303PB500-0200-3(Field Blank)  
0303PB500-0200-5(Men's Restroom)  
0303PB500-0200-6(Field Blank)

The sample(s) was/were analyzed for lead by NIOSH 7082, issue 2, August 15, 1994.

The results of the analyses and the detection limit(s) are summarized on the following page(s).

Blank filter sample are subtracted from the sample if analyte is detected in the blank.

Respectfully submitted,  
EMS Laboratories, Inc.



A. N. Kolk Jr.  
Technical Director

AJK/vm

*Note: The report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.*

*Note: The results of the analysis are based upon the sample submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.*

*Any deviation or exclusion from the test method is noted in this cover letter. All the analytical quality control data meet the requirement of the procedure, unless otherwise indicated.*

*Unless otherwise noted in this cover letter the samples were received properly packaged, clearly identified and intact.*

84-239



03/28/2003 11:54 6265684872

03-25-03

EMS LABORATORIES CHEMISTRY REPORT

page 2

CLIENT: VA-GLAHS

LABORATORY NUMBER: 85623

ELEMENT	DETECTION LIMIT
	(mg)
LEAD	< 0.002

SAMPLE NAME	WEIGHT
ELEMENT	(mg)
0200-3	
LEAD	< 0.002

SAMPLES SHOULD BE PRECEDED BY 0303PBS00-. METHOD: NIOSH 7082  
mg/m<sup>3</sup> = milligrams per cubic meter

SAMPLE NAME ELEMENT	WEIGHT (mg)	CONCENTRATION (mg/m <sup>3</sup> )
0200-1	FILTER VOLUME 410 liters	
LEAD	< 0.002	< 0.005
0200-2	FILTER VOLUME 410 liters	
LEAD	< 0.002	< 0.005
0200-5	FILTER VOLUME 480 liters	
LEAD	< 0.002	< 0.004
0200-6	CLIENT BLANK	
LEAD	< 0.002	

CHEMIST



84-240

03/29/2003 11:54 6265684872

**SUBMITTAL FORM/Laboratory Services**

85623

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.  <8 HR.  WKND  OTHER:

REINFORCED BY Zadnub  
TIME / DATE \_\_\_\_\_

CLIENT VA-GLAHS (130B)  
ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90073 RM 308  
TELEPHONE \_\_\_\_\_  
CONTACT BEN SPIVEY

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) Bldg See Restroom Rooms 0200 202  
PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_  
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/19/03  
SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
NO. OF SAMPLES SENT 6 SAMPLER'S NAME Zadnub  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)  
EMS Sample No. 85623-1  
2  
3  
4  
5  
6

CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME
0303Pb500-0200-1	Women's Restroom		Lead	4p
-2	Men's Restroom		Lead	410
-3	Field Blank		Lead	-
-4	Women's Rest Room		Lead	-
-5	Men's Restroom		Lead	480
-6	Field Blank		Lead	-

Notes  
 ① Don't Analyze  
 ② Copy Prints to Zadnub

(SF 5/00)

Laboratory No. 85623 Received By [Signature] Time 10:55  
Date of Package Delivery 3-25-03 Shipping Bill Retained YES  NONE   
Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal \_\_\_\_\_  
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
No. of Samples 3-25-03 6 Chain-of-Custody Signature [Signature]  
Date of Acceptance into Sample Bank 3-25-03 Misc. Info. \_\_\_\_\_  
Disposition of Samples MSL W/P 84-241

DATE: March 26, 2003

Page 1 of 3

CLIENT: VAGLAHS  
11301 Wilshire Blvd., Bldg. 218, Room 308  
Los Angeles, CA 90073

ATTENTION: Ben Spivey

REFERENCE: PO# 691-C10949  
Bldg. 500 Rooms 0200 & 0201

REPORT NO: 85624

DATE COLLECTED: March 24, 2003 by Zainul Abedin

DATE RECEIVED: March 25, 2003

DATE ANALYZED: March 25, 2003

ACCREDITATION: American Industrial Hygiene Association (AIHA)  
Laboratory ID #101634 (Full Accreditation)  
Environmental Lead NLLAP  
California Dept. of Health Services ELAP 1119.

SUBJECT: ANALYSIS OF WIPE AND FILTER SAMPLES FOR LEAD

The samples were identified as: 0303PB500-0200-CL09  
0303PB500-0201-CL10 to 0303PB500-0201-CL18

The samples were analyzed for lead by NIOSH 7082, issue 2, August 15, 1994.

The result of the analyses and the detection limit(s) are summarized on the following page(s).

Respectfully submitted,

EMS LABORATORIES, INC.

  
A. J. Kolk Jr.  
Technical Director

AJK/ah

Note: The report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
Note: The results of the analysis are based upon the sample submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.  
Any deviation or exclusion from the test method is noted in this cover letter.  
Unless otherwise noted in this cover letter the samples were received properly packaged, clearly identified and intact.

03-25-03

EMS LABORATORIES CHEMISTRY REPORT

page 2

CLIENT: VA-GLAHS

LABORATORY NUMBER: 85624

ELEMENT	DETECTION LIMIT
	(mg)
LEAD	< 0.002

SAMPLE NAME	WEIGHT
ELEMENT	(mg)
0201-CL-11	
LEAD	< 0.002

SAMPLES SHOULD BE PRECEDED BY 0303PBS00-. METHOD: NIOSH 7082  
mg/m<sup>3</sup> = milligrams per cubic meter

SAMPLE NAME ELEMENT	WEIGHT (mg)	CONCENTRATION (mg/m <sup>3</sup> )
0201-CL-12	CLIENT BLANK	
LEAD	< 0.002	
0200-CL-09	FILTER VOLUME 300 liters	
LEAD	< 0.002	< 0.007
0201-CL-10	FILTER VOLUME 300 liters	
LEAD	< 0.002	< 0.007

CHEMIST

*FR*

84-242

03-25-03

EMS LABORATORIES CHEMISTRY REPORT

page 3 of 3

CLIENT: VA-GLAHS

LABORATORY NUMBER: 5624

ELEMENT	DETECTION LIMIT
	(micro grams)
LEAD	< 8

SAMPLE NAME	WEIGHT
ELEMENT	(micro grams)
BLANK	
LEAD	< 8

SAMPLES SHOULD BE PRECEDED BY 0303PB500-. METHOD: NIOSH 7082  
 micro grams/foot<sup>2</sup> = micro grams per square foot

SAMPLE NAME ELEMENT	WEIGHT (micro grams)	CONCENTRATION (micro grams/foot <sup>2</sup> )
0201-CL-13 LEAD	WIPE AREA 1 sq. feet 9	9
0201-CL-14 LEAD	WIPE AREA 1 sq. feet 36	36
0201-CL-15 LEAD	WIPE AREA 1 sq. feet 16	16
0201-CL-16 LEAD	WIPE AREA 1 sq. feet 33	33
0201-CL-17 LEAD	WIPE AREA 1 sq. feet 131	131
0201-CL-18 LEAD	WIPE AREA 1 sq. feet 61	61

CHEMIST

*FRD*

84-243

SUBMITTAL FORM/Laboratory Services

85624

PAGE 1 OF 1

TURNAROUND TIME: STD 48 HR. 24 HR. <8 HR. WKND OTHER RELINQUISHED BY Zaimul TIME / DATE 3/24/03

CLIENT VA-GLAHS (130b) DATE OF SHIPMENT 3/24 CARRIER ADDRESS 11301 WILSHIRE BLVD, BLDG 218 LOS ANGELES, CA 90073 RM 308 CLIENT P.O. NO. CLIENT JOB/PROJECT ID NO(S) Bldg 500 Rooms 0200 & 0201 PACKAGE SHIPPED FROM CONTACT BEN SPIVEY

RESULTS REQUESTED VIA VERBAL FAX CLIENT FAX NO. (NOTE: Complete written reports will follow all analyses. In addition to any prior transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 3/24/03 SAMPLE PRESERVATIVES HOLDING TIMES NO. OF SAMPLES SENT 10 SAMPLER'S NAME Zaimul / Zaimul TYPE: WATER WASTE WATER SOIL FILTER SORBENT TUBE IMPINGER OTHER

Table with columns: EMS Sample No., CLIENT SAMPLE NO., DESCRIPTION, LOCATION, ANALYSIS. Includes handwritten entries for lead analysis at various locations like Women's RR, Men's RR, and Floor Wipe.

(SF 5/00)

LABORATORY No. 85624 Date of Package Delivery 3-25-03 Condition of Package on Receipt 90% No. of Samples 10 Date of Acceptance into Sample Bank 3-25-07 Disposition of Samples EMS LAB